

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: P652556

Luminaire Tested: **GALN-SA8B-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38300.8 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

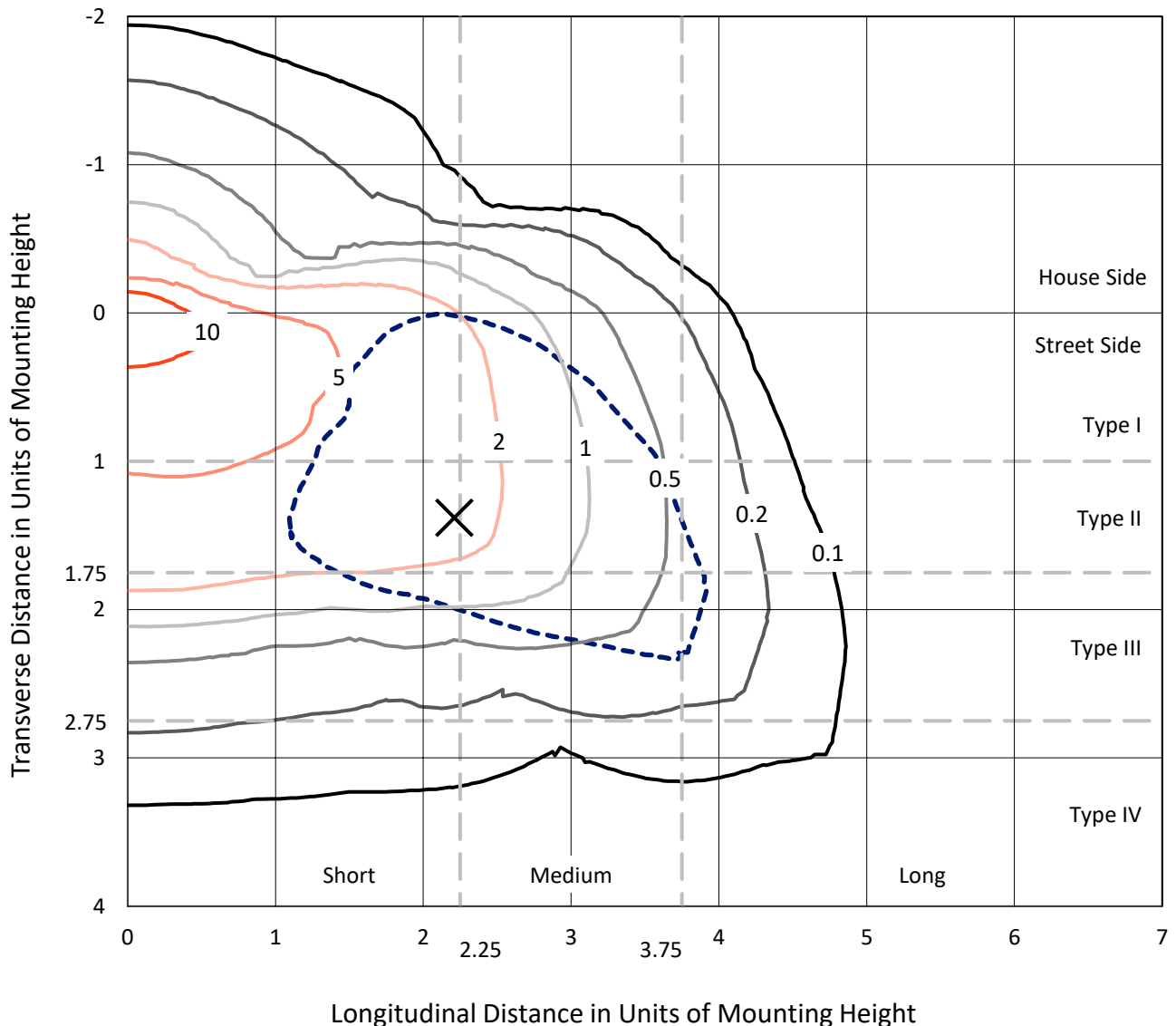
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

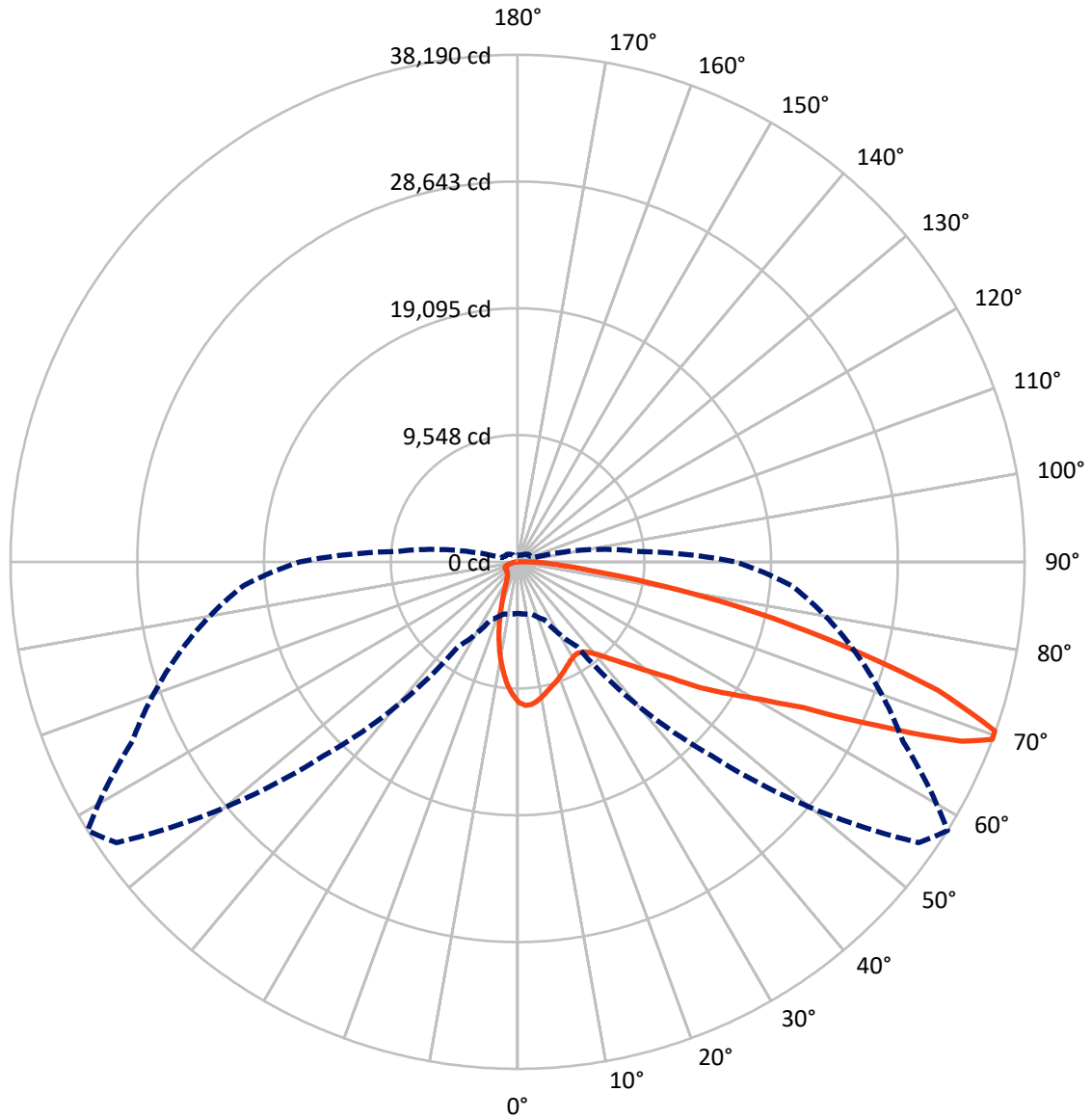
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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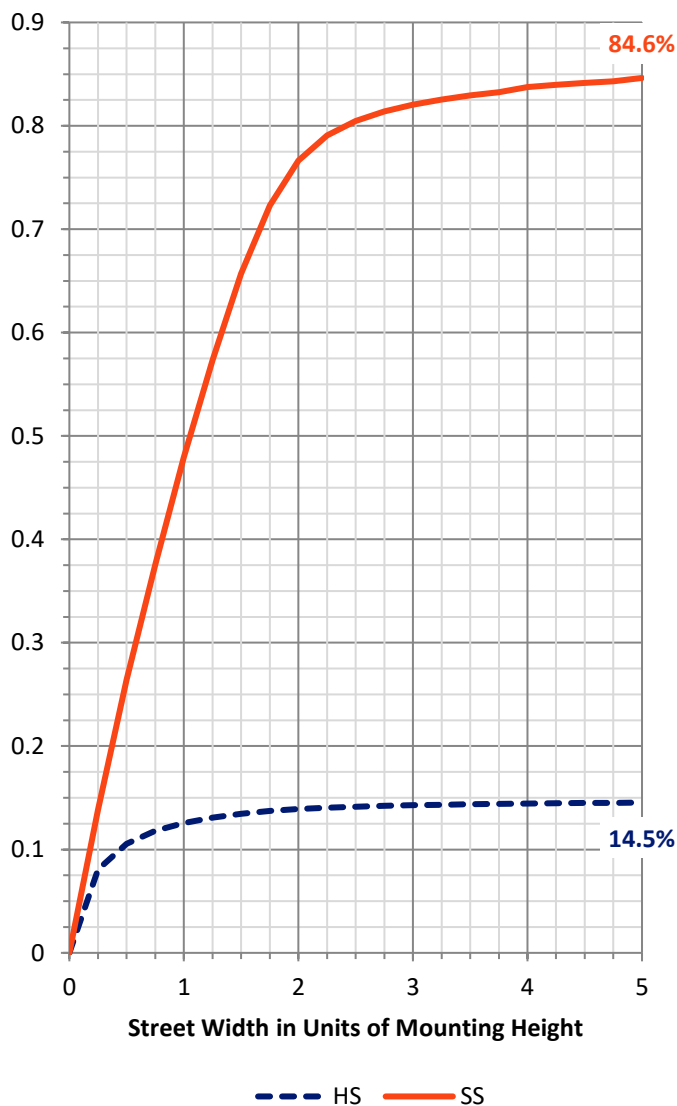
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5613.0	0.0	5613.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32687.8	0.0	32687.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	38300.8	0.0	38300.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.8	2.3
10°-20°	1973.7	5.2
20°-30°	2550.1	6.7
30°-40°	3312.0	8.6
40°-50°	4815.2	12.6
50°-60°	7683.5	20.1
60°-70°	10264.2	26.8
70°-80°	5916.9	15.4
80°-90°	886.2	2.3
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°	38300.8	100.0
0°-180°	38300.8	100.0

Coefficient of Utilization



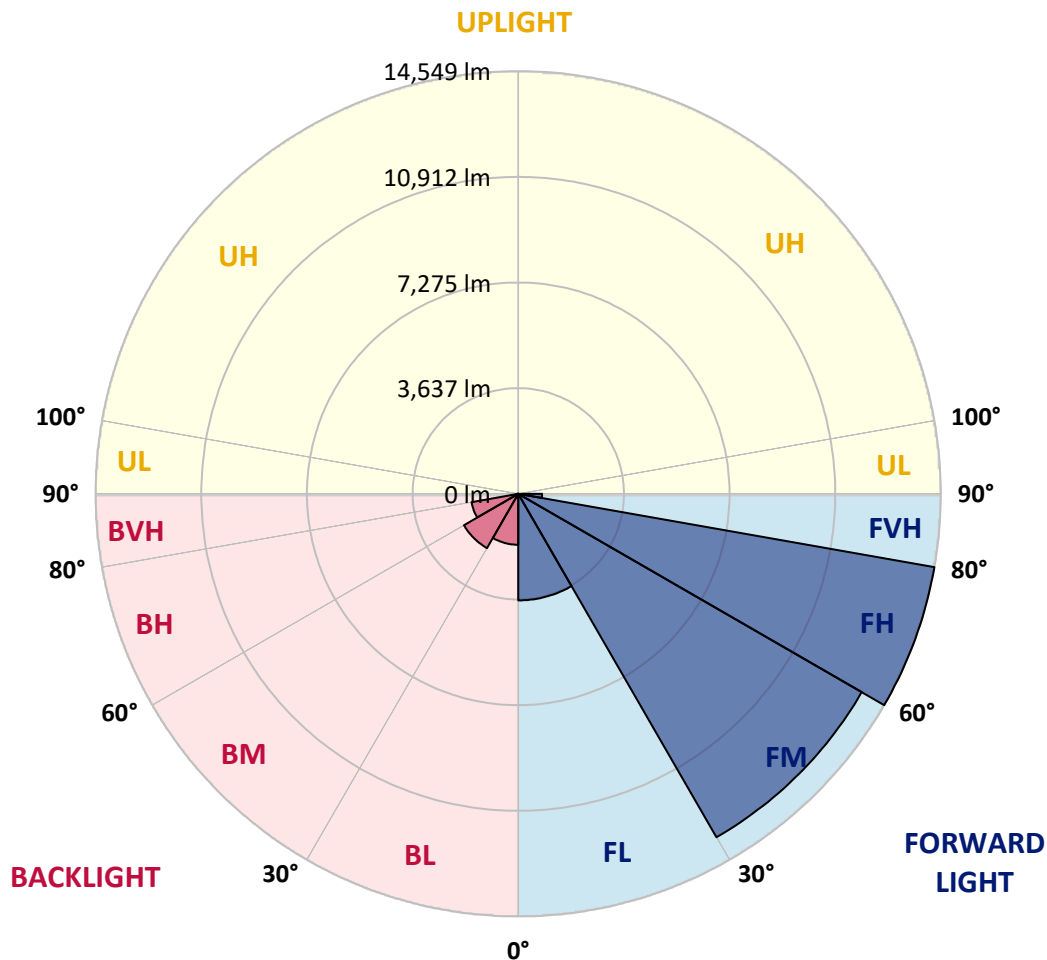
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3668.2	9.6			
FM (30°-60°)	13652.3	35.6			
FH (60°-80°)	14549.0	38.0			G5
FVH (80°-90°)	818.3	2.1			G5
