

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: P647658

Luminaire Tested: **GALN-SA9D-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32113.2 lumens
Efficiency: N/A
Efficacy: 58.2 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

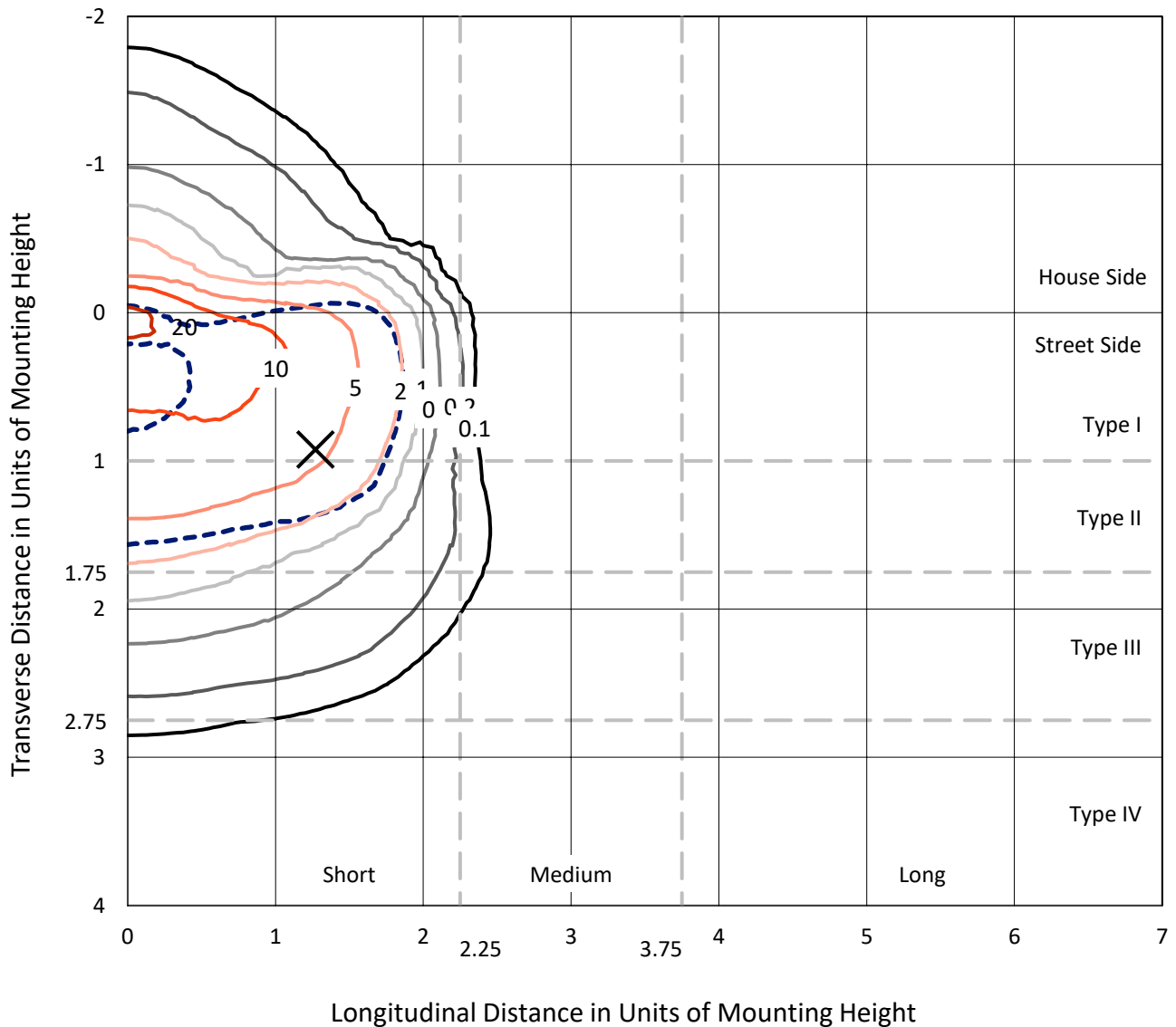
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

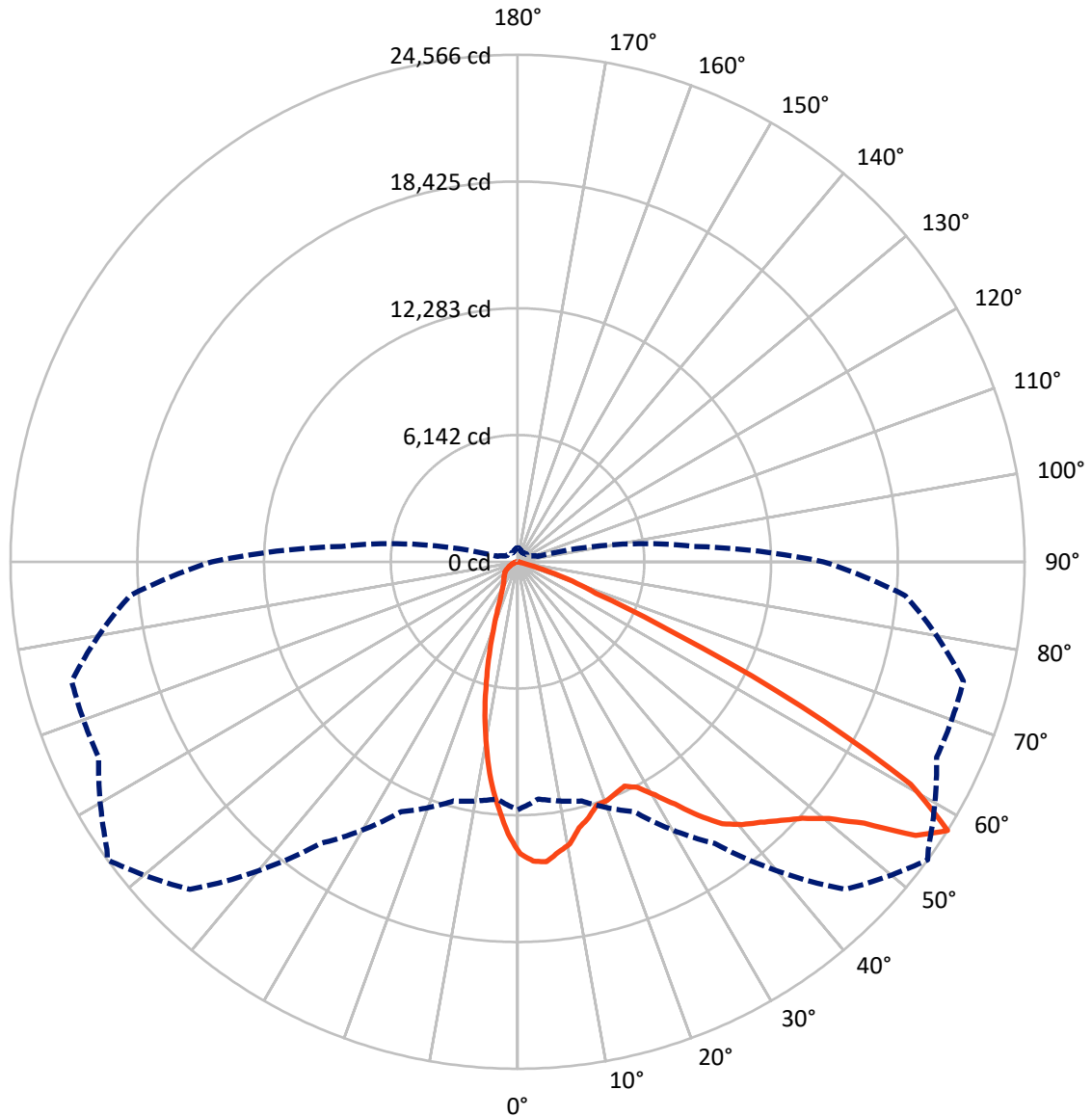
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4538.1	0.0	4538.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	27575.0	0.0	27575.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	32113.2	0.0	32113.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1183.8	3.7
10°-20°	2527.4	7.9
20°-30°	3349.3	10.4
30°-40°	4867.4	15.2
40°-50°	7217.7	22.5
50°-60°	9025.4	28.1
60°-70°	3560.1	11.1
70°-80°	354.5	1.1
80°-90°	27.6	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°	32113.2	100.0
0°-180°	32113.2	100.0

Coefficient of Utilization

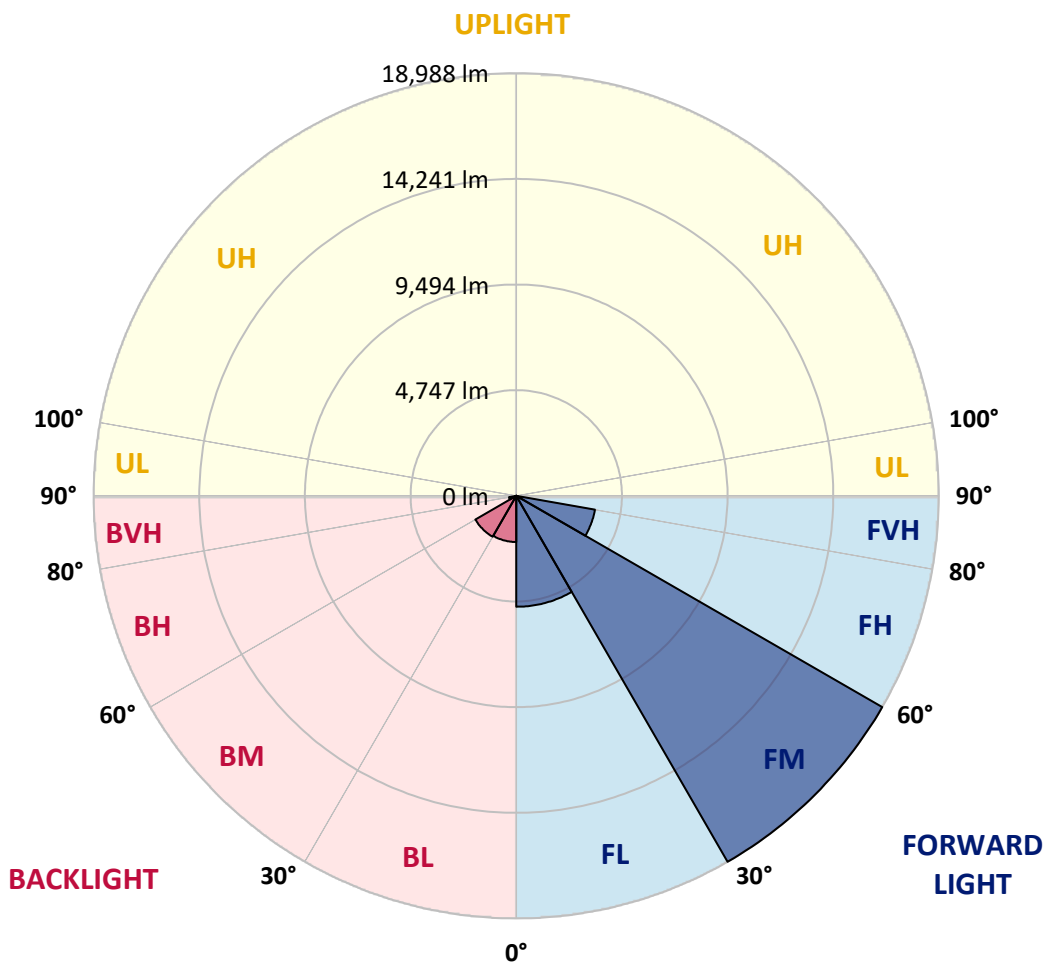


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4984.9	15.5			
FM (30°-60°)	18988.5	59.1			
FH (60°-80°)	3589.2	11.2			G2/5000
FVH (80°-90°)	12.5	0.0			G1/100
BL (0°-30°)	2075.5	6.5	B3/2500		
BM (30°-60°)	2122.1	6.6	B2/2500		
BH (60°-80°)	325.4	1.0	B1/500		G1/500
BVH (80°-90°)	15.0	0.0			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°	54°	55°	65°	75°	85°
0°	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3
