

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: P533691

Luminaire Tested: **GALN-SA9A-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533691
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-SA9A-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 17789 lumens
Efficiency: N/A
Efficacy: 64.9 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

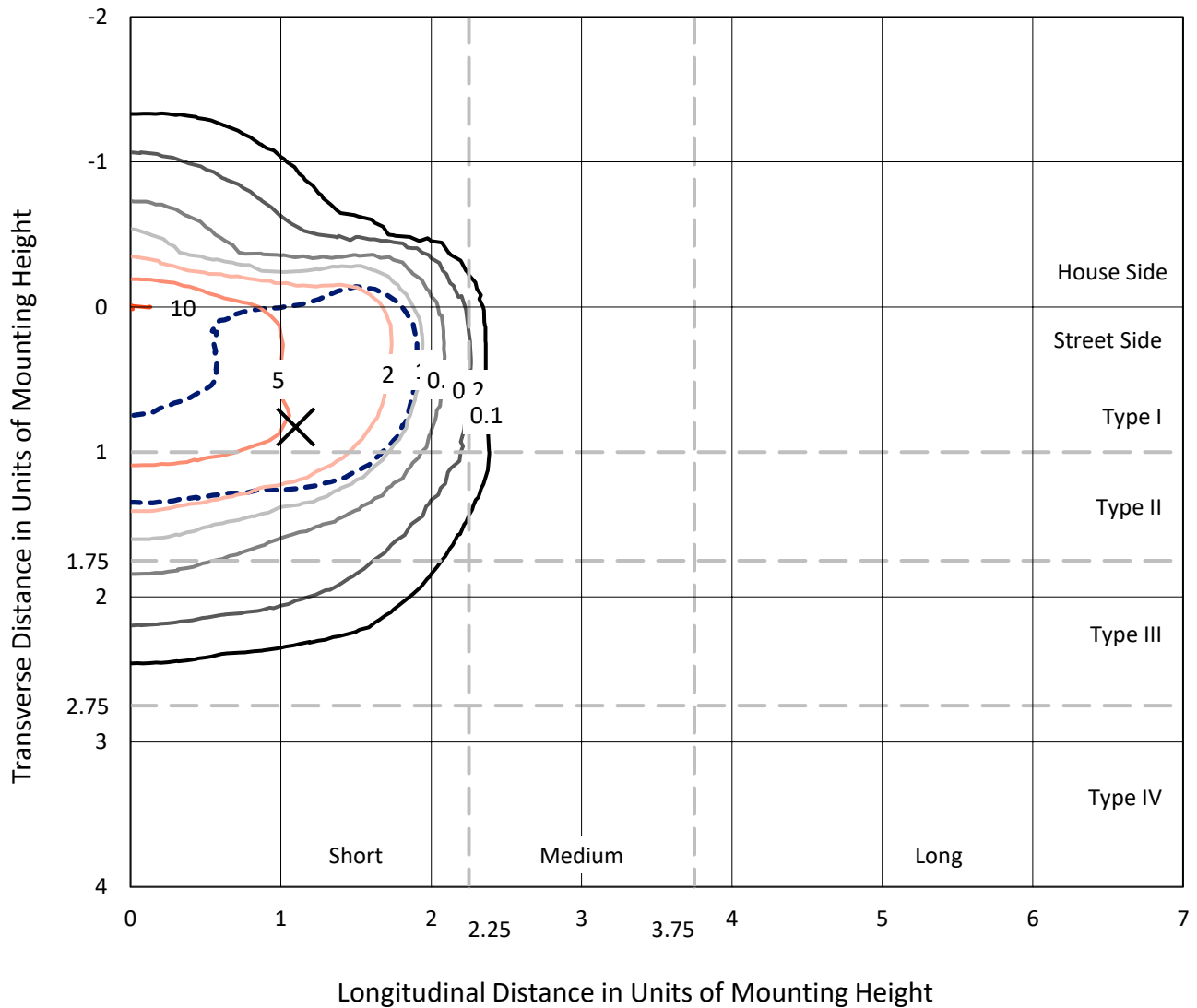
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

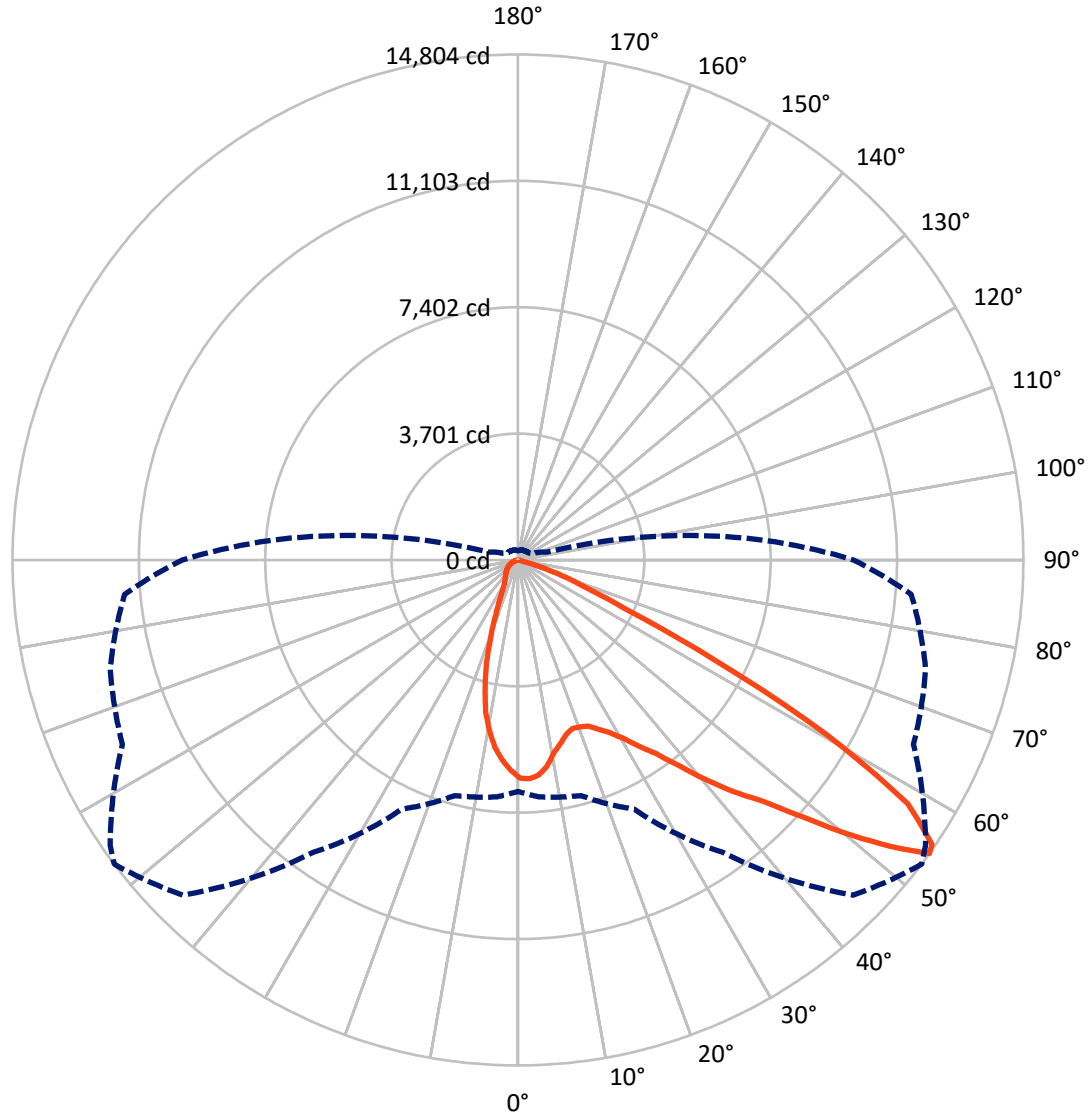
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	2943.2	0.0	2943.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14845.8	0.0	14845.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	17789.0	0.0	17789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.2	3.1
10°-20°	1256.9	7.1
20°-30°	1786.3	10.0
30°-40°	2756.7	15.5
40°-50°	4322.2	24.3
50°-60°	5020.9	28.2
60°-70°	1897.2	10.7
70°-80°	180.4	1.0
80°-90°	20.3	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°	17789.0	100.0
0°-180°	17789.0	100.0

Coefficient of Utilization

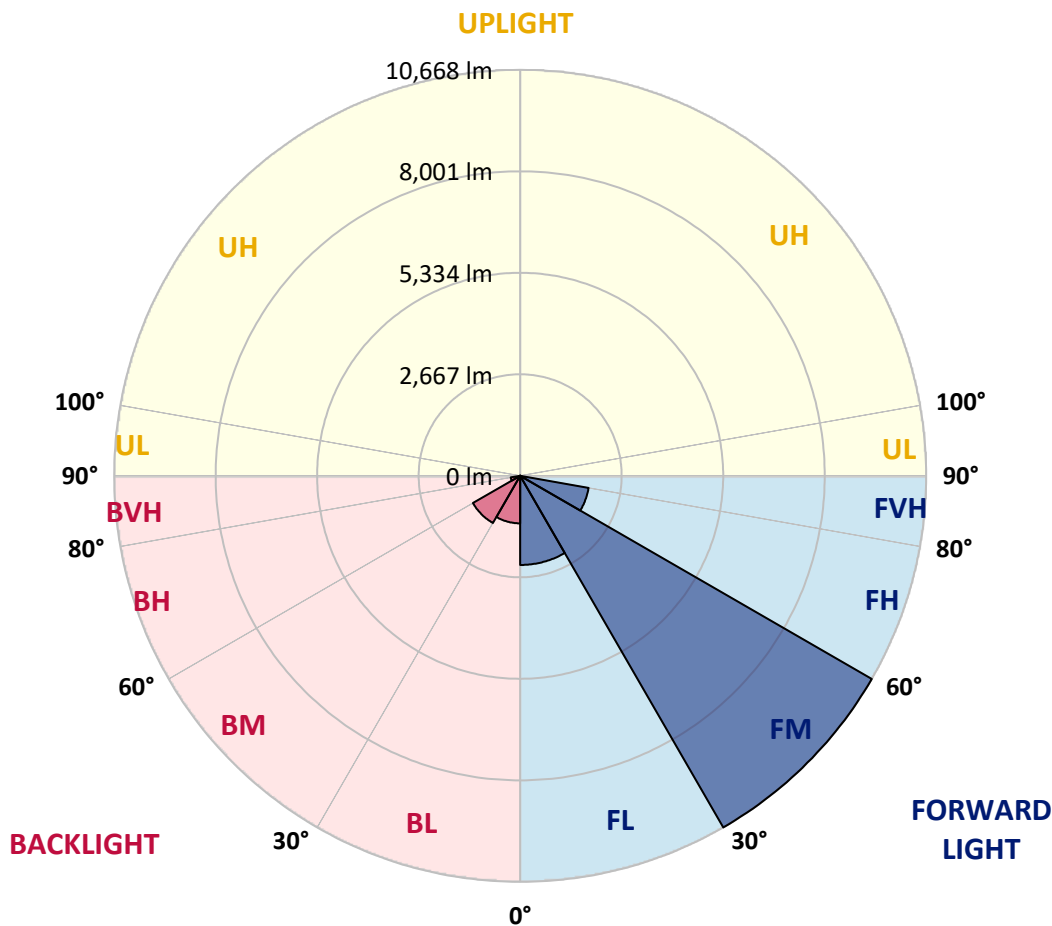


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.3	13.2			
FM (30°-60°)	10667.5	60.0			
FH (60°-80°)	1825.4	10.3			G2/5000
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	1249.0	7.0	B3/2500		
BM (30°-60°)	1432.3	8.1	B2/2500		
BH (60°-80°)	252.2	1.4	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
