

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: P648041

Luminaire Tested: **GALN-SA7A-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648041  
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-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 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: 20412 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

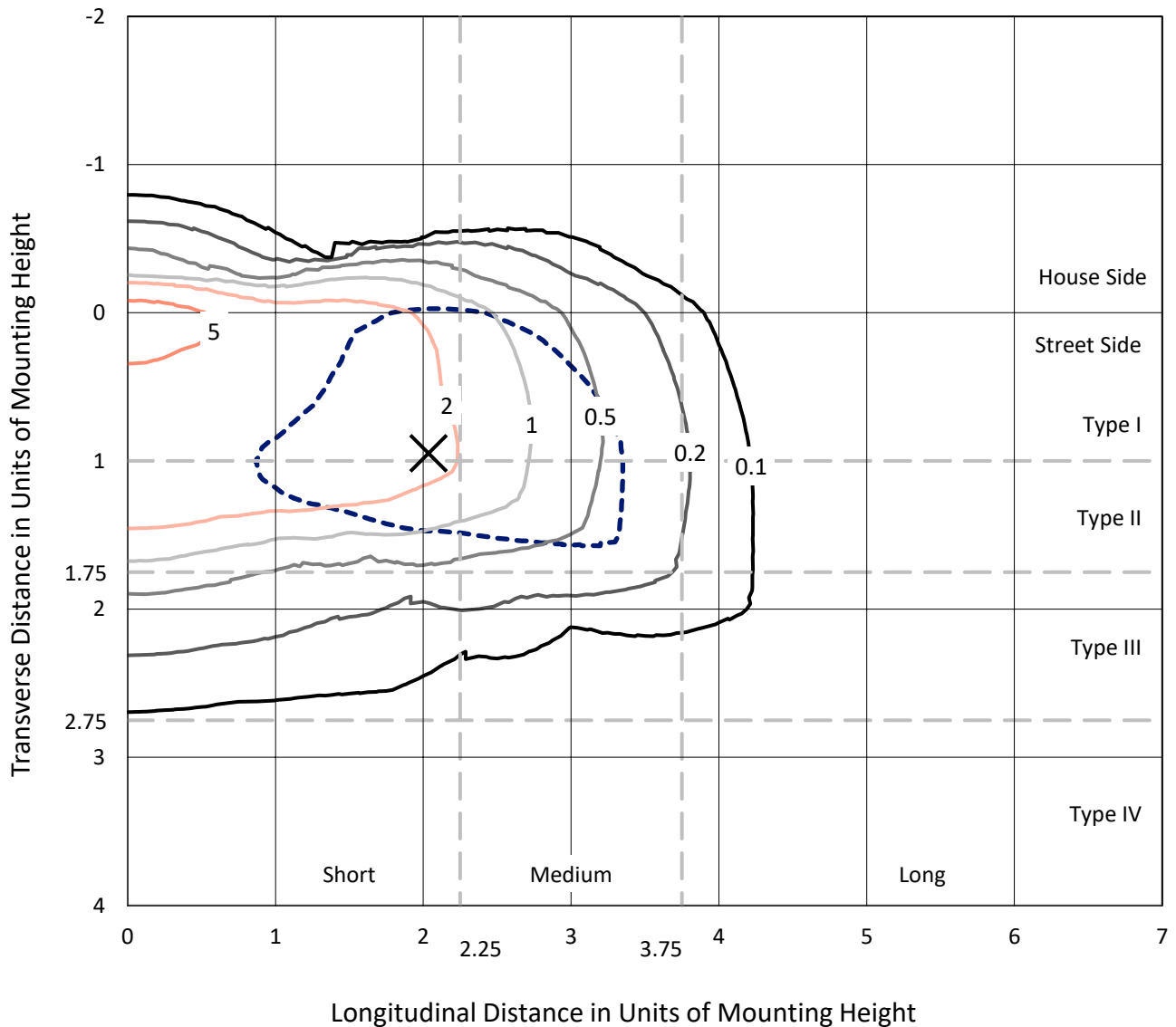
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

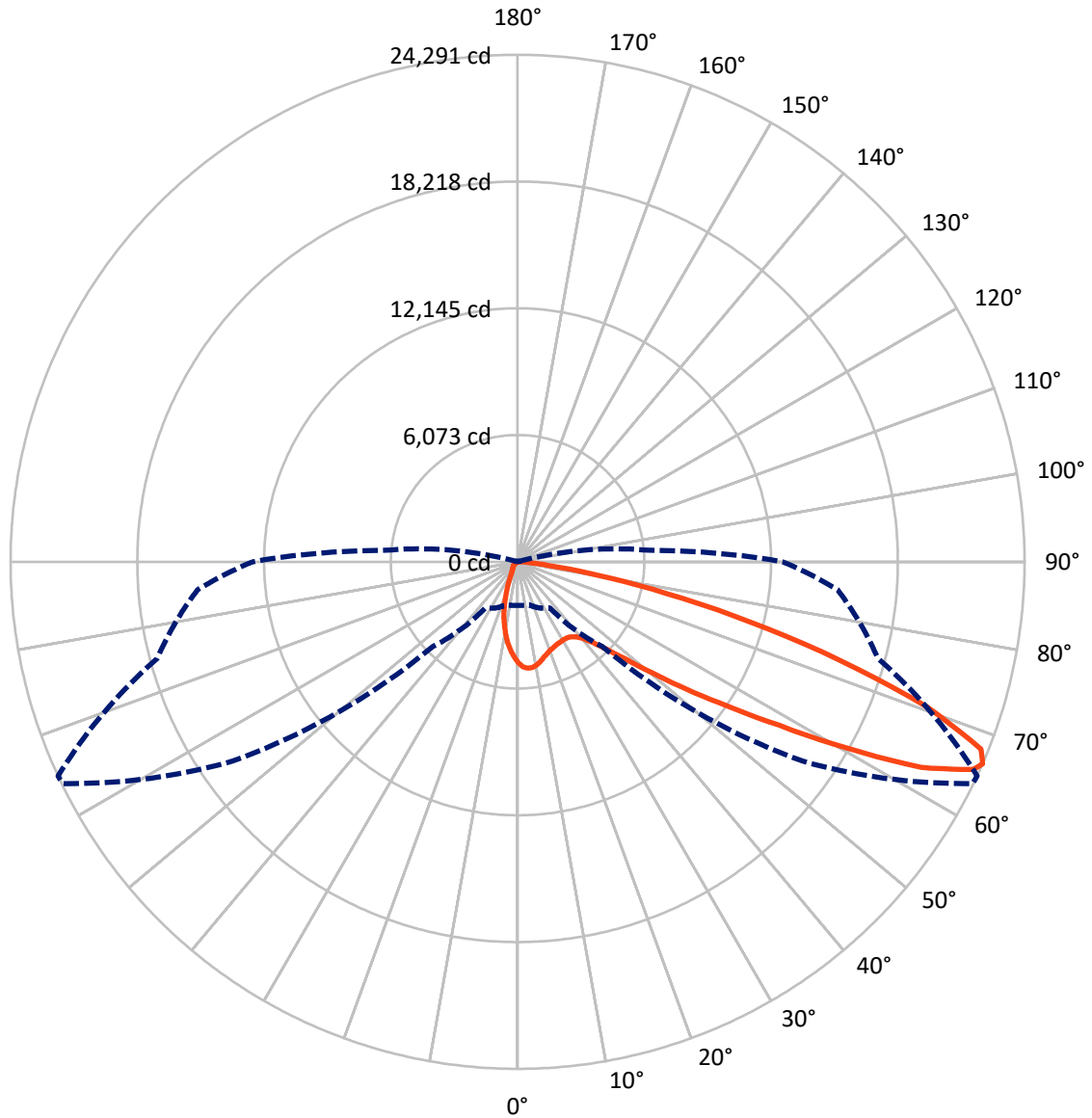
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	2110.9	0.0	2110.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	18301.1	0.0	18301.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	20412.0	0.0	20412.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.9	1.9
10°-20°	862.6	4.2
20°-30°	1235.6	6.1
30°-40°	1804.7	8.8
40°-50°	3026.2	14.8
50°-60°	5050.2	24.7
60°-70°	5360.6	26.3
70°-80°	2427.8	11.9
80°-90°	248.4	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°	20412.0	100.0
0°-180°	20412.0	100.0

**Coefficient of Utilization**



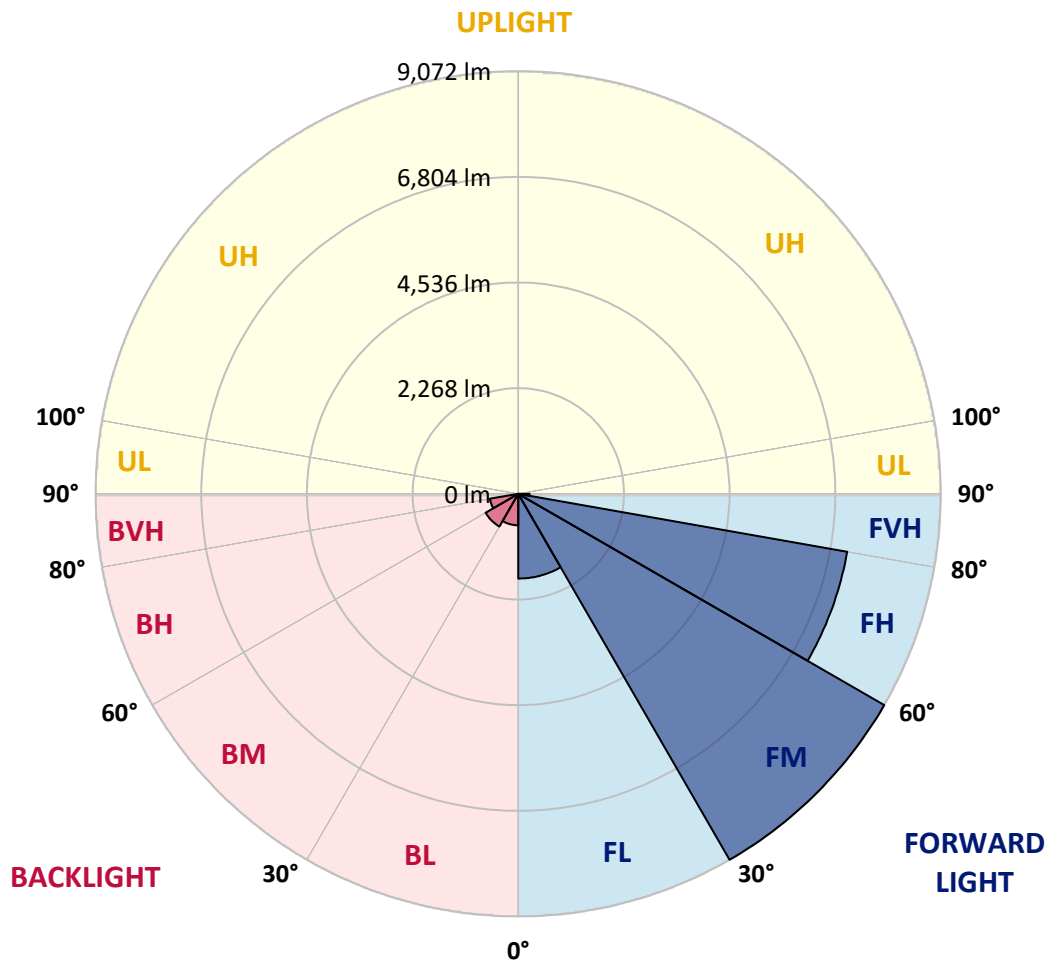
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.8	8.9			
FM (30°-60°)	9071.6	44.4			
FH (60°-80°)	7170.3	35.1			G3/7500
FVH (80°-90°)	240.5	1.2			G3/500
BL (0°-30°)	675.2	3.3	B2/1000		
BM (30°-60°)	809.5	4.0	B1/1000		
BH (60°-80°)	618.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4
