

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: P531455

Luminaire Tested: **GALN-SA6D-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531455
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-SA6D-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 24385 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

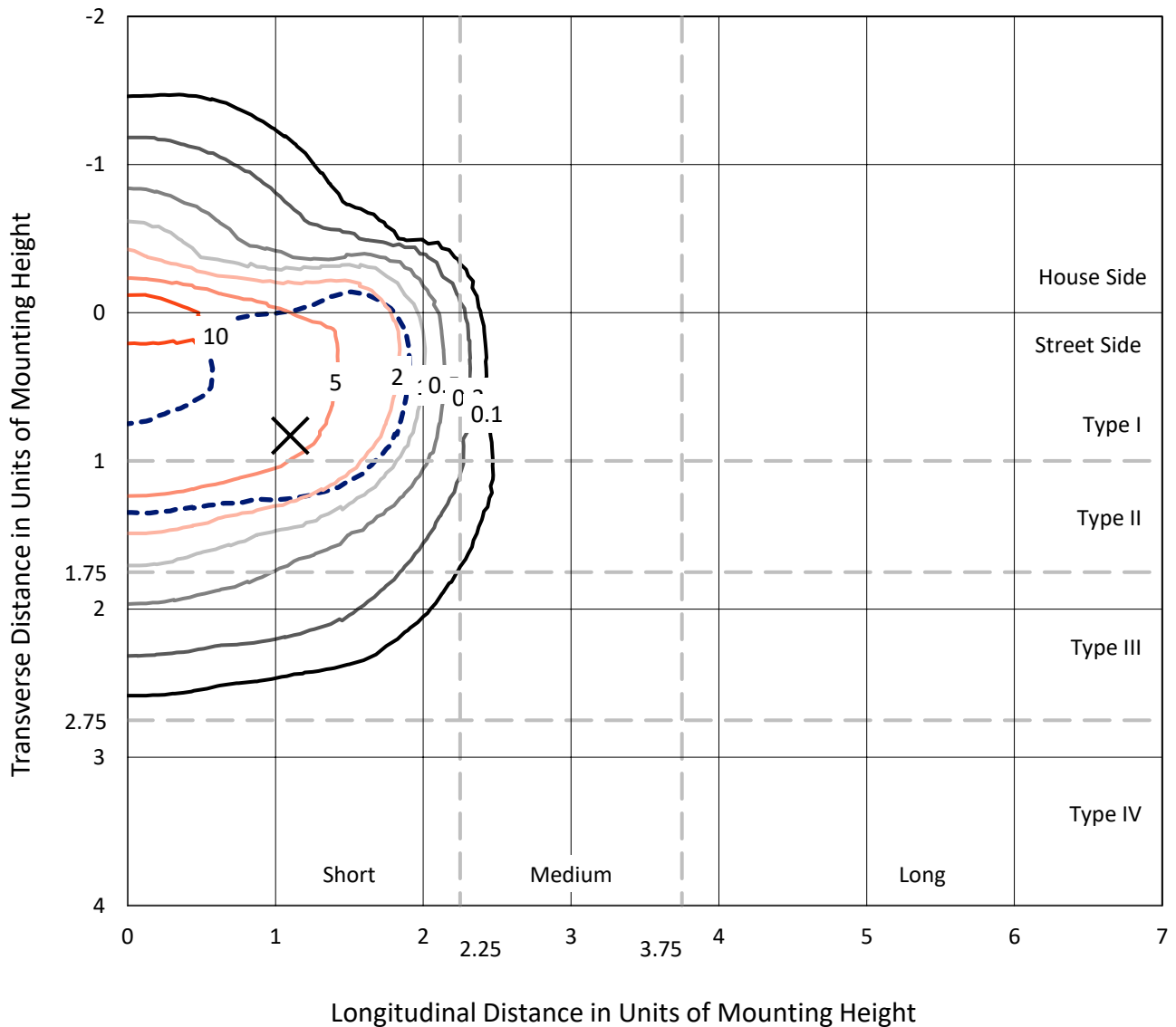
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

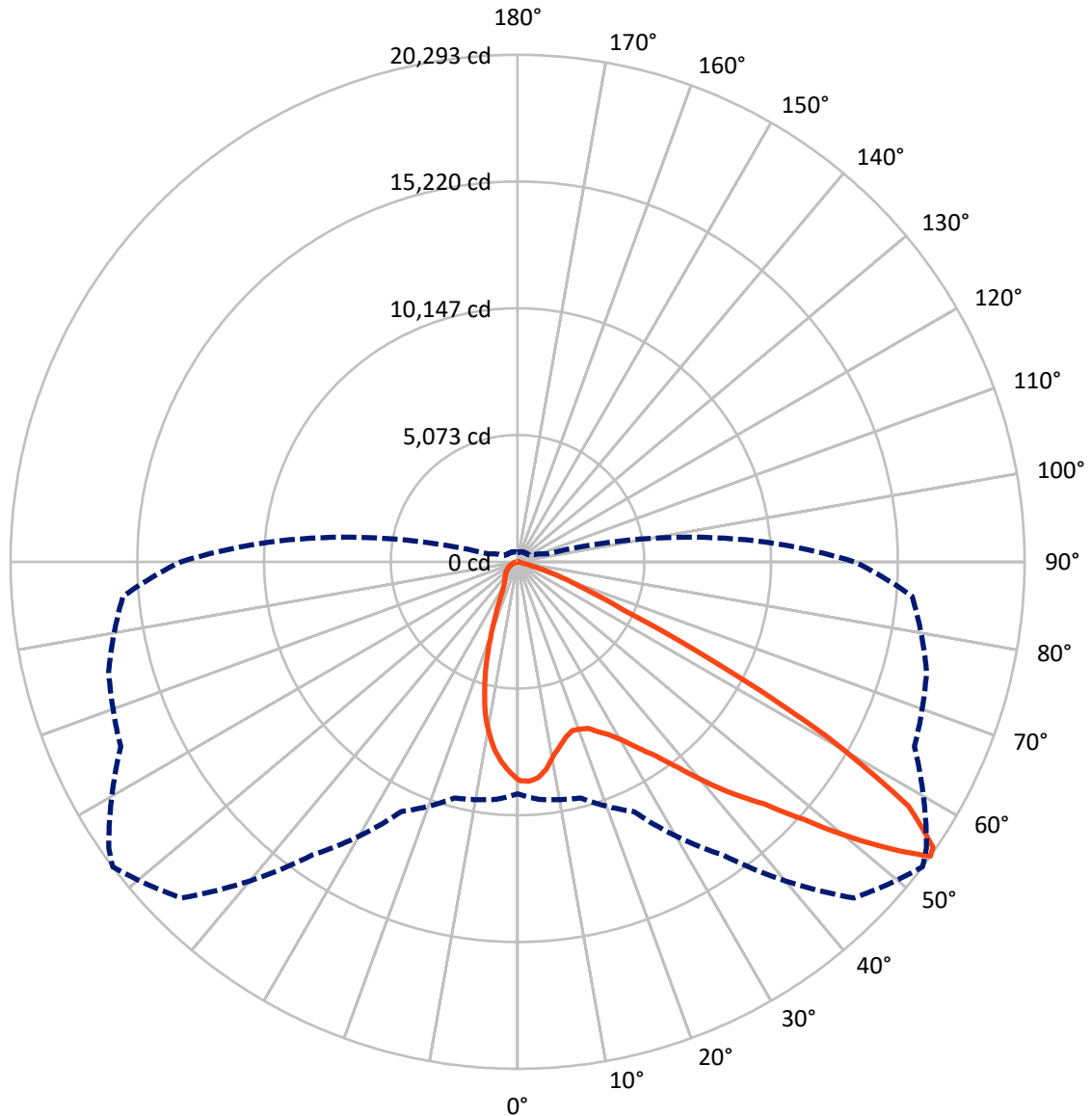
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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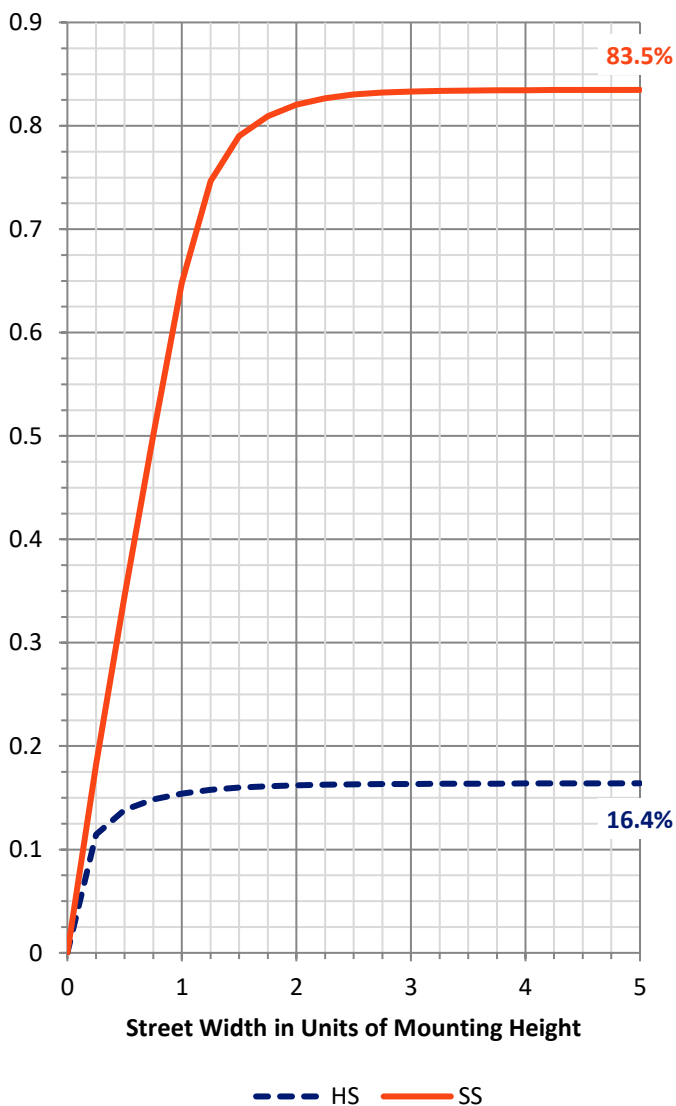
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4034.6	0.0	4034.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20350.4	0.0	20350.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	24385.0	0.0	24385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.5	3.1
10°-20°	1722.9	7.1
20°-30°	2448.6	10.0
30°-40°	3778.8	15.5
40°-50°	5924.9	24.3
50°-60°	6882.6	28.2
60°-70°	2600.6	10.7
70°-80°	247.3	1.0
80°-90°	27.8	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°	24385.0	100.0
0°-180°	24385.0	100.0

Coefficient of Utilization

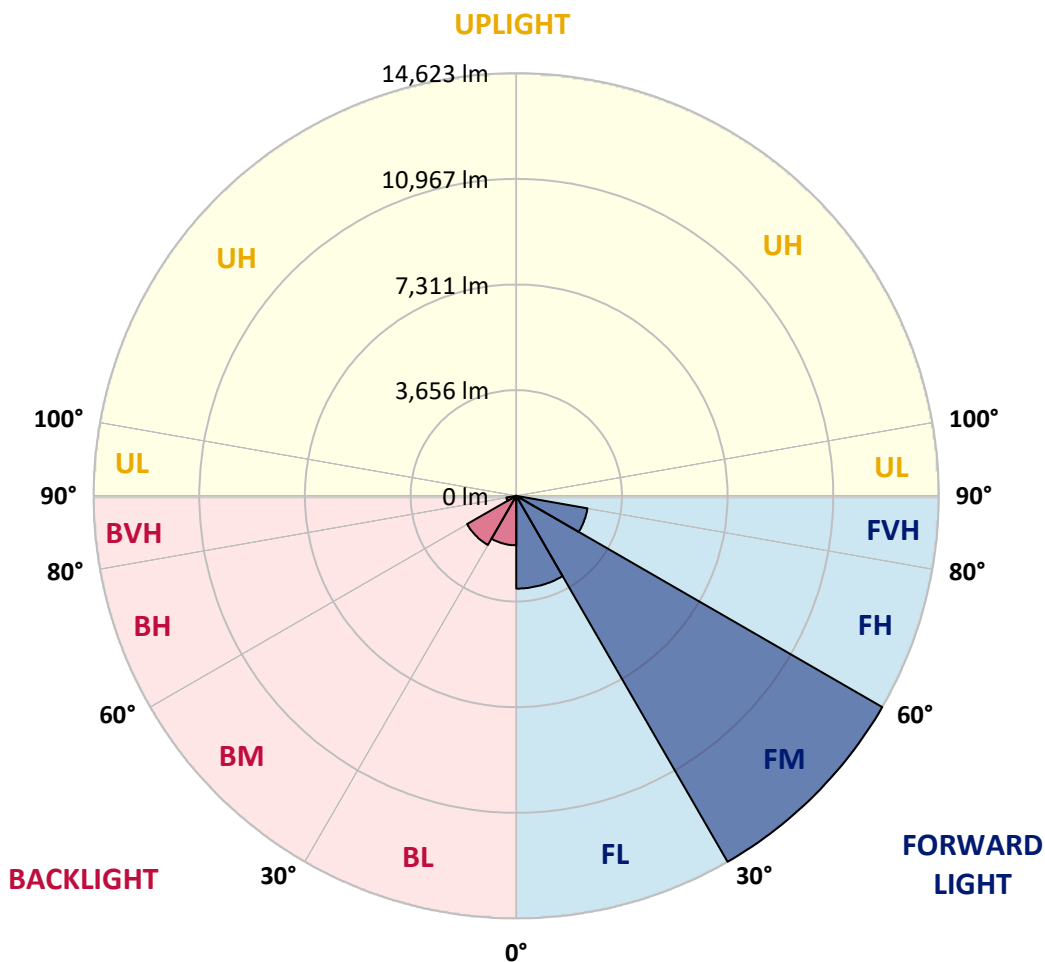


