

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: P651009

Luminaire Tested: **GALN-SA7C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24037.5 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

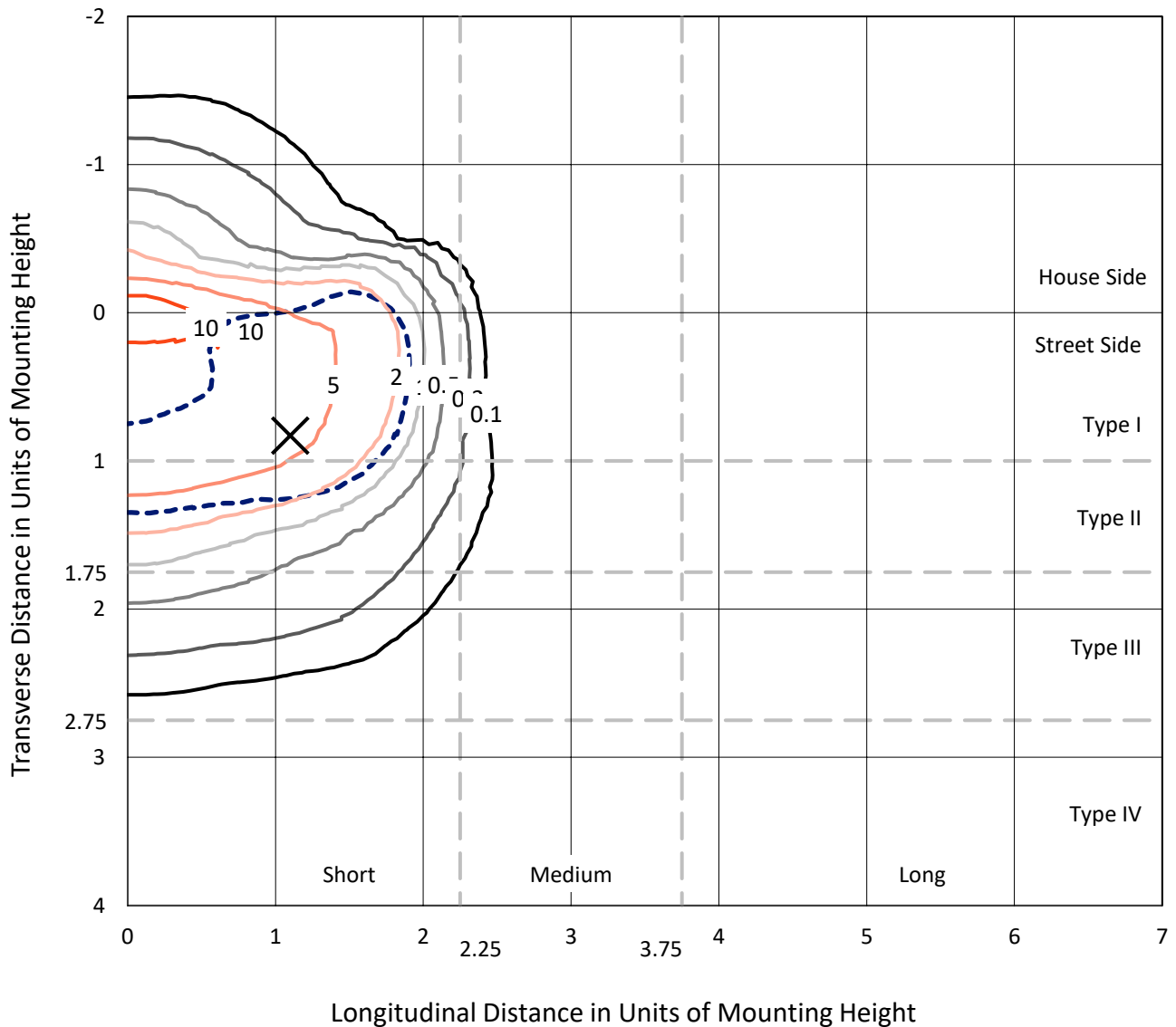
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

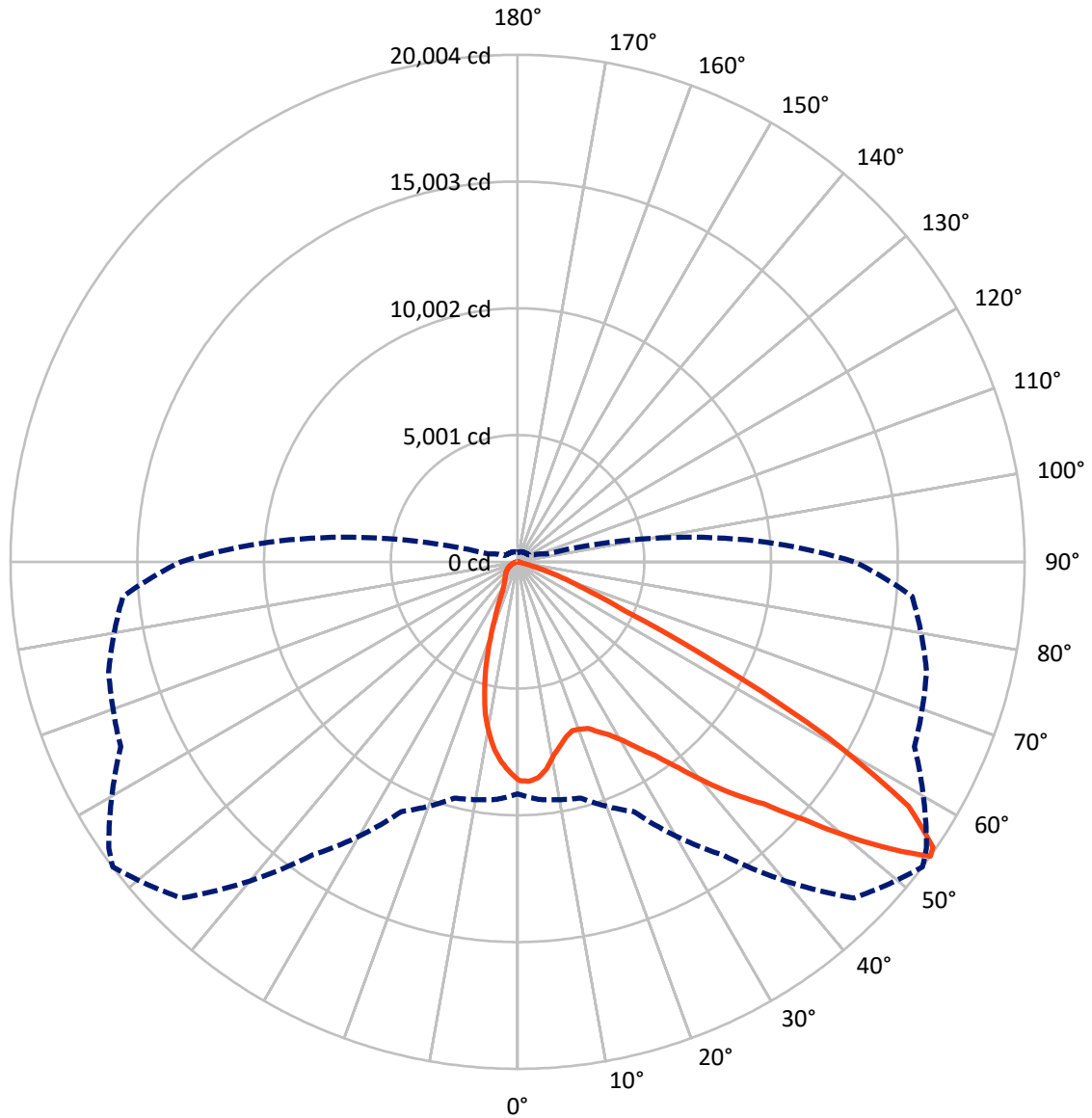
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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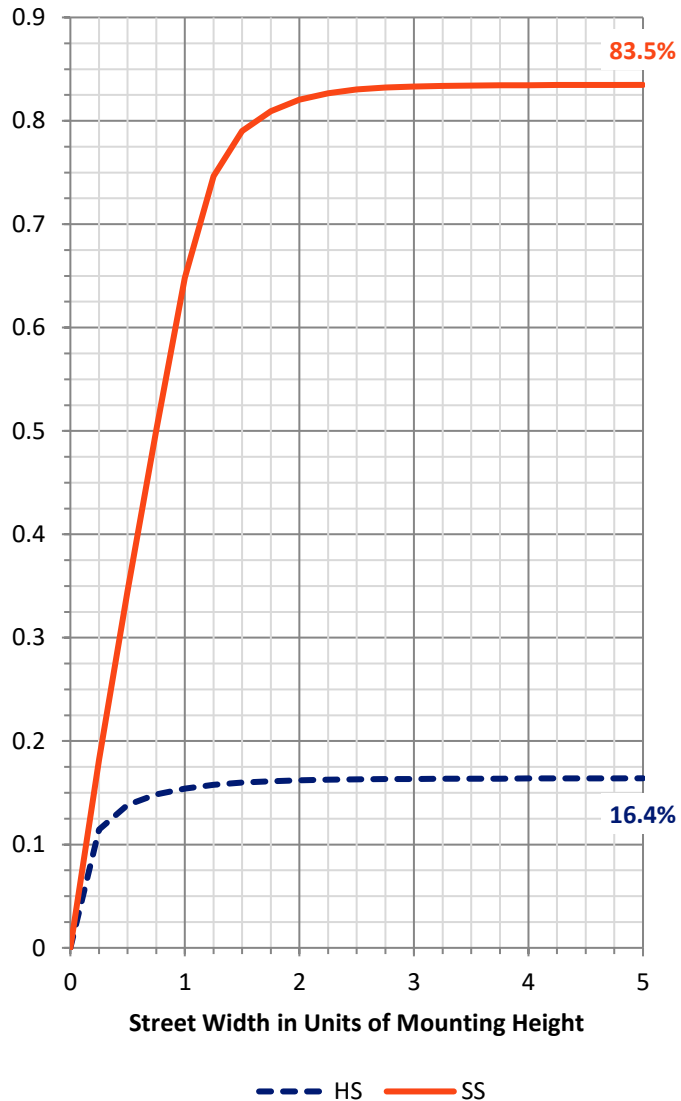
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3977.1	0.0	3977.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20060.4	0.0	20060.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	24037.5	0.0	24037.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.8	3.1
10°-20°	1698.3	7.1
20°-30°	2413.7	10.0
30°-40°	3725.0	15.5
40°-50°	5840.4	24.3
50°-60°	6784.5	28.2
60°-70°	2563.6	10.7
70°-80°	243.8	1.0
80°-90°	27.4	0.1
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°	24037.5	100.0
0°-180°	24037.5	100.0

Coefficient of Utilization



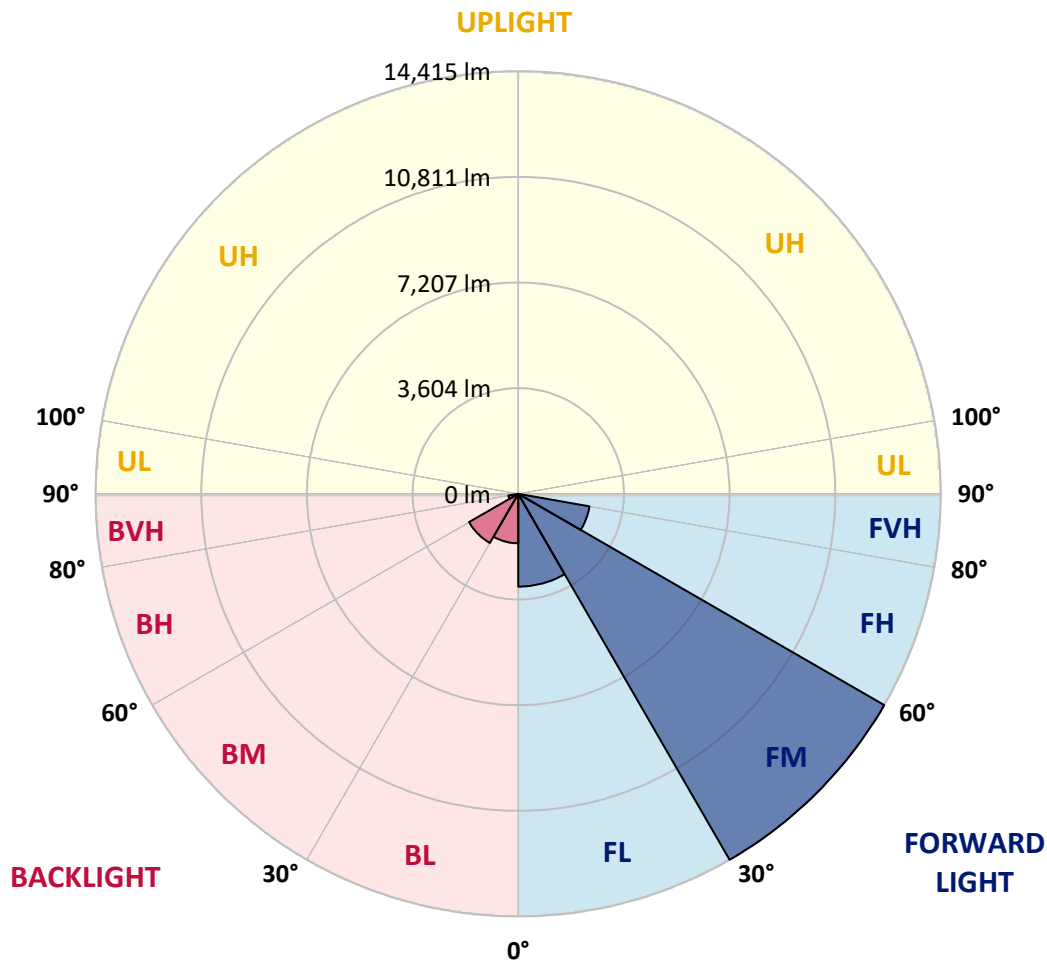
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3165.1	13.2			
FM (30°-60°)	14414.5	60.0			
