

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: P456239

Luminaire Tested: **GALN-SA7C-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30614 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

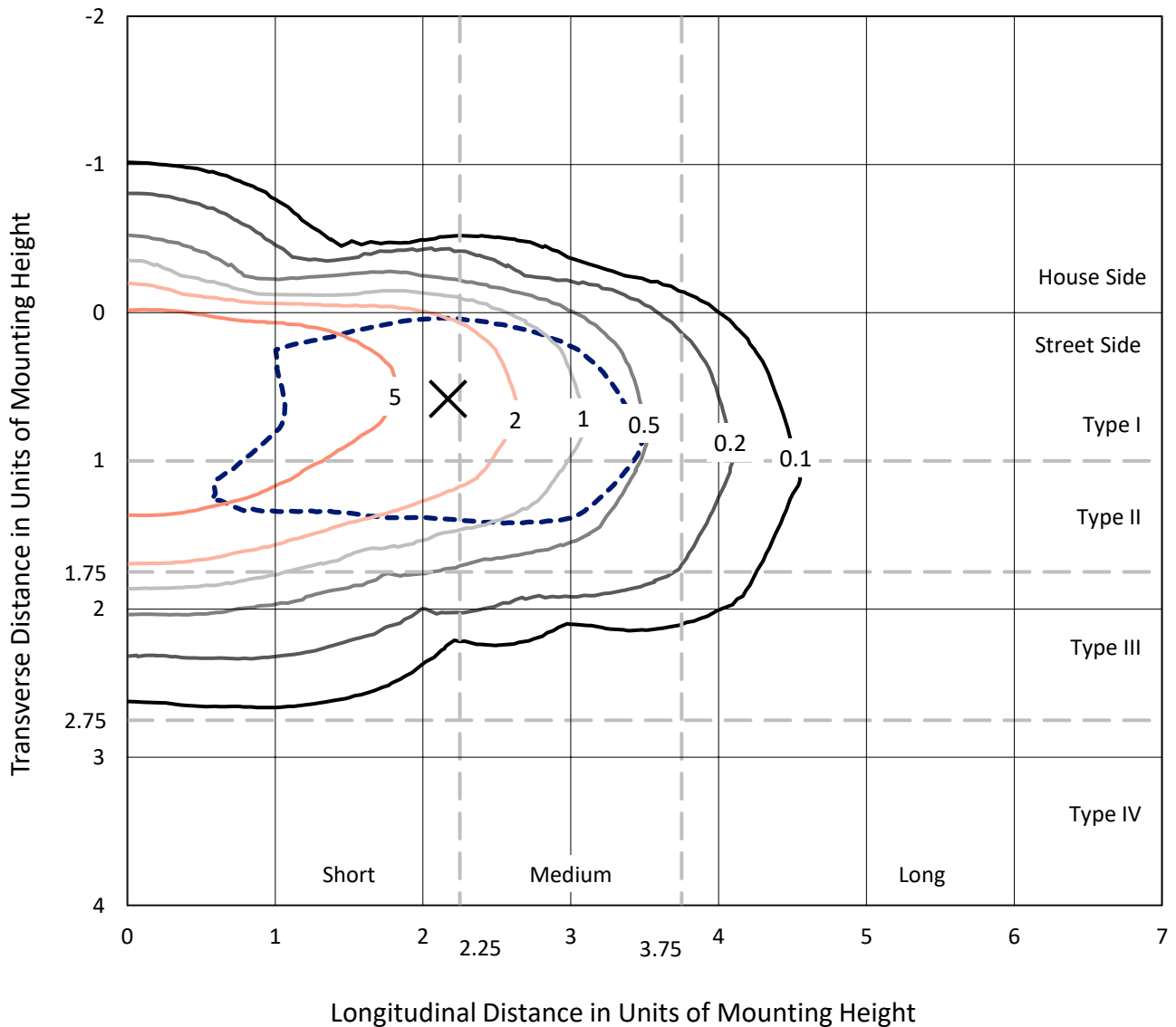
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

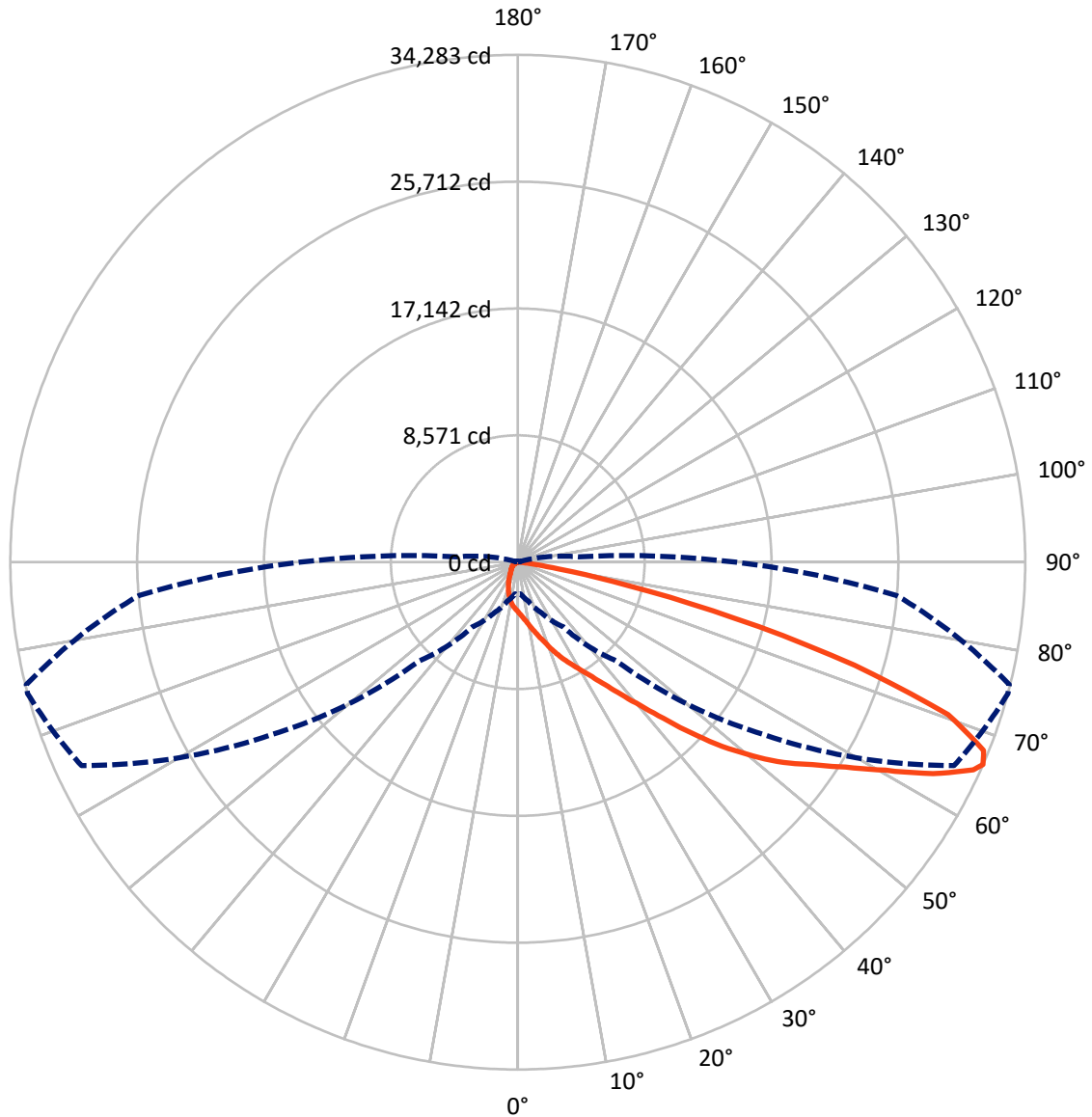
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1890.0	0.0	1890.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	28724.0	0.0	28724.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	30614.0	0.0	30614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.9	1.1
10°-20°	950.4	3.1
20°-30°	1641.0	5.4
30°-40°	2960.1	9.7
40°-50°	5347.5	17.5
50°-60°	8336.8	27.2
60°-70°	7919.6	25.9
70°-80°	2968.1	9.7
80°-90°	167.5	0.5
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°	30614.0	100.0
0°-180°	30614.0	100.0

Coefficient of Utilization



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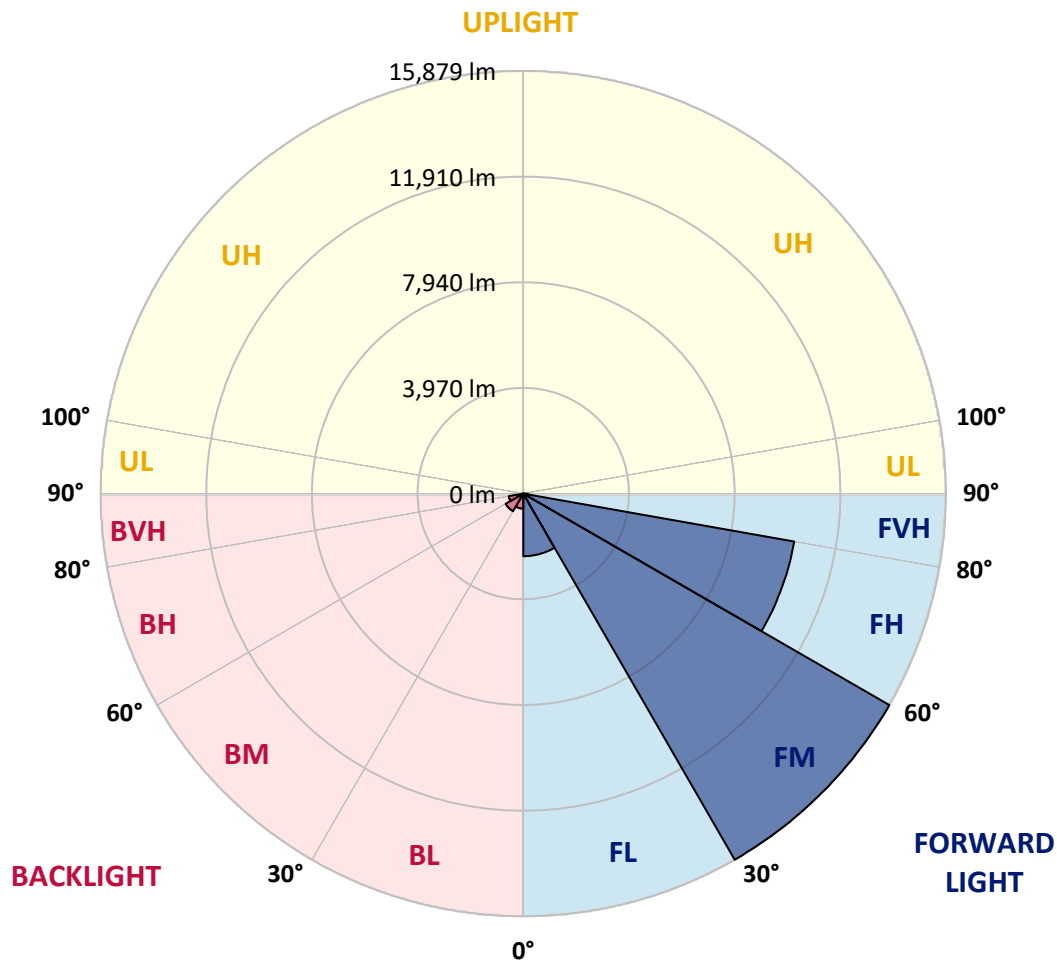
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2349.9	7.7			
FM (30°-60°)	15879.5	51.9			
FH (60°-80°)	10335.8	33.8			G4/12000
FVH (80°-90°)	158.8	0.5			G2/225
BL (0°-30°)	564.4	1.8	B2/1000		
BM (30°-60°)	765.0	2.5	B1/1000		
BH (60°-80°)	551.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9
2.5°	3999.9	3950.1	3965.9	3943.3	3891.2	3814.3	3746.3	3649.0	3551.7	3535.8	3427.2