BL (0°-30°)	1754.4	4.6	B3/2500		
BM (30°-60°)	2158.6	5.6	B2/2500		
BH (60°-80°)	1632.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	67.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1
2.5°	10977.2	11007.0	10998.5	10987.8	10970.8	10923.7	10846.8	10834.0	10784.9	10680.2	10549.9
5°	10808.4	10834.0	10836.1	10851.1	10872.4	10864.0	10808.4	10802.0	10729.4	10588.4	10370.5
7.5°	10229.5	10263.7	10338.5	10421.8	10496.5	10567.0	10584.1	10594.7	10549.9	10387.6	10097.0
10°	9578.1	9612.2	9646.4	9770.2	9954.0	10129.1	10274.4	10293.6	10304.3	10154.7	9800.2
12.5°	8856.1	8926.5	8999.1	9182.9	9428.5	9704.0	9960.4	10001.0	10073.6	9960.4	9543.8
15°	8243.0	8315.6	8420.3	8584.8	8881.7	9279.0	9640.0	9706.1	9849.3	9791.6	9304.6
17.5°	7817.9	7843.6	7916.2	8104.1	8424.5	8843.2	9325.9	9458.4	9687.0	9672.0	9099.5
20°	7482.5	7514.6	7559.5	7674.8	8008.0	8450.2	9033.3	9204.2	9514.0	9565.2	8896.6
22.5°	7341.6	7365.1	7358.7	7420.6	7647.0	8091.3	8736.4	8939.3	9360.2	9492.6	8708.6
25°	7350.2	7371.5	7339.5	7324.5	7459.1	7775.2	8426.7	8685.2	9236.3	9443.4	8537.7
27.5°	7493.2	7508.2	7448.4	7388.6	7399.3	7578.7	8170.4	8456.6	9131.6	9464.8	8394.7
30°	7685.5	7713.2	7674.8	7602.2	7523.2	7531.7	8005.9	8287.9	9082.5	9539.5	8326.3
32.5°	7933.2	7958.9	7941.8	7884.1	7781.6	7668.4	7965.3	8225.9	9086.8	9691.3	8311.4