2.5°	5101.0	5106.5	5113.4	5123.1	5130.0	5109.3	5080.3	5047.2	5040.3	4970.0	4884.6
5°	4828.1	4836.3	4897.0	4930.1	5004.5	5072.0	5114.8	5120.3	5117.5	5051.4	4914.9
7.5°	4439.2	4462.7	4522.0	4579.8	4719.1	4847.3	4999.0	5105.2	5112.1	5094.1	4924.5
10°	4123.5	4138.7	4169.0	4283.5	4399.3	4595.0	4807.4	5007.3	5023.8	5095.5	4916.3
12.5°	3876.8	3898.8	3936.1	4024.3	4163.5	4348.2	4589.6	4858.4	4892.8	5069.3	4892.8
15°	3704.5	3715.5	3752.7	3839.5	3974.7	4145.6	4389.7	4702.5	4732.9	5034.8	4888.7
17.5°	3623.1	3635.5	3661.7	3730.6	3842.3	4000.8	4239.3	4577.1	4615.7	5012.8	4903.9
20°	3645.2	3656.2	3657.5	3693.4	3769.2	3902.9	4129.1	4460.0	4509.5	4999.0	4928.7
22.5°	3770.6	3772.0	3755.4	3738.9	3765.1	3861.6	4061.5	4385.5	4436.5	4996.2	4957.6
25°	3958.1	3962.2	3934.7	3876.8	3824.4	3874.0	4046.3	4337.3	4382.8	4989.4	4975.6
27.5°	4217.3	4215.9	4207.6	4111.1	3962.2	3929.2	4058.8	4311.0	4349.6	4970.0	4982.5
30°	4579.8	4568.9	4551.0	4442.0	4214.6	4062.9	4111.1	4294.5	4330.4	4942.5	4964.5
32.5°	4937.0	4978.3	4975.6	4872.1	4588.1	4301.4	4220.1	4316.5	4342.8	4924.5	4938.3
35°	5353.3	5352.0	5458.1	5419.5	5087.2	4606.1	4406.2	4389.7	4410.3	4937.0	4925.9
37.5°	5739.3	5775.2	5940.6	5980.6	5677.3	5036.2	4669.5	4546.8	4553.7	5021.1	4956.2
40°	6220.5	6289.4	6536.2	6669.9	6402.4	5674.6	5058.3	4834.9	4836.3	5227.9	5070.7
42.5°	6840.8	6949.8	7180.0	7403.3	7260.0	6430.0	5641.4	5291.3	5288.5	5591.8	5332.6
