

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: P647053

Luminaire Tested: **GALN-SA7C-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647053
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-SA7C-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA 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: 22422 lumens
Efficiency: N/A
Efficacy: 59.5 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

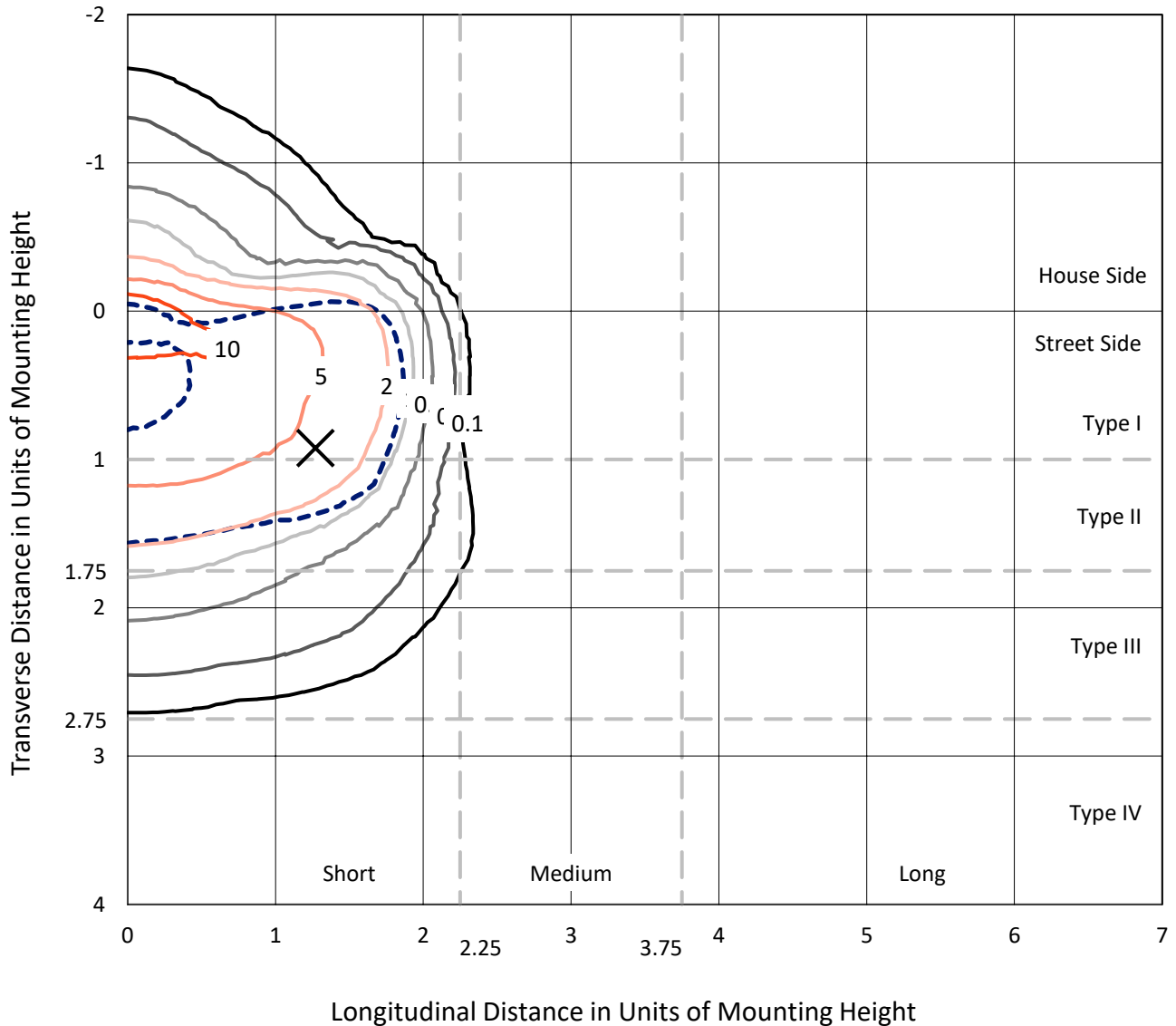
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

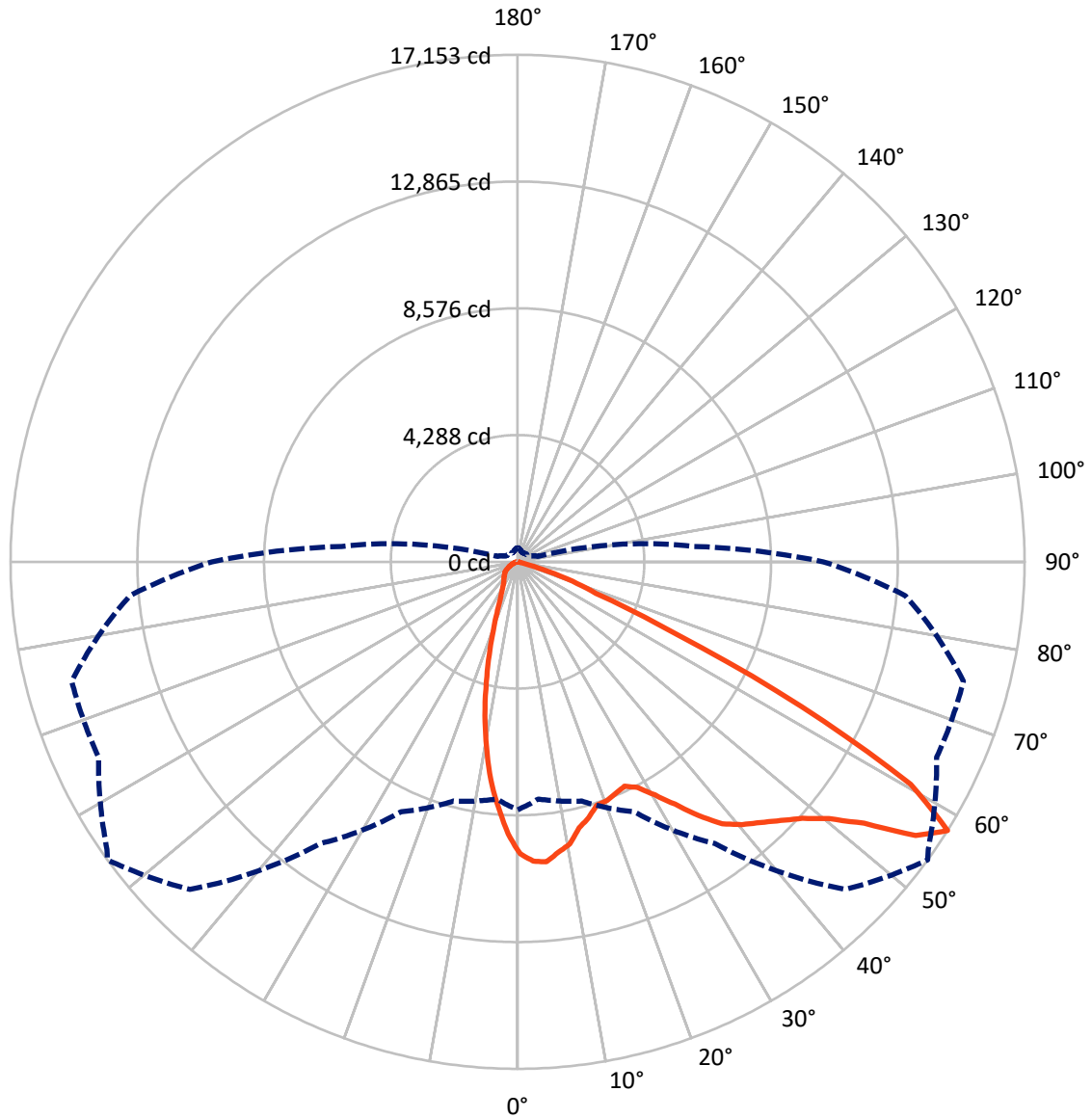
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	3168.6	0.0	3168.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19253.4	0.0	19253.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	22422.0	0.0	22422.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.5	3.7
10°-20°	1764.7	7.9
20°-30°	2338.5	10.4
30°-40°	3398.5	15.2
40°-50°	5039.5	22.5
50°-60°	6301.7	28.1
60°-70°	2485.7	11.1
70°-80°	247.5	1.1
80°-90°	19.2	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°	22422.0	100.0
0°-180°	22422.0	100.0



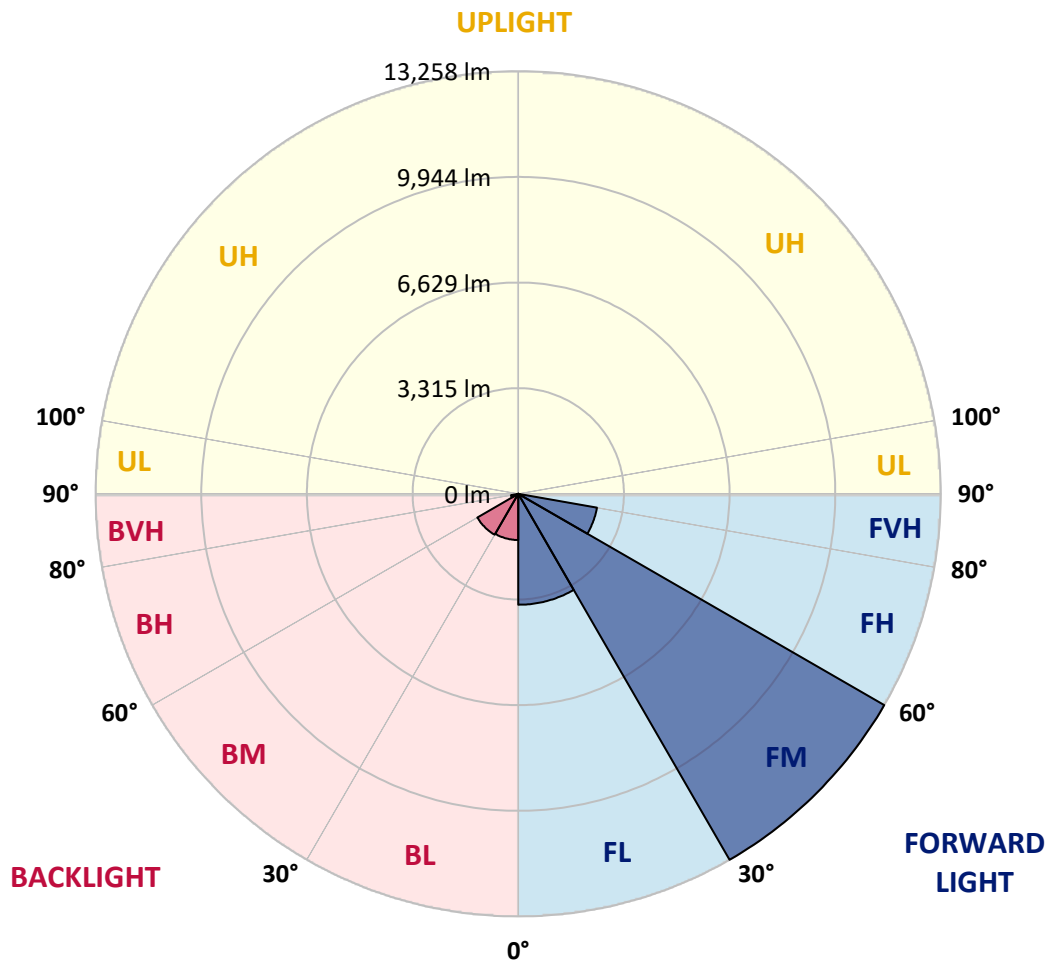
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3480.5	15.5			
FM (30°-60°)	13258.1	59.1			
FH (60°-80°)	2506.0	11.2			G2/5000
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	1449.2	6.5	B3/2500		
BM (30°-60°)	1481.7	6.6	B2/2500		
BH (60°-80°)	227.2	1.0	B1/500		G1/500