FH (60°-80°)	2466.6	10.3			G2/5000
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1687.7	7.0	B3/2500		
BM (30°-60°)	1935.4	8.1	B2/2500		
BH (60°-80°)	340.7	1.4	B1/500		G1/500
BVH (80°-90°)	13.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9
2.5°	8589.0	8512.9	8589.0	8598.0	8651.8	8701.0	8669.7	8741.4	8701.0	8656.2	8642.8
5°	7895.0	7998.0	8002.5	8163.7	8127.8	8423.4	8553.2	8517.4	8736.8	8723.4	8692.1
7.5°	7272.5	7232.2	7285.9	7474.1	7711.4	8051.7	8239.8	8235.3	8548.8	8772.6	8750.3
10°	6694.8	6690.3	6802.3	6950.1	7151.6	7509.9	7769.6	7899.4	8387.5	8727.9	8777.2
12.5°	6305.2	6287.3	6408.3	6529.1	6847.1	7124.7	7456.1	7518.8	8078.6	8571.1	8651.8
15°	6050.0	6090.3	6099.2	6332.1	6533.6	6900.8	7160.5	7290.4	7935.3	8445.7	8754.7
17.5°	6005.2	6058.9	6063.4	6255.9	6470.9	6779.9	7008.3	7182.9	7814.3	8508.5	8759.3
20°	6094.7	6063.4	6090.3	6211.2	6421.6	6717.2	7048.6	7106.8	7774.0	8539.9	8808.5
22.5°	6350.0	6341.1	6273.9	6372.4	6520.2	6829.2	7142.6	7232.2	7890.5	8701.0	8848.8
25°	6632.1	6681.4	6618.7	6605.2	6708.2	7012.8	7429.2	7545.7	8280.1	8992.1	8974.2
27.5°	7160.5	7111.2	7111.2	7048.6	7021.8	7169.5	7738.2	7930.8	8714.4	9368.2	9117.4
30°	7666.6	7720.3	7680.0	7702.4	7523.2	7509.9	8177.0	8414.5	9484.7	9941.5	9422.0