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°	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5
2.5°	6356.4	6300.0	6356.4	6363.0	6402.8	6439.2	6416.0	6469.0	6439.2	6406.1	6396.1
5°	5842.7	5918.9	5922.2	6041.5	6015.0	6233.7	6329.9	6303.3	6465.7	6455.8	6432.6
7.5°	5382.0	5352.2	5392.0	5531.2	5706.8	5958.7	6097.9	6094.6	6326.5	6492.2	6475.7
10°	4954.5	4951.2	5034.1	5143.4	5292.6	5557.7	5749.9	5846.0	6207.2	6459.1	6495.6
12.5°	4666.2	4652.9	4742.4	4831.9	5067.2	5272.7	5517.9	5564.3	5978.6	6343.1	6402.8
15°	4477.3	4507.1	4513.8	4686.1	4835.2	5107.0	5299.2	5395.3	5872.5	6250.3	6479.0
17.5°	4444.2	4483.9	4487.2	4629.7	4788.8	5017.5	5186.5	5315.8	5783.0	6296.7	6482.3
20°	4510.4	4487.2	4507.1	4596.6	4752.4	4971.1	5216.3	5259.4	5753.2	6319.9	6518.8
22.5°	4699.3	4692.7	4643.0	4715.9	4825.3	5053.9	5285.9	5352.2	5839.4	6439.2	6548.6
25°	4908.1	4944.6	4898.2	4888.2	4964.5	5189.8	5498.0	5584.2	6127.7	6654.6	6641.4
27.5°	5299.2	5262.7	5262.7	5216.3	5196.4	5305.8	5726.7	5869.2	6449.2	6933.0	6747.4
30°	5673.7	5713.4	5683.6	5700.2	5567.6	5557.7	6051.5	6227.1	7019.2	7357.2	6972.8
32.5°	6266.9	6213.9	6263.6	6220.5	6044.8	5865.9	6492.2	6674.5	7708.5	7844.4	7310.8
35°	6760.7	6737.5	6949.6	6943.0	6657.9	6482.3	6959.5	7231.3	8189.0	8427.7	7708.5
37.5°	7463.3	7420.2	7662.1	7778.1	7522.9	7261.1	7629.0	7943.8	8636.4	8894.9	8116.1
40°	8185.7	8295.1	8619.9	8812.1	8540.3	8192.4	8447.5	8543.6	8934.7	9199.8	8394.5
