

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: P652607

Luminaire Tested: **GALN-SA9B-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43303.9 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

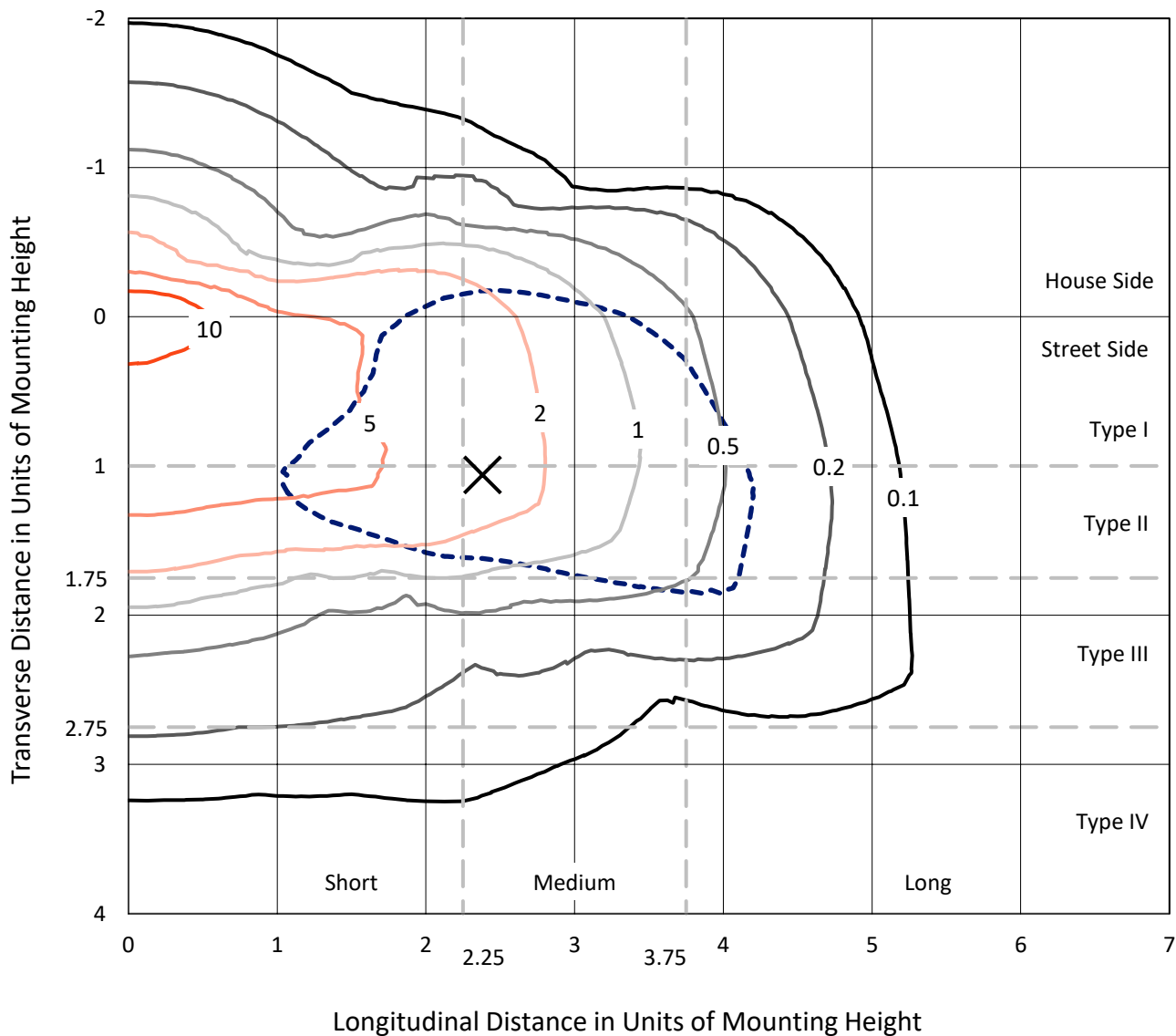
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

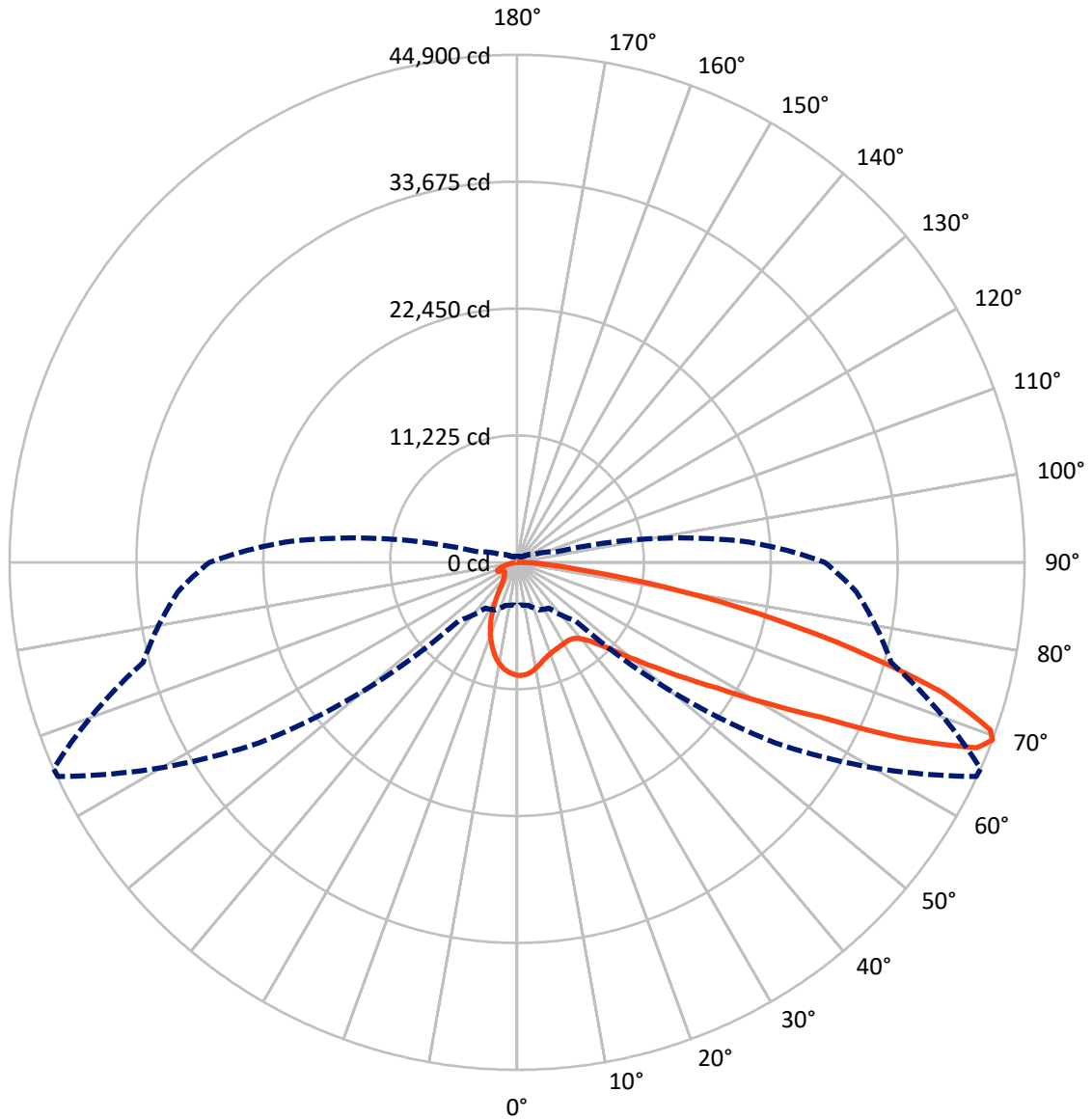
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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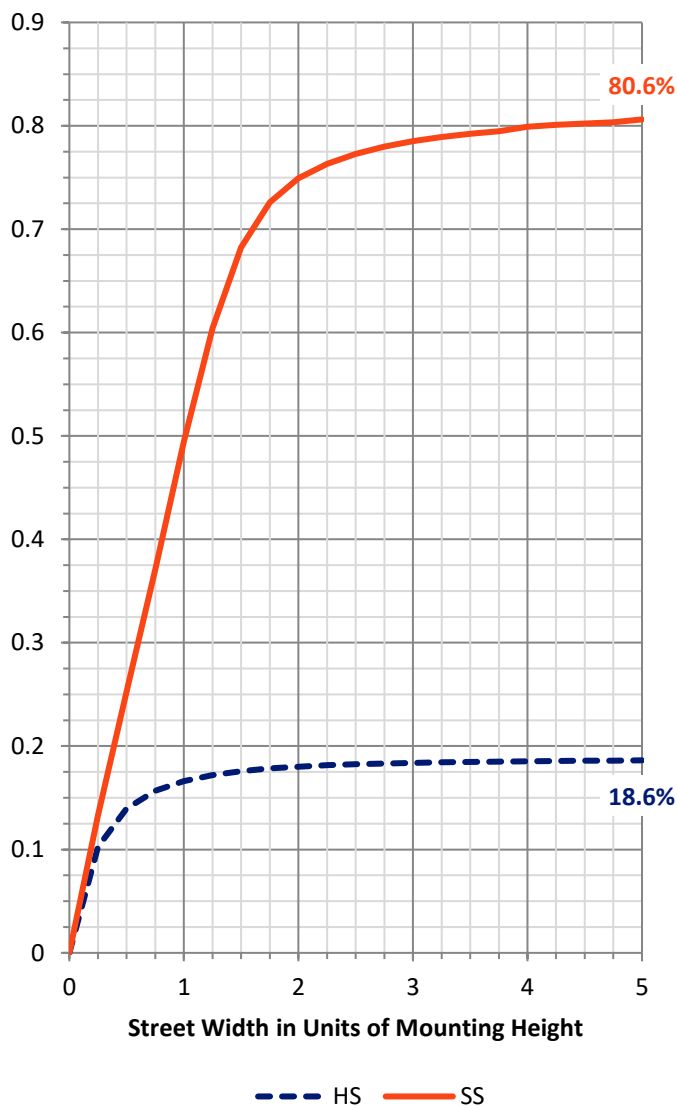
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8143.8	0.0	8143.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	35160.1	0.0	35160.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	43303.9	0.0	43303.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.4	2.0
10°-20°	2059.8	4.8
20°-30°	2804.1	6.5
30°-40°	3768.1	8.7
40°-50°	5626.4	13.0
50°-60°	8949.7	20.7
60°-70°	11007.7	25.4
70°-80°	7162.1	16.5
80°-90°	1057.6	2.4
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°	43303.9	100.0
0°-180°	43303.9	100.0

Coefficient of Utilization

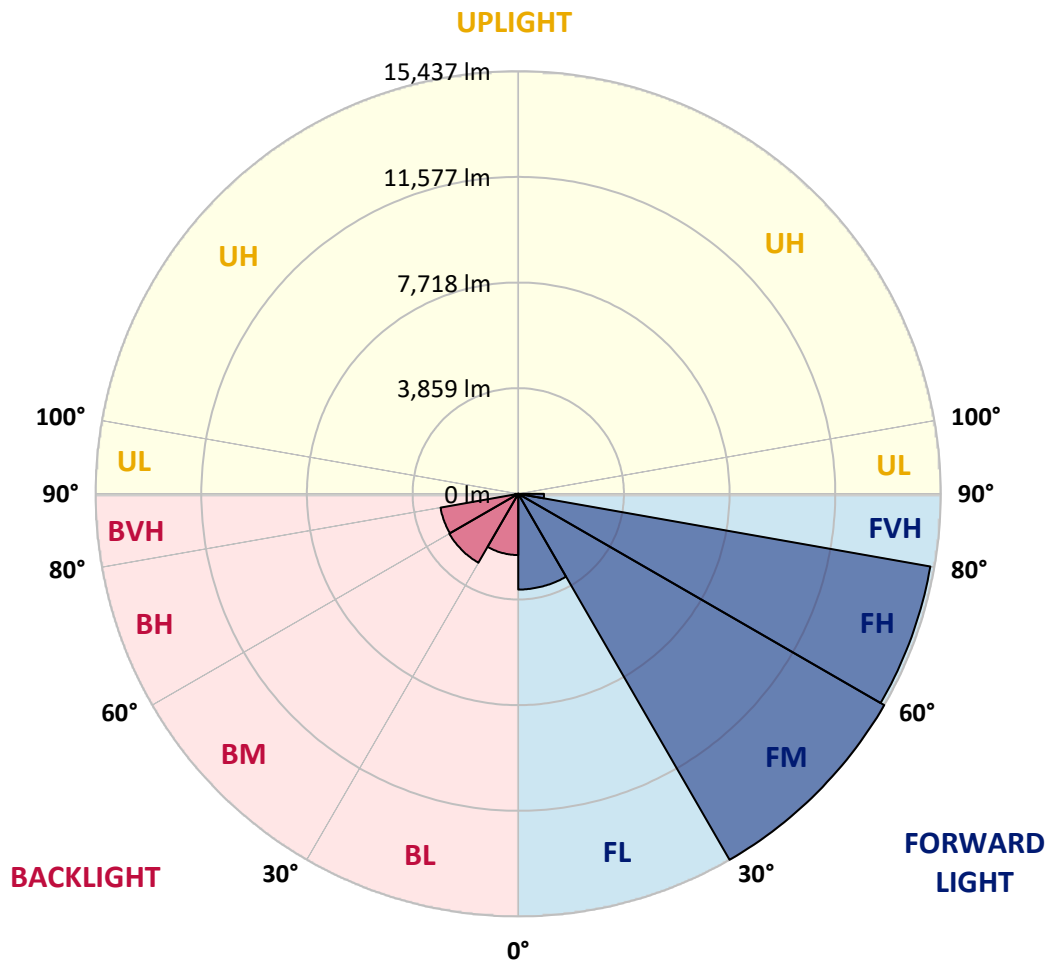


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3496.7	8.1			
FM (30°-60°)	15436.5	35.6			
FH (60°-80°)	15286.5	35.3			G5
FVH (80°-90°)	940.3	2.2			G5
