

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: P455909

Luminaire Tested: **GALN-SA7A-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455909  
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-SA7A-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA 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: 19164 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

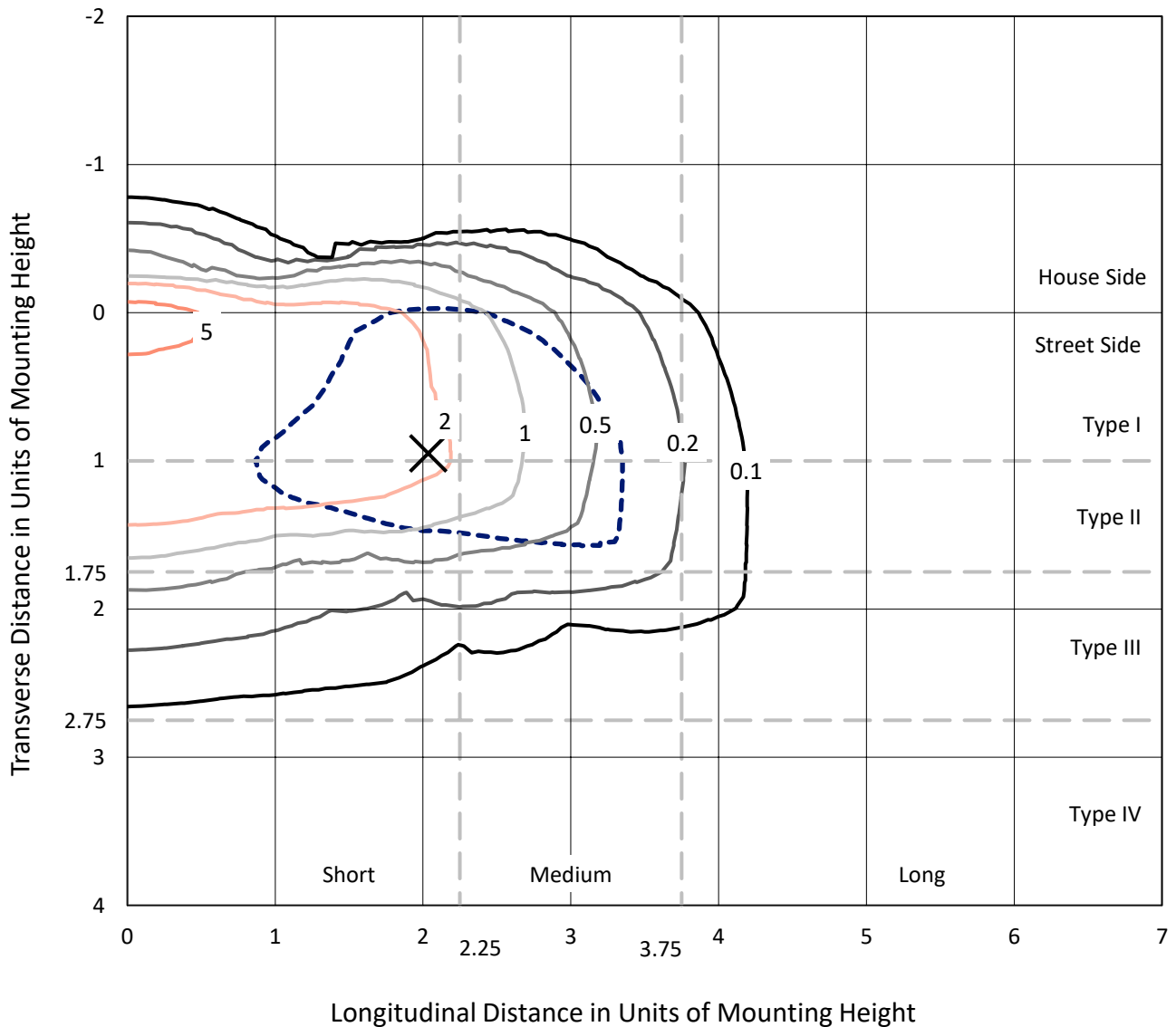
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

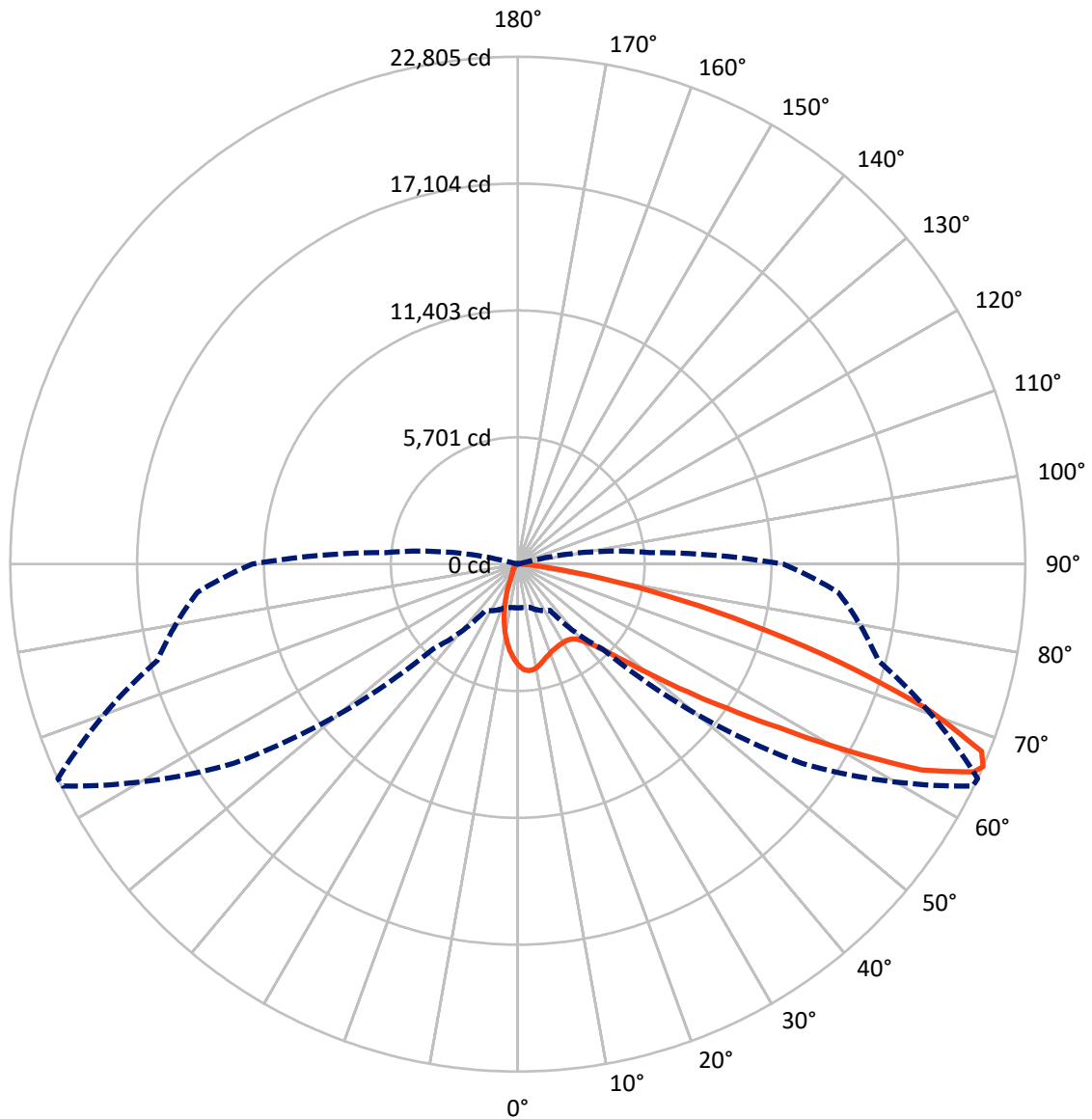
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	1981.8	0.0	1981.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	17182.2	0.0	17182.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	19164.0	0.0	19164.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.7	1.9
10°-20°	809.8	4.2
20°-30°	1160.1	6.1
30°-40°	1694.4	8.8
40°-50°	2841.2	14.8
50°-60°	4741.4	24.7
60°-70°	5032.9	26.3
70°-80°	2279.4	11.9
80°-90°	233.2	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°	19164.0	100.0
0°-180°	19164.0	100.0

**Coefficient of Utilization**



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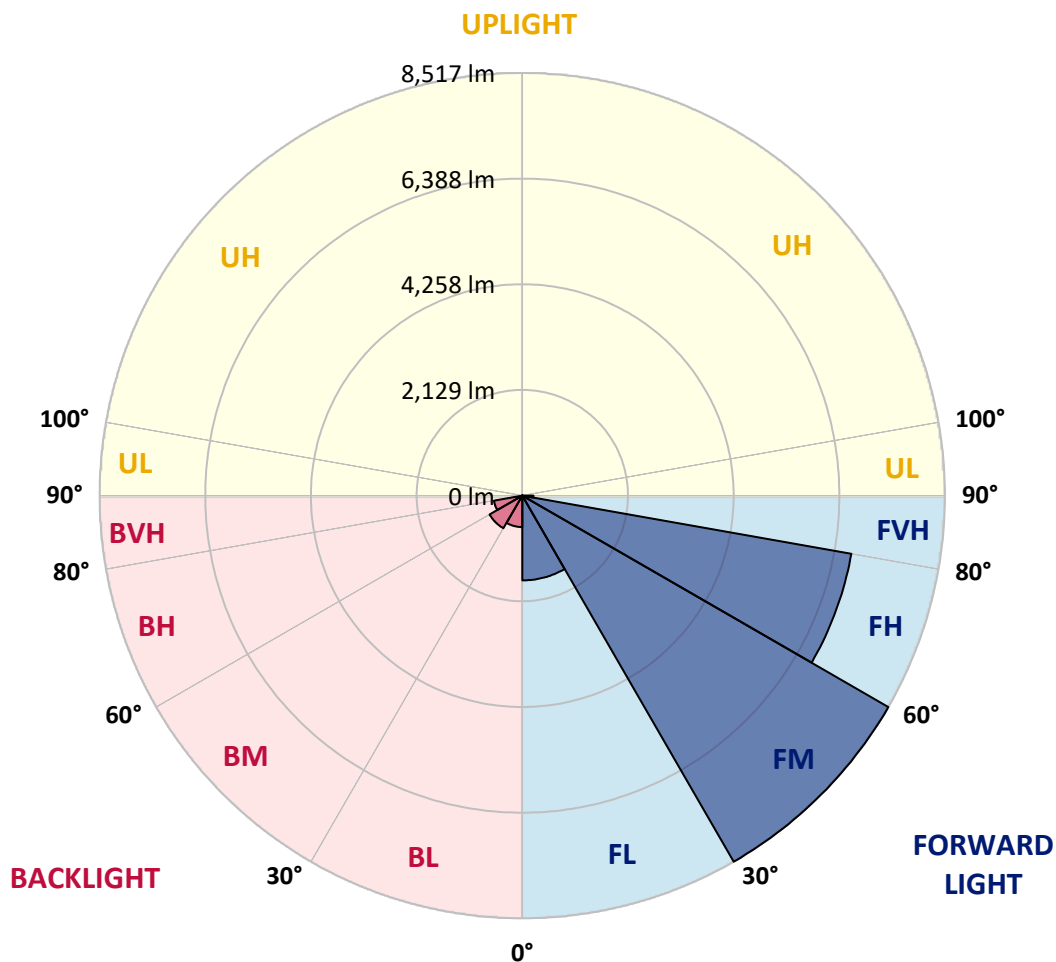
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1707.6	8.9			
FM	(30°-60°)	8516.9	44.4			
FH	(60°-80°)	6731.9	35.1			G3/7500
FVH	(80°-90°)	225.8	1.2			G3/500
BL	(0°-30°)	634.0	3.3	B2/1000		
BM	(30°-60°)	760.0	4.0	B1/1000		
