

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: P647436

Luminaire Tested: **GALN-SA5D-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647436  
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-SA5D-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA 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: 24825.8 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

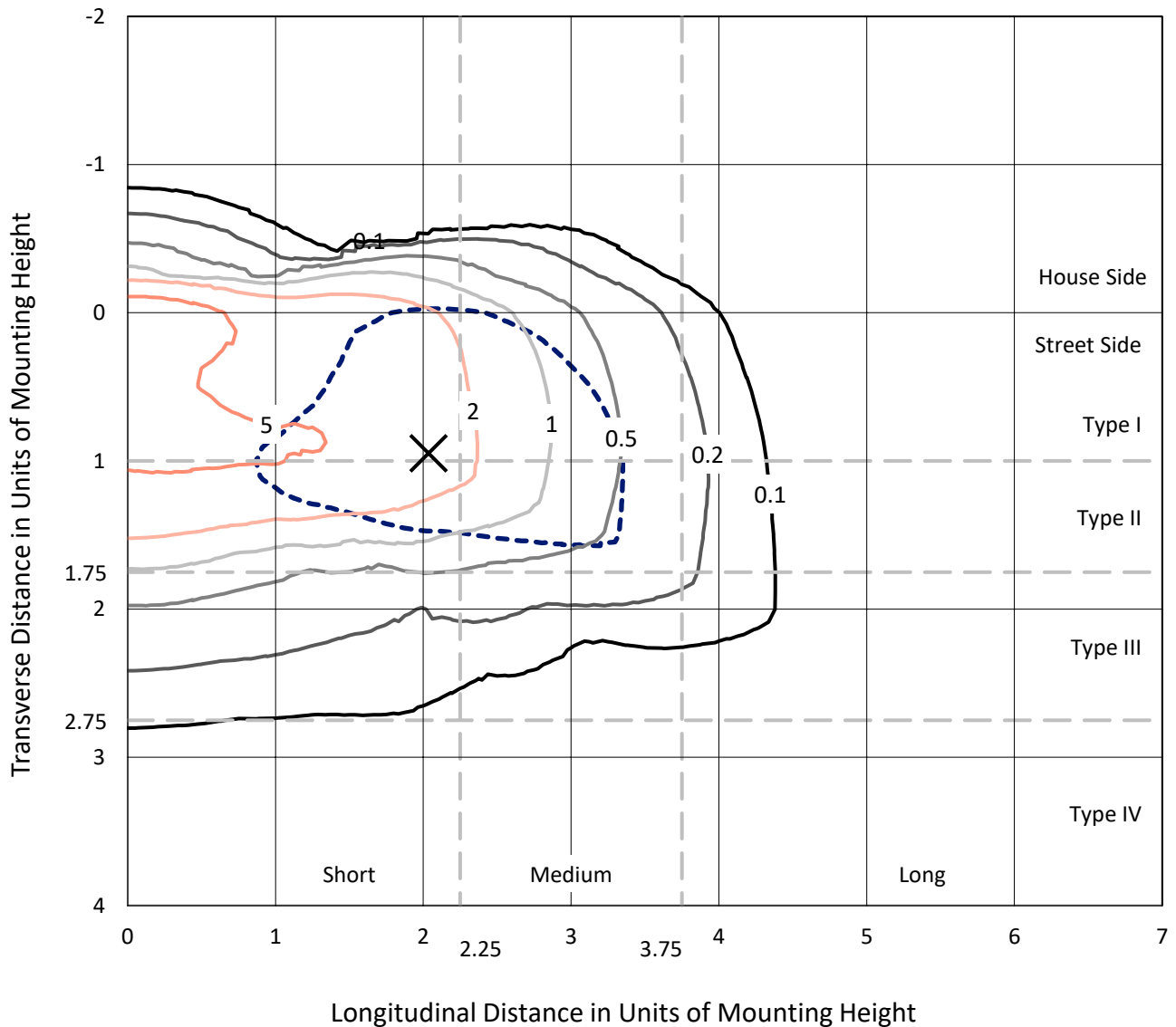
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

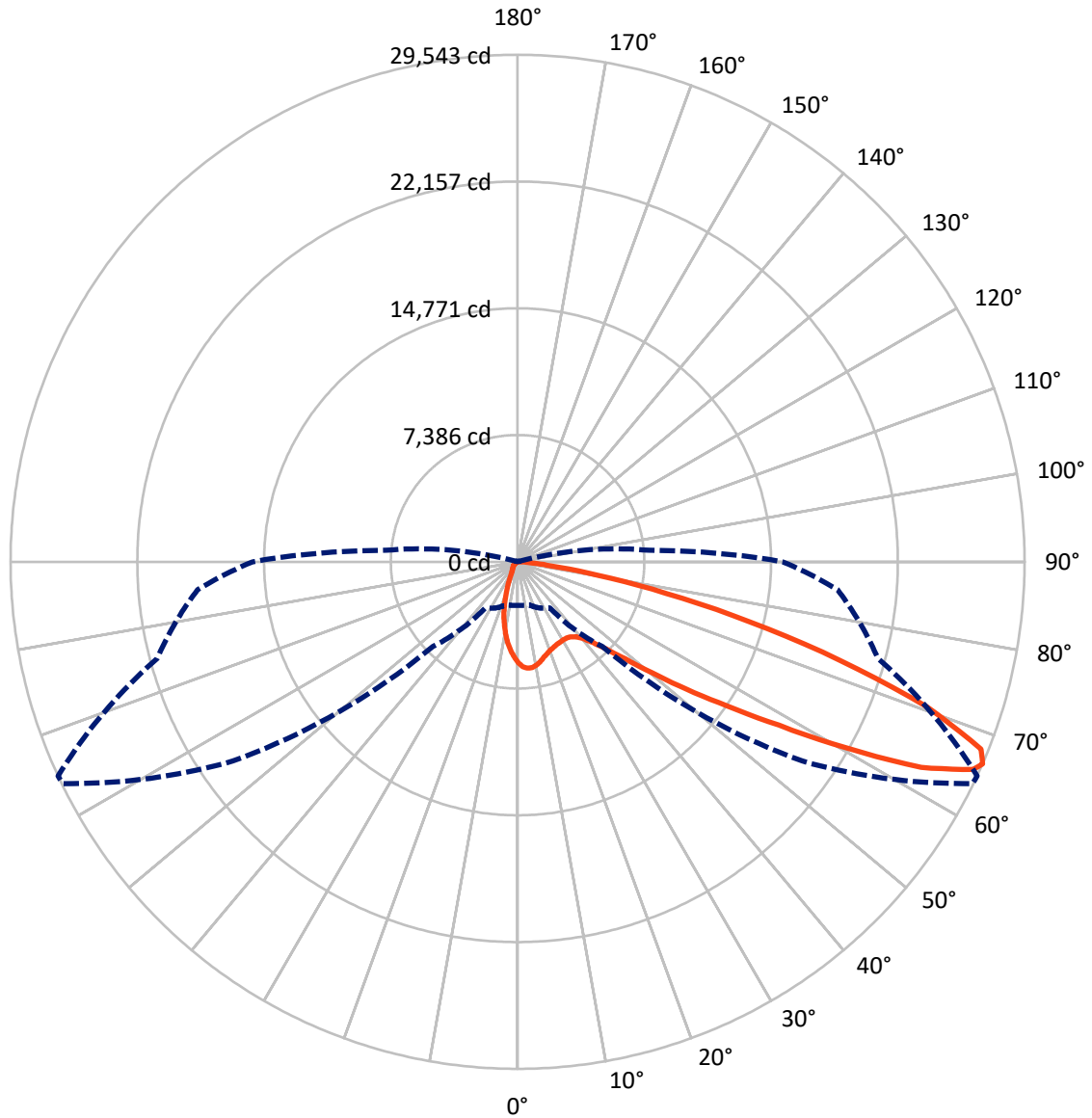
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	2567.3	0.0	2567.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	22258.5	0.0	22258.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	24825.8	0.0	24825.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.5	1.9
10°-20°	1049.1	4.2
20°-30°	1502.8	6.1
30°-40°	2195.0	8.8
40°-50°	3680.5	14.8
50°-60°	6142.3	24.7
60°-70°	6519.8	26.3
70°-80°	2952.8	11.9
80°-90°	302.1	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°	24825.8	100.0
0°-180°	24825.8	100.0

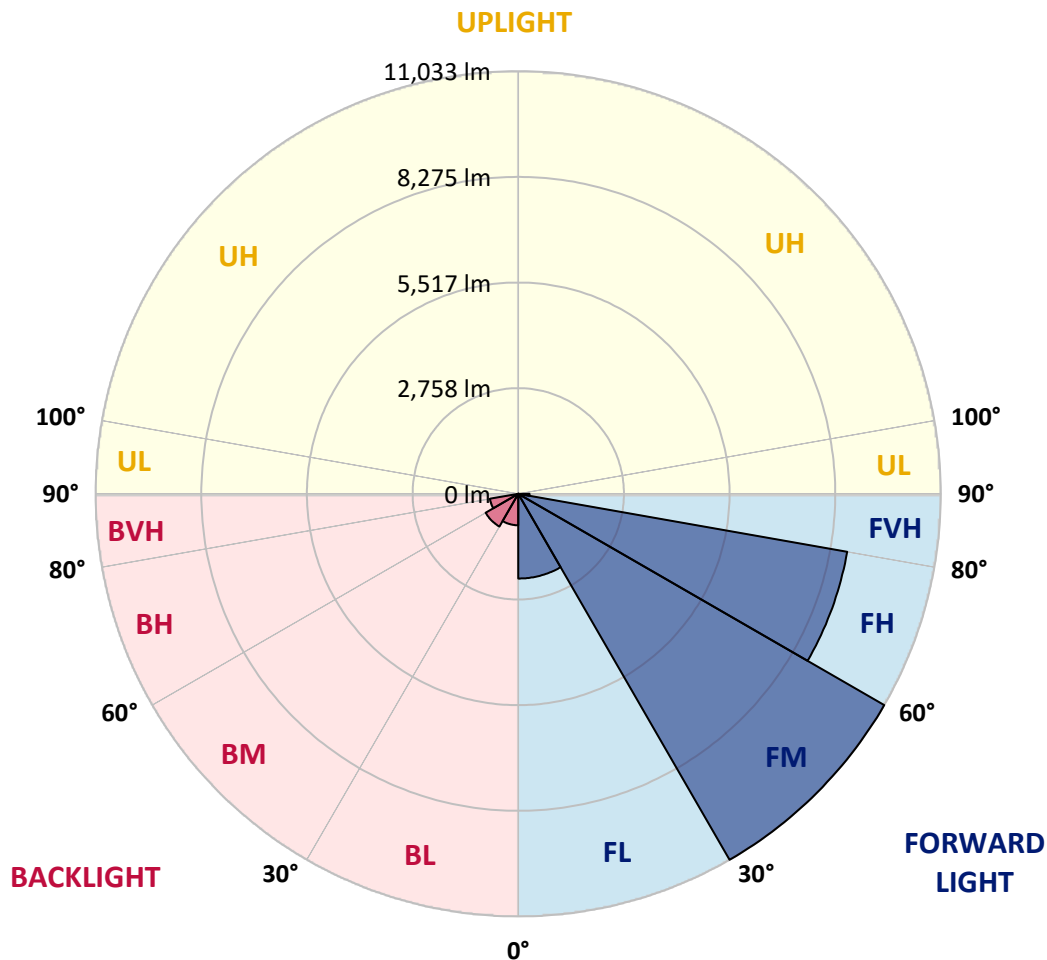


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2212.1	8.9			
FM (30°-60°)	11033.2	44.4			
FH (60°-80°)	8720.7	35.1			G4/12000
FVH (80°-90°)	292.5	1.2			G3/500
BL (0°-30°)	821.3	3.3	B2/1000		
BM (30°-60°)	984.6	4.0	B1/1000		
BH (60°-80°)	751.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.6	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°	64°	65°	75°	85°