BL (0°-30°)	2235.5	5.2	B3/2500		
BM (30°-60°)	2907.7	6.7	B3/5000		
BH (60°-80°)	2883.3	6.7	B4/5000		G4/5000
BVH (80°-90°)	117.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1
2.5°	9650.0	9688.3	9731.5	9779.5	9870.6	9920.9	9956.9	9997.7	10002.5	10024.0	10007.3
5°	8937.7	8983.3	9048.1	9139.1	9275.9	9489.3	9709.9	9889.7	9911.4	10012.1	10040.9
7.5°	8343.0	8369.4	8422.1	8568.4	8762.6	9000.0	9321.4	9686.0	9738.7	9978.5	10062.4
10°	7858.6	7885.0	7947.3	8098.4	8290.2	8587.6	8940.1	9419.7	9462.9	9875.4	10067.2
12.5°	7496.4	7520.5	7587.6	7736.3	7956.9	8235.1	8623.5	9132.0	9194.3	9738.7	10021.7
15°	7220.7	7266.2	7321.4	7443.7	7676.3	7944.9	8321.4	8868.2	8918.6	9594.8	9990.5
17.5°	7103.2	7124.8	7163.1	7275.8	7446.1	7709.9	8088.8	8662.0	8721.9	9494.0	9983.3
20°	7108.0	7129.6	7136.7	7199.1	7321.4	7549.2	7923.3	8498.9	8570.8	9405.3	9995.3
22.5°	7271.0	7273.5	7247.1	7225.5	7273.5	7462.9	7805.8	8376.5	8460.5	9367.0	10004.9
25°	7522.8	7566.0	7527.6	7427.0	7338.2	7429.3	7760.2	8309.4	8388.6	9311.8	9992.8
27.5°	7930.5	7937.7	7906.6	7769.8	7539.6	7472.5	7741.1	8259.0	8326.2	9271.1	9933.0
30°	8477.3	8455.7	8426.9	8275.9	7913.7	7638.0	7781.9	8213.5	8283.0	9211.1	9861.0
32.5°	9031.2	9098.4	9072.0	8894.6	8424.5	7959.3	7913.7	8208.7	8266.3	9165.6	9781.8
