

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: P652245

Luminaire Tested: **GALN-SA2B-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652245  
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-SA2B-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9678.2 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

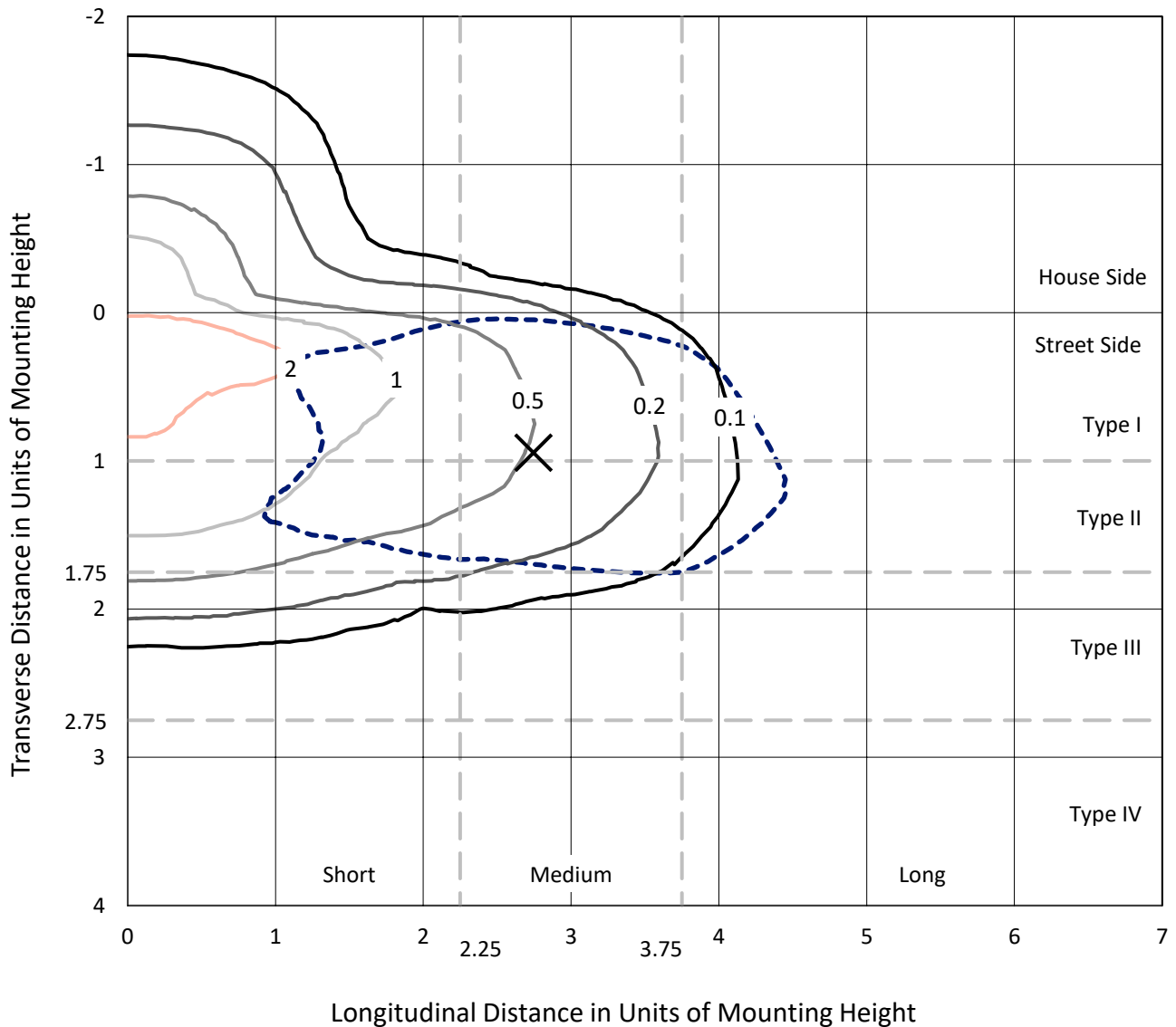
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

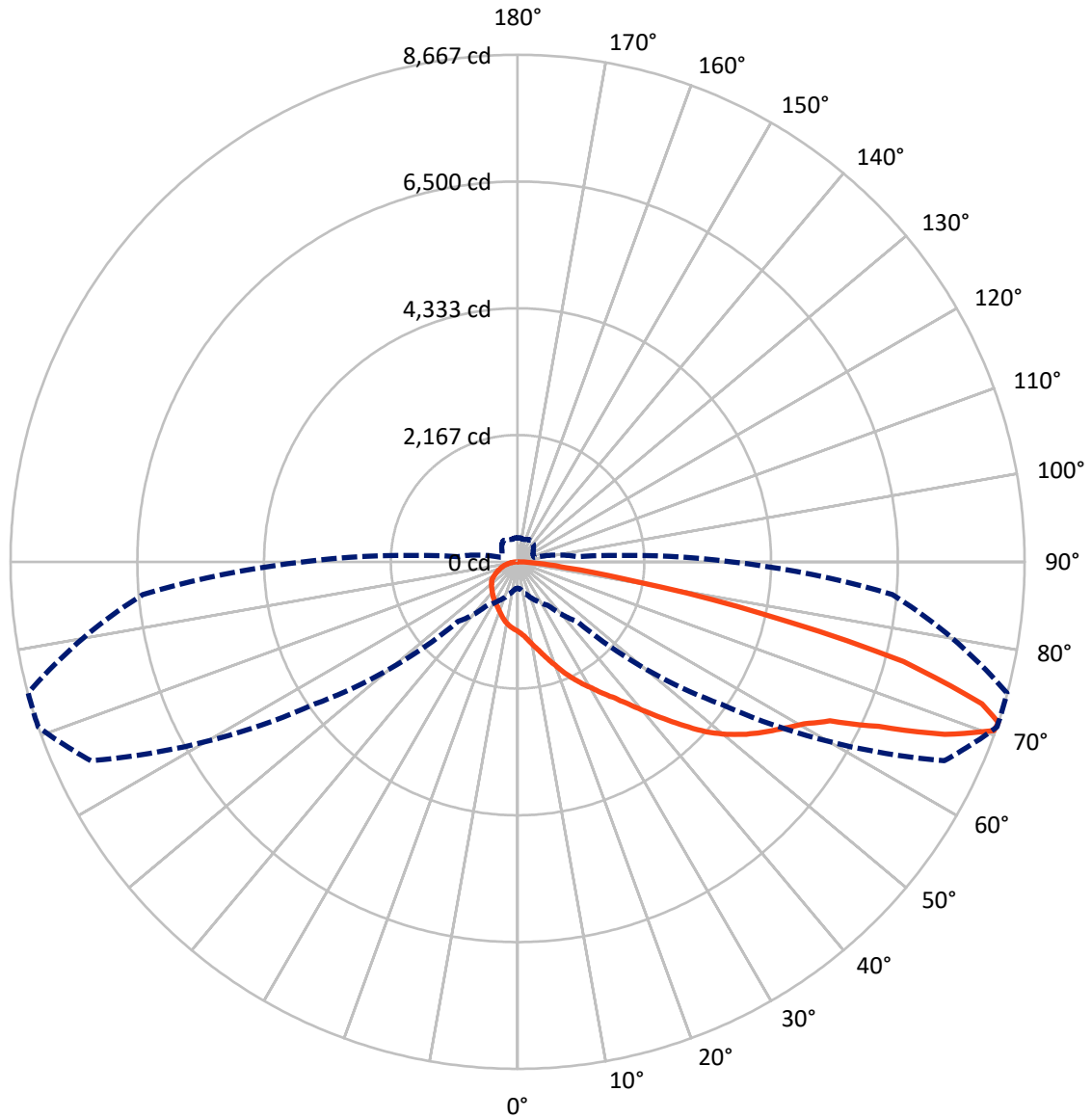
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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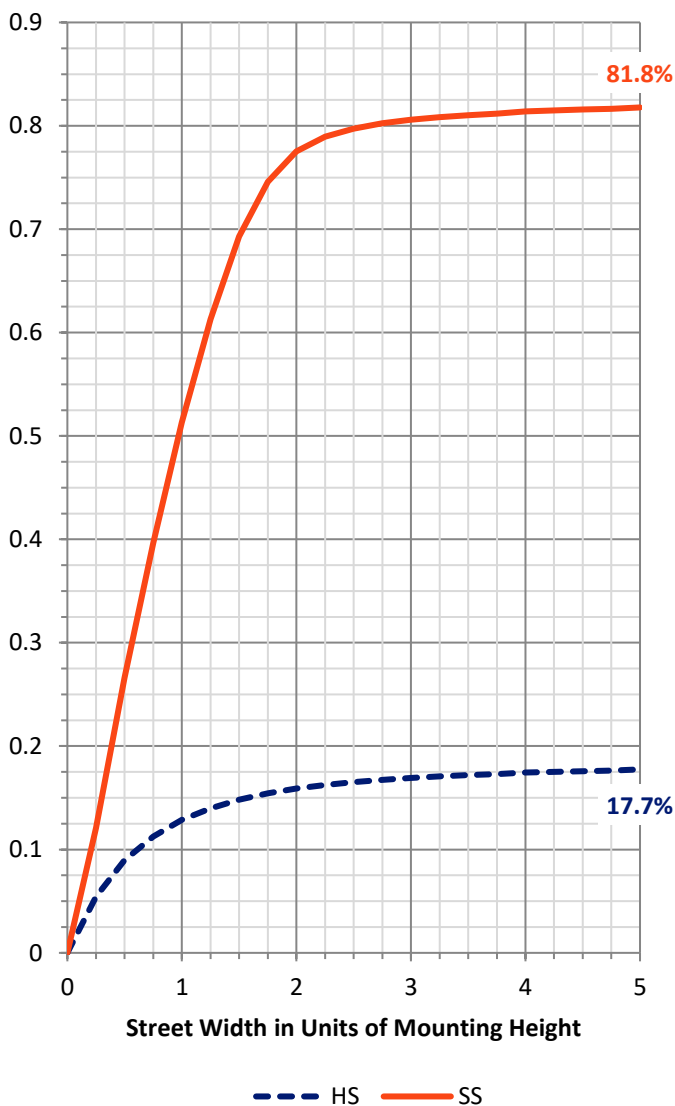
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1740.6	0.0	1740.6
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	7937.6	0.0	7937.6
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	9678.2	0.0	9678.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	1.2
10°-20°	387.5	4.0
20°-30°	677.2	7.0
30°-40°	1007.2	10.4
40°-50°	1483.9	15.3
50°-60°	2077.6	21.5
60°-70°	2323.7	24.0
70°-80°	1419.4	14.7
80°-90°	182.6	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°	9678.2	100.0
0°-180°	9678.2	100.0

**Coefficient of Utilization**

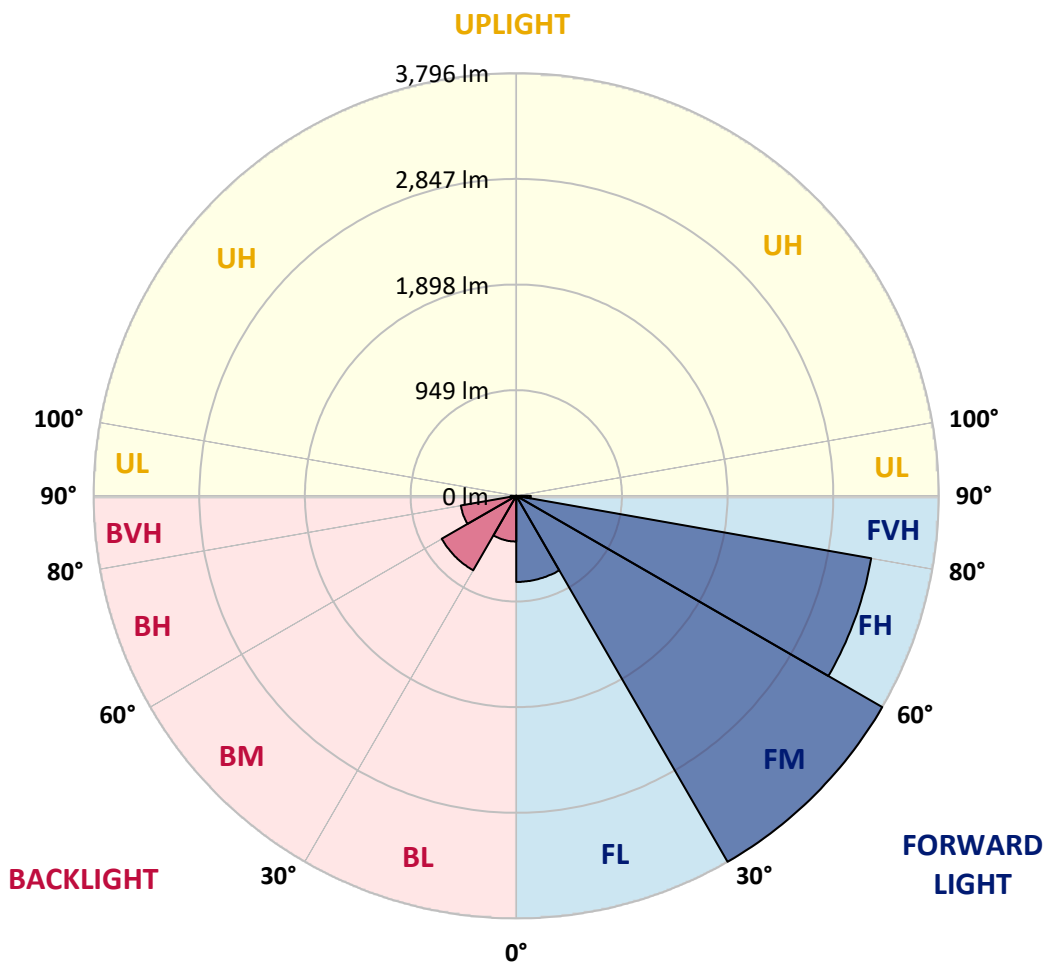


