

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P646855

Luminaire Tested: **GALN-SA3C-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646855  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16526.8 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

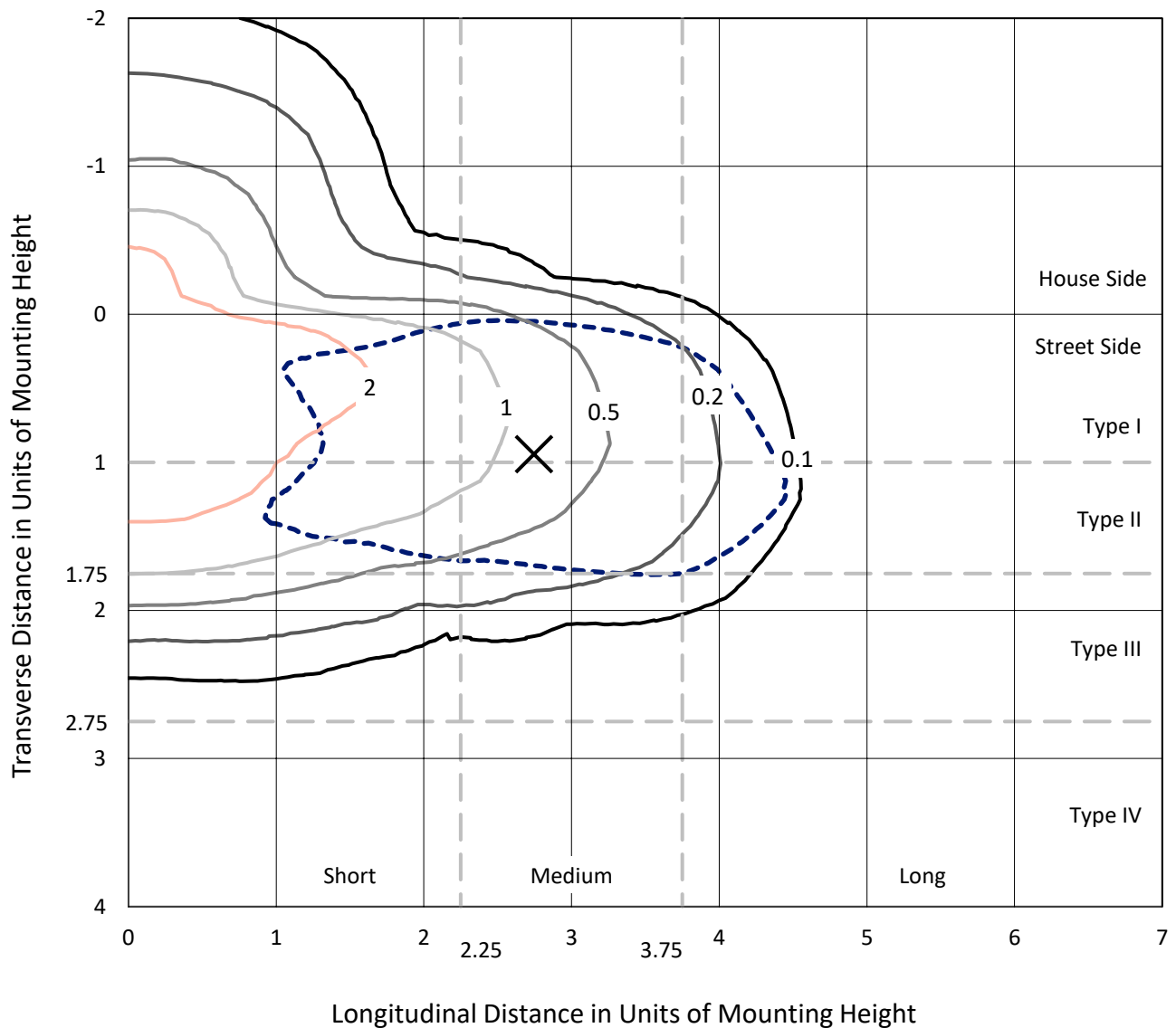




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### Iso-Footcandle Lines of Horizontal Illumination

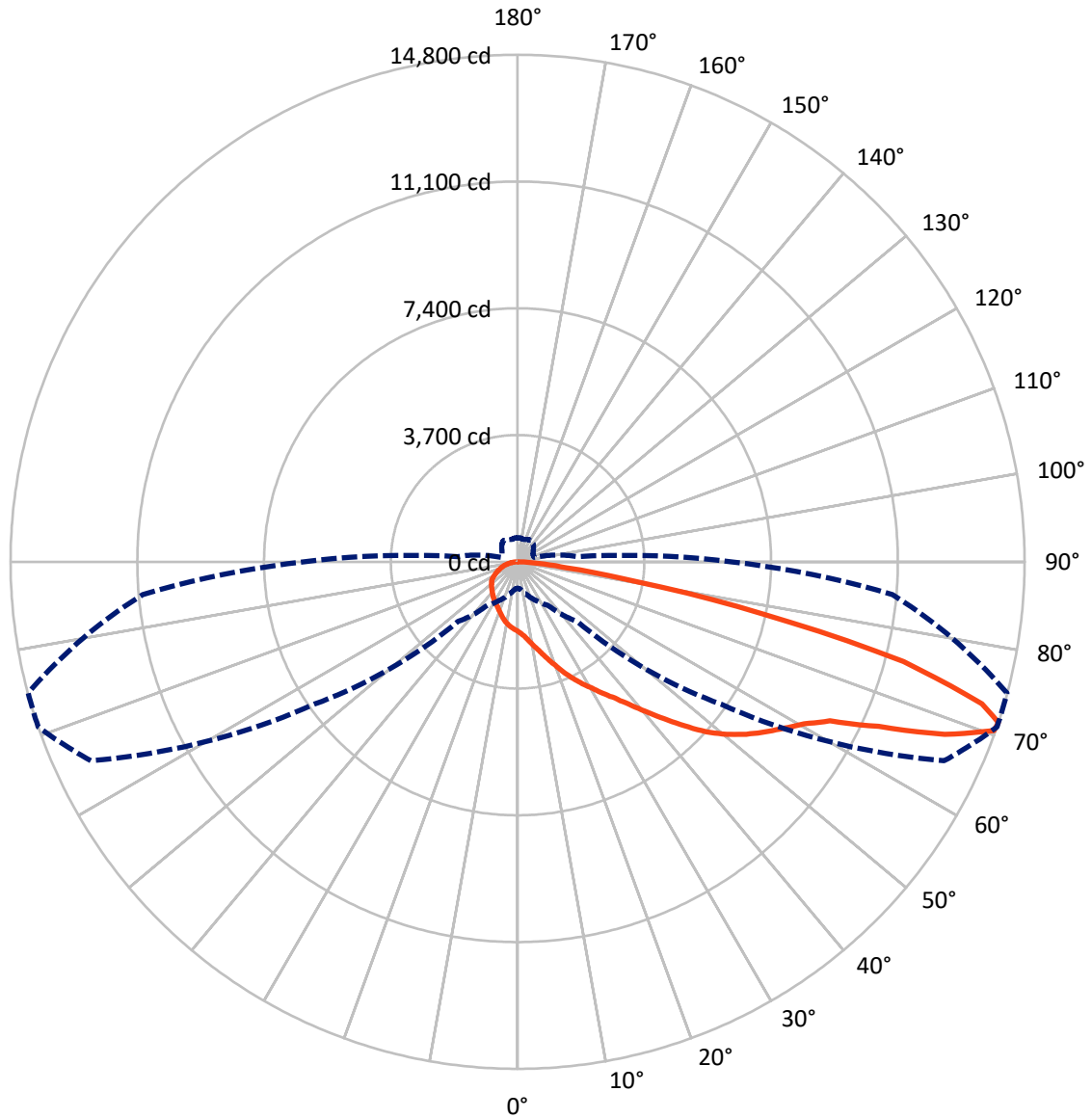
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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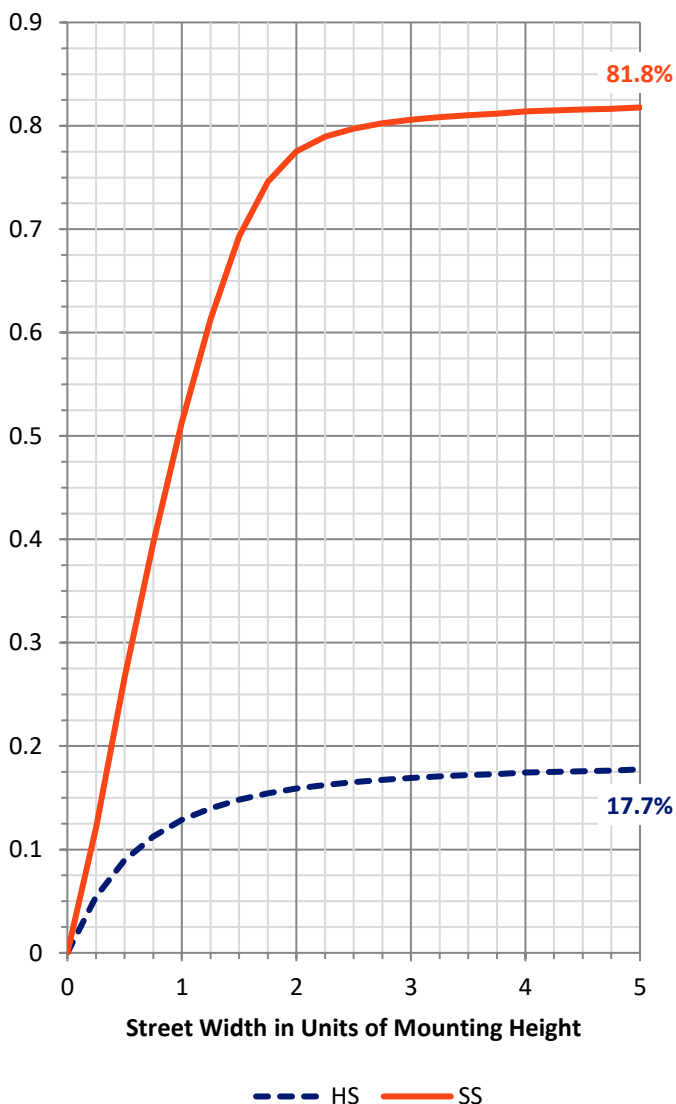
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2972.3	0.0	2972.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	13554.5	0.0	13554.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	16526.8	0.0	16526.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.7	1.2
10°-20°	661.7	4.0
20°-30°	1156.3	7.0
30°-40°	1719.9	10.4
40°-50°	2534.0	15.3
50°-60°	3547.7	21.5
60°-70°	3968.0	24.0
70°-80°	2423.8	14.7
80°-90°	311.8	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16526.8	100.0
0°-180°	16526.8	100.0

**Coefficient of Utilization**

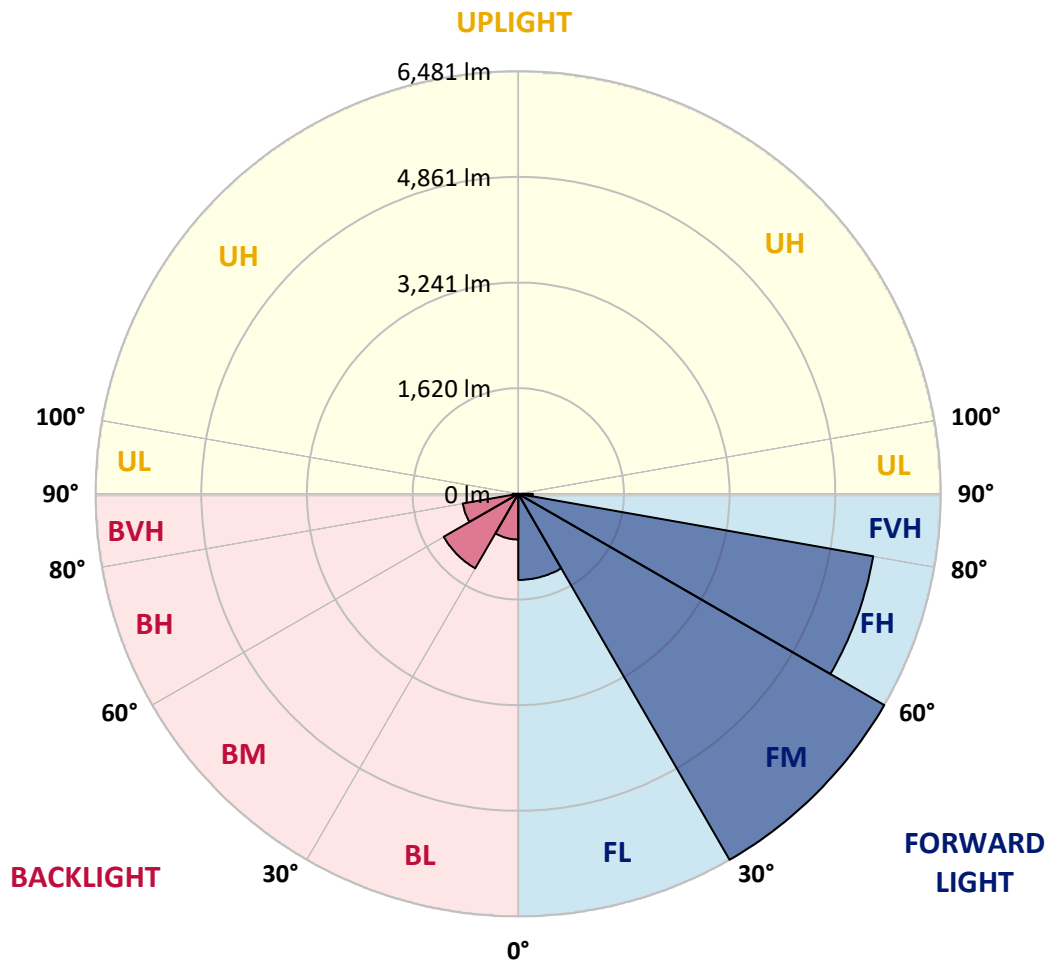