2.5°	14970.3	14815.1	14827.0	14773.3	14701.6	14755.4	14522.5	14576.2	14570.2	14253.8	14044.7
5°	14594.2	14761.4	14588.2	14731.5	14594.2	14743.4	14600.1	14492.6	14319.4	14086.6	13698.4
7.5°	13955.2	13794.0	13841.7	14020.9	14050.8	14385.1	14206.0	14343.3	14271.7	13811.9	13280.5
10°	12671.4	12635.5	12874.4	13113.2	13405.8	13764.1	13901.5	13823.9	13770.1	13597.0	12886.3
12.5°	11686.0	11787.6	11781.6	12175.7	12671.4	12874.4	13232.6	13220.7	13519.3	13196.8	12516.1
15°	10748.6	10802.3	11053.1	11297.9	11847.3	12426.5	12868.4	12928.1	13286.4	13059.5	12229.4
17.5°	10175.3	10097.6	10294.7	10587.3	11148.7	11907.0	12396.7	12540.0	13029.7	12981.8	11901.1
20°	9608.0	9608.0	9769.3	10115.6	10629.1	11483.0	12354.9	12313.1	13029.7	12892.3	11548.7
22.5°	9416.9	9512.4	9554.2	9817.0	10426.1	11160.6	12175.7	12253.3	13131.1	12850.5	11393.4
25°	9679.7	9554.2	9566.2	9775.2	10348.4	11005.3	12044.3	12217.5	13316.2	13059.5	11268.1
27.5°	9721.5	9846.9	9882.7	10026.0	10408.2	11053.1	12372.8	12725.1	13776.0	13549.1	11303.9
30°	10085.7	10211.1	10205.2	10450.0	10712.7	11441.3	13107.3	13178.9	14725.5	14164.2	11524.8
32.5°	10527.6	10659.0	10700.8	10987.4	11196.4	12151.8	14002.9	14188.1	15639.2	15131.6	12104.1
35°	11076.9	11029.2	11220.3	11506.9	11954.8	13190.9	15095.8	15406.2	16624.4	16385.6	12701.2
37.5°	11763.7	11704.0	11889.1	12354.9	12964.0	14421.0	16104.9	16307.9	17341.0	17550.0	13805.9