5°	4527.3	4513.7	4495.6	4430.0	4393.8	4276.0	4135.7	3968.2	3766.7	3730.5	3533.6
7.5°	4887.2	4880.4	4889.5	4855.5	4823.8	4717.5	4568.1	4339.4	4027.0	4006.7	3678.4
10°	5004.9	5023.0	5057.0	5111.3	5161.1	5127.2	5014.0	4728.8	4364.3	4305.5	3843.7
12.5°	4937.0	4957.4	5038.9	5183.8	5344.5	5437.3	5392.0	5183.8	4722.0	4674.4	4029.3
15°	4762.7	4787.6	4903.1	5127.2	5414.7	5677.2	5790.4	5641.0	5138.5	5061.5	4253.4
17.5°	4504.7	4540.9	4706.1	5002.7	5396.5	5849.3	6168.5	6118.7	5582.2	5509.7	4497.9
20°	4310.0	4337.2	4477.5	4817.1	5319.6	5944.4	6528.4	6668.7	6130.0	6005.5	4785.4
22.5°	4439.0	4448.1	4495.6	4699.3	5181.5	5969.3	6845.3	7241.4	6711.7	6600.8	5084.2
25°	5070.6	4980.0	4932.5	4887.2	5152.1	5946.6	7132.8	7839.0	7291.2	7173.5	5380.7
27.5°	6066.6	6025.8	5785.9	5464.5	5403.3	5976.0	7322.9	8404.9	7836.8	7710.0	5670.5
30°	7150.9	7080.7	6933.6	6462.7	5989.6	6184.3	7461.0	8955.0	8481.9	8314.4	5935.3
32.5°	8146.9	8192.2	7972.6	7488.2	6940.4	6628.0	7639.8	9554.9	9222.1	9013.9	6243.2
35°	9308.1	9398.7	9061.4	8597.4	7956.7	7429.3	7988.4	10231.7	10161.5	9899.0	6718.5
37.5°	10487.5	10541.8	10335.8	9683.9	9106.7	8448.0	8644.9	11067.0	11318.3	11094.2	7286.7
40°	11479.0	11553.7	11402.0	10822.5	10206.8	9627.3	9597.9	11977.0	12694.6	12463.7	8133.3
42.5°	12237.3	12293.9	12298.4	11888.7	11334.1	11071.5	10813.5	13138.2	14419.5	14152.4	9115.7
45°	13194.8	13276.3	13228.8	12950.4	12536.1	12488.6	12355.0	14541.7	16483.9	16146.6	10390.2