BH	(60°-80°)	580.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	7.4	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°	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5
2.5°	4789.1	4794.3	4800.8	4809.8	4816.3	4796.9	4769.7	4738.6	4732.2	4666.2	4585.9
5°	4532.8	4540.6	4597.6	4628.6	4698.5	4761.9	4802.1	4807.2	4804.7	4742.5	4614.4
7.5°	4167.8	4189.8	4245.5	4299.9	4430.6	4551.0	4693.3	4793.0	4799.5	4782.7	4623.4
10°	3871.4	3885.7	3914.1	4021.6	4130.3	4314.1	4513.4	4701.1	4716.6	4783.9	4615.7
12.5°	3639.7	3660.4	3695.4	3778.2	3909.0	4082.4	4308.9	4561.3	4593.7	4759.4	4593.7
15°	3477.9	3488.3	3523.2	3604.8	3731.6	3892.1	4121.2	4415.1	4443.5	4727.0	4589.8
17.5°	3401.6	3413.2	3437.8	3502.5	3607.4	3756.2	3980.2	4297.3	4333.5	4706.3	4604.0
20°	3422.3	3432.6	3433.9	3467.6	3538.8	3664.3	3876.6	4187.2	4233.8	4693.3	4627.3
22.5°	3540.1	3541.4	3525.8	3510.3	3534.9	3625.5	3813.2	4117.4	4165.2	4690.8	4654.5
25°	3716.1	3720.0	3694.1	3639.7	3590.5	3637.1	3798.9	4072.1	4114.8	4684.3	4671.3
27.5°	3959.4	3958.1	3950.4	3859.8	3720.0	3688.9	3810.6	4047.5	4083.7	4666.2	4677.8
30°	4299.9	4289.5	4272.7	4170.4	3956.9	3814.5	3859.8	4031.9	4065.6	4640.3	4661.0
32.5°	4635.1	4673.9	4671.3	4574.3	4307.6	4038.4	3962.0	4052.6	4077.2	4623.4	4636.4
35°	5026.0	5024.7	5124.4	5088.1	4776.2	4324.5	4136.8	4121.2	4140.7	4635.1	4624.7
37.5°	5388.4	5422.1	5577.4	5614.9	5330.2	4728.3	4384.0	4268.8	4275.3	4714.1	4653.2
40°	5840.1	5904.9	6136.6	6262.1	6011.0	5327.6	4749.0	4539.3	4540.6	4908.2	4760.6