35°	9618.8	9650.0	9774.7	9683.5	9201.5	8479.7	8160.7	8283.0	8328.6	9167.9	9726.7
37.5°	10079.2	10163.1	10455.7	10534.9	10081.7	9167.9	8561.2	8494.1	8513.3	9285.5	9748.3
40°	10635.5	10779.4	11155.9	11479.7	11182.4	10062.4	9242.3	8885.0	8909.0	9568.4	9889.7
42.5°	11340.6	11441.3	11947.3	12386.2	12338.2	11244.7	10067.2	9525.3	9537.3	10131.9	10285.4
45°	12165.6	12309.5	12877.8	13537.2	13650.0	12582.9	11259.1	10494.1	10486.9	11007.3	11024.1
47.5°	13220.8	13309.5	13873.1	14592.4	15048.1	14263.9	12705.2	11885.0	11808.2	12283.1	12146.4
50°	14192.0	14331.1	14758.0	15544.5	16678.8	16232.7	14606.8	13688.4	13508.5	13952.2	13721.9
52.5°	14599.7	14745.9	15105.6	16081.7	18076.9	18779.5	17021.8	15839.5	15539.7	15880.2	15796.3
55°	13892.2	14081.6	14417.3	15604.4	18690.8	21717.2	20278.4	18326.3	18108.1	17961.7	17985.8
57.5°	11990.5	12170.4	12623.6	13932.9	17956.9	23849.1	24928.2	21523.0	21055.4	20381.5	20496.6
60°	9127.2	9239.9	9474.9	10925.8	15781.9	24403.0	30208.9	25563.8	25266.4	22791.5	22873.1
62.5°	6482.1	6609.2	6772.2	7496.4	11554.1	22841.9	34343.2	31206.5	30144.1	25287.9	25208.8
65°	5263.8	5177.5	5374.2	5712.2	6779.5	17702.8	35273.6	39038.7	37575.9	28575.8	27477.4
67.5°	4328.5	4237.5	4431.6	5033.6	5155.9	10275.8	31921.1	44122.6	43830.1	32151.3	29782.0