0°	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1
2.5°	6204.0	6210.8	6219.1	6230.9	6239.3	6214.0	6178.9	6138.6	6130.3	6044.8	5940.8
5°	5872.0	5882.1	5955.9	5996.1	6086.7	6168.8	6220.8	6227.5	6224.1	6143.7	5977.7
7.5°	5399.2	5427.7	5499.8	5570.2	5739.5	5895.5	6079.9	6209.0	6217.4	6195.6	5989.4
10°	5015.2	5033.7	5070.6	5209.7	5350.6	5588.7	5846.9	6090.0	6110.1	6197.3	5979.3
12.5°	4715.1	4741.8	4787.2	4894.5	5063.8	5288.5	5581.9	5908.9	5950.8	6165.4	5950.8
15°	4505.5	4518.8	4564.2	4669.8	4834.1	5042.1	5338.8	5719.4	5756.3	6123.5	5945.8
17.5°	4406.6	4421.6	4453.5	4537.3	4673.1	4866.0	5156.1	5566.8	5613.8	6096.7	5964.3
20°	4433.3	4446.7	4448.5	4492.1	4584.2	4746.9	5021.9	5424.3	5484.7	6079.9	5994.4
22.5°	4586.0	4587.6	4567.5	4547.4	4579.2	4696.6	4939.7	5333.8	5395.8	6076.5	6029.6
25°	4814.0	4819.1	4785.5	4715.1	4651.3	4711.7	4921.3	5275.1	5330.4	6068.2	6051.4
27.5°	5129.2	5127.6	5117.5	5000.1	4819.1	4778.8	4936.4	5243.2	5290.2	6044.8	6059.8
30°	5570.2	5556.8	5535.0	5402.5	5125.8	4941.4	5000.1	5223.1	5266.7	6011.2	6038.0
32.5°	6004.5	6054.8	6051.4	5925.7	5580.3	5231.5	5132.6	5249.9	5281.8	5989.4	6006.2
35°	6510.9	6509.2	6638.3	6591.4	6187.3	5602.1	5358.9	5338.8	5363.9	6004.5	5991.0
37.5°	6980.4	7024.0	7225.1	7273.8	6904.9	6125.2	5679.2	5529.9	5538.3	6106.8	6027.9
40°	7565.6	7649.4	7949.6	8112.2	7786.9	6901.5	6152.0	5880.4	5882.1	6358.3	6167.1
