

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: P451746

Luminaire Tested: **GALN-SA2C-827-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451746  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8321 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

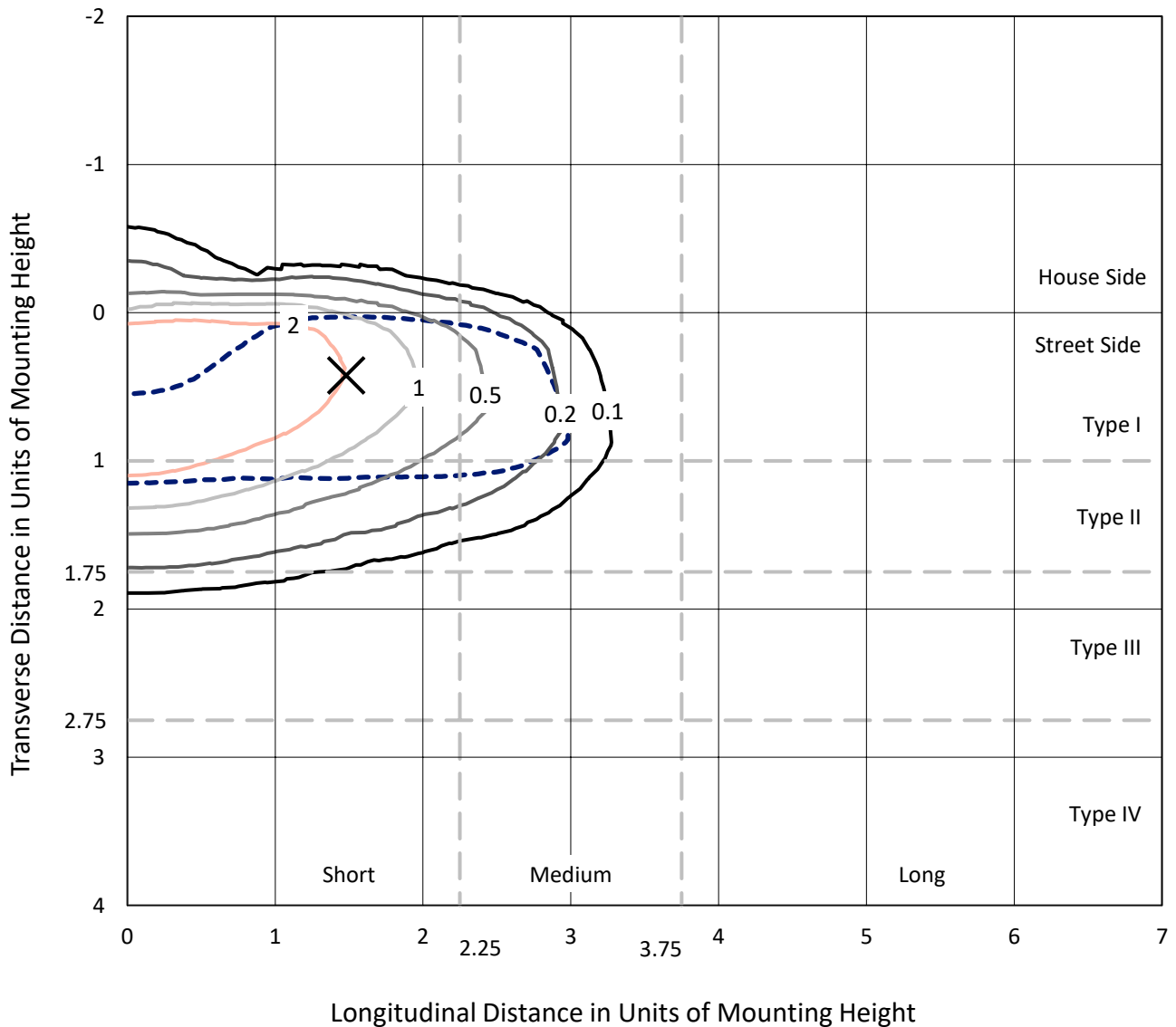
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

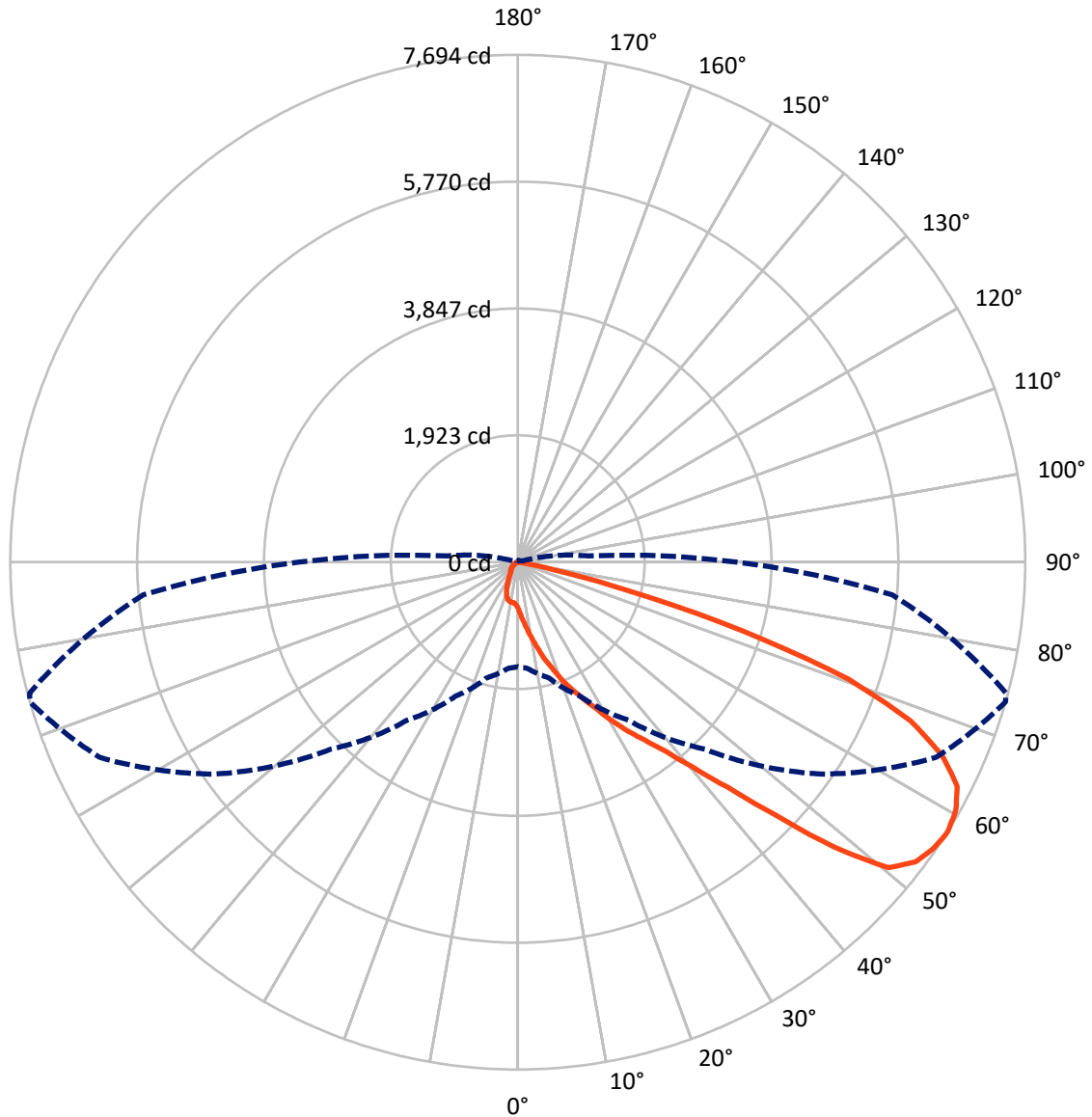
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	479.9	0.0	479.9
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	7841.1	0.0	7841.1
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	8321.0	0.0	8321.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	1.0
10°-20°	331.5	4.0
20°-30°	709.4	8.5
30°-40°	1303.9	15.7
40°-50°	1998.9	24.0
50°-60°	2114.6	25.4
60°-70°	1380.9	16.6
70°-80°	377.3	4.5
80°-90°	20.3	0.2
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°	8321.0	100.0
0°-180°	8321.0	100.0

**Coefficient of Utilization**



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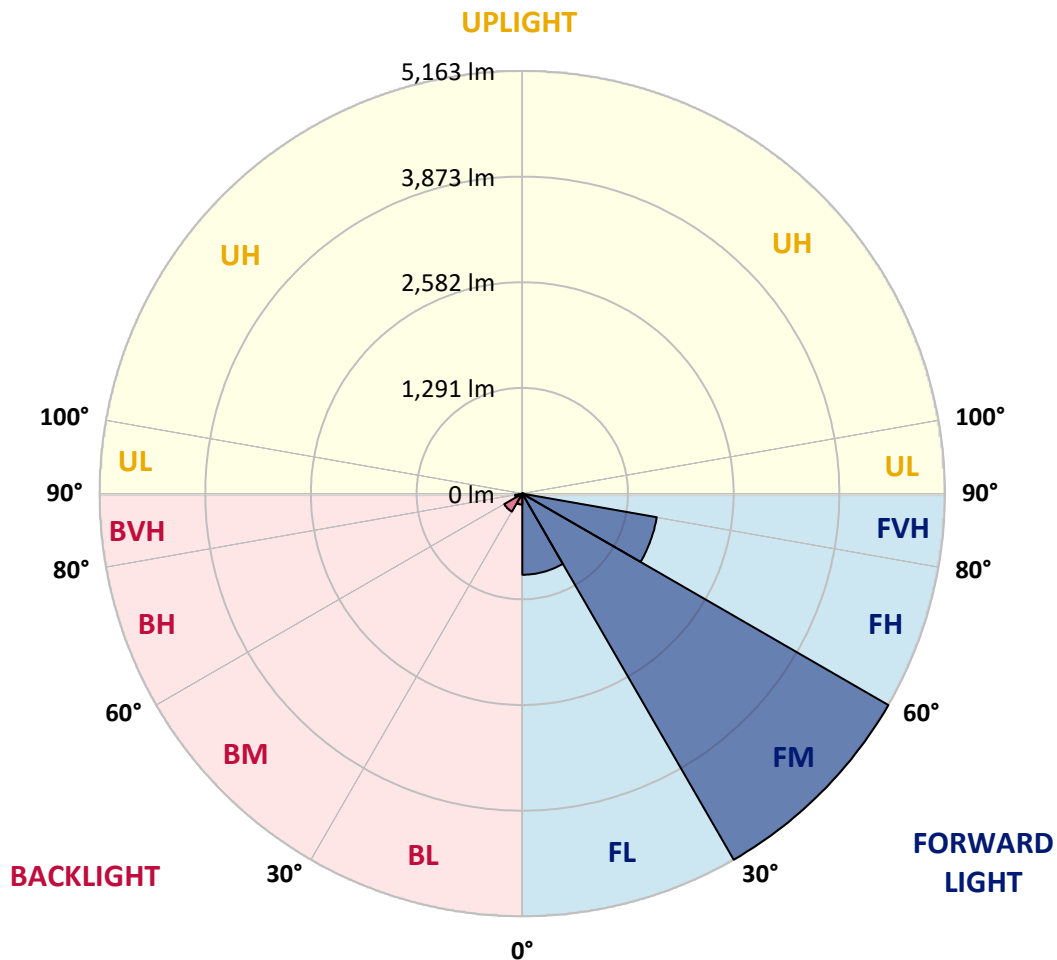
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.0	11.9			
FM (30°-60°)	5163.3	62.1			
FH (60°-80°)	1668.1	20.0			G1/1800
FVH (80°-90°)	18.6	0.2			G1/100
BL (0°-30°)	134.1	1.6	B1/500		
BM (30°-60°)	254.1	3.1	B1/1000		