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.5	8.0			
FM (30°-60°)	6481.5	39.2			
FH (60°-80°)	5528.2	33.4			G3/7500
FVH (80°-90°)	224.3	1.4			G2/225
BL (0°-30°)	701.2	4.2	B2/1000		
BM (30°-60°)	1320.1	8.0	B2/2500		
BH (60°-80°)	863.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	87.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4
2.5°	2251.8	2240.9	2241.8	2226.4	2206.3	2184.6	2153.7	2126.5	2104.6	2091.9	2054.7
5°	2495.3	2484.3	2470.7	2437.1	2422.5	2369.0	2300.8	2239.1	2191.9	2165.5	2091.0
7.5°	2692.3	2689.6	2686.0	2666.9	2629.6	2555.2	2497.1	2389.9	2320.0	2270.0	2142.8
10°	2814.0	2818.6	2821.3	2825.0	2809.5	2770.5	2690.5	2555.2	2466.1	2402.6	2210.0
12.5°	2875.8	2880.3	2895.8	2929.4	2950.3	2945.8	2880.3	2747.8	2625.1	2541.5	2281.7
15°	2913.9	2921.2	2948.5	2993.0	3062.9	3107.4	3075.6	2953.0	2818.6	2719.6	2367.2
17.5°	2955.7	2964.0	2993.9	3057.5	3149.2	3245.5	3280.1	3174.7	3028.4	2910.3	2462.5
20°	2979.4	2990.3	3033.0	3116.5	3223.7	3363.6	3478.1	3422.6	3262.8	3132.0	2572.5
22.5°	3017.5	3026.6	3062.9	3152.0	3280.1	3455.4	3676.1	3664.3	3523.5	3354.5	2693.2
25°	3121.0	3135.6	3153.8	3207.4	3330.9	3548.9	3840.5	3922.2	3776.0	3587.1	2804.1
27.5°	3316.4	3328.1	3327.3	3334.6	3404.5	3629.8	3983.1	4177.5	4026.7	3822.3	2911.3