35°	8193.9	8245.2	8272.9	8268.6	8185.3	7988.8	8125.5	8341.3	9189.3	9945.4	8398.9
37.5°	8488.6	8531.4	8650.9	8727.9	8650.9	8422.4	8486.5	8636.1	9415.7	10312.8	8591.2
40°	8774.9	8839.0	9014.1	9253.4	9223.4	9022.7	9037.6	9135.9	9815.1	10859.7	8967.1
42.5°	9073.9	9150.8	9456.3	9810.9	9881.3	9725.4	9766.0	9853.6	10383.3	11617.9	9612.2
45°	9458.4	9550.2	9926.2	10368.4	10646.1	10549.9	10665.3	10708.0	11143.8	12604.8	10462.4
47.5°	9954.0	10060.8	10524.3	11075.4	11468.5	11556.0	11756.8	11731.2	12085.8	13773.2	11564.6
50°	10789.2	10849.0	11286.9	11848.7	12389.0	12784.2	13002.1	13042.7	13254.2	14909.6	12797.1
52.5°	11782.4	11835.8	12151.9	12643.3	13320.3	14157.7	14696.0	14563.6	14614.8	16293.8	14238.9
55°	12899.6	12989.3	13190.1	13516.9	14394.8	15627.3	16708.1	16740.2	16172.0	17618.1	15620.9
57.5°	13764.6	13916.4	14260.2	14725.9	15838.8	17261.4	18713.9	18735.3	18009.0	19032.2	17146.1
60°	13328.9	13508.3	14294.4	15428.6	17733.4	20113.0	21110.5	20988.8	19796.9	20642.8	19006.5
62.5°	11449.2	11481.2	12624.0	14396.9	18316.6	23928.0	24677.7	24162.9	22182.8	22684.8	20896.9
65°	7410.0	7619.3	8525.0	11009.2	16400.6	26044.8	30927.8	29738.0	25527.9	25002.4	22479.8
67.5°	4678.0	4624.6	5000.5	6286.4	11280.4	24180.0	36261.5	36073.5	29902.5	26465.6	22101.6