32.5°	8468.2	8396.5	8463.7	8405.5	8168.1	7926.3	8772.6	9019.0	10416.1	10599.8	9878.8
35°	9135.4	9104.1	9390.7	9381.7	8996.6	8759.3	9404.1	9771.3	11065.5	11387.9	10416.1
37.5°	10084.8	10026.6	10353.5	10510.2	10165.3	9811.6	10308.6	10734.1	11670.1	12019.3	10967.0
40°	11061.0	11208.8	11647.6	11907.4	11540.2	11070.0	11414.8	11544.7	12073.1	12431.3	11343.2
42.5°	12296.9	12511.9	12959.7	13183.6	13152.3	12641.7	12538.8	12534.3	12364.1	12314.8	11620.8
45°	13483.7	13403.1	14092.7	14580.8	14974.9	14827.1	13622.5	13488.1	12825.4	12489.5	11692.4
47.5°	14003.2	13976.2	14446.4	15315.2	16658.7	16842.3	15198.8	14679.3	13604.6	13224.0	12082.1
50°	13331.4	13470.2	13936.0	14898.7	16958.7	18360.4	17133.4	16434.7	14513.6	14119.5	13004.6
52.5°	11137.1	11231.1	11674.5	12897.1	15937.7	19256.0	18987.3	18584.2	16184.0	15530.2	14612.2
54°	9157.8	9408.6	9650.4	10877.4	14119.5	18758.9	20003.9	19694.9	17272.2	16703.4	15624.3
55°	7975.5	8123.3	8298.0	9520.5	12861.2	17917.0	19887.4	19914.3	18002.1	17070.7	16304.9
57.5°	5826.0	5929.0	5749.9	6291.8	8830.9	14549.5	18190.2	18915.7	18987.3	17621.5	16721.4
60°	4451.2	4496.1	4294.6	4379.6	5490.2	9986.3	14070.4	14943.6	17128.9	15400.3	14164.4
