

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: P454517

Luminaire Tested: **GALN-SA5C-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21182 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

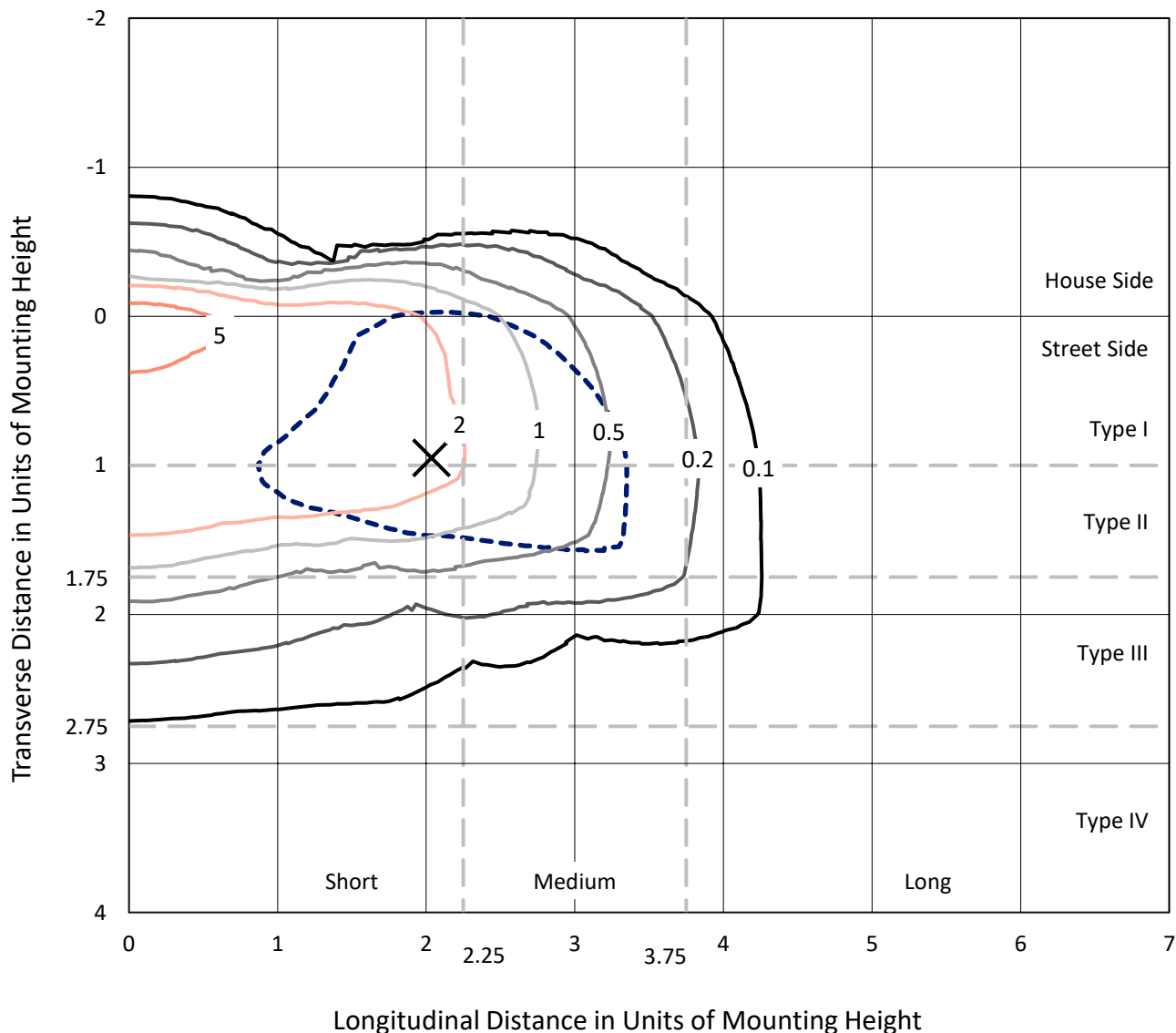
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

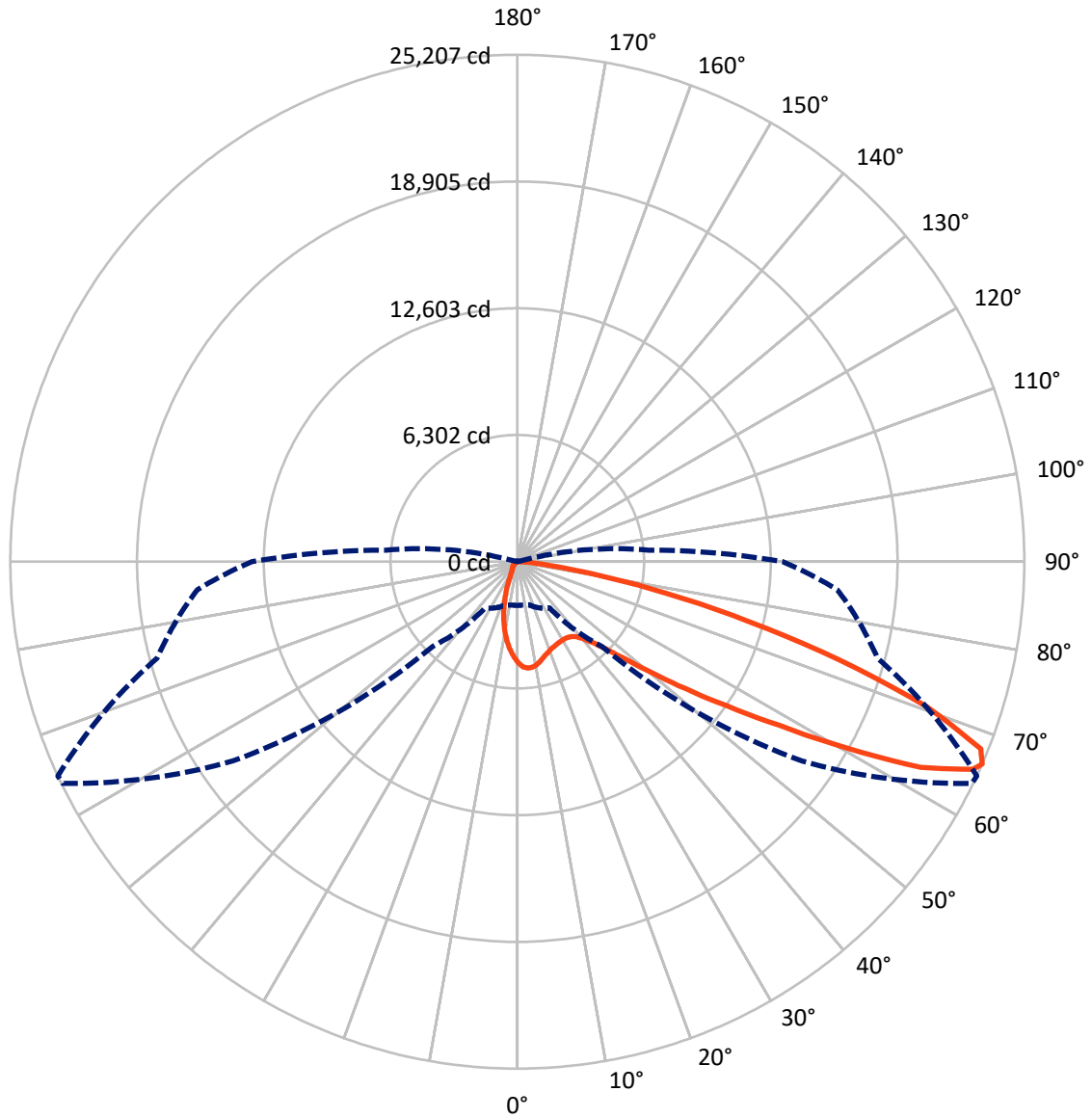
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2190.5	0.0	2190.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	18991.5	0.0	18991.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	21182.0	0.0	21182.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.8	1.9
10°-20°	895.1	4.2
20°-30°	1282.2	6.1
30°-40°	1872.8	8.8
40°-50°	3140.3	14.8
50°-60°	5240.7	24.7
60°-70°	5562.9	26.3
70°-80°	2519.4	11.9
80°-90°	257.8	1.2
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°	21182.0	100.0
0°-180°	21182.0	100.0

**Coefficient of Utilization**



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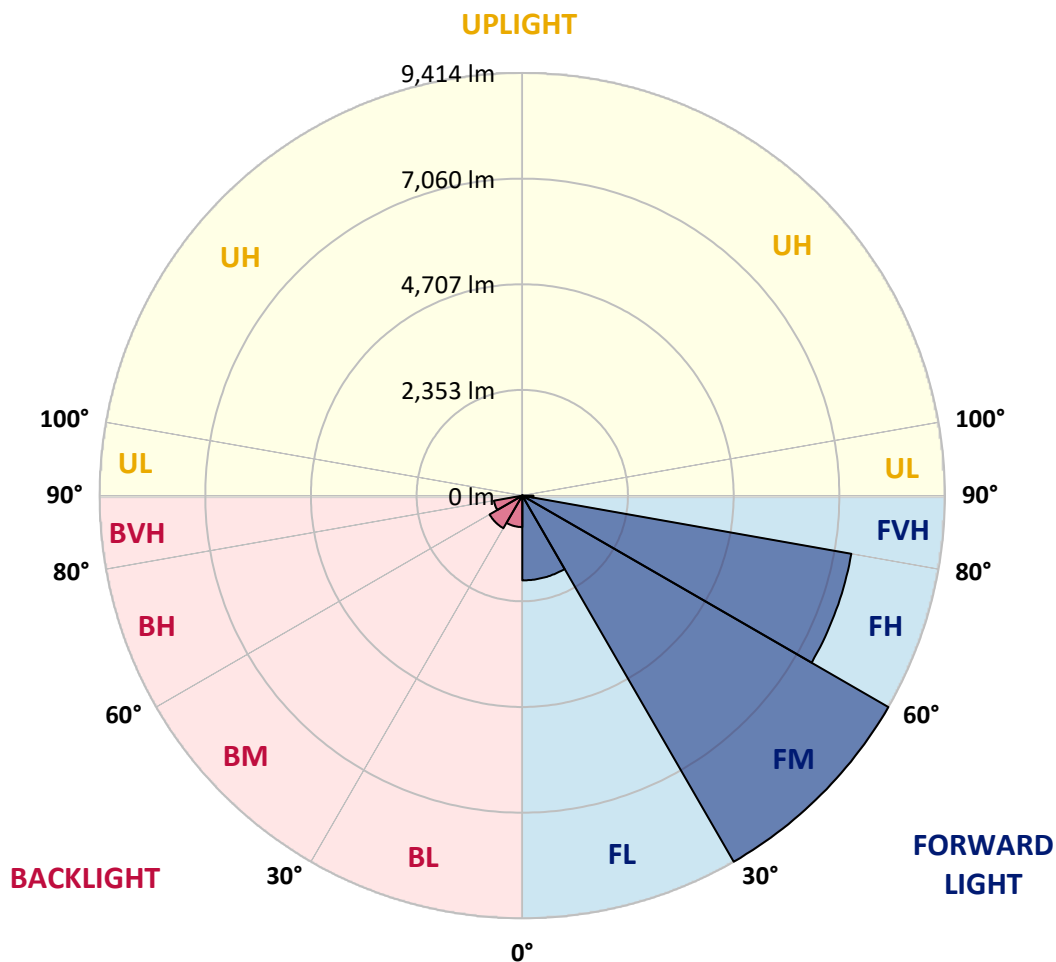
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1887.4	8.9			
FM (30°-60°)	9413.8	44.4			
FH (60°-80°)	7440.8	35.1			G3/7500
FVH (80°-90°)	249.6	1.2			G3/500
BL (0°-30°)	700.7	3.3	B2/1000		
BM (30°-60°)	840.1	4.0	B1/1000		
BH (60°-80°)	641.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0
2.5°	5293.4	5299.2	5306.3	5316.3	5323.5	5302.0	5272.0	5237.6	5230.5	5157.5	5068.8