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.3	8.0			
FM (30°-60°)	3795.6	39.2			
FH (60°-80°)	3237.3	33.4			G2/5000
FVH (80°-90°)	131.4	1.4			G2/225
BL (0°-30°)	410.6	4.2	B1/500		
BM (30°-60°)	773.1	8.0	B1/1000		
BH (60°-80°)	505.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	51.2	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-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1318.7	1312.3	1312.8	1303.8	1292.1	1279.3	1261.2	1245.3	1232.5	1225.1	1203.2
5°	1461.2	1454.8	1446.9	1427.2	1418.7	1387.3	1347.4	1311.2	1283.5	1268.1	1224.5
7.5°	1576.6	1575.0	1572.9	1561.7	1540.0	1496.3	1462.3	1399.5	1358.6	1329.3	1254.9
10°	1647.9	1650.6	1652.2	1654.3	1645.2	1622.4	1575.6	1496.3	1444.2	1407.0	1294.2
12.5°	1684.1	1686.8	1695.8	1715.5	1727.8	1725.1	1686.8	1609.1	1537.3	1488.3	1336.2
15°	1706.5	1710.7	1726.7	1752.7	1793.7	1819.8	1801.2	1729.3	1650.6	1592.6	1386.2
17.5°	1730.9	1735.7	1753.2	1790.5	1844.2	1900.6	1920.8	1859.1	1773.5	1704.3	1442.1
20°	1744.7	1751.1	1776.1	1825.1	1887.9	1969.8	2036.8	2004.4	1910.8	1834.1	1506.4
22.5°	1767.1	1772.4	1793.7	1845.8	1920.8	2023.4	2152.7	2145.8	2063.4	1964.4	1577.2
25°	1827.7	1836.2	1846.9	1878.3	1950.6	2078.3	2249.0	2296.9	2211.2	2100.6	1642.1