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3210.9	13.2			
FM (30°-60°)	14622.9	60.0			
FH (60°-80°)	2502.3	10.3			G2/5000
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1712.1	7.0	B3/2500		
BM (30°-60°)	1963.3	8.1	B2/2500		
BH (60°-80°)	345.7	1.4	B1/500		G1/500
BVH (80°-90°)	13.5	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°	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7
2.5°	8713.3	8636.0	8713.3	8722.3	8776.9	8826.8	8795.0	8867.7	8826.8	8781.4	8767.8
5°	8009.1	8113.6	8118.1	8281.7	8245.3	8545.2	8676.9	8640.6	8863.2	8849.5	8817.7
7.5°	7377.6	7336.8	7391.3	7582.1	7822.8	8168.1	8358.9	8354.4	8672.4	8899.5	8876.8
10°	6791.6	6787.1	6900.6	7050.6	7255.0	7618.4	7881.9	8013.6	8508.8	8854.1	8904.1
12.5°	6396.4	6378.2	6500.9	6623.5	6946.1	7227.7	7563.9	7627.5	8195.4	8695.1	8776.9
15°	6137.4	6178.3	6187.4	6423.6	6628.1	7000.6	7264.1	7395.8	8050.0	8567.9	8881.3
17.5°	6092.0	6146.5	6151.1	6346.4	6564.5	6877.9	7109.6	7286.8	7927.3	8631.5	8885.9
20°	6182.9	6151.1	6178.3	6301.0	6514.5	6814.3	7150.5	7209.6	7886.4	8663.3	8935.9
22.5°	6441.8	6432.7	6364.6	6464.5	6614.4	6927.9	7245.9	7336.8	8004.6	8826.8	8976.7
25°	6728.0	6778.0	6714.4	6700.8	6805.2	7114.2	7536.6	7654.8	8399.8	9122.1	9103.9