30°	3538.9	3543.5	3547.1	3530.7	3546.2	3712.4	4113.9	4430.0	4279.3	4063.9	3004.8
32.5°	3809.6	3818.7	3787.8	3746.0	3733.3	3835.1	4222.0	4682.5	4578.0	4309.2	3097.5
35°	4129.3	4153.0	4090.3	4016.7	3965.0	4011.2	4367.3	4940.5	4884.2	4622.6	3220.1
37.5°	4494.5	4523.5	4465.4	4321.0	4247.5	4260.1	4557.1	5259.3	5271.2	4979.6	3402.7
40°	4793.4	4831.5	4833.3	4628.9	4517.2	4531.8	4797.9	5602.7	5738.1	5421.0	3617.9
42.5°	4990.5	5027.7	5066.7	4946.8	4829.7	4912.3	5078.5	5975.1	6263.1	5956.9	3918.6
45°	5206.6	5240.2	5262.1	5207.6	5142.1	5356.5	5417.3	6371.1	6822.6	6555.5	4247.5
47.5°	5457.4	5494.5	5515.5	5463.7	5439.2	5746.2	5782.5	6740.8	7420.3	7136.9	4610.8
50°	5791.6	5819.8	5808.8	5776.2	5770.7	6045.1	6133.2	7086.9	7913.5	7762.7	4987.7
52.5°	6207.6	6241.2	6253.0	6206.8	6185.9	6258.5	6415.7	7402.1	8362.2	8300.4	5390.1
55°	6459.3	6512.8	6692.7	6765.4	6815.3	6534.6	6719.9	7750.0	8764.7	8867.2	5822.5
57.5°	6136.8	6205.8	6608.2	6971.5	7441.2	7225.0	7151.4	8113.4	9167.1	9416.8	6340.3
60°	5350.2	5365.6	5884.2	6553.7	7498.4	8112.4	8051.6	8691.1	9603.0	9970.9	7022.4
62.5°	3711.5	3744.2	4357.3	5425.6	6791.7	8432.2	9583.1	9688.5	10227.9	10800.2	8022.5
65°	1913.9	1871.2	2429.8	3410.0	5120.4	7672.8	10823.9	11522.4	11583.2	12097.4	9430.5