42.5°	8320.1	8452.6	8732.6	9004.2	8829.8	7820.4	6861.3	6435.4	6432.0	6801.0	6485.7
45°	9237.3	9329.5	9648.1	10079.0	9968.4	9103.2	7894.2	7295.6	7252.0	7527.0	7050.8
47.5°	10028.7	10154.5	10478.1	10969.4	11472.4	10669.2	9128.3	8477.7	8449.2	8682.3	8020.0
50°	10374.1	10484.8	10825.2	11514.3	12733.3	12724.9	10966.0	10203.1	10154.5	10280.2	9519.0
52.5°	9995.2	10099.1	10442.9	11301.4	13326.9	15230.1	13628.7	12367.8	12309.1	12148.2	11309.7
55°	8697.3	8782.9	9290.9	10276.9	13098.9	16900.1	17297.5	15042.2	14814.2	14188.7	13337.0
57.5°	6925.0	6881.4	7196.6	8341.9	11760.8	17460.1	21063.5	18374.0	17966.5	15952.7	15052.3
60°	4798.9	4933.1	5060.5	5815.0	8843.3	16489.3	23405.9	22562.5	22025.9	17688.1	16695.5
62.5°	3527.9	3616.8	3700.6	4049.4	5560.2	13165.9	23820.1	26865.1	26388.9	19530.9	18263.3
65°	2790.1	2796.9	2830.4	3174.1	3663.7	8561.6	21829.8	29291.3	29168.9	21305.0	18898.8
66°	2542.0	2543.7	2595.6	2964.5	3288.1	6972.0	20235.1	29475.8	29542.9	21730.8	18712.7
67.5°	2221.7	2215.0	2290.4	2664.4	2994.7	5026.9	17381.3	28728.0	29125.3	22057.8	18043.6
70°	1722.1	1713.7	1805.9	2235.2	2758.3	3353.5	11552.9	24666.8	25307.3	21388.7	15964.4
72.5°	1146.9	1153.6	1311.2	1763.9	2632.5	2952.8	6950.1	18764.7	19670.1	17663.0	12558.9
75°	669.0	680.7	860.2	1311.2	2285.4	2815.3	3933.7	13380.5	13959.0	12196.8	7823.7
77.5°	350.5	355.5	481.2	865.2	1752.2	2614.0	2620.8	8548.2	8819.8	5927.4	3097.0
80°	186.1	181.1	258.2	521.5	1205.6	2295.5	2126.2	4525.6	4705.0	1760.6	783.1