27.5°	7264.1	7214.1	7214.1	7150.5	7123.2	7273.2	7850.1	8045.4	8840.5	9503.7	9249.3
30°	7777.4	7831.9	7791.0	7813.8	7632.0	7618.4	8295.3	8536.1	9621.8	10085.2	9558.2
32.5°	8590.6	8517.9	8586.1	8527.0	8286.2	8040.9	8899.5	9149.4	10566.7	10753.0	10021.6
35°	9267.5	9235.7	9526.4	9517.3	9126.7	8885.9	9540.1	9912.6	11225.5	11552.6	10566.7
37.5°	10230.6	10171.5	10503.1	10662.1	10312.3	9953.5	10457.7	10889.3	11838.8	12193.1	11125.5
40°	11220.9	11370.8	11816.0	12079.5	11707.0	11230.0	11579.8	11711.6	12247.6	12611.0	11507.1
42.5°	12474.8	12692.8	13147.1	13374.3	13342.5	12824.6	12720.1	12715.5	12542.9	12492.9	11788.8
45°	13678.6	13596.9	14296.5	14791.6	15191.4	15041.5	13819.5	13683.2	13010.8	12670.1	11861.5
47.5°	14205.6	14178.3	14655.3	15536.7	16899.5	17085.8	15418.5	14891.6	13801.3	13415.1	12256.7
50°	13524.2	13665.0	14137.5	15114.2	17203.9	18625.8	17381.1	16672.4	14723.5	14323.7	13192.5
52.5°	11298.2	11393.6	11843.3	13083.5	16168.1	19534.4	19261.8	18853.0	16418.0	15754.7	14823.4
54°	9290.2	9544.6	9789.9	11034.7	14323.7	19030.1	20293.1	19979.6	17521.9	16945.0	15850.1
55°	8090.9	8240.8	8418.0	9658.2	13047.2	18176.1	20174.9	20202.2	18262.4	17317.5	16540.6
57.5°	5910.3	6014.8	5833.1	6382.8	8958.6	14759.8	18453.2	19189.1	19261.8	17876.2	16963.1