27.5°	1942.1	1949.0	1948.5	1952.7	1993.7	2125.6	2332.5	2446.4	2358.1	2238.4	1704.9
30°	2072.4	2075.1	2077.2	2067.6	2076.7	2174.0	2409.1	2594.2	2505.9	2379.9	1759.6
32.5°	2230.9	2236.2	2218.1	2193.7	2186.3	2245.8	2472.5	2742.2	2680.9	2523.5	1813.9
35°	2418.2	2432.0	2395.3	2352.2	2321.9	2349.0	2557.6	2893.2	2860.2	2707.0	1885.7
37.5°	2632.0	2649.1	2615.0	2530.4	2487.3	2494.7	2668.7	3079.9	3086.8	2916.1	1992.7
40°	2807.0	2829.4	2830.5	2710.7	2645.3	2653.9	2809.7	3281.0	3360.2	3174.6	2118.7
42.5°	2922.5	2944.3	2967.1	2896.9	2828.3	2876.7	2974.0	3499.1	3667.7	3488.5	2294.8
45°	3049.0	3068.7	3081.5	3049.6	3011.3	3136.8	3172.5	3731.0	3995.3	3839.0	2487.3
47.5°	3195.9	3217.7	3229.9	3199.6	3185.2	3365.0	3386.3	3947.5	4345.4	4179.4	2700.1
50°	3391.6	3408.1	3401.8	3382.6	3379.4	3540.0	3591.7	4150.2	4634.2	4545.9	2920.9
52.5°	3635.2	3654.9	3661.9	3634.7	3622.4	3665.0	3757.1	4334.8	4897.0	4860.8	3156.5
55°	3782.6	3813.9	3919.3	3961.9	3991.1	3826.7	3935.3	4538.5	5132.6	5192.8	3409.7
57.5°	3593.8	3634.2	3869.9	4082.6	4357.6	4231.0	4187.9	4751.2	5368.3	5514.6	3712.9
60°	3133.1	3142.1	3445.9	3837.9	4391.1	4750.7	4715.1	5089.6	5623.6	5839.1	4112.4
62.5°	2173.5	2192.7	2551.7	3177.2	3977.3	4937.9	5611.9	5673.6	5989.6	6324.7	4698.1
