

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00674 ~ HD24GV-55L35K-EX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00674
[TESTLAB] Spectrum Photometric Lab VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/20/2018
[UPDATE] 5/3/2018
[LUMCAT] HD24GV-55L-35K-EX-MWI-xx
[LUMINAIRE] Nom. 24" diam x 11.9" H, Half Dome luminaire
[OTHER] Regressed, 6" diam low profile frosted glass diffuser
[OTHER] Reflector: Matte White interior finish
[OTHER] Nom. 99 Degree Beam Angle
[LAMP] N/A, Gen3
[LAMPCAT] N/A
[OTHER] Total Luminaire Watts is approximate
[OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03
[OTHER] This report generated by Spectrum Lighting
[_CRI]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4058
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.00 ft (Diameter)
Luminous Width (90-270)	2.00 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5834	5862	5885
55	3067	3269	3442
65	1522	1565	1583
75	1501	1558	1594
85	945	1079	1225

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1936.233	1936.233	1936.233	1936.233	1936.233	1936.233	1936.233	1936.233	1936.233	1936.233
2.5	1927.962	1929.547	1921.347	1918.392	1916.043	1916.506	1923.662	1927.427	1932.455	1934.442
5.0	1913.069	1910.035	1900.464	1898.475	1893.097	1890.557	1901.036	1908.065	1921.953	1921.012
7.5	1885.355	1880.736	1869.746	1867.069	1862.673	1858.087	1869.013	1876.028	1891.171	1896.374
10.0	1855.774	1846.892	1835.048	1833.578	1828.504	1819.816	1832.335	1840.125	1859.068	1865.164
12.5	1819.260	1808.938	1795.693	1793.753	1792.048	1778.556	1789.429	1797.178	1817.313	1826.483
15.0	1780.215	1769.507	1754.243	1753.217	1749.721	1733.553	1744.119	1752.203	1775.215	1783.979
17.5	1734.017	1725.694	1710.780	1708.887	1704.503	1686.989	1697.654	1704.183	1727.009	1737.906
20.0	1687.632	1680.680	1665.604	1664.335	1659.395	1641.480	1650.844	1656.417	1678.778	1691.777
22.5	1640.832	1634.778	1619.077	1619.748	1614.328	1596.307	1602.921	1608.958	1630.296	1645.605
25.0	1593.078	1588.699	1573.282	1575.103	1570.841	1550.072	1554.753	1562.192	1582.045	1597.049
27.5	1543.651	1539.907	1527.952	1529.359	1527.819	1503.588	1509.367	1516.106	1535.186	1547.026
30.0	1495.303	1490.768	1483.572	1484.118	1482.395	1461.264	1464.388	1470.516	1488.496	1498.508
32.5	1448.518	1446.303	1439.680	1443.628	1436.446	1419.637	1423.738	1425.331	1442.533	1450.738
35.0	1403.600	1402.178	1397.969	1402.958	1396.193	1377.814	1383.457	1383.648	1397.237	1405.719
37.5	1360.862	1360.821	1357.150	1361.252	1356.764	1335.971	1341.042	1344.265	1354.047	1361.784
40.0	1315.426	1319.205	1313.405	1318.616	1314.331	1291.335	1298.386	1298.548	1309.031	1312.718
42.5	1267.439	1269.874	1268.752	1272.287	1271.634	1246.478	1248.339	1249.516	1259.623	1262.120
45.0	1205.147	1217.577	1211.023	1219.552	1215.654	1187.017	1195.740	1190.217	1203.448	1200.056
47.5	1131.604	1132.610	1150.267	1147.257	1156.478	1119.119	1108.732	1126.557	1134.083	1135.400
50.0	952.653	1023.071	961.313	1022.033	985.997	919.505	1000.354	946.795	995.795	938.009
52.5	707.002	757.359	751.697	772.961	811.038	718.898	737.804	729.275	750.517	720.487
55.0	513.991	516.182	547.761	554.221	576.823	510.192	498.353	532.943	540.875	521.499
57.5	347.480	380.527	344.359	391.294	362.021	324.490	368.232	341.667	375.768	324.101
60.0	263.526	266.845	276.148	274.230	285.695	260.931	258.118	265.374	267.840	261.448
62.5	213.171	224.999	214.172	226.622	218.701	206.340	218.928	208.912	219.402	204.225
65.0	187.947	190.249	193.230	192.381	195.490	185.241	185.527	186.368	188.237	185.402
67.5	170.404	172.265	172.883	173.989	174.146	165.591	166.754	167.374	171.302	166.740
70.0	152.086	154.819	156.792	156.130	157.843	149.210	148.513	151.033	153.806	149.167
72.5	133.414	138.017	138.826	138.625	139.919	131.768	130.942	133.661	136.055	130.807
75.0	113.509	116.925	117.824	119.366	120.499	113.459	111.895	113.787	115.921	111.202
77.5	92.743	95.172	95.963	98.271	98.358	91.364	91.857	92.267	95.189	89.929
80.0	70.787	74.659	73.545	74.975	76.555	68.445	70.467	70.557	73.718	68.327
82.5	47.175	49.394	50.652	52.940	54.730	44.803	47.659	48.734	51.520	46.297
85.0	24.059	25.693	27.462	30.115	31.193	21.909	23.686	24.685	25.899	23.290
87.5	5.332	5.349	6.651	8.611	9.874	4.802	5.322	5.362	7.093	4.825
90.0	0.768	0.591	1.330	0.329	0.923	0.632	0.675	1.033	0.571	0.809
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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PHOTOMETRIC FILENAME : SP-00674 ~ HD24GV-55L35K-EX-MWI.IES

CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1936.233	1936.233	1936.233	1936.233	1936.233	1936.233	1936.233
2.5	1934.574	1930.863	1931.039	1938.115	1937.698	1935.889	1927.962
5.0	1925.314	1923.711	1921.269	1931.258	1929.013	1923.939	1913.069
7.5	1903.827	1903.731	1902.289	1916.091	1908.776	1900.092	1885.355
10.0	1876.849	1879.194	1875.148	1892.314	1882.847	1873.208	1855.774
12.5	1841.416	1844.248	1843.042	1861.373	1850.805	1838.183	1819.260
15.0	1803.055	1806.954	1807.329	1824.423	1814.538	1801.714	1780.215
17.5	1759.591	1765.369	1768.151	1784.925	1774.494	1758.768	1734.017
20.0	1714.756	1721.001	1726.956	1743.679	1730.707	1715.089	1687.632
22.5	1667.716	1672.508	1681.083	1699.058	1684.216	1668.500	1640.832
25.0	1620.259	1623.879	1632.983	1652.556	1635.963	1621.750	1593.078
27.5	1570.398	1575.086	1582.889	1603.259	1586.691	1572.956	1543.651
30.0	1520.252	1525.484	1532.057	1552.734	1538.083	1524.236	1495.303
32.5	1471.969	1475.087	1483.089	1503.162	1489.789	1476.927	1448.518
35.0	1423.807	1425.300	1434.636	1453.917	1439.897	1429.701	1403.600
37.5	1375.001	1376.003	1383.477	1403.720	1389.417	1383.224	1360.862
40.0	1325.808	1321.618	1331.757	1353.275	1339.044	1335.477	1315.426
42.5	1268.458	1263.933	1271.125	1294.612	1288.700	1280.615	1267.439
45.0	1207.650	1193.547	1209.292	1234.449	1220.854	1220.015	1205.147
47.5	1112.029	1116.386	1088.064	1137.833	1149.418	1136.016	1131.604
50.0	991.727	919.549	962.639	1036.937	960.471	1008.285	952.653
52.5	723.585	672.598	698.759	778.206	755.880	749.116	707.002
55.0	483.156	488.658	437.344	510.122	548.551	524.197	513.991
57.5	356.582	324.885	336.211	384.970	341.031	378.306	347.480
60.0	251.558	253.233	241.144	263.966	275.365	267.720	263.526
62.5	214.270	204.161	211.367	226.278	213.906	223.293	213.171
65.0	183.128	182.285	183.540	190.782	193.257	189.931	187.947

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CANDELA TABULATION - (Cont.)