82.5°	70.4	77.1	137.5	342.1	712.6	1648.3	1831.0	2000.4	1938.3	387.4	328.6
85°	13.4	16.8	58.7	202.9	358.8	689.1	1349.8	980.9	908.8	145.9	189.5
87.5°	1.6	3.4	16.8	48.6	52.0	233.1	399.1	271.6	234.7	53.6	78.8
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°	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1	5887.1
2.5°	5890.4	5845.2	5694.3	5545.0	5392.4	5254.9	5161.1	5008.5	4969.9	4914.6	4882.7
5°	5878.8	5773.1	5483.0	5166.1	4871.0	4552.4	4309.2	4074.5	3948.7	3885.1	3861.6
7.5°	5845.2	5677.5	5224.8	4728.5	4255.6	3779.4	3365.3	3050.0	2847.1	2708.0	2614.0
10°	5778.1	5546.7	4924.7	4242.2	3527.9	2899.1	2374.3	1975.2	1666.7	1569.4	1572.8
12.5°	5709.4	5400.8	4589.3	3702.3	2817.0	2023.8	1467.2	1151.9	1004.4	955.7	945.7
15°	5645.7	5261.7	4260.6	3179.1	2097.7	1311.2	945.7	835.0	794.8	786.4	784.7
17.5°	5612.2	5132.6	3910.2	2580.5	1463.8	890.3	757.9	727.7	716.0	707.6	704.2
20°	5583.7	5020.2	3574.9	2020.5	1001.1	729.4	679.1	650.6	630.5	622.1	617.1
22.5°	5563.5	4904.6	3227.8	1564.4	766.2	647.2	602.0	565.1	536.6	526.5	519.8
25°	5533.3	4777.1	2877.3	1143.6	645.6	575.1	523.1	479.6	442.6	424.2	420.9
27.5°	5489.7	4632.9	2493.3	846.7	576.8	511.4	447.7	394.0	357.1	337.0	338.7
30°	5419.3	4482.0	2109.4	672.4	521.5	446.0	377.2	325.3	290.1	275.0	273.3
32.5°	5335.4	4299.2	1757.2	576.8	471.1	387.4	315.2	270.0	243.1	231.4	229.7
35°	5256.7	4114.7	1398.4	518.1	419.2	333.7	265.0	226.4	206.2	196.2	197.9