65°	1120.8	1095.8	1422.9	1996.9	2998.5	4493.3	6338.5	6747.6	6783.3	7084.3	5522.5
67.5°	690.0	701.1	854.3	1166.0	1772.9	3265.5	6262.5	8059.9	7872.1	8016.8	6288.0
70°	518.1	531.9	637.2	797.9	1080.9	1867.1	5036.3	8378.0	8640.3	8603.0	6521.0
71°	450.5	464.9	574.5	726.1	908.0	1441.1	4243.3	8045.0	8666.8	8660.4	6433.2
72.5°	384.1	393.1	478.8	614.9	765.5	1010.1	3187.9	7215.2	8297.1	8509.4	6120.0
75°	301.6	308.6	346.8	469.2	602.7	620.2	1710.7	5409.2	6814.6	7218.9	5094.9
77.5°	245.7	250.5	270.2	348.4	464.9	439.3	897.3	3520.8	4269.3	4676.2	3001.2
80°	195.2	200.6	212.3	236.2	348.4	313.3	428.2	1784.1	2062.3	2058.1	1197.9
82.5°	151.6	153.2	167.0	173.4	238.3	222.4	231.9	755.4	836.7	864.4	432.4
85°	95.8	100.5	147.8	133.0	142.5	130.4	114.4	300.0	369.7	364.4	172.9
87.5°	29.3	30.9	50.0	56.3	63.3	56.9	42.0	88.3	108.0	117.1	43.1
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°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1194.7	1188.8	1168.1	1151.1	1135.2	1117.6	1102.7	1098.4	1094.7	1093.1	1092.6
5°	1205.9	1188.3	1147.4	1113.9	1087.2	1062.8	1047.4	1040.5	1033.6	1033.6	1035.7
7.5°	1221.9	1189.9	1126.6	1076.6	1043.1	1020.2	1009.1	1008.0	1009.6	1011.2	1011.7