BH (60°-80°)	90.1	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	1019.7	1010.6	992.2	985.8	958.8	916.9	880.1	830.7	791.7	787.6	740.5
5°	1365.6	1344.9	1336.3	1294.9	1230.0	1169.1	1064.6	985.3	893.9	887.0	792.2
7.5°	1698.8	1670.1	1661.5	1622.4	1546.6	1450.6	1315.0	1170.8	1026.1	1012.8	861.8
10°	1940.1	1944.1	1928.6	1902.8	1841.3	1743.6	1576.4	1379.4	1173.1	1156.5	939.9
12.5°	2113.0	2112.4	2115.3	2114.7	2082.0	2007.9	1832.1	1605.2	1335.1	1302.4	1029.5
15°	2225.6	2227.4	2236.0	2265.8	2269.3	2223.3	2076.8	1821.2	1523.0	1482.2	1126.6
17.5°	2339.4	2351.4	2365.2	2393.4	2418.7	2400.3	2296.9	2046.4	1693.1	1662.6	1230.6
20°	2527.2	2543.9	2535.9	2553.1	2566.3	2568.0	2488.2	2254.4	1899.3	1848.2	1349.5
22.5°	2827.7	2827.1	2806.5	2775.4	2749.6	2748.4	2676.0	2468.1	2086.6	2037.2	1469.0
25°	3207.5	3209.2	3169.0	3080.5	3016.1	2937.4	2854.1	2655.4	2287.1	2226.2	1594.8
27.5°	3642.9	3632.0	3571.1	3449.3	3321.8	3187.3	3067.3	2873.1	2499.7	2449.1	1739.0
30°	4034.2	4030.1	3958.9	3810.1	3642.4	3507.3	3333.3	3146.0	2774.9	2712.8	1900.5
32.5°	4398.4	4404.1	4305.3	4151.4	3989.4	3833.7	3649.8	3406.8	3044.9	2957.0	2076.3
35°	4682.8	4688.5	4586.3	4458.1	4291.5	4162.3	3987.1	3684.9	3311.4	3237.3	2278.5
37.5°	4834.4	4841.9	4782.7	4686.2	4582.2	4517.3	4354.2	4042.8	3635.5	3590.6	2517.5
40°	4863.2	4871.8	4845.9	4820.1	4814.3	4860.9	4813.2	4464.5	4084.7	4014.6	2873.7