42.5°	6422.6	6524.9	6741.0	6950.7	6816.1	6036.9	5296.5	4967.7	4965.2	5249.9	5006.6
45°	7130.6	7201.8	7447.7	7780.4	7695.0	7027.1	6093.8	5631.8	5598.1	5810.4	5442.8
47.5°	7741.6	7838.6	8088.4	8467.7	8856.0	8236.0	7046.5	6544.3	6522.3	6702.2	6190.9
50°	8008.2	8093.6	8356.4	8888.4	9829.4	9822.9	8465.1	7876.2	7838.6	7935.7	7348.1
52.5°	7715.7	7795.9	8061.3	8724.0	10287.6	11756.7	10520.5	9547.2	9501.9	9377.6	8730.4
55°	6713.8	6779.8	7172.0	7933.1	10111.5	13045.8	13352.6	11611.7	11435.7	10952.9	10295.3
57.5°	5345.7	5312.0	5555.4	6439.4	9078.6	13478.2	16259.7	14183.6	13869.0	12314.5	11619.5
60°	3704.5	3808.0	3906.4	4488.8	6826.4	12728.7	18067.9	17416.9	17002.7	13654.2	12887.9
62.5°	2723.3	2791.9	2856.6	3125.9	4292.1	10163.3	18387.7	20738.2	20370.6	15076.7	14098.1
65°	2153.8	2159.0	2184.9	2450.2	2828.2	6609.0	16851.2	22611.1	22516.7	16446.1	14588.7
66°	1962.2	1963.5	2003.7	2288.4	2538.2	5381.9	15620.3	22753.5	22805.3	16774.9	14445.0
67.5°	1715.0	1709.8	1768.1	2056.7	2311.7	3880.5	13417.3	22176.2	22483.0	17027.3	13928.6
70°	1329.3	1322.8	1394.0	1725.4	2129.2	2588.7	8918.1	19041.3	19535.7	16510.8	12323.6
72.5°	885.3	890.5	1012.2	1361.7	2032.1	2279.4	5365.1	14485.2	15184.1	13634.8	9694.7
75°	516.4	525.5	664.0	1012.2	1764.2	2173.2	3036.6	10329.0	10775.5	9415.2	6039.5
77.5°	270.5	274.4	371.5	667.9	1352.6	2017.9	2023.1	6598.6	6808.3	4575.6	2390.7
80°	143.7	139.8	199.3	402.5	930.6	1772.0	1641.2	3493.5	3632.0	1359.1	604.5