5°	5010.2	5018.7	5081.7	5116.0	5193.3	5263.4	5307.7	5313.5	5310.6	5241.9	5100.3
7.5°	4606.7	4631.0	4692.6	4752.6	4897.1	5030.2	5187.6	5297.7	5304.9	5286.3	5110.3
10°	4279.1	4294.8	4326.3	4445.0	4565.2	4768.4	4988.7	5196.1	5213.3	5287.7	5101.7
12.5°	4023.0	4045.9	4084.5	4176.1	4320.6	4512.3	4762.7	5041.6	5077.4	5260.5	5077.4
15°	3844.2	3855.6	3894.2	3984.4	4124.6	4302.0	4555.2	4880.0	4911.4	5224.8	5073.1
17.5°	3759.8	3772.6	3799.8	3871.4	3987.2	4151.8	4399.3	4749.8	4789.8	5201.9	5088.8
20°	3782.7	3794.1	3795.5	3832.7	3911.4	4050.2	4284.8	4628.2	4679.7	5187.6	5114.6
22.5°	3912.8	3914.3	3897.1	3879.9	3907.1	4007.3	4214.7	4550.9	4603.9	5184.7	5144.6
25°	4107.4	4111.7	4083.1	4023.0	3968.6	4020.1	4199.0	4500.8	4548.1	5177.5	5163.2
27.5°	4376.4	4374.9	4366.4	4266.2	4111.7	4077.4	4211.9	4473.7	4513.7	5157.5	5170.4
30°	4752.6	4741.2	4722.6	4609.6	4373.5	4216.1	4266.2	4456.5	4493.7	5128.9	5151.8
32.5°	5123.2	5166.1	5163.2	5055.9	4761.2	4463.6	4379.2	4479.4	4506.6	5110.3	5124.6
35°	5555.2	5553.8	5664.0	5623.9	5279.1	4779.8	4572.4	4555.2	4576.7	5123.2	5111.7
37.5°	5955.8	5993.0	6164.7	6206.2	5891.4	5226.2	4845.6	4718.3	4725.5	5210.4	5143.2
40°	6455.1	6526.7	6782.7	6921.5	6644.0	5888.6	5249.1	5017.3	5018.7	5425.0	5262.0
42.5°	7098.9	7211.9	7450.9	7682.6	7533.8	6672.6	5854.2	5490.9	5488.0	5802.7	5533.8
45°	7881.5	7960.2	8232.0	8599.7	8505.3	7767.0	6735.5	6224.8	6187.6	6422.2	6015.9