10°	1239.4	1188.8	1096.3	1034.1	1004.3	993.6	994.1	1003.2	1011.7	1018.1	1019.2
12.5°	1256.5	1182.5	1060.7	994.1	975.1	977.2	992.0	1012.3	1028.8	1037.8	1038.3
15°	1275.5	1172.4	1017.6	956.4	950.1	966.6	994.1	1025.0	1050.1	1065.0	1066.6
17.5°	1291.5	1155.4	972.4	919.7	927.7	958.0	996.3	1036.2	1066.6	1085.1	1088.3
20°	1309.6	1133.6	925.6	884.6	907.5	948.5	992.0	1035.2	1066.6	1084.6	1088.8
22.5°	1324.0	1102.7	880.9	855.9	889.4	936.7	977.7	1012.3	1037.8	1047.4	1053.8
25°	1329.9	1063.9	838.9	832.5	875.1	917.6	945.3	965.0	972.9	971.9	974.5
27.5°	1326.7	1019.2	802.7	813.8	857.0	887.8	901.6	900.0	885.7	872.4	878.8
30°	1313.4	966.0	772.4	794.7	833.5	850.6	848.4	827.7	800.5	775.6	777.2
32.5°	1289.4	908.5	744.2	772.9	800.5	808.0	793.7	766.5	727.7	695.3	690.5
35°	1269.2	853.8	719.1	747.9	767.6	763.9	750.0	714.9	679.8	651.1	646.3
37.5°	1266.0	806.9	695.3	719.7	730.9	725.5	708.5	678.8	666.0	644.2	641.5
40°	1283.0	774.0	670.8	690.0	695.3	691.0	672.4	655.3	667.1	661.7	661.7
42.5°	1329.3	756.4	649.0	660.1	664.4	667.6	654.3	639.9	654.3	629.8	621.8
45°	1402.7	757.0	629.3	630.8	643.6	654.8	645.8	624.5	617.0	568.1	558.5
47.5°	1510.7	775.1	613.3	603.2	626.1	644.7	631.9	601.1	568.1	535.6	529.8
50°	1636.8	807.4	599.0	574.5	602.7	631.9	622.3	586.2	552.1	532.4	528.7