42.5°	4777.0	4788.5	4800.0	4857.4	4974.6	5145.3	5311.3	5036.7	4663.2	4569.0	3309.1
45°	4550.6	4549.5	4594.9	4743.7	5006.2	5370.5	5831.8	5753.1	5451.5	5339.4	3924.4
47.5°	4163.4	4157.7	4255.9	4467.9	4877.0	5411.8	6256.3	6622.9	6457.4	6354.0	4585.7
50°	3573.4	3601.6	3756.1	4052.0	4555.8	5286.6	6387.3	7193.4	7283.0	7173.3	5120.0
52.5°	2882.3	2881.1	3123.6	3525.2	4080.1	5010.8	6296.0	7296.8	7551.3	7467.4	5383.1
55°	2133.1	2148.1	2400.3	2805.3	3462.5	4507.6	5997.8	7190.5	7653.5	7594.4	5556.6
57°	1586.8	1613.2	1815.4	2244.0	2924.8	4009.5	5600.8	7000.3	7693.8	7661.6	5700.8
57.5°	1481.1	1482.2	1679.3	2068.8	2767.4	3818.2	5487.1	6921.0	7692.6	7674.8	5724.4
60°	911.7	940.5	1076.6	1398.3	2025.7	2980.0	4724.7	6465.5	7632.9	7658.7	5824.9
62.5°	545.8	557.8	646.3	842.8	1305.8	2175.1	3866.4	5882.3	7477.2	7555.9	5818.0
65°	351.0	353.9	394.1	510.2	816.4	1470.2	2979.4	5111.9	7074.4	7219.2	5590.5
67.5°	271.2	275.8	291.8	334.9	473.4	915.8	2107.3	4289.8	6423.0	6609.7	5039.0
70°	240.7	243.0	248.8	262.5	313.1	517.1	1311.0	3351.1	5326.2	5379.1	3943.4
72.5°	196.5	202.8	220.6	225.2	248.2	322.9	729.6	2249.2	3578.6	3591.8	2206.1
75°	152.2	153.4	179.8	193.0	209.1	222.3	325.7	1134.1	1718.9	1627.0	850.3
77.5°	113.8	118.9	131.0	147.6	170.6	159.1	145.9	427.4	533.7	523.9	247.0
80°	73.0	75.8	91.3	110.9	132.7	104.0	82.2	125.2	117.2	120.6	59.2