45°	7595.0	7670.8	7932.7	8287.0	8196.1	7484.7	6490.7	5998.5	5962.7	6188.8	5797.3
47.5°	8245.7	8349.1	8615.2	9019.1	9432.7	8772.3	7505.4	6970.4	6947.0	7138.7	6594.1
50°	8529.7	8620.7	8900.6	9467.2	10469.5	10462.6	9016.4	8389.1	8349.1	8452.5	7826.6
52.5°	8218.1	8303.6	8586.2	9292.1	10957.5	12522.3	11205.7	10168.9	10120.7	9988.3	9299.0
55°	7151.1	7221.4	7639.1	8449.7	10770.0	13895.4	14222.2	12367.9	12180.3	11666.2	10965.8
57.5°	5693.8	5658.0	5917.2	6858.8	9669.9	14355.9	17318.6	15107.3	14772.2	13116.5	12376.2
60°	3945.7	4056.0	4160.8	4781.2	7271.0	13557.6	19244.6	18551.1	18109.9	14543.4	13727.2
62.5°	2900.7	2973.8	3042.7	3329.5	4571.6	10825.1	19585.1	22088.7	21697.2	16058.5	15016.3
65°	2294.1	2299.6	2327.2	2609.8	3012.4	7039.4	17948.6	24083.7	23983.1	17517.1	15538.8
66°	2090.1	2091.4	2134.1	2437.5	2703.5	5732.4	16637.6	24235.3	24290.5	17867.4	15385.7
67.5°	1826.7	1821.2	1883.3	2190.7	2462.3	4133.2	14291.1	23620.4	23947.2	18136.2	14835.7
70°	1415.9	1409.0	1484.8	1837.8	2267.9	2757.3	9498.9	20281.3	20808.0	17586.1	13126.1
72.5°	943.0	948.5	1078.1	1450.4	2164.4	2427.8	5714.5	15428.5	16172.9	14522.7	10326.1
75°	550.1	559.8	707.3	1078.1	1879.1	2314.8	3234.3	11001.6	11477.3	10028.3	6432.8
77.5°	288.1	292.3	395.6	711.4	1440.7	2149.3	2154.8	7028.4	7251.7	4873.5	2546.4
80°	153.0	148.9	212.3	428.8	991.3	1887.3	1748.1	3721.0	3868.5	1447.6	643.9
82.5°	57.9	63.4	113.1	281.3	585.9	1355.2	1505.5	1644.8	1593.7	318.4	270.2