47.5°	14675.3	14729.6	14611.9	14283.7	13862.6	13937.3	13858.1	16114.9	18589.1	18299.4	11709.9
50°	15703.0	15793.5	15961.0	16092.3	15786.7	15510.6	15275.1	17584.1	20587.9	20327.6	13059.0
52.5°	15691.6	15841.0	16370.7	17031.7	17699.5	17615.8	16938.9	19207.1	22496.2	22174.7	14326.7
55°	14634.5	14924.3	15703.0	16875.5	18724.9	19646.2	19338.4	21085.9	24144.1	23926.8	15795.8
57.5°	12452.4	12628.9	13710.9	15349.8	18152.2	20601.5	22118.2	23632.5	26120.3	26018.4	18077.5
60°	8375.5	8454.7	9846.9	11872.9	15454.0	19648.5	24155.4	26713.4	28553.7	28503.9	20741.9
62.5°	4798.9	4832.9	5842.5	7551.5	10996.8	16651.4	24327.5	30514.0	31471.6	31498.7	23825.0
65°	2582.8	2600.9	3415.9	4432.2	6691.4	11868.3	21875.9	32596.6	33830.3	33882.4	25735.5
66°	2229.7	2143.7	2718.6	3778.0	5324.1	9446.2	20325.3	32521.9	34283.0	34226.4	25667.6
67.5°	1695.5	1772.4	2170.8	2904.3	3945.5	6716.3	16780.5	31075.4	33939.0	33762.4	24624.0
70°	1213.3	1245.0	1546.1	2071.2	2687.0	3685.2	10722.9	25810.2	30846.8	30609.1	21452.6
72.5°	783.2	817.2	1095.6	1498.5	1942.2	2012.4	6003.2	18648.0	23781.9	23748.0	16155.7
75°	559.1	590.8	724.4	1073.0	1460.1	1245.0	2890.7	12567.8	15118.9	15017.1	9994.0
77.5°	405.2	421.0	484.4	701.7	1043.5	891.9	1340.1	6711.7	7526.6	7882.0	4416.4
80°	233.2	246.7	337.3	427.8	706.3	608.9	640.6	2693.7	2777.5	2643.9	1380.8
82.5°	115.4	131.3	201.5	292.0	441.4	409.7	294.3	810.4	855.7	833.0	348.6