40°	12247.4	12271.3	12832.6	13459.6	14104.5	15591.4	16743.8	16940.9	17842.6	18636.8	14641.9
42.5°	13053.5	13202.8	13877.6	14641.9	15316.7	16469.2	17263.3	17454.5	18075.5	19508.6	15770.5
45°	14223.9	14158.2	14904.6	15758.6	16505.0	17382.8	17878.4	17812.7	18212.8	20374.4	16481.1
47.5°	15728.7	15740.6	16236.3	16964.8	17741.1	18177.0	18565.2	18332.2	18499.5	21288.1	17430.6
50°	16755.8	16845.4	17245.4	17991.9	18380.0	19048.8	19544.5	19401.2	19347.4	21837.5	18027.7
52.5°	17018.5	17287.2	17502.2	18433.8	19341.4	20398.3	21031.3	21335.9	20380.5	22022.6	18786.0
55°	15036.0	15274.9	16033.3	17311.1	19705.7	22536.1	23407.9	23413.9	21730.0	22846.6	19317.5
57.5°	12020.5	11536.8	12002.5	13358.1	16660.3	22446.6	24566.4	24285.8	22404.8	22362.9	18857.8
60°	8312.2	8192.8	8222.7	8760.0	11530.8	17854.5	21891.2	22255.4	20631.3	19383.2	14928.5
62.5°	6586.4	6485.0	6353.6	6293.9	7159.8	11124.8	15442.1	15955.7	14426.9	12569.8	8849.6
65°	5159.3	5099.6	5117.5	5356.3	5350.4	6311.8	8443.6	8234.6	6592.5	4872.7	2782.7
67.5°	3481.4	3570.9	3642.6	4365.1	4735.3	4395.0	4078.5	3959.1	2143.8	901.7	615.0
70°	1958.6	1970.6	2048.2	2728.9	3594.8	3409.7	2812.5	2812.5	1068.9	328.4	352.4
72.5°	1068.9	1033.1	961.4	1176.4	1600.4	1624.3	1254.0	1092.8	316.5	214.9	197.1
75°	519.5	513.6	441.8	364.3	346.3	286.7	221.0	203.0	143.3	137.3	119.4
77.5°	107.5	101.5	53.7	53.7	59.7	65.7	83.6	83.6	101.5	101.5	83.6
80°	0.0	0.0	6.0	23.9	41.8	59.7	71.6	71.6	83.6	83.6	65.7