60°	4515.6	4561.1	4356.6	4442.9	5569.6	10130.6	14273.7	15159.6	17376.5	15623.0	14369.1
62.5°	3502.6	3511.6	3507.1	3657.0	3838.7	5960.3	8926.8	9712.7	11979.6	11093.7	9758.1
65°	2580.4	2539.5	2612.2	3066.4	3275.4	3747.9	4701.9	5274.3	6510.0	5496.9	3929.6
67.5°	1671.8	1685.4	1758.1	2280.5	2807.5	2875.6	2893.8	2848.4	2852.9	1571.8	985.8
70°	1004.0	1026.7	1004.0	1290.2	2008.0	2062.5	1885.3	1839.9	1435.6	372.5	368.0
72.5°	595.1	563.3	504.3	554.2	835.9	999.4	899.5	894.9	563.3	218.1	218.1
75°	249.9	227.1	186.3	168.1	222.6	213.5	213.5	190.8	149.9	145.4	136.3
77.5°	50.0	50.0	36.3	40.9	54.5	63.6	77.2	77.2	90.9	90.9	86.3
80°	0.0	4.5	13.6	27.3	40.9	59.1	68.1	68.1	77.2	77.2	63.6
82.5°	0.0	4.5	13.6	27.3	36.3	54.5	68.1	68.1	77.2	81.8	68.1
85°	0.0	4.5	13.6	22.7	36.3	45.4	45.4	40.9	31.8	27.3	18.2
87.5°	0.0	0.0	4.5	9.1	4.5	9.1	9.1	9.1	9.1	9.1	9.1
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°	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7
2.5°	8799.6	8795.0	8686.0	8508.8	8467.9	8318.0	8299.8	8209.0	8259.0	8090.9	8072.7
5°	8726.9	8672.4	8540.6	8427.1	8095.4	7859.2	7672.9	7445.8	7314.0	7336.8	7250.4
7.5°	8831.4	8690.5	8458.9	8063.6	7659.3	7245.9	7023.3	6559.9	6391.8	6142.0	6105.6