67.5°	1178.1	1197.2	1458.8	1991.1	3027.5	5576.4	10694.0	13763.3	13442.6	13689.7	10737.6
70°	884.7	908.4	1088.2	1362.5	1845.8	3188.3	8600.2	14306.4	14754.2	14690.6	11135.4
71°	769.4	793.9	981.0	1239.9	1550.6	2460.7	7245.9	13737.8	14799.7	14788.8	10985.6
72.5°	655.8	671.3	817.5	1050.1	1307.1	1724.9	5443.7	12320.8	14168.4	14530.8	10450.5
75°	515.1	526.8	592.3	801.2	1029.2	1059.2	2921.2	9237.0	11636.8	12327.2	8700.1
77.5°	419.7	427.8	461.4	595.0	793.9	750.3	1532.4	6012.3	7290.4	7985.3	5124.9
80°	333.4	342.5	362.5	403.3	595.0	535.0	731.2	3046.6	3521.6	3514.4	2045.6
82.5°	258.9	261.6	285.2	296.1	406.9	379.7	396.0	1289.8	1428.8	1476.0	738.4
85°	163.5	171.7	252.5	227.1	243.4	222.5	195.3	512.3	631.3	622.3	295.2
87.5°	50.0	52.7	85.3	96.3	108.1	97.2	71.7	150.8	184.4	199.8	73.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4	2028.4
2.5°	2040.1	2030.2	1994.7	1965.6	1938.4	1908.4	1883.0	1875.8	1869.4	1866.7	1865.7
5°	2059.2	2029.2	1959.3	1902.1	1856.6	1814.8	1788.5	1776.7	1764.9	1764.9	1768.6
7.5°	2086.5	2032.0	1923.9	1838.5	1781.2	1742.2	1723.1	1721.3	1724.0	1726.7	1727.7
10°	2116.4	2030.2	1872.1	1765.8	1714.9	1696.8	1697.7	1713.1	1727.7	1738.6	1740.4
12.5°	2145.5	2019.3	1811.2	1697.7	1665.0	1668.7	1694.1	1728.6	1756.7	1772.2	1773.1
