

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: P454459

Luminaire Tested: **GALN-SA5C-750-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454459  
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-750-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 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: 28815 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

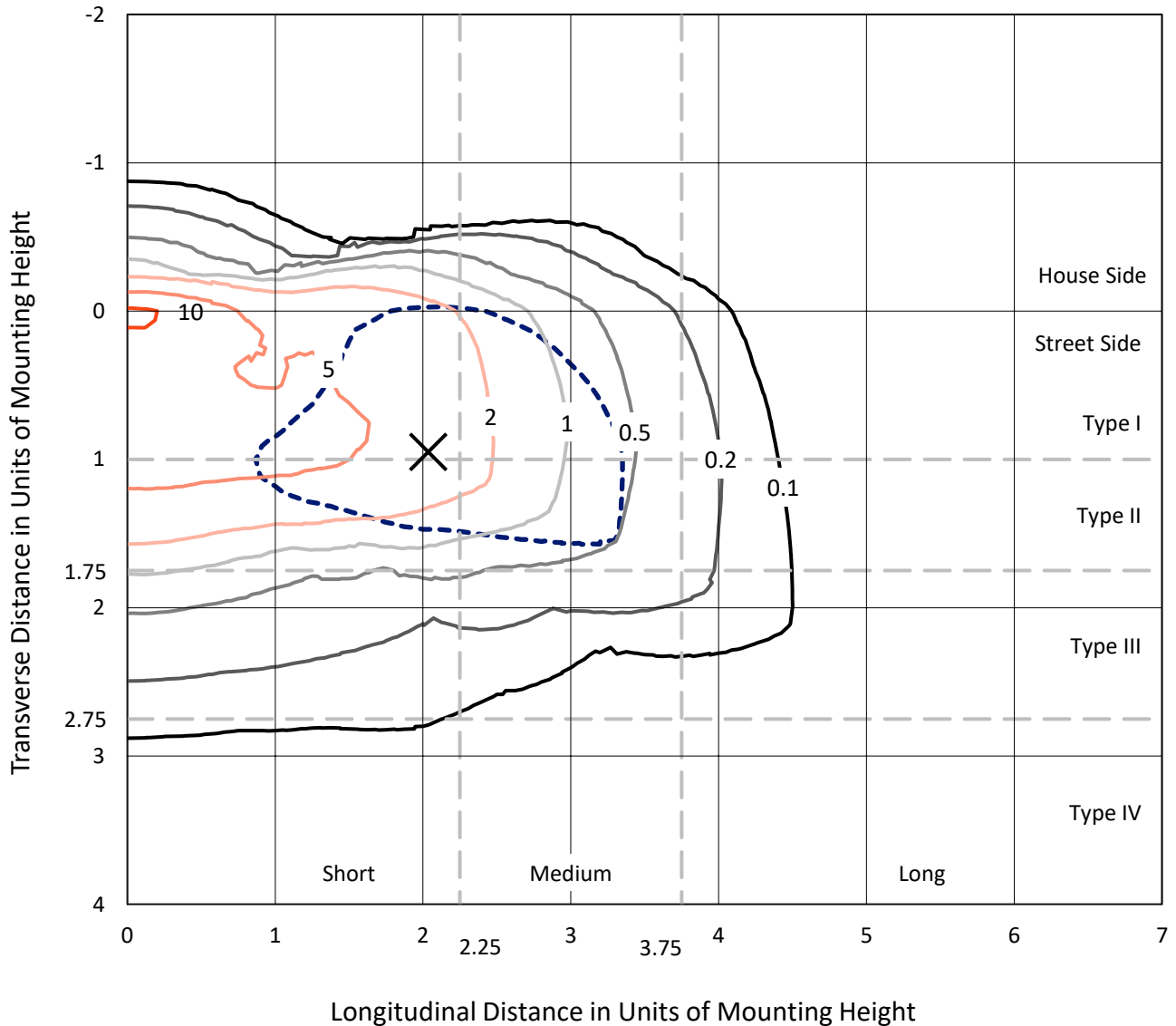
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

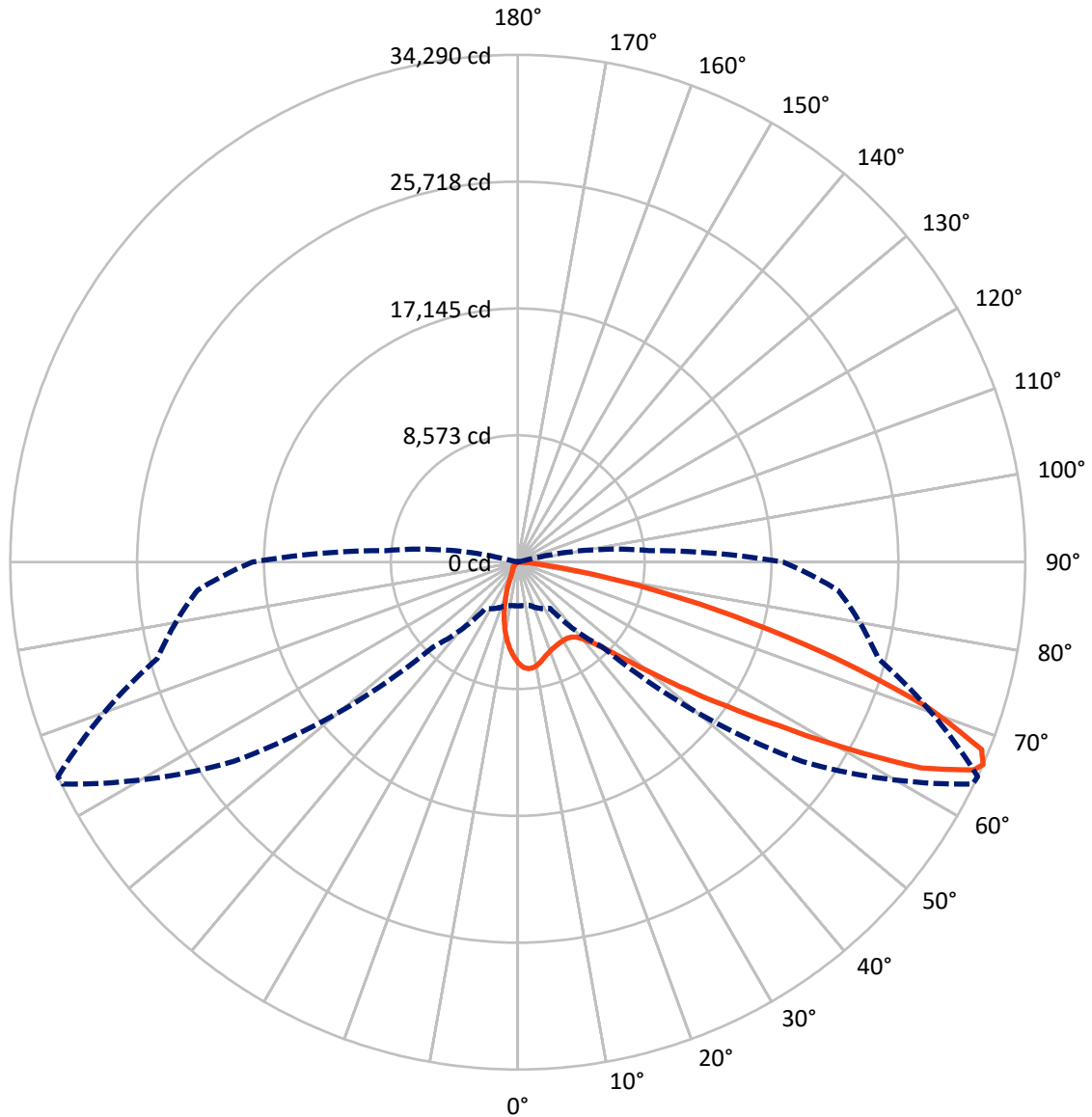
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	2979.9	0.0	2979.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	25835.1	0.0	25835.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	28815.0	0.0	28815.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.8	1.9
10°-20°	1217.6	4.2
20°-30°	1744.3	6.1
30°-40°	2547.7	8.8
40°-50°	4272.0	14.8
50°-60°	7129.2	24.7
60°-70°	7567.4	26.3
70°-80°	3427.3	11.9
80°-90°	350.7	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°	28815.0	100.0
0°-180°	28815.0	100.0

**Coefficient of Utilization**



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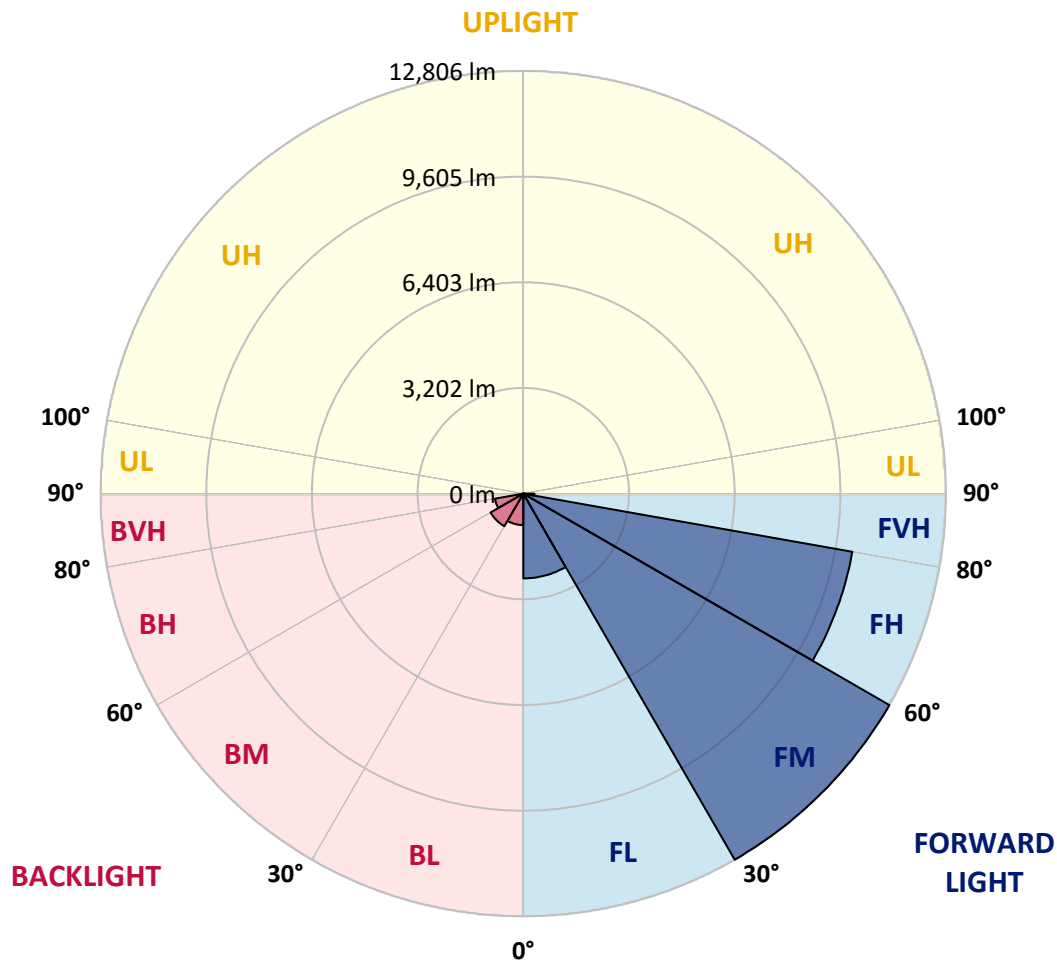
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2567.5	8.9			
FM (30°-60°)	12806.0	44.4			
FH (60°-80°)	10122.1	35.1			G4/12000
FVH (80°-90°)	339.5	1.2			G3/500
BL (0°-30°)	953.2	3.3	B2/1000		
BM (30°-60°)	1142.8	4.0	B2/2500		
BH (60°-80°)	872.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	11.2	0.0			G1/100