62.5°	3452.6	3461.6	3457.1	3604.9	3784.0	5875.3	8799.6	9574.3	11808.8	10935.6	9619.0
65°	2543.6	2503.3	2574.9	3022.7	3228.8	3694.4	4634.8	5199.1	6417.2	5418.6	3873.6
67.5°	1647.9	1661.4	1733.0	2248.0	2767.5	2834.7	2852.6	2807.8	2812.3	1549.5	971.8
70°	989.7	1012.1	989.7	1271.8	1979.4	2033.0	1858.4	1813.6	1415.1	367.2	362.7
72.5°	586.6	555.3	497.1	546.3	824.0	985.2	886.7	882.2	555.3	215.0	215.0
75°	246.3	223.9	183.6	165.7	219.4	210.5	210.5	188.0	147.8	143.3	134.3
77.5°	49.3	49.3	35.8	40.3	53.7	62.7	76.1	76.1	89.6	89.6	85.1
80°	0.0	4.5	13.5	26.8	40.3	58.2	67.2	67.2	76.1	76.1	62.7
82.5°	0.0	4.5	13.5	26.8	35.8	53.7	67.2	67.2	76.1	80.6	67.2
85°	0.0	4.5	13.5	22.4	35.8	44.7	44.7	40.3	31.4	26.8	17.9
87.5°	0.0	0.0	4.5	8.9	4.5	8.9	8.9	8.9	8.9	8.9	8.9
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°	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9	8633.9
2.5°	8674.2	8669.7	8562.2	8387.5	8347.3	8199.5	8181.6	8092.0	8141.2	7975.5	7957.6
5°	8602.5	8548.8	8418.9	8307.0	7980.1	7747.2	7563.6	7339.7	7209.8	7232.2	7147.1
7.5°	8705.5	8566.7	8338.3	7948.7	7550.2	7142.6	6923.2	6466.4	6300.8	6054.4	6018.6
10°	8598.0	8495.0	8141.2	7496.4	6945.6	6359.0	5843.9	5337.9	4952.8	4787.1	4751.3