47.5°	8556.8	8664.1	8940.2	9359.4	9788.5	9103.3	7788.5	7233.4	7209.1	7407.9	6842.8
50°	8851.5	8945.9	9236.3	9824.3	10864.4	10857.2	9356.5	8705.5	8664.1	8771.4	8121.8
52.5°	8528.1	8616.8	8910.1	9642.6	11370.9	12994.6	11628.4	10552.5	10502.4	10365.1	9649.8
55°	7420.8	7493.8	7927.3	8768.5	11176.3	14419.6	14758.6	12834.4	12639.8	12106.2	11379.4
57.5°	5908.6	5871.4	6140.4	7117.5	10034.6	14897.4	17971.9	15677.1	15329.5	13611.3	12843.0
60°	4094.5	4209.0	4317.7	4961.5	7545.3	14069.1	19970.5	19250.9	18793.1	15092.0	14245.0
62.5°	3010.1	3085.9	3157.5	3455.0	4744.1	11233.5	20323.9	22922.0	22515.7	16664.3	15582.7
65°	2380.6	2386.3	2414.9	2708.2	3126.0	7304.9	18625.7	24992.1	24887.7	18177.9	16124.9
66°	2168.9	2170.3	2214.7	2529.4	2805.5	5948.7	17265.2	25149.5	25206.7	18541.3	15966.1
67.5°	1895.6	1889.9	1954.3	2273.3	2555.2	4289.1	14830.2	24511.4	24850.5	18820.3	15395.3
70°	1469.3	1462.1	1540.8	1907.1	2353.4	2861.3	9857.2	21046.4	21592.9	18249.4	13621.3
72.5°	978.6	984.3	1118.8	1505.1	2246.1	2519.4	5930.1	16010.5	16783.0	15070.5	10715.6
75°	570.8	580.8	733.9	1118.8	1950.0	2402.1	3356.3	11416.6	11910.2	10406.6	6675.4
77.5°	299.0	303.3	410.6	738.2	1495.0	2230.4	2236.1	7293.5	7525.3	5057.4	2642.4
80°	158.8	154.5	220.3	444.9	1028.6	1958.6	1814.1	3861.3	4014.4	1502.2	668.1
82.5°	60.1	65.8	117.3	291.9	608.0	1406.3	1562.3	1706.8	1653.8	330.5	280.4