85°	11.0	13.8	48.2	166.8	295.0	566.7	1109.8	806.5	747.2	120.0	155.8
87.5°	1.4	2.7	13.8	40.0	42.8	191.6	328.2	223.3	193.0	44.1	64.8
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°	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4	4840.4
2.5°	4843.2	4806.0	4681.9	4559.2	4433.7	4320.7	4243.5	4118.0	4086.3	4040.8	4014.6
5°	4833.5	4746.7	4508.2	4247.6	4005.0	3743.1	3543.2	3350.1	3246.7	3194.3	3175.1
7.5°	4806.0	4668.1	4295.9	3887.8	3499.0	3107.5	2767.0	2507.8	2340.9	2226.5	2149.3
10°	4750.9	4560.6	4049.1	3488.0	2900.7	2383.7	1952.2	1624.0	1370.4	1290.4	1293.2
12.5°	4694.3	4440.6	3773.4	3044.1	2316.1	1664.0	1206.3	947.1	825.8	785.8	777.6
15°	4641.9	4326.2	3503.1	2613.9	1724.7	1078.1	777.6	686.5	653.5	646.6	645.2
17.5°	4614.4	4220.1	3215.0	2121.8	1203.5	732.0	623.1	598.4	588.7	581.8	579.0
20°	4590.9	4127.7	2939.3	1661.3	823.1	599.7	558.4	534.9	518.3	511.5	507.3
22.5°	4574.4	4032.5	2653.9	1286.3	630.1	532.1	494.9	464.6	441.1	432.9	427.4
25°	4549.5	3927.8	2365.8	940.2	530.8	472.9	430.1	394.3	363.9	348.8	346.0
27.5°	4513.7	3809.2	2050.1	696.2	474.3	420.5	368.1	324.0	293.6	277.1	278.5
30°	4455.8	3685.1	1734.3	552.9	428.8	366.8	310.2	267.5	238.5	226.1	224.7
32.5°	4386.8	3534.9	1444.8	474.3	387.4	318.4	259.2	222.0	199.9	190.3	188.9
35°	4322.1	3383.2	1149.8	426.0	344.7	274.4	217.8	186.1	169.6	161.3	162.7
37.5°	4286.2	3248.1	896.1	387.4	310.2	235.8	187.5	159.9	144.8	137.9	136.5