12.5°	8589.0	8409.9	7818.9	7102.3	6305.2	5463.3	4715.5	4084.1	3703.4	3488.5	3439.2
15°	8450.3	8235.3	7456.1	6493.3	5391.7	4343.8	3528.8	2919.8	2628.6	2503.3	2539.1
17.5°	8463.7	8141.2	7093.3	5848.5	4491.6	3188.4	2409.2	2095.8	2019.7	2050.9	2050.9
20°	8450.3	7930.8	6654.5	5105.0	3439.2	2212.2	1768.9	1656.9	1706.1	1804.7	1782.3
22.5°	8378.6	7832.2	6251.5	4321.4	2530.1	1639.0	1419.6	1424.1	1500.2	1621.1	1647.9
25°	8432.4	7612.8	5741.0	3528.8	1845.0	1307.6	1231.5	1262.8	1343.4	1433.0	1450.9
27.5°	8392.0	7456.1	5208.1	2740.7	1348.0	1124.0	1119.5	1155.4	1191.2	1258.4	1258.4
30°	8436.8	7312.8	4684.1	2037.6	1110.5	1030.0	1012.1	1038.9	1074.7	1088.2	1083.7
32.5°	8602.5	7205.4	4079.6	1522.5	980.7	940.4	940.4	940.4	935.9	953.9	958.3
35°	8965.2	7223.3	3546.7	1177.7	895.7	864.3	850.8	832.9	824.0	832.9	837.4
37.5°	9359.3	7214.3	2995.9	1003.1	832.9	806.1	774.7	747.8	743.4	752.4	738.9
40°	9534.0	7299.4	2485.4	900.1	774.7	743.4	694.1	671.7	676.2	685.2	676.2
42.5°	9771.3	7326.2	2154.0	819.5	721.0	671.7	640.3	613.5	609.1	622.4	618.0
45°	9766.8	7174.0	1804.7	774.7	671.7	618.0	577.7	555.3	555.3	564.2	568.7
47.5°	10053.4	7151.6	1549.5	734.4	635.9	582.1	532.9	514.9	510.5	510.5	501.6