69°	3832.2	3784.2	3954.5	4640.3	4949.7	7297.4	27808.3	44830.1	44899.6	34259.2	30136.9
70°	3453.2	3472.5	3637.9	4441.3	4856.2	6016.9	23767.6	43854.1	44444.0	35312.1	29753.2
72.5°	2542.0	2582.8	2813.0	3678.7	4767.5	5105.5	14144.0	38304.9	39348.0	35374.4	27218.5
75°	1777.0	1757.8	1961.6	2769.8	4503.6	5060.0	8307.1	29623.7	30806.0	30575.8	22870.7
77.5°	1163.1	1194.2	1357.3	1956.8	3789.0	5021.6	5414.9	21016.9	21784.3	20448.6	13527.7
80°	820.1	817.8	908.9	1335.8	2810.5	4825.0	4434.1	13247.1	13052.8	8036.0	4012.0
82.5°	470.0	503.6	609.1	940.1	1880.1	4247.0	4079.2	6335.8	5784.2	2290.2	1354.9
85°	261.4	273.4	362.1	568.3	1098.3	3199.1	3561.2	2882.5	2719.5	956.8	582.7
87.5°	83.9	91.2	151.0	287.8	498.8	1510.8	2016.8	1331.0	1227.9	345.3	235.0
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°	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1	10000.1
2.5°	10014.5	10043.2	9966.5	9892.2	9825.0	9731.5	9647.5	9578.0	9530.0	9522.9	9498.8
5°	10048.0	10050.5	9904.1	9707.5	9515.7	9304.7	9086.4	8930.5	8784.2	8702.7	8662.0
7.5°	10072.0	10050.5	9786.6	9467.7	9098.4	8714.7	8331.0	8024.1	7786.7	7693.1	7729.0
10°	10062.4	9995.3	9609.2	9098.4	8561.2	7988.1	7436.5	7004.9	6609.2	6405.3	6410.1
12.5°	10009.7	9899.3	9345.4	8683.5	7894.6	7127.1	6283.0	5700.3	5242.3	4971.2	4887.3