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°	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1
2.5°	7200.9	7208.7	7218.4	7232.1	7241.8	7212.6	7171.7	7125.0	7115.3	7016.0	6895.4
5°	6815.6	6827.3	6912.9	6959.6	7064.7	7160.1	7220.4	7228.2	7224.3	7130.9	6938.2
7.5°	6266.8	6299.8	6383.5	6465.3	6661.8	6842.8	7056.9	7206.8	7216.5	7191.2	6951.8
10°	5821.1	5842.5	5885.3	6046.8	6210.3	6486.7	6786.4	7068.6	7091.9	7193.1	6940.1
12.5°	5472.7	5503.8	5556.4	5681.0	5877.5	6138.3	6478.9	6858.4	6907.1	7156.2	6907.1
15°	5229.4	5245.0	5297.5	5420.2	5610.9	5852.2	6196.7	6638.5	6681.3	7107.5	6901.2
17.5°	5114.6	5132.1	5169.1	5266.4	5424.1	5647.9	5984.6	6461.4	6515.9	7076.4	6922.6
20°	5145.7	5161.3	5163.3	5213.9	5320.9	5509.7	5828.9	6295.9	6366.0	7056.9	6957.7
22.5°	5322.9	5324.8	5301.4	5278.1	5315.1	5451.3	5733.5	6190.9	6262.9	7053.0	6998.5
25°	5587.5	5593.4	5554.4	5472.7	5398.8	5468.8	5712.1	6122.7	6187.0	7043.3	7023.8
27.5°	5953.4	5951.5	5939.8	5803.6	5593.4	5546.7	5729.6	6085.8	6140.3	7016.0	7033.6
30°	6465.3	6449.7	6424.4	6270.6	5949.5	5735.4	5803.6	6062.4	6113.0	6977.1	7008.3
32.5°	6969.3	7027.7	7023.8	6877.9	6476.9	6072.1	5957.3	6093.5	6130.5	6951.8	6971.3
35°	7557.1	7555.1	7705.0	7650.5	7181.5	6502.2	6220.0	6196.7	6225.9	6969.3	6953.8
37.5°	8102.0	8152.6	8386.2	8442.6	8014.4	7109.5	6591.8	6418.6	6428.3	7088.1	6996.6
40°	8781.2	8878.6	9226.9	9415.7	9038.1	8010.5	7140.6	6825.3	6827.3	7380.0	7158.1