50°	10720.6	7465.1	1352.4	689.6	591.1	541.9	501.6	479.2	461.3	452.3	447.8
52.5°	12023.8	8441.3	1200.1	635.9	541.9	501.6	465.7	447.8	425.5	403.0	398.5
54°	13286.6	9448.9	1191.2	591.1	501.6	474.7	443.4	434.4	407.5	376.2	367.2
55°	13855.4	10035.5	1222.6	555.3	474.7	456.7	429.9	420.9	394.1	358.3	353.8
57.5°	14325.6	10263.9	1204.6	461.3	429.9	425.5	403.0	389.6	358.3	309.0	300.1
60°	11531.2	7760.6	864.3	407.5	394.1	385.1	367.2	358.3	318.0	264.2	259.7
62.5°	7285.9	4464.7	550.8	358.3	344.8	331.4	309.0	300.1	264.2	210.5	197.0
65°	3103.4	1849.4	371.7	318.0	295.5	273.2	255.2	241.8	210.5	156.8	152.2
67.5°	806.1	658.3	309.0	277.6	246.3	215.0	201.5	179.1	143.3	107.5	103.0
70°	362.7	331.4	259.7	232.9	197.0	165.7	147.8	125.4	94.0	71.7	67.2
72.5°	215.0	210.5	197.0	174.7	147.8	125.4	107.5	85.1	62.7	40.3	40.3
75°	134.3	129.9	134.3	120.9	103.0	94.0	80.6	58.2	35.8	17.9	17.9
77.5°	80.6	80.6	80.6	76.1	71.7	71.7	58.2	35.8	17.9	4.5	4.5
80°	62.7	62.7	67.2	62.7	62.7	62.7	49.3	26.8	8.9	0.0	0.0
82.5°	62.7	67.2	76.1	71.7	62.7	53.7	44.7	26.8	8.9	0.0	0.0
85°	17.9	13.5	22.4	31.4	44.7	40.3	31.4	22.4	8.9	0.0	0.0
87.5°	8.9	8.9	8.9	8.9	4.5	4.5	4.5	4.5	4.5	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)