40°	4309.6	3137.8	712.8	352.9	271.6	202.6	161.3	137.9	122.7	113.1	113.1
42.5°	4420.0	3089.6	574.9	319.9	235.8	175.1	140.6	118.5	102.0	92.4	93.7
45°	4756.3	3140.5	481.2	289.6	202.6	151.7	121.3	97.9	82.7	75.8	74.5
47.5°	5314.7	3332.2	416.3	257.8	173.7	129.6	102.0	81.4	66.2	60.7	59.3
50°	6290.8	3727.9	368.1	226.1	147.5	110.3	84.1	64.8	52.4	46.9	46.9
52.5°	7633.6	4590.9	333.6	190.3	124.1	93.7	68.9	52.4	41.3	37.2	35.9
55°	9037.1	5500.8	315.7	159.9	103.4	77.2	55.1	41.3	31.7	27.6	26.2
57.5°	10386.7	6215.0	295.0	129.6	82.7	59.3	42.8	31.7	22.1	19.3	17.9
60°	11681.3	6792.6	251.0	103.4	64.8	42.8	31.7	22.1	15.2	12.4	12.4
62.5°	12839.4	7129.0	197.2	82.7	49.6	30.3	20.7	16.5	11.0	8.3	8.3
65°	12974.5	6692.0	148.9	63.4	35.9	19.3	12.4	12.4	8.3	5.5	5.5
66°	12702.9	6321.1	131.0	57.9	31.7	16.5	11.0	9.6	6.9	4.1	4.1
67.5°	12096.3	5688.3	113.1	49.6	26.2	12.4	8.3	8.3	5.5	2.7	2.7
70°	10451.6	4646.1	89.6	37.2	19.3	9.6	5.5	5.5	4.1	2.7	2.7
72.5°	7965.9	3468.7	73.1	27.6	13.8	6.9	4.1	4.1	4.1	2.7	2.7
75°	4804.6	1868.1	56.5	20.7	12.4	5.5	2.7	4.1	5.5	4.1	2.7
77.5°	1770.2	635.6	44.1	16.5	9.6	5.5	2.7	2.7	5.5	4.1	4.1
80°	434.3	165.4	31.7	13.8	9.6	5.5	2.7	2.7	5.5	5.5	5.5
82.5°	201.3	70.3	22.1	12.4	9.6	5.5	2.7	2.7	4.1	5.5	5.5
85°	115.8	33.1	17.9	13.8	9.6	5.5	2.7	2.7	4.1	5.5	5.5
87.5°	46.9	16.5	16.5	13.8	11.0	6.9	2.7	2.7	2.7	4.1	4.1
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)