69°	3879.0	3938.9	4067.0	4818.9	7762.4	20644.9	36891.6	38190.3	32023.6	26350.3	20728.2
70°	3518.1	3545.8	3680.4	4272.1	5989.4	17291.3	35857.8	38132.7	32856.6	25867.5	19732.8
72.5°	2791.8	2789.7	3020.4	3554.4	4477.1	9870.6	29443.2	33106.6	31925.4	23620.4	16304.5
75°	2121.1	2155.2	2409.5	3007.6	4124.7	5393.5	20546.6	25495.8	25497.9	18656.2	10174.0
77.5°	1529.4	1550.8	1847.7	2524.8	3885.5	4372.4	13685.7	18286.7	17190.9	8548.4	3197.7
80°	1001.8	1014.6	1241.1	1999.3	3503.1	4124.7	8114.8	11192.9	8108.4	2268.5	1057.3
82.5°	549.0	613.0	758.3	1294.5	2811.0	3810.7	4932.1	5664.8	3041.7	1010.4	551.1
85°	275.5	292.7	427.2	756.1	1837.0	3152.8	3434.7	3249.0	1570.0	502.0	286.2
87.5°	81.2	102.5	177.3	292.7	745.5	1642.6	1911.8	1715.2	604.5	181.6	59.8
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°	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1	10584.1
2.5°	10496.5	10458.1	10287.2	10133.4	9992.4	9842.9	9716.8	9605.8	9616.5	9618.6	9505.4
5°	10257.3	10169.7	9845.0	9541.7	9285.4	8960.7	8683.0	8503.6	8413.9	8294.3	8337.0
7.5°	9932.6	9763.8	9313.1	8809.1	8337.0	7916.2	7459.1	7145.1	6944.3	6749.9	6775.5
10°	9597.2	9325.9	8670.2	8003.8	7392.9	6720.0	6136.9	5637.1	5265.3	5126.5	5034.6