15°	2178.2	2002.0	1737.6	1633.2	1622.3	1650.5	1697.7	1750.4	1793.1	1818.5	1821.3
17.5°	2205.5	1972.9	1660.4	1570.5	1584.2	1635.9	1701.3	1769.4	1821.3	1853.0	1858.5
20°	2236.3	1935.7	1580.5	1510.6	1549.6	1619.6	1694.1	1767.6	1821.3	1852.1	1859.4
22.5°	2260.8	1883.0	1504.2	1461.5	1518.8	1599.6	1669.5	1728.6	1772.2	1788.5	1799.4
25°	2270.9	1816.7	1432.5	1421.5	1494.2	1566.9	1614.2	1647.7	1661.4	1659.6	1664.1
27.5°	2265.4	1740.4	1370.7	1389.7	1463.3	1516.0	1539.6	1537.0	1512.4	1489.7	1500.6
30°	2242.7	1649.5	1318.9	1357.1	1423.4	1452.5	1448.8	1413.4	1367.0	1324.4	1327.1
32.5°	2201.8	1551.4	1270.8	1319.8	1367.0	1379.8	1355.2	1308.9	1242.6	1187.2	1179.0
35°	2167.3	1457.9	1228.1	1277.2	1310.7	1304.4	1280.8	1220.9	1160.9	1111.8	1103.6
37.5°	2161.9	1377.9	1187.2	1229.0	1248.1	1239.0	1209.9	1159.1	1137.2	1100.0	1095.5
40°	2190.9	1321.6	1145.5	1178.1	1187.2	1179.9	1148.1	1119.1	1139.0	1129.9	1129.9
42.5°	2270.0	1291.6	1108.2	1127.3	1134.5	1140.0	1117.3	1092.8	1117.3	1075.5	1061.8
45°	2395.3	1292.6	1074.6	1077.3	1099.1	1118.2	1102.7	1066.4	1053.7	970.1	953.8
47.5°	2579.7	1323.4	1047.3	1030.0	1069.1	1100.9	1079.1	1026.4	970.1	914.7	904.7
50°	2795.0	1378.9	1022.8	981.0	1029.2	1079.1	1062.8	1001.0	942.9	909.2	902.9