15°	9964.1	9772.3	9036.0	8119.9	7139.2	6043.2	5014.5	4295.0	3911.3	3697.9	3695.4
17.5°	9916.1	9650.0	8697.9	7522.8	6271.0	4861.0	3781.8	3232.6	3052.7	3074.4	3038.4
20°	9865.8	9506.1	8345.4	6858.6	5213.4	3625.9	2832.2	2609.1	2659.5	2757.8	2772.2
22.5°	9808.2	9352.6	7966.5	6127.2	4100.7	2729.0	2297.4	2263.8	2393.3	2546.8	2568.3
25°	9719.5	9160.8	7489.3	5362.1	3163.1	2199.0	2012.0	2036.0	2163.1	2292.6	2306.9
27.5°	9594.8	8923.3	7007.2	4407.7	2376.5	1887.3	1839.4	1870.6	1932.9	2012.0	2031.2
30°	9426.9	8654.7	6453.3	3582.7	1904.1	1731.5	1712.3	1729.0	1765.0	1798.6	1808.2
32.5°	9259.1	8395.8	5894.6	2743.4	1697.9	1628.3	1609.1	1609.1	1609.1	1614.0	1616.3
35°	9103.2	8151.1	5295.0	2136.7	1589.9	1546.8	1520.4	1491.6	1486.8	1470.1	1470.1
37.5°	9016.9	7928.1	4657.1	1789.0	1510.8	1479.7	1443.7	1395.7	1369.3	1371.8	1366.9
40°	9033.7	7781.9	4076.7	1592.3	1446.0	1412.5	1357.3	1302.2	1285.4	1285.4	1280.6
42.5°	9223.1	7733.8	3520.4	1489.2	1383.7	1345.3	1275.8	1225.4	1215.8	1213.5	1218.3
45°	9659.6	7851.4	3021.6	1422.0	1331.0	1273.4	1203.8	1158.3	1148.7	1148.7	1146.3
47.5°	10510.9	8232.7	2664.3	1378.9	1292.6	1218.3	1146.3	1100.7	1084.0	1079.2	1079.2
50°	11834.6	9060.0	2398.1	1340.6	1244.6	1167.9	1093.6	1040.7	1014.4	1012.0	1009.6