BVH (80°-90°)	10.5	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°	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2
2.5°	10452.6	10344.1	10352.5	10315.0	10265.0	10302.5	10139.8	10177.4	10173.2	9952.2	9806.3
5°	10189.9	10306.6	10185.7	10285.8	10189.9	10294.1	10194.0	10119.0	9998.1	9835.5	9564.5
7.5°	9743.7	9631.2	9664.6	9789.6	9810.4	10043.9	9918.9	10014.8	9964.8	9643.7	9272.6
10°	8847.4	8822.4	8989.2	9155.9	9360.2	9610.4	9706.2	9652.0	9614.5	9493.6	8997.5
12.5°	8159.4	8230.3	8226.1	8501.3	8847.4	8989.2	9239.2	9230.9	9439.4	9214.3	8739.0
15°	7504.8	7542.3	7717.5	7888.4	8272.0	8676.4	8984.9	9026.7	9276.8	9118.3	8538.8
17.5°	7104.6	7050.4	7187.9	7392.2	7784.2	8313.7	8655.6	8755.7	9097.5	9064.2	8309.5
20°	6708.5	6708.5	6821.0	7062.9	7421.4	8017.7	8626.4	8597.2	9097.5	9001.6	8063.5
22.5°	6575.1	6641.8	6670.9	6854.4	7279.7	7792.5	8501.3	8555.5	9168.4	8972.5	7955.1
25°	6758.5	6670.9	6679.3	6825.3	7225.4	7684.1	8409.6	8530.5	9297.7	9118.3	7867.6
27.5°	6787.7	6875.3	6900.3	7000.3	7267.2	7717.5	8638.9	8884.9	9618.7	9460.3	7892.6
30°	7042.1	7129.6	7125.4	7296.4	7479.8	7988.5	9151.7	9201.7	10281.7	9889.7	8046.8
32.5°	7350.6	7442.3	7471.5	7671.6	7817.6	8484.6	9777.1	9906.4	10919.6	10565.1	8451.2
35°	7734.2	7700.8	7834.2	8034.4	8347.0	9210.1	10540.1	10756.9	11607.5	11440.7	8868.2
37.5°	8213.6	8171.9	8301.2	8626.4	9051.6	10069.0	11244.7	11386.5	12107.8	12253.7	9639.5
