

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: P454418

Luminaire Tested: **GALN-SA5C-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25104 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

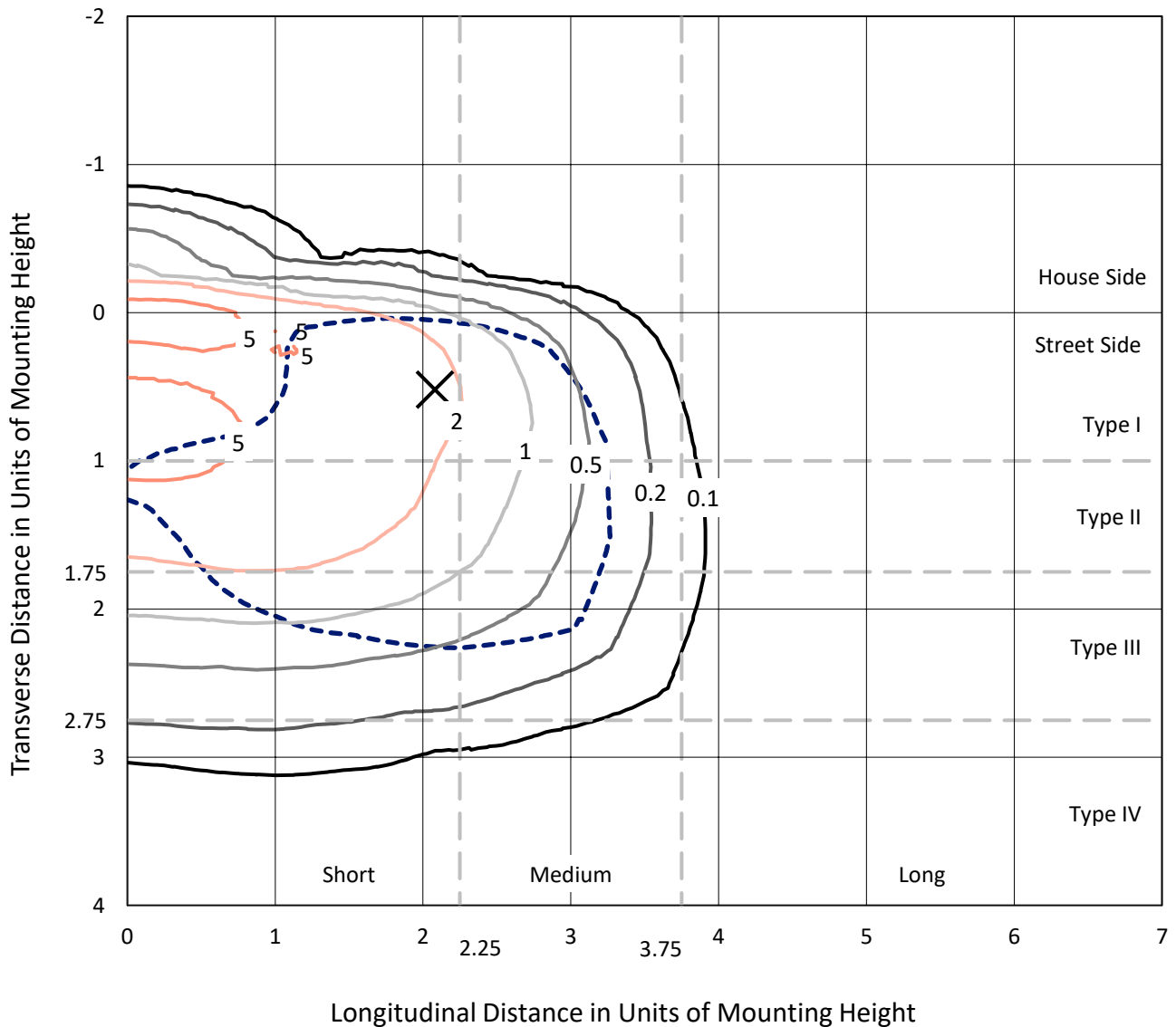
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