52.5°	13674.0	10350.2	2295.0	1311.8	1191.9	1115.1	1033.6	983.2	949.7	942.4	937.6
55°	15825.1	12151.2	2436.5	1290.2	1136.7	1055.2	971.3	918.5	887.3	872.9	870.5
57.5°	18316.7	14314.2	2973.6	1261.4	1086.3	990.4	908.9	856.1	822.6	805.8	801.0
60°	20554.1	16537.3	3911.3	1244.6	1043.2	920.9	837.0	788.9	757.8	741.0	738.7
62.5°	23012.2	18657.2	5031.2	1290.2	1024.0	853.7	769.8	726.6	700.2	683.5	683.5
65°	25638.1	20779.5	5772.2	1443.7	1052.8	801.0	697.9	661.9	637.9	625.9	623.5
67.5°	27407.9	21513.4	4755.4	1601.9	1124.7	743.4	628.3	599.5	585.2	573.1	573.1
69°	27216.0	20585.3	3508.4	1642.7	1146.3	714.6	590.0	568.3	549.2	544.4	539.6
70°	26609.3	19527.8	2940.1	1616.3	1129.5	688.3	566.0	539.6	522.8	518.0	515.6
72.5°	23700.5	16935.4	2189.5	1405.3	961.6	597.1	501.2	477.2	462.8	455.7	455.7
75°	19690.8	13841.9	1709.8	1117.5	753.0	503.6	429.2	410.1	398.0	393.3	390.9
77.5°	11036.0	7729.0	1227.9	875.3	570.8	407.7	359.7	343.0	330.9	326.1	326.1
80°	3074.4	2208.6	721.8	577.9	388.5	309.3	285.4	273.4	256.6	244.6	251.8
82.5°	1158.3	956.8	412.5	347.8	247.0	206.2	199.1	189.5	182.2	165.5	165.5
85°	563.6	465.2	263.8	184.7	136.7	107.9	103.1	98.3	93.5	81.6	83.9
87.5°	194.3	206.2	115.1	67.1	40.8	26.4	21.6	12.0	12.0	12.0	12.0
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)