82.5°	54.4	59.5	106.1	264.0	550.1	1272.4	1413.4	1544.2	1496.3	299.0	253.7
85°	10.4	12.9	45.3	156.6	277.0	532.0	1042.0	757.2	701.5	112.6	146.3
87.5°	1.3	2.6	12.9	37.5	40.1	179.9	308.1	209.7	181.2	41.4	60.8
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°	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5	4544.5
2.5°	4547.1	4512.1	4395.6	4280.4	4162.7	4056.5	3984.0	3866.2	3836.5	3793.8	3769.2
5°	4538.0	4456.5	4232.6	3987.9	3760.1	3514.2	3326.5	3145.3	3048.2	2999.0	2980.9
7.5°	4512.1	4382.7	4033.2	3650.1	3285.1	2917.5	2597.8	2354.4	2197.8	2090.4	2017.9
10°	4460.4	4281.7	3801.5	3274.7	2723.3	2237.9	1832.8	1524.8	1286.6	1211.5	1214.1
12.5°	4407.3	4169.1	3542.7	2857.9	2174.5	1562.3	1132.6	889.2	775.3	737.8	730.0
15°	4358.1	4061.7	3289.0	2454.1	1619.2	1012.2	730.0	644.6	613.5	607.1	605.8
17.5°	4332.2	3962.0	3018.4	1992.0	1130.0	687.3	585.0	561.8	552.7	546.2	543.6
20°	4310.2	3875.3	2759.6	1559.7	772.7	563.0	524.2	502.2	486.7	480.2	476.3
22.5°	4294.7	3786.0	2491.6	1207.6	591.5	499.6	464.7	436.2	414.2	406.4	401.3
25°	4271.4	3687.6	2221.1	882.8	498.3	444.0	403.8	370.2	341.7	327.5	324.9
27.5°	4237.7	3576.3	1924.7	653.7	445.3	394.8	345.6	304.2	275.7	260.2	261.5
30°	4183.4	3459.8	1628.3	519.0	402.5	344.3	291.2	251.1	223.9	212.3	211.0
32.5°	4118.6	3318.7	1356.5	445.3	363.7	299.0	243.3	208.4	187.7	178.6	177.3
35°	4057.8	3176.4	1079.5	400.0	323.6	257.6	204.5	174.7	159.2	151.4	152.7