42.5°	9100.4	9259.5	9590.9	9756.6	9733.4	9355.6	9279.4	9276.1	9150.1	9113.7	8600.0
45°	9978.6	9919.0	10429.3	10790.6	11082.2	10972.9	10081.4	9982.0	9491.5	9242.9	8653.0
47.5°	10363.1	10343.2	10691.2	11334.1	12328.3	12464.2	11247.9	10863.5	10068.1	9786.4	8941.3
50°	9866.0	9968.7	10313.4	11025.9	12550.3	13587.6	12679.6	12162.6	10740.9	10449.2	9624.0
52.5°	8242.1	8311.7	8639.8	9544.5	11794.7	14250.5	14051.6	13753.4	11977.0	11493.2	10813.8
54°	6777.3	6962.8	7141.8	8049.9	10449.2	13882.6	14803.9	14575.2	12782.3	12361.4	11562.8
55°	5902.3	6011.7	6141.0	7045.7	9518.0	13259.6	14717.7	14737.6	13322.5	12633.2	12066.5
57.5°	4311.6	4387.8	4255.3	4656.3	6535.3	10767.4	13461.7	13998.6	14051.6	13040.8	12374.7
60°	3294.2	3327.3	3178.2	3241.2	4063.0	7390.4	10412.8	11059.0	12676.3	11397.1	10482.4
62.5°	2555.1	2561.8	2558.5	2667.8	2800.4	4348.0	6512.1	7085.5	8739.2	8092.9	7118.6
65°	1882.4	1852.6	1905.6	2237.0	2389.4	2734.1	3430.1	3847.6	4749.0	4010.0	2866.7
67.5°	1219.6	1229.5	1282.5	1663.7	2048.1	2097.8	2111.1	2077.9	2081.2	1146.7	719.2
70°	732.4	749.0	732.4	941.2	1464.8	1504.6	1375.3	1342.2	1047.2	271.8	268.4
72.5°	434.1	410.9	367.9	404.3	609.8	729.1	656.2	652.9	410.9	159.1	159.1
75°	182.3	165.7	135.9	122.6	162.4	155.8	155.8	139.2	109.4	106.0	99.4
77.5°	36.5	36.5	26.5	29.8	39.8	46.4	56.3	56.3	66.3	66.3	63.0
80°	0.0	3.3	9.9	19.9	29.8	43.1	49.7	49.7	56.3	56.3	46.4
82.5°	0.0	3.3	9.9	19.9	26.5	39.8	49.7	49.7	56.3	59.7	49.7