82.5°	36.8	37.3	58.6	90.2	84.5	52.3	51.7	51.1	43.7	43.1	27.6
85°	4.0	8.6	37.9	51.7	37.9	17.2	24.1	23.6	23.0	23.6	16.1
87.5°	0.6	0.6	6.3	7.5	5.2	5.7	6.9	7.5	9.2	8.6	6.9
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°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	717.6	694.6	652.1	611.3	580.8	561.3	536.0	526.8	513.6	511.9	505.6
5°	748.6	704.9	630.8	572.2	525.1	489.5	458.5	432.6	411.9	407.3	409.6
7.5°	792.8	727.9	624.5	544.6	479.1	418.2	368.8	338.4	316.6	308.5	309.7
10°	842.8	758.3	623.3	515.3	415.4	340.7	286.7	259.7	247.0	242.4	237.3
12.5°	902.0	793.4	620.5	469.9	345.3	271.7	233.2	217.2	205.1	201.7	201.7
15°	968.6	830.7	606.7	413.6	280.4	224.6	198.8	186.1	182.1	178.7	178.7
17.5°	1038.1	867.5	578.0	344.1	232.7	192.5	176.4	168.9	163.2	159.1	159.1
20°	1117.4	903.7	532.0	282.7	196.5	171.8	159.1	150.5	145.9	142.5	141.3
22.5°	1192.7	933.0	473.4	232.1	171.2	154.5	143.1	133.9	129.3	127.5	127.5
25°	1270.8	950.8	402.7	191.9	156.3	140.2	127.5	120.1	116.0	114.9	114.3
27.5°	1346.6	961.1	340.7	167.8	142.5	127.0	114.9	109.2	105.1	104.0	104.6
30°	1438.6	962.9	280.4	150.5	130.4	114.3	103.4	98.2	95.9	94.8	94.2
32.5°	1531.6	960.6	235.5	140.2	118.9	103.4	94.2	90.2	88.5	86.8	86.8
35°	1636.2	948.5	200.5	129.8	108.0	94.2	86.2	82.7	80.4	78.7	78.1
37.5°	1766.0	942.2	180.4	118.3	98.2	85.6	78.1	74.7	73.0	70.7	70.1