10°	8722.3	8617.9	8259.0	7604.8	7046.0	6450.9	5928.5	5415.1	5024.4	4856.3	4820.0
12.5°	8713.3	8531.5	7931.9	7205.0	6396.4	5542.3	4783.7	4143.1	3757.0	3538.9	3488.9
15°	8572.4	8354.4	7563.9	6587.2	5469.6	4406.6	3579.8	2962.0	2666.7	2539.5	2575.8
17.5°	8586.1	8259.0	7195.9	5933.0	4556.5	3234.5	2444.1	2126.1	2048.8	2080.6	2080.6
20°	8572.4	8045.4	6750.7	5178.9	3488.9	2244.2	1794.4	1680.9	1730.8	1830.8	1808.1
22.5°	8499.7	7945.5	6341.9	4383.9	2566.7	1662.7	1440.1	1444.6	1521.9	1644.5	1671.8
25°	8554.3	7722.9	5824.0	3579.8	1871.7	1326.5	1249.3	1281.1	1362.9	1453.7	1471.9
27.5°	8513.4	7563.9	5283.4	2780.2	1367.4	1140.3	1135.7	1172.1	1208.4	1276.6	1276.6
30°	8558.8	7418.5	4751.9	2067.0	1126.6	1044.9	1026.7	1053.9	1090.3	1103.9	1099.4
32.5°	8726.9	7309.5	4138.6	1544.6	994.9	954.0	954.0	954.0	949.5	967.6	972.2
35°	9094.9	7327.7	3598.0	1194.8	908.6	876.8	863.1	845.0	835.9	845.0	849.5
37.5°	9494.6	7318.6	3039.2	1017.6	845.0	817.7	785.9	758.7	754.1	763.2	749.6
40°	9671.8	7404.9	2521.3	913.1	785.9	754.1	704.1	681.4	686.0	695.1	686.0
42.5°	9912.6	7432.2	2185.1	831.3	731.4	681.4	649.6	622.4	617.8	631.5	626.9
45°	9908.0	7277.7	1830.8	785.9	681.4	626.9	586.0	563.3	563.3	572.4	576.9