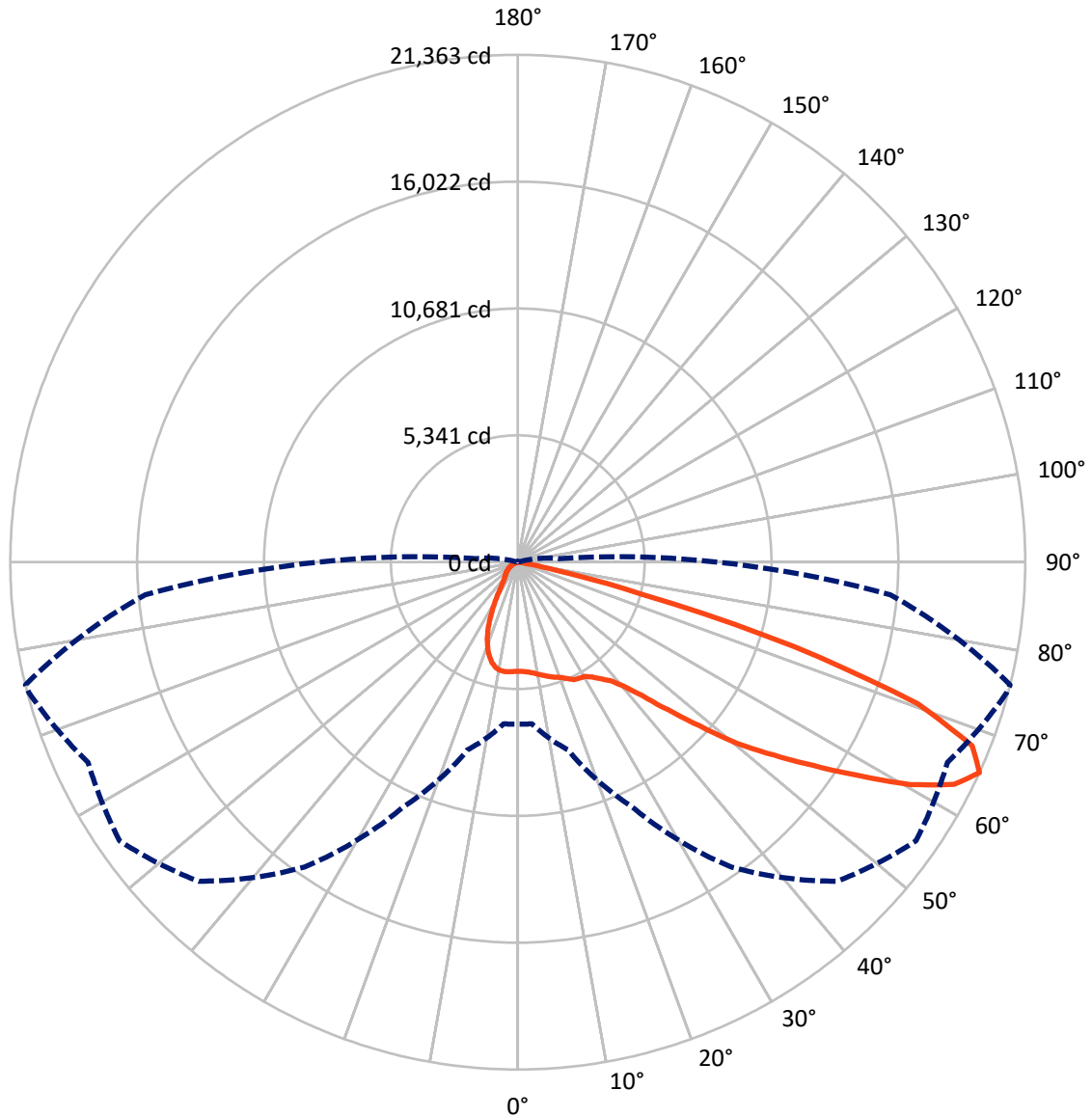
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1813.0	0.0	1813.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23291.0	0.0	23291.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	25104.0	0.0	25104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.3	1.5
10°-20°	842.3	3.4
20°-30°	1357.3	5.4
30°-40°	2360.0	9.4
40°-50°	3899.8	15.5
50°-60°	6024.4	24.0
60°-70°	7356.6	29.3
70°-80°	2792.0	11.1
80°-90°	93.2	0.4
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°	25104.0	100.0
0°-180°	25104.0	100.0