82.5°	0.0	0.0	6.0	17.9	35.9	53.7	65.7	71.6	83.6	89.6	71.6
85°	0.0	0.0	0.0	12.0	29.8	41.8	35.9	35.9	29.8	23.9	12.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3	14146.3
2.5°	13937.3	13925.3	13650.7	13495.4	13214.8	12969.9	12772.8	12629.6	12629.6	12540.0	12456.4
5°	13543.2	13441.7	12856.5	12480.2	11948.8	11554.7	11286.0	11076.9	10748.6	10838.1	10485.8
7.5°	13053.5	12796.7	12020.5	11447.2	10712.7	10151.4	9578.1	9070.6	8580.9	8360.0	8479.4
10°	12528.0	12080.2	11035.2	10127.6	9213.9	8186.8	7518.1	6705.9	6204.3	6174.4	6043.0
12.5°	11972.7	11465.2	10193.2	8939.2	7738.9	6502.9	5481.8	4723.4	4383.0	4006.8	4078.5
15°	11554.7	10802.3	9255.7	7745.0	6150.5	4902.5	3875.5	3290.2	2967.8	2878.2	2848.4
17.5°	11100.8	10294.7	8300.3	6473.0	4824.9	3529.1	2788.7	2508.0	2382.6	2382.6	2364.7
20°	10629.1	9721.5	7350.8	5290.7	3618.7	2633.4	2233.3	2143.8	2137.7	2131.8	2131.8
22.5°	10318.6	9064.6	6490.9	4203.8	2728.9	2107.9	1940.7	1904.9	1928.8	2000.4	2000.4
25°	9990.2	8431.7	5541.4	3242.5	2113.9	1809.4	1713.8	1737.7	1797.4	1863.1	1839.2
27.5°	9655.8	8019.6	4645.8	2543.8	1731.7	1582.4	1546.6	1600.4	1666.0	1725.7	1707.8
30°	9578.1	7577.7	3797.8	1928.8	1486.9	1379.4	1403.3	1451.1	1516.7	1540.6	1564.5
32.5°	9697.6	7231.4	3111.1	1582.4	1295.8	1266.0	1266.0	1289.8	1331.6	1385.4	1367.4
35°	10038.0	7034.3	2460.2	1373.5	1188.3	1158.4	1152.5	1176.4	1200.3	1218.2	1200.3
37.5°	10557.5	6879.0	2012.4	1218.2	1116.6	1068.9	1057.0	1050.9	1074.8	1080.9	1092.8