42.5°	9657.0	9810.8	10135.8	10451.1	10248.7	9077.1	7963.8	7469.5	7465.6	7893.8	7527.9
45°	10721.6	10828.6	11198.4	11698.6	11570.1	10565.9	9162.7	8467.9	8417.3	8736.5	8183.8
47.5°	11640.2	11786.2	12161.8	12732.0	13315.9	12383.7	10595.1	9840.0	9806.9	10077.4	9308.7
50°	12041.1	12169.6	12564.7	13364.5	14779.4	14769.7	12728.1	11842.6	11786.2	11932.1	11048.6
52.5°	11601.3	11721.9	12120.9	13117.4	15468.4	17677.3	15818.7	14355.2	14287.0	14100.2	13127.1
55°	10094.9	10194.2	10783.9	11928.2	15203.7	19615.7	20077.0	17459.3	17194.7	16468.7	15480.1
57.5°	8037.8	7987.2	8353.1	9682.3	13650.6	20265.8	24448.1	21326.4	20853.5	18516.1	17471.0
60°	5570.0	5725.7	5873.6	6749.4	10264.2	19138.9	27167.0	26188.0	25565.2	20530.4	19378.3
62.5°	4094.8	4197.9	4295.3	4700.1	6453.6	15281.5	27647.7	31182.0	30629.3	22669.3	21198.0
65°	3238.5	3246.3	3285.2	3684.2	4252.4	9937.3	25337.5	33998.1	33856.1	24728.4	21935.6
66°	2950.4	2952.4	3012.7	3440.9	3816.5	8092.3	23486.7	34212.2	34290.1	25222.7	21719.6
67.5°	2578.7	2570.9	2658.5	3092.5	3475.9	5834.7	20174.3	33344.2	33805.4	25602.2	20943.0
70°	1998.7	1989.0	2096.1	2594.3	3201.5	3892.4	13409.3	28630.5	29374.0	24825.7	18529.7
72.5°	1331.2	1339.0	1521.9	2047.4	3055.5	3427.3	8067.0	21779.9	22830.8	20501.2	14577.0
75°	776.5	790.2	998.4	1521.9	2652.7	3267.7	4565.8	15530.7	16202.1	14156.6	9081.0
77.5°	406.8	412.6	558.6	1004.2	2033.8	3034.1	3041.9	9921.7	10237.0	6879.8	3594.6
80°	216.0	210.2	299.7	605.3	1399.3	2664.3	2467.8	5252.8	5461.0	2043.5	908.9