85°	0.0	3.3	9.9	16.6	26.5	33.1	33.1	29.8	23.2	19.9	13.3
87.5°	0.0	0.0	3.3	6.6	3.3	6.6	6.6	6.6	6.6	6.6	6.6
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°	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5	6389.5
2.5°	6419.3	6416.0	6336.5	6207.2	6177.4	6068.0	6054.8	5988.5	6025.0	5902.3	5889.1
5°	6366.3	6326.5	6230.4	6147.6	5905.7	5733.3	5597.4	5431.7	5335.6	5352.2	5289.2
7.5°	6442.5	6339.8	6170.8	5882.5	5587.5	5285.9	5123.5	4785.5	4662.9	4480.6	4454.1
10°	6363.0	6286.8	6025.0	5547.7	5140.1	4706.0	4324.8	3950.4	3665.4	3542.7	3516.2
12.5°	6356.4	6223.8	5786.3	5256.1	4666.2	4043.2	3489.7	3022.4	2740.7	2581.7	2545.2
15°	6253.6	6094.6	5517.9	4805.4	3990.1	3214.6	2611.5	2160.8	1945.4	1852.6	1879.1
17.5°	6263.6	6025.0	5249.5	4328.2	3324.0	2359.6	1783.0	1551.0	1494.6	1517.8	1517.8
20°	6253.6	5869.2	4924.7	3778.0	2545.2	1637.1	1309.1	1226.2	1262.7	1335.6	1319.0
22.5°	6200.6	5796.3	4626.4	3198.1	1872.4	1212.9	1050.6	1053.9	1110.2	1199.7	1219.6
25°	6240.4	5633.9	4248.6	2611.5	1365.4	967.7	911.4	934.6	994.2	1060.5	1073.8
27.5°	6210.5	5517.9	3854.3	2028.2	997.5	831.8	828.5	855.0	881.5	931.3	931.3
30°	6243.7	5411.9	3466.5	1507.9	821.9	762.2	749.0	768.9	795.4	805.3	802.0
32.5°	6366.3	5332.3	3019.1	1126.8	725.8	696.0	696.0	696.0	692.6	705.9	709.2
35°	6634.7	5345.6	2624.7	871.6	662.8	639.6	629.7	616.4	609.8	616.4	619.7
37.5°	6926.4	5339.0	2217.1	742.3	616.4	596.5	573.3	553.4	550.1	556.8	546.8
40°	7055.6	5401.9	1839.3	666.1	573.3	550.1	513.7	497.1	500.4	507.1	500.4