52.5°	1776.7	848.4	581.4	542.6	574.0	626.1	624.5	584.1	537.2	523.9	520.7
55°	1949.5	888.9	559.6	505.4	548.4	621.3	618.6	566.5	534.0	524.4	523.4
57.5°	2150.6	947.4	528.2	467.6	519.1	601.7	595.8	555.9	523.4	516.5	516.0
60°	2474.6	1038.3	483.5	433.0	489.4	567.0	574.5	537.8	506.4	504.8	504.3
62.5°	2900.6	1166.0	437.2	397.4	454.8	522.3	543.6	513.3	488.3	496.3	497.4
65°	3489.0	1273.4	389.4	367.0	416.5	479.3	514.4	490.5	468.1	483.5	483.5
67.5°	3872.5	1275.5	345.7	335.6	377.7	443.1	483.5	463.3	442.0	468.1	469.2
70°	3792.7	1117.6	309.6	302.7	339.9	404.3	449.5	433.5	409.1	432.4	423.9
71°	3664.0	1029.8	295.2	289.9	325.0	385.7	433.5	420.2	395.8	411.2	406.4
72.5°	3458.6	894.2	271.8	272.9	302.7	362.2	411.2	397.4	372.9	381.4	379.8
75°	2923.5	780.9	232.5	237.2	260.1	322.4	366.5	355.8	330.8	330.8	329.3
77.5°	1827.7	545.7	193.1	195.8	220.8	276.1	314.9	305.9	281.9	273.9	271.8
80°	682.0	281.9	151.0	154.2	169.7	217.6	260.6	252.1	227.7	218.7	210.1
82.5°	258.0	141.5	111.2	108.5	125.0	165.9	204.3	194.2	175.0	153.2	146.8
85°	97.3	70.2	68.1	65.9	73.4	98.4	126.6	124.5	104.3	88.8	87.2
87.5°	25.6	22.9	26.6	19.7	20.8	18.6	19.2	8.0	3.7	1.6	1.1
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)