82.5°	81.7	89.5	159.6	397.0	827.1	1913.1	2125.2	2321.8	2249.8	449.6	381.5
85°	15.6	19.5	68.1	235.5	416.5	799.9	1566.7	1138.5	1054.8	169.3	219.9
87.5°	1.9	3.9	19.5	56.4	60.3	270.5	463.2	315.3	272.5	62.3	91.5
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°	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1	6833.1
2.5°	6837.0	6784.4	6609.3	6436.1	6259.0	6099.4	5990.4	5813.3	5768.5	5704.3	5667.3
5°	6823.4	6700.8	6364.1	5996.2	5653.7	5283.9	5001.7	4729.3	4583.3	4509.3	4482.1
7.5°	6784.4	6589.8	6064.4	5488.3	4939.4	4386.7	3906.0	3540.1	3304.6	3143.1	3034.1
10°	6706.6	6438.0	5716.0	4923.9	4094.8	3365.0	2755.8	2292.6	1934.5	1821.6	1825.5
12.5°	6626.8	6268.7	5326.7	4297.2	3269.6	2349.1	1702.9	1337.0	1165.8	1109.3	1097.7
15°	6552.8	6107.2	4945.3	3690.0	2434.7	1521.9	1097.7	969.2	922.5	912.8	910.8
17.5°	6513.9	5957.3	4538.5	2995.2	1699.0	1033.4	879.7	844.6	831.0	821.3	817.4
20°	6480.8	5826.9	4149.3	2345.2	1161.9	846.6	788.2	755.1	731.8	722.0	716.2
22.5°	6457.5	5692.6	3746.4	1815.8	889.4	751.2	698.7	655.9	622.8	611.1	603.3
25°	6422.5	5544.7	3339.7	1327.3	749.3	667.5	607.2	556.6	513.8	492.4	488.5
27.5°	6371.9	5377.3	2894.0	982.8	669.5	593.6	519.6	457.4	414.5	391.2	393.1
30°	6290.1	5202.2	2448.3	780.4	605.3	517.7	437.9	377.6	336.7	319.2	317.2
32.5°	6192.8	4990.1	2039.6	669.5	546.9	449.6	365.9	313.3	282.2	268.6	266.6
35°	6101.3	4776.0	1623.1	601.4	486.5	387.3	307.5	262.7	239.4	227.7	229.7