37.5°	5213.1	3950.5	1089.9	471.1	377.2	286.7	228.0	194.5	176.1	167.6	166.0
40°	5241.6	3816.3	866.9	429.2	330.3	246.5	196.2	167.6	149.2	137.5	137.5
42.5°	5375.7	3757.6	699.2	389.0	286.7	213.0	171.0	144.2	124.1	112.4	114.0
45°	5784.8	3819.6	585.2	352.1	246.5	184.5	147.5	119.0	100.6	92.2	90.5
47.5°	6463.9	4052.7	506.4	313.6	211.3	157.6	124.1	98.9	80.5	73.8	72.1
50°	7651.1	4534.0	447.7	275.0	179.4	134.1	102.3	78.8	63.7	57.0	57.0
52.5°	9284.3	5583.7	405.8	231.4	150.9	114.0	83.9	63.7	50.3	45.3	43.6
55°	10991.2	6690.3	384.0	194.5	125.7	93.9	67.1	50.3	38.6	33.5	31.9
57.5°	12632.8	7558.8	358.8	157.6	100.6	72.1	52.0	38.6	26.9	23.5	21.8
60°	14207.2	8261.4	305.1	125.7	78.8	52.0	38.6	26.9	18.5	15.1	15.1
62.5°	15615.7	8670.6	239.8	100.6	60.4	36.9	25.1	20.1	13.4	10.0	10.0
65°	15780.0	8139.0	181.1	77.1	43.6	23.5	15.1	15.1	10.0	6.7	6.7
66°	15449.7	7688.0	159.3	70.4	38.6	20.1	13.4	11.7	8.4	5.0	5.0
67.5°	14711.9	6918.4	137.5	60.4	31.9	15.1	10.0	10.0	6.7	3.4	3.4
70°	12711.5	5650.7	109.0	45.3	23.5	11.7	6.7	6.7	5.0	3.4	3.4
72.5°	9688.3	4218.7	88.9	33.5	16.8	8.4	5.0	5.0	5.0	3.4	3.4
75°	5843.5	2272.0	68.7	25.1	15.1	6.7	3.4	5.0	6.7	5.0	3.4
77.5°	2152.9	773.0	53.6	20.1	11.7	6.7	3.4	3.4	6.7	5.0	5.0
80°	528.2	201.2	38.6	16.8	11.7	6.7	3.4	3.4	6.7	6.7	6.7
82.5°	244.8	85.5	26.9	15.1	11.7	6.7	3.4	3.4	5.0	6.7	6.7
85°	140.9	40.2	21.8	16.8	11.7	6.7	3.4	3.4	5.0	6.7	6.7
87.5°	57.0	20.1	20.1	16.8	13.4	8.4	3.4	3.4	3.4	5.0	5.0
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)