40°	8551.3	8568.0	8959.9	9397.7	9848.0	10886.2	11690.8	11828.5	12458.0	13012.5	10223.2
42.5°	9114.2	9218.4	9689.5	10223.2	10694.4	11499.1	12053.6	12187.0	12620.6	13621.2	11011.3
45°	9931.4	9885.5	10406.7	11003.0	11524.1	12137.0	12483.1	12437.2	12716.5	14225.9	11507.4
47.5°	10982.0	10990.4	11336.4	11845.1	12387.1	12691.5	12962.5	12799.9	12916.7	14863.8	12170.3
50°	11699.2	11761.8	12041.1	12562.2	12833.3	13300.2	13646.3	13546.2	13508.7	15247.3	12587.3
52.5°	11882.7	12070.3	12220.4	12870.8	13504.6	14242.5	14684.5	14897.0	14230.0	15376.6	13116.7
55°	10498.4	10665.2	11194.7	12086.9	13758.9	15735.1	16343.9	16348.0	15172.3	15951.9	13487.9
57.5°	8392.9	8055.2	8380.4	9326.9	11632.5	15672.6	17152.7	16956.7	15643.4	15614.2	13166.8
60°	5803.8	5720.4	5741.2	6116.4	8051.0	12466.4	15284.9	15539.2	14405.1	13533.7	10423.4
62.5°	4598.8	4527.9	4436.2	4394.5	4999.1	7767.5	10781.9	11140.5	10073.1	8776.5	6179.0
65°	3602.3	3560.6	3573.1	3739.9	3735.8	4407.0	5895.4	5749.6	4602.9	3402.2	1942.9
67.5°	2430.7	2493.3	2543.3	3047.8	3306.3	3068.7	2847.7	2764.3	1496.8	629.6	429.5
70°	1367.5	1375.9	1430.1	1905.4	2510.0	2380.7	1963.8	1963.8	746.3	229.3	246.0
72.5°	746.3	721.3	671.3	821.4	1117.4	1134.1	875.6	763.0	221.0	150.1	137.6
75°	362.8	358.5	308.5	254.3	241.8	200.1	154.3	141.7	100.1	95.9	83.4
77.5°	75.0	70.9	37.5	37.5	41.7	45.9	58.3	58.3	70.9	70.9	58.3
80°	0.0	0.0	4.1	16.7	29.2	41.7	50.0	50.0	58.3	58.3	45.9