67.5	166.028	164.932	167.224	172.972	173.209	172.574	170.404
70.0	148.878	148.419	149.447	154.944	156.778	154.558	152.086
72.5	131.669	130.972	128.489	136.365	138.441	136.020	133.414
75.0	111.238	110.666	108.425	116.826	117.242	114.990	113.509
77.5	90.103	89.476	88.284	96.279	93.657	93.214	92.743
80.0	69.329	67.383	65.821	73.480	71.550	70.903	70.787
82.5	45.930	44.001	43.129	49.465	49.723	49.978	47.175
85.0	22.284	19.935	18.679	26.870	24.571	25.151	24.059
87.5	4.151	3.286	3.202	6.385	5.280	6.010	5.332
90.0	0.441	0.898	0.996	0.692	1.083	0.579	0.768
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	681.76	N.A.	16.80
0-30	1417.71	N.A.	34.90
0-40	2301.2	N.A.	56.70
0-60	3713.08	N.A.	91.50
0-80	4026.45	N.A.	99.20
0-90	4057.71	N.A.	100.00
10-90	3876.96	N.A.	95.50
20-40	1619.44	N.A.	39.90
20-50	2536.47	N.A.	62.50
40-70	1605.37	N.A.	39.60
60-80	313.37	N.A.	7.70
70-80	119.88	N.A.	3.00
80-90	31.26	N.A.	0.80
90-110	0.11	N.A.	0.00
90-120	0.11	N.A.	0.00
90-130	0.11	N.A.	0.00
90-150	0.11	N.A.	0.00
90-180	0.11	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4057.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.75
10-20	501.02
20-30	735.95
30-40	883.49
40-50	917.04
50-60	494.84
60-70	193.49
70-80	119.88
80-90	31.26
90-100	0.11
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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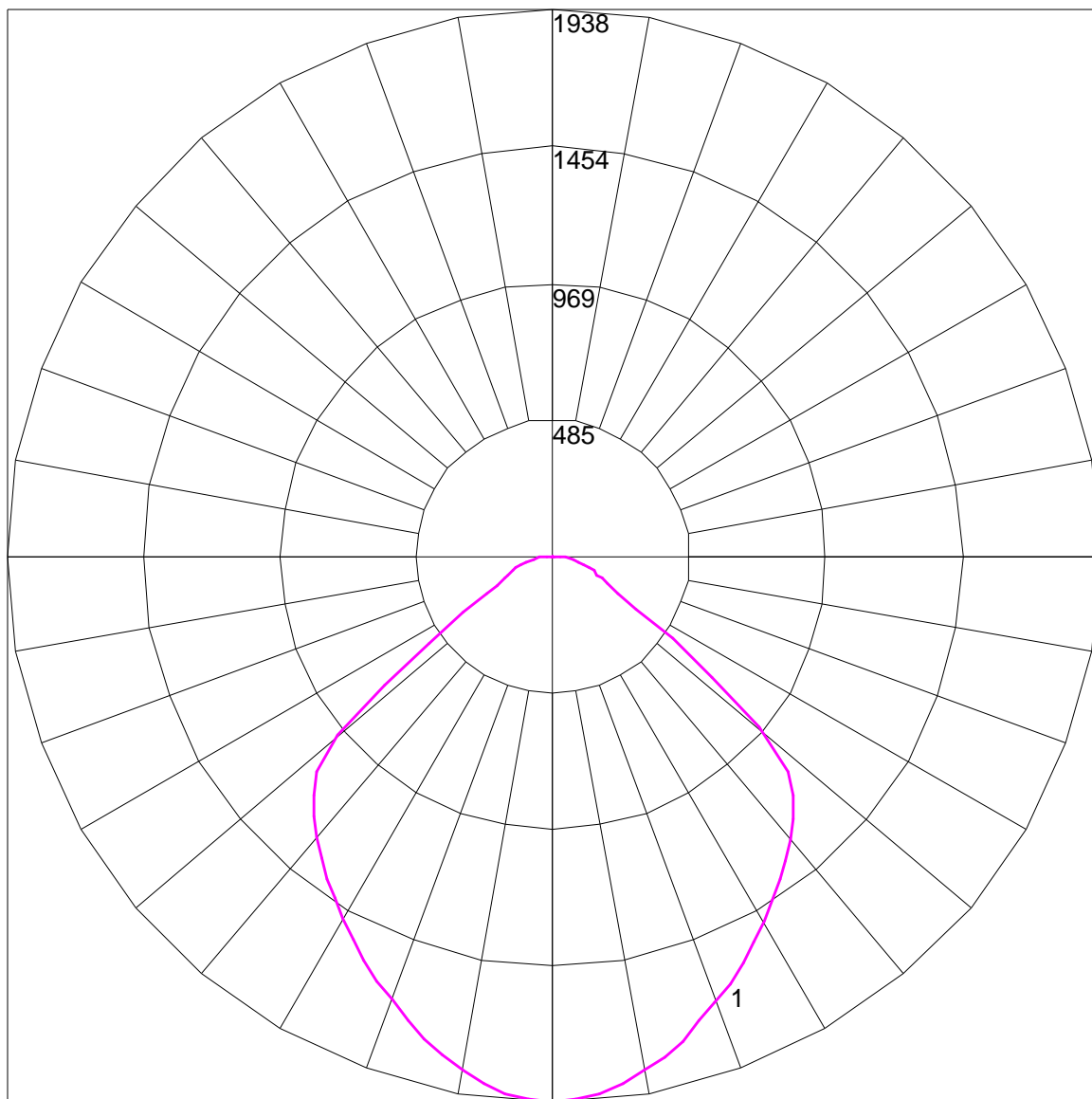
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	85	78	73	92	84	77	72	81	76	71	78	74	70	76	72	69	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58
5	81	69	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	43	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30

IES INDOOR REPORT
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POLAR GRAPH



Maximum Candela = 1938.115 Located At Horizontal Angle = 292.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)