85°	11.4	14.3	50.1	173.1	306.2	588.0	1151.7	836.9	775.4	124.5	161.7
87.5°	1.4	2.9	14.3	41.5	44.4	198.9	340.5	231.8	200.3	45.8	67.2
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°	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0
2.5°	5025.9	4987.3	4858.5	4731.2	4601.0	4483.7	4403.6	4273.4	4240.5	4193.3	4166.1
5°	5015.9	4925.7	4678.2	4407.9	4156.1	3884.2	3676.8	3476.5	3369.2	3314.8	3294.8
7.5°	4987.3	4844.2	4457.9	4034.5	3631.0	3224.7	2871.3	2602.4	2429.3	2310.5	2230.4
10°	4930.0	4732.6	4201.8	3619.6	3010.1	2473.6	2025.8	1685.3	1422.1	1339.1	1342.0
12.5°	4871.4	4608.1	3915.7	3158.9	2403.5	1726.8	1251.8	982.9	857.0	815.5	806.9
15°	4817.0	4489.4	3635.3	2712.5	1789.8	1118.8	806.9	712.5	678.1	671.0	669.5
17.5°	4788.4	4379.2	3336.3	2201.8	1249.0	759.7	646.7	620.9	610.9	603.7	600.9
20°	4764.1	4283.4	3050.2	1723.9	854.1	622.3	579.4	555.1	537.9	530.8	526.5
22.5°	4746.9	4184.7	2754.0	1334.8	653.8	552.2	513.6	482.1	457.8	449.2	443.5
25°	4721.2	4075.9	2455.0	975.7	550.8	490.7	446.4	409.2	377.7	362.0	359.1
27.5°	4684.0	3952.9	2127.4	722.5	492.1	436.4	382.0	336.2	304.7	287.6	289.0
30°	4623.9	3824.1	1799.8	573.7	444.9	380.6	321.9	277.5	247.5	234.6	233.2
32.5°	4552.3	3668.2	1499.3	492.1	402.0	330.5	269.0	230.3	207.4	197.4	196.0
35°	4485.1	3510.8	1193.2	442.1	357.7	284.7	226.0	193.1	176.0	167.4	168.8
37.5°	4447.9	3370.6	929.9	402.0	321.9	244.6	194.6	166.0	150.2	143.1	141.6