85°	27.2	34.0	113.2	192.4	215.0	183.4	142.6	237.7	294.3	287.5	133.6
87.5°	2.3	4.5	40.7	34.0	36.2	61.1	49.8	61.1	95.1	88.3	47.5
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°	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9	3347.9
2.5°	3377.4	3334.4	3209.9	3087.6	2985.8	2879.4	2782.0	2725.4	2702.8	2677.9	2689.2
5°	3424.9	3320.8	3069.5	2852.2	2639.4	2458.3	2313.5	2220.6	2175.4	2168.6	2157.3
7.5°	3488.3	3309.5	2920.1	2580.6	2302.1	2100.7	1935.4	1801.9	1761.1	1724.9	1695.5
10°	3565.3	3289.1	2734.5	2295.3	1998.8	1745.3	1528.0	1369.5	1288.0	1265.4	1281.2
12.5°	3646.7	3250.6	2539.8	2032.8	1690.9	1367.2	1165.8	1086.6	1063.9	1054.9	1057.1
15°	3728.2	3203.1	2336.1	1779.2	1346.9	1091.1	998.3	977.9	968.8	964.3	959.8
17.5°	3802.9	3126.1	2107.5	1532.5	1091.1	932.6	898.7	880.6	862.5	855.7	844.3
20°	3891.2	3037.8	1901.5	1256.3	923.6	844.3	803.6	769.6	742.5	724.4	722.1
22.5°	3975.0	2924.6	1686.4	1041.3	842.1	758.3	692.7	656.5	624.8	602.1	608.9
25°	4020.2	2786.6	1494.0	907.7	767.4	672.3	599.9	554.6	520.6	509.3	507.1
27.5°	4020.2	2616.8	1306.1	830.8	699.5	595.3	520.6	477.6	455.0	439.1	441.4
30°	3988.6	2428.9	1131.8	771.9	640.6	527.4	457.3	418.8	400.7	389.3	387.1
32.5°	3963.7	2250.1	982.4	715.3	579.5	468.6	407.5	378.0	359.9	348.6	348.6
35°	4002.1	2096.1	867.0	658.7	522.9	423.3	369.0	341.8	323.7	314.6	312.4
37.5°	4104.0	1955.8	778.7	597.6	470.8	384.8	341.8	310.1	292.0	280.7	276.2