37.5°	4024.2	3049.5	841.3	363.7	291.2	221.3	176.0	150.1	135.9	129.4	128.1
40°	4046.2	2946.0	669.2	331.4	255.0	190.3	151.4	129.4	115.2	106.1	106.1
42.5°	4149.7	2900.7	539.7	300.3	221.3	164.4	132.0	111.3	95.8	86.7	88.0
45°	4465.5	2948.5	451.7	271.8	190.3	142.4	113.9	91.9	77.7	71.2	69.9
47.5°	4989.8	3128.5	390.9	242.0	163.1	121.7	95.8	76.4	62.1	57.0	55.7
50°	5906.2	3499.9	345.6	212.3	138.5	103.5	79.0	60.8	49.2	44.0	44.0
52.5°	7166.9	4310.2	313.2	178.6	116.5	88.0	64.7	49.2	38.8	34.9	33.7
55°	8484.5	5164.5	296.4	150.1	97.1	72.5	51.8	38.8	29.8	25.9	24.6
57.5°	9751.7	5835.0	277.0	121.7	77.7	55.7	40.1	29.8	20.7	18.1	16.8
60°	10967.1	6377.3	235.6	97.1	60.8	40.1	29.8	20.7	14.2	11.6	11.6
62.5°	12054.4	6693.1	185.1	77.7	46.6	28.5	19.4	15.5	10.4	7.8	7.8
65°	12181.2	6282.8	139.8	59.5	33.7	18.1	11.6	11.6	7.8	5.2	5.2
66°	11926.2	5934.6	123.0	54.4	29.8	15.5	10.4	9.1	6.5	3.9	3.9
67.5°	11356.7	5340.5	106.1	46.6	24.6	11.6	7.8	7.8	5.2	2.6	2.6
70°	9812.5	4362.0	84.1	34.9	18.1	9.1	5.2	5.2	3.9	2.6	2.6
72.5°	7478.8	3256.6	68.6	25.9	12.9	6.5	3.9	3.9	3.9	2.6	2.6
75°	4510.8	1753.9	53.1	19.4	11.6	5.2	2.6	3.9	5.2	3.9	2.6
77.5°	1662.0	596.7	41.4	15.5	9.1	5.2	2.6	2.6	5.2	3.9	3.9
80°	407.7	155.3	29.8	12.9	9.1	5.2	2.6	2.6	5.2	5.2	5.2
82.5°	189.0	66.0	20.7	11.6	9.1	5.2	2.6	2.6	3.9	5.2	5.2
85°	108.7	31.1	16.8	12.9	9.1	5.2	2.6	2.6	3.9	5.2	5.2
87.5°	44.0	15.5	15.5	12.9	10.4	6.5	2.6	2.6	2.6	3.9	3.9
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)