82.5°	0.0	0.0	4.1	12.5	25.0	37.5	45.9	50.0	58.3	62.6	50.0
85°	0.0	0.0	0.0	8.3	20.8	29.2	25.0	25.0	20.8	16.7	8.3
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°	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2	9877.2
2.5°	9731.3	9722.9	9531.1	9422.7	9226.8	9055.9	8918.2	8818.1	8818.1	8755.7	8697.3
5°	9456.1	9385.2	8976.6	8713.9	8342.9	8067.7	7880.0	7734.2	7504.8	7567.4	7321.4
7.5°	9114.2	8934.9	8392.9	7992.6	7479.8	7087.9	6687.6	6333.2	5991.4	5837.1	5920.5
10°	8747.3	8434.6	7705.0	7071.2	6433.3	5716.2	5249.2	4682.2	4331.9	4311.1	4219.4
12.5°	8359.5	8005.2	7117.1	6241.5	5403.5	4540.4	3827.5	3297.9	3060.3	2797.7	2847.7
15°	8067.7	7542.3	6462.5	5407.6	4294.4	3423.0	2705.9	2297.3	2072.1	2009.6	1988.7
17.5°	7750.8	7187.9	5795.4	4519.6	3368.9	2464.1	1947.1	1751.1	1663.6	1663.6	1651.0
20°	7421.4	6787.7	5132.5	3694.0	2526.7	1838.7	1559.3	1496.8	1492.6	1488.5	1488.5
22.5°	7204.6	6329.1	4532.1	2935.2	1905.4	1471.8	1355.1	1330.0	1346.7	1396.7	1396.7
25°	6975.4	5887.1	3869.2	2264.0	1476.0	1263.3	1196.6	1213.3	1255.0	1300.8	1284.2
27.5°	6741.9	5599.5	3243.7	1776.2	1209.1	1104.9	1079.8	1117.4	1163.2	1205.0	1192.4
30°	6687.6	5290.9	2651.7	1346.7	1038.2	963.1	979.8	1013.1	1059.0	1075.7	1092.4
32.5°	6771.0	5049.1	2172.2	1104.9	904.8	883.9	883.9	900.6	929.7	967.3	954.8
35°	7008.7	4911.5	1717.7	958.9	829.7	808.8	804.7	821.4	838.0	850.6	838.0