52.5°	3033.9	1448.8	992.8	926.5	980.1	1069.1	1066.4	997.4	917.4	894.7	889.3
55°	3329.1	1517.8	955.6	862.9	936.5	1061.0	1056.4	967.4	912.0	895.6	893.8
57.5°	3672.4	1617.8	902.0	798.4	886.5	1027.4	1017.4	949.2	893.8	882.0	881.1
60°	4225.6	1773.1	825.7	739.4	835.7	968.3	981.0	918.3	864.7	862.0	861.1
62.5°	4953.2	1991.1	746.7	678.5	776.7	892.0	928.3	876.6	833.9	847.5	849.3
65°	5957.8	2174.5	664.9	626.8	711.2	818.4	878.4	837.5	799.4	825.7	825.7
67.5°	6612.7	2178.2	590.5	573.2	645.0	756.7	825.7	791.1	754.8	799.4	801.2
70°	6476.5	1908.4	528.7	516.9	580.4	690.4	767.6	740.3	698.5	738.4	724.0
71°	6256.7	1758.5	504.1	495.0	555.0	658.6	740.3	717.6	675.8	702.1	694.0
72.5°	5906.1	1526.9	464.2	466.0	516.9	618.6	702.1	678.5	636.7	651.3	648.6
75°	4992.3	1333.4	397.0	405.1	444.2	550.4	625.9	607.7	565.0	565.0	562.3
77.5°	3121.0	931.9	329.7	334.3	376.9	471.4	537.8	522.3	481.4	467.8	464.2
80°	1164.5	481.4	258.0	263.4	289.8	371.5	445.1	430.6	388.8	373.3	358.8
82.5°	440.5	241.6	189.9	185.3	213.4	283.4	348.8	331.5	298.9	261.6	250.7
85°	166.2	119.9	116.3	112.7	125.4	168.0	216.2	212.6	178.1	151.7	149.0
87.5°	43.6	39.1	45.4	33.6	35.4	31.8	32.7	13.6	6.3	2.7	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)