40°	4355.3	1876.6	713.1	541.0	421.0	353.1	310.1	280.7	258.1	246.7	244.5
42.5°	4758.2	1878.8	649.7	488.9	382.6	326.0	283.0	249.0	224.1	212.8	210.5
45°	5364.9	1964.9	599.9	439.1	348.6	296.5	253.5	217.3	194.7	183.4	183.4
47.5°	6091.5	2132.4	556.9	396.1	316.9	269.4	224.1	187.9	165.2	156.2	156.2
50°	6879.2	2349.7	513.8	350.9	289.7	239.9	192.4	163.0	144.9	138.1	138.1
52.5°	7682.8	2612.3	470.8	314.6	260.3	208.3	165.2	144.9	129.0	124.5	122.2
55°	8737.7	2947.3	425.6	276.2	228.6	178.8	147.1	126.8	108.7	101.9	99.6
57.5°	10360.7	3452.1	375.8	242.2	187.9	149.4	126.8	106.4	86.0	74.7	72.4
60°	12318.8	4067.8	323.7	212.8	151.7	122.2	101.9	81.5	63.4	49.8	47.5
62.5°	14152.4	4459.4	273.9	178.8	120.0	92.8	72.4	61.1	45.3	31.7	29.4
65°	14962.7	4328.1	226.4	144.9	95.1	65.6	47.5	43.0	27.2	13.6	11.3
66°	14693.4	4133.4	208.3	131.3	86.0	56.6	40.7	36.2	20.4	6.8	6.8
67.5°	13898.8	3673.9	181.1	113.2	74.7	45.3	31.7	27.2	11.3	2.3	0.0
70°	11909.1	2972.2	142.6	83.8	54.3	31.7	18.1	13.6	6.8	0.0	0.0
72.5°	9147.4	2213.9	113.2	63.4	38.5	18.1	9.1	4.5	6.8	0.0	0.0
75°	5604.8	1265.4	88.3	47.5	24.9	11.3	6.8	0.0	6.8	2.3	0.0
77.5°	2487.8	568.2	58.9	31.7	18.1	9.1	4.5	0.0	4.5	2.3	0.0
80°	629.3	185.6	34.0	22.6	13.6	6.8	2.3	0.0	4.5	4.5	2.3
82.5°	172.0	67.9	24.9	18.1	11.3	6.8	2.3	0.0	4.5	4.5	4.5
85°	67.9	31.7	22.6	18.1	13.6	6.8	2.3	0.0	4.5	4.5	4.5
87.5°	31.7	22.6	22.6	20.4	15.8	6.8	2.3	0.0	4.5	2.3	4.5
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)