37.5°	7371.4	4803.1	1405.1	850.6	779.6	746.3	738.0	733.8	750.5	754.7	763.0
40°	7834.2	4861.5	1192.4	783.9	729.6	692.1	667.1	667.1	667.1	679.6	683.8
42.5°	8334.6	4940.7	1029.8	746.3	683.8	637.9	612.9	604.6	612.9	629.6	625.4
45°	8859.9	5095.0	925.6	687.9	642.1	583.7	550.4	542.0	562.9	596.3	592.0
47.5°	9351.8	5315.9	846.3	650.4	600.4	546.2	504.5	496.2	533.7	579.6	583.7
50°	9843.8	5699.5	817.2	621.2	571.2	508.6	471.1	462.8	504.5	562.9	575.3
52.5°	10410.8	6112.3	796.3	583.7	537.8	479.5	437.8	429.5	475.3	550.4	554.5
55°	10781.9	6462.5	779.6	517.0	475.3	433.6	400.3	396.1	446.2	512.9	529.5
57.5°	10348.4	5974.7	721.3	450.3	404.4	383.6	354.4	354.4	396.1	458.6	471.1
60°	7846.7	3931.7	512.9	362.8	341.9	329.4	316.9	316.9	350.2	396.1	400.3
62.5°	4594.6	2118.0	329.4	291.8	291.8	279.4	258.5	258.5	291.8	316.9	321.0
65°	1363.4	679.6	266.8	250.2	246.0	225.1	204.3	200.1	225.1	237.6	233.5
67.5°	391.9	312.7	221.0	208.4	204.3	170.9	158.4	154.3	158.4	150.1	146.0
70°	233.5	212.7	170.9	175.1	154.3	125.0	112.6	108.4	100.1	87.5	79.2
72.5°	129.3	129.3	125.0	133.4	108.4	83.4	70.9	58.3	45.9	37.5	33.4
75°	79.2	83.4	87.5	91.7	70.9	54.2	45.9	29.2	16.7	8.3	8.3
77.5°	54.2	58.3	62.6	66.7	58.3	50.0	37.5	20.8	4.1	0.0	0.0
80°	41.7	45.9	54.2	58.3	62.6	66.7	50.0	20.8	4.1	0.0	0.0
82.5°	45.9	50.0	62.6	58.3	58.3	58.3	45.9	20.8	4.1	0.0	0.0
85°	8.3	12.5	20.8	20.8	29.2	37.5	29.2	8.3	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)