12.5°	9253.4	8896.6	8063.6	7177.1	6333.4	5528.1	4701.4	4165.3	3755.1	3537.3	3565.1
15°	8939.3	8505.7	7431.3	6350.5	5254.7	4295.6	3471.1	2960.6	2674.3	2614.5	2648.7
17.5°	8648.8	8080.7	6839.6	5547.3	4267.8	3221.2	2608.1	2319.7	2204.4	2172.4	2170.2
20°	8349.8	7719.7	6175.3	4688.7	3325.8	2497.0	2140.3	2005.8	1984.4	1997.2	1999.3
22.5°	8046.5	7273.2	5491.8	3836.3	2648.7	2042.0	1871.1	1834.9	1852.0	1881.8	1886.1
25°	7766.6	6880.2	4833.9	3088.7	2114.7	1794.3	1710.9	1710.9	1749.4	1794.3	1796.4
27.5°	7535.9	6500.0	4178.1	2452.2	1770.8	1614.9	1587.1	1602.0	1655.4	1689.7	1691.8
30°	7345.9	6145.4	3558.7	1965.2	1557.2	1471.8	1465.4	1490.9	1529.4	1561.5	1563.6
32.5°	7202.7	5833.5	2979.7	1651.1	1409.8	1362.8	1360.7	1379.9	1401.3	1409.8	1418.3
35°	7147.2	5575.1	2450.1	1452.5	1311.5	1281.6	1281.6	1279.5	1288.1	1292.3	1296.6
37.5°	7192.1	5376.4	2039.9	1324.3	1238.9	1217.5	1204.7	1191.9	1187.7	1187.7	1189.8
40°	7382.2	5271.7	1734.5	1241.1	1187.7	1155.6	1132.1	1117.2	1102.2	1106.5	1110.7
42.5°	7785.9	5291.0	1527.3	1185.5	1142.8	1097.9	1063.8	1046.6	1035.9	1048.8	1046.6
45°	8428.8	5483.2	1394.8	1147.0	1097.9	1040.2	1008.2	991.1	991.1	1010.4	1016.8
47.5°	9328.1	5850.7	1324.3	1117.2	1063.8	995.4	963.4	950.5	954.8	986.8	989.0
50°	10426.0	6489.3	1311.5	1102.2	1046.6	963.4	927.0	914.3	924.9	959.1	963.4