37.5°	6050.7	4585.2	1265.0	546.9	437.9	332.8	264.7	225.8	204.4	194.6	192.7
40°	6083.8	4429.5	1006.2	498.2	383.4	286.1	227.7	194.6	173.2	159.6	159.6
42.5°	6239.5	4361.4	811.6	451.5	332.8	247.2	198.5	167.4	144.0	130.4	132.3
45°	6714.4	4433.4	679.2	408.7	286.1	214.1	171.3	138.2	116.8	107.0	105.1
47.5°	7502.6	4704.0	587.8	363.9	245.2	182.9	144.0	114.8	93.4	85.6	83.7
50°	8880.5	5262.5	519.6	319.2	208.2	155.7	118.7	91.5	74.0	66.2	66.2
52.5°	10776.1	6480.8	471.0	268.6	175.2	132.3	97.3	74.0	58.4	52.5	50.6
55°	12757.3	7765.3	445.7	225.8	146.0	109.0	77.8	58.4	44.8	38.9	37.0
57.5°	14662.7	8773.5	416.5	182.9	116.8	83.7	60.3	44.8	31.1	27.2	25.3
60°	16490.1	9588.9	354.2	146.0	91.5	60.3	44.8	31.1	21.4	17.5	17.5
62.5°	18124.9	10063.8	278.3	116.8	70.1	42.8	29.2	23.4	15.6	11.7	11.7
65°	18315.7	9446.8	210.2	89.5	50.6	27.2	17.5	17.5	11.7	7.8	7.8
66°	17932.3	8923.3	184.9	81.7	44.8	23.4	15.6	13.6	9.7	5.8	5.8
67.5°	17075.9	8030.0	159.6	70.1	37.0	17.5	11.7	11.7	7.8	3.9	3.9
70°	14754.1	6558.7	126.5	52.5	27.2	13.6	7.8	7.8	5.8	3.9	3.9
72.5°	11245.1	4896.6	103.1	38.9	19.5	9.7	5.8	5.8	5.8	3.9	3.9
75°	6782.5	2637.1	79.8	29.2	17.5	7.8	3.9	5.8	7.8	5.8	3.9
77.5°	2498.9	897.2	62.3	23.4	13.6	7.8	3.9	3.9	7.8	5.8	5.8
80°	613.1	233.5	44.8	19.5	13.6	7.8	3.9	3.9	7.8	7.8	7.8
82.5°	284.1	99.3	31.1	17.5	13.6	7.8	3.9	3.9	5.8	7.8	7.8
85°	163.5	46.7	25.3	19.5	13.6	7.8	3.9	3.9	5.8	7.8	7.8
87.5°	66.2	23.4	23.4	19.5	15.6	9.7	3.9	3.9	3.9	5.8	5.8
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)