40°	4472.2	3256.2	739.6	366.2	281.8	210.3	167.4	143.1	127.3	117.3	117.3
42.5°	4586.7	3206.1	596.6	331.9	244.6	181.7	145.9	123.0	105.9	95.9	97.3
45°	4935.8	3259.0	499.3	300.4	210.3	157.4	125.9	101.6	85.8	78.7	77.3
47.5°	5515.2	3457.9	432.1	267.5	180.3	134.5	105.9	84.4	68.7	62.9	61.5
50°	6528.1	3868.5	382.0	234.6	153.1	114.5	87.3	67.2	54.4	48.6	48.6
52.5°	7921.5	4764.1	346.2	197.4	128.8	97.3	71.5	54.4	42.9	38.6	37.2
55°	9378.0	5708.3	327.6	166.0	107.3	80.1	57.2	42.9	32.9	28.6	27.2
57.5°	10778.6	6449.4	306.2	134.5	85.8	61.5	44.4	32.9	22.9	20.0	18.6
60°	12121.9	7048.8	260.4	107.3	67.2	44.4	32.9	22.9	15.7	12.9	12.9
62.5°	13323.7	7397.9	204.6	85.8	51.5	31.5	21.5	17.2	11.4	8.6	8.6
65°	13463.9	6944.4	154.5	65.8	37.2	20.0	12.9	12.9	8.6	5.7	5.7
66°	13182.1	6559.6	135.9	60.1	32.9	17.2	11.4	10.0	7.2	4.3	4.3
67.5°	12552.6	5902.9	117.3	51.5	27.2	12.9	8.6	8.6	5.7	2.9	2.9
70°	10845.8	4821.3	93.0	38.6	20.0	10.0	5.7	5.7	4.3	2.9	2.9
72.5°	8266.3	3599.5	75.8	28.6	14.3	7.2	4.3	4.3	4.3	2.9	2.9
75°	4985.8	1938.5	58.7	21.5	12.9	5.7	2.9	4.3	5.7	4.3	2.9
77.5°	1837.0	659.5	45.8	17.2	10.0	5.7	2.9	2.9	5.7	4.3	4.3
80°	450.7	171.7	32.9	14.3	10.0	5.7	2.9	2.9	5.7	5.7	5.7
82.5°	208.9	73.0	22.9	12.9	10.0	5.7	2.9	2.9	4.3	5.7	5.7
85°	120.2	34.3	18.6	14.3	10.0	5.7	2.9	2.9	4.3	5.7	5.7
87.5°	48.6	17.2	17.2	14.3	11.4	7.2	2.9	2.9	2.9	4.3	4.3
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)