47.5°	10198.8	7255.0	1571.8	745.0	645.1	590.6	540.6	522.4	517.9	517.9	508.8
50°	10875.7	7573.0	1372.0	699.6	599.7	549.7	508.8	486.1	467.9	458.8	454.3
52.5°	12197.6	8563.3	1217.5	645.1	549.7	508.8	472.5	454.3	431.6	408.9	404.3
54°	13478.7	9585.5	1208.4	599.7	508.8	481.5	449.7	440.7	413.4	381.6	372.5
55°	14055.7	10180.6	1240.2	563.3	481.5	463.4	436.1	427.0	399.8	363.4	358.9
57.5°	14532.7	10412.3	1222.0	467.9	436.1	431.6	408.9	395.2	363.4	313.5	304.4
60°	11697.9	7872.8	876.8	413.4	399.8	390.7	372.5	363.4	322.5	268.0	263.5
62.5°	7391.3	4529.3	558.8	363.4	349.8	336.2	313.5	304.4	268.0	213.5	199.9
65°	3148.2	1876.2	377.1	322.5	299.8	277.1	258.9	245.3	213.5	159.0	154.5
67.5°	817.7	667.8	313.5	281.7	249.9	218.1	204.4	181.7	145.4	109.0	104.5
70°	368.0	336.2	263.5	236.2	199.9	168.1	149.9	127.2	95.4	72.7	68.1
72.5°	218.1	213.5	199.9	177.2	149.9	127.2	109.0	86.3	63.6	40.9	40.9
75°	136.3	131.7	136.3	122.7	104.5	95.4	81.8	59.1	36.3	18.2	18.2
77.5°	81.8	81.8	81.8	77.2	72.7	72.7	59.1	36.3	18.2	4.5	4.5
80°	63.6	63.6	68.1	63.6	63.6	63.6	50.0	27.3	9.1	0.0	0.0
82.5°	63.6	68.1	77.2	72.7	63.6	54.5	45.4	27.3	9.1	0.0	0.0
85°	18.2	13.6	22.7	31.8	45.4	40.9	31.8	22.7	9.1	0.0	0.0
87.5°	9.1	9.1	9.1	9.1	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)