42.5°	7231.3	5421.8	1594.1	606.5	533.6	497.1	473.9	454.0	450.7	460.7	457.3
45°	7228.0	5309.1	1335.6	573.3	497.1	457.3	427.5	410.9	410.9	417.6	420.9
47.5°	7440.1	5292.6	1146.7	543.5	470.6	430.8	394.4	381.1	377.8	377.8	371.2
50°	7933.9	5524.5	1000.8	510.4	437.5	401.0	371.2	354.6	341.3	334.7	331.4
52.5°	8898.3	6247.0	888.2	470.6	401.0	371.2	344.7	331.4	314.8	298.3	295.0
54°	9832.8	6992.7	881.5	437.5	371.2	351.3	328.1	321.5	301.6	278.4	271.8
55°	10253.7	7426.8	904.7	410.9	351.3	338.0	318.1	311.5	291.6	265.1	261.8
57.5°	10601.7	7595.8	891.5	341.3	318.1	314.8	298.3	288.3	265.1	228.7	222.0
60°	8533.7	5743.3	639.6	301.6	291.6	285.0	271.8	265.1	235.3	195.5	192.2
62.5°	5392.0	3304.1	407.6	265.1	255.2	245.2	228.7	222.0	195.5	155.8	145.8
65°	2296.6	1368.7	275.1	235.3	218.7	202.2	188.9	179.0	155.8	116.0	112.7
67.5°	596.5	487.2	228.7	205.5	182.3	159.1	149.1	132.6	106.0	79.5	76.2
70°	268.4	245.2	192.2	172.3	145.8	122.6	109.4	92.8	69.6	53.0	49.7
72.5°	159.1	155.8	145.8	129.2	109.4	92.8	79.5	63.0	46.4	29.8	29.8
75°	99.4	96.1	99.4	89.5	76.2	69.6	59.7	43.1	26.5	13.3	13.3
77.5°	59.7	59.7	59.7	56.3	53.0	53.0	43.1	26.5	13.3	3.3	3.3
80°	46.4	46.4	49.7	46.4	46.4	46.4	36.5	19.9	6.6	0.0	0.0
82.5°	46.4	49.7	56.3	53.0	46.4	39.8	33.1	19.9	6.6	0.0	0.0
85°	13.3	9.9	16.6	23.2	33.1	29.8	23.2	16.6	6.6	0.0	0.0
87.5°	6.6	6.6	6.6	6.6	3.3	3.3	3.3	3.3	3.3	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)