40°	11220.3	6962.7	1707.8	1122.7	1045.0	991.3	955.4	955.4	955.4	973.3	979.3
42.5°	11936.8	7076.1	1474.9	1068.9	979.3	913.6	877.8	865.8	877.8	901.7	895.7
45°	12689.3	7297.1	1325.6	985.2	919.6	836.0	788.2	776.3	806.2	853.9	847.9
47.5°	13393.9	7613.6	1212.2	931.5	859.9	782.2	722.6	710.6	764.4	830.1	836.0
50°	14098.5	8162.9	1170.4	889.7	818.1	728.5	674.8	662.8	722.6	806.2	824.0
52.5°	14910.6	8754.1	1140.5	836.0	770.3	686.7	627.0	615.0	680.7	788.2	794.2
55°	15442.1	9255.7	1116.6	740.5	680.7	621.0	573.2	567.3	638.9	734.5	758.3
57.5°	14821.1	8557.0	1033.1	644.9	579.3	549.4	507.5	507.5	567.3	656.9	674.8
60°	11238.2	5631.0	734.5	519.5	489.7	471.8	453.8	453.8	501.6	567.3	573.2
62.5°	6580.5	3033.5	471.8	418.0	418.0	400.1	370.2	370.2	418.0	453.8	459.8
65°	1952.6	973.3	382.2	358.3	352.4	322.4	292.6	286.7	322.4	340.4	334.4
67.5°	561.3	447.9	316.5	298.6	292.6	244.8	226.9	221.0	226.9	214.9	209.0
70°	334.4	304.5	244.8	250.8	221.0	179.2	161.2	155.3	143.3	125.4	113.5
72.5°	185.1	185.1	179.2	191.1	155.3	119.4	101.5	83.6	65.7	53.7	47.8
75°	113.5	119.4	125.4	131.4	101.5	77.6	65.7	41.8	23.9	12.0	12.0
77.5°	77.6	83.6	89.6	95.5	83.6	71.6	53.7	29.8	6.0	0.0	0.0
80°	59.7	65.7	77.6	83.6	89.6	95.5	71.6	29.8	6.0	0.0	0.0
82.5°	65.7	71.6	89.6	83.6	83.6	83.6	65.7	29.8	6.0	0.0	0.0
85°	12.0	17.9	29.8	29.8	41.8	53.7	41.8	12.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)