52.5°	11637.2	7311.7	1373.4	1104.3	1031.7	944.1	897.2	877.9	888.6	916.4	924.9
55°	13072.6	8341.3	1533.6	1112.9	1010.4	933.4	875.8	833.1	845.9	865.1	867.2
57.5°	14537.9	9640.0	1815.6	1115.0	993.2	914.3	839.5	783.9	783.9	796.8	803.2
60°	16327.9	11054.0	2187.3	1117.2	995.4	886.5	790.4	728.4	719.8	726.3	728.4
62.5°	18105.1	12237.4	2249.3	1110.7	1016.8	858.7	737.0	672.9	657.9	655.7	651.5
65°	18889.0	12017.4	1843.4	1080.9	1040.2	841.6	694.2	619.5	593.8	585.3	585.3
67.5°	17611.7	10165.4	1386.3	1040.2	1025.3	824.5	653.6	574.6	544.7	527.6	527.6
69°	16411.3	9041.8	1245.4	1012.5	986.8	796.8	628.0	551.1	514.8	495.6	489.1
70°	15484.2	8268.6	1185.5	989.0	950.5	764.7	608.8	534.0	493.4	472.1	467.8
72.5°	12357.0	6487.1	1038.1	899.3	809.5	642.9	540.4	480.6	442.2	418.6	412.3
75°	7121.6	3516.0	860.8	781.8	651.5	499.8	457.1	418.6	388.8	367.4	361.0
77.5°	2191.6	1358.6	623.7	617.3	478.4	386.6	365.2	350.3	328.9	305.5	301.2
80°	922.7	692.1	422.9	416.5	318.2	269.1	262.7	260.6	252.0	232.8	226.4
82.5°	506.3	390.9	294.8	256.3	192.3	155.9	162.3	164.5	158.1	138.8	126.1
85°	247.8	213.6	143.1	115.4	87.5	55.5	53.4	64.1	59.8	42.7	47.0
87.5°	49.1	59.8	38.4	17.1	8.6	0.0	0.0	0.0	0.0	0.0	0.0
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)