40°	1970.5	970.3	174.1	108.0	88.5	77.6	70.7	66.6	64.3	62.0	61.5
42.5°	2225.6	1019.7	163.7	97.7	79.9	70.1	63.2	58.6	54.6	51.7	50.6
45°	2556.0	1084.7	147.6	86.8	72.4	62.0	55.7	50.0	44.8	42.5	41.9
47.5°	2902.4	1147.3	133.3	78.1	64.3	55.2	48.3	41.9	37.3	35.6	35.0
50°	3115.0	1159.9	124.1	68.4	56.3	47.7	40.8	35.0	32.2	30.4	30.4
52.5°	3212.0	1139.8	111.5	59.7	48.8	41.9	35.0	30.4	28.7	27.6	27.0
55°	3279.8	1108.8	94.8	51.7	41.9	35.6	31.0	27.6	25.3	24.1	23.6
57°	3319.5	1066.9	82.2	45.4	36.2	31.0	27.6	24.7	22.4	20.1	20.1
57.5°	3321.2	1050.8	78.7	44.8	34.5	29.9	27.0	24.1	21.3	19.0	18.4
60°	3270.1	940.5	63.2	37.9	27.6	25.3	22.4	19.0	14.9	12.6	12.1
62.5°	3105.8	800.3	52.3	32.2	22.4	19.5	16.1	14.4	10.3	7.5	7.5
65°	2857.0	649.2	44.8	25.9	18.4	14.4	10.9	10.3	6.3	3.4	2.9
67.5°	2497.4	505.6	37.9	21.3	15.5	10.3	7.5	6.9	3.4	1.1	0.0
70°	1902.8	344.7	31.6	17.2	11.5	7.5	5.2	4.0	2.3	0.6	0.0
72.5°	1096.7	189.6	26.4	13.2	8.6	5.7	4.0	2.3	2.3	0.0	0.0
75°	391.8	81.6	20.1	9.8	6.9	4.6	2.9	1.1	1.7	0.6	0.0
77.5°	124.7	43.7	13.2	7.5	5.7	3.4	2.3	1.1	1.1	0.6	0.0
80°	36.8	23.0	8.0	6.3	4.0	2.9	1.7	0.6	1.1	0.6	0.0
82.5°	20.1	11.5	6.3	4.6	4.0	2.3	1.7	0.6	0.6	0.6	0.0
85°	10.3	6.9	5.2	4.6	4.0	2.3	1.7	0.6	0.0	0.6	0.6
87.5°	5.7	5.2	5.2	4.6	4.0	2.9	1.7	0.6	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)