Coefficient of Utilization



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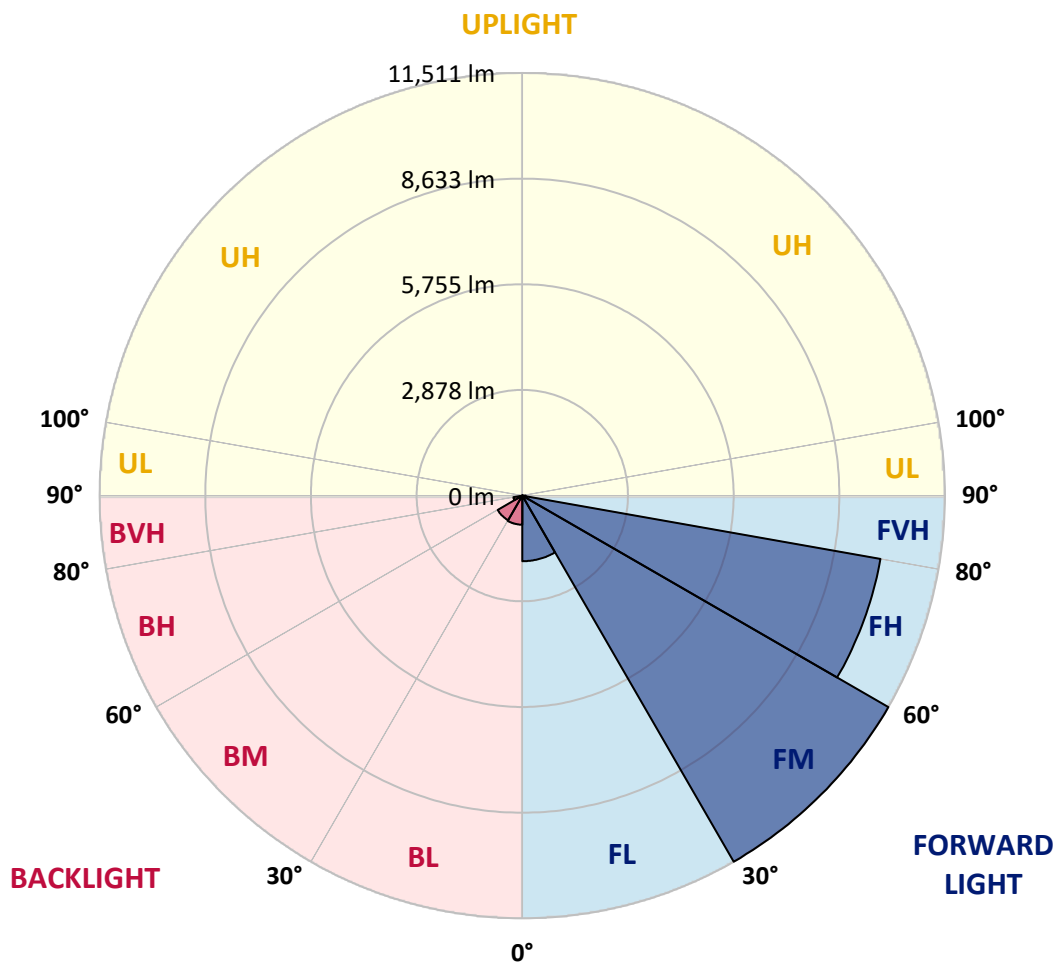
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1785.9	7.1			
FM (30°-60°)	11510.6	45.9			
FH (60°-80°)	9902.7	39.4			G4/12000
FVH (80°-90°)	91.9	0.4			G1/100
BL (0°-30°)	792.1	3.2	B2/1000		
BM (30°-60°)	773.7	3.1	B1/1000		
BH (60°-80°)	246.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3
2.5°	4388.5	4390.3	4400.9	4427.5	4468.3	4501.9	4530.3	4576.4	4608.3	4611.8	4622.5
5°	4085.4	4064.1	4085.4	4154.5	4216.6	4310.5	4425.7	4540.9	4643.7	4650.8	4700.4
7.5°	3745.1	3762.8	3796.5	3867.4	3984.4	4128.0	4294.6	4500.2	4695.1	4712.8	4810.3
10°	3399.5	3438.5	3493.4	3601.5	3764.6	3950.7	4177.6	4471.8	4776.7	4801.5	4969.8
12.5°	3080.5	3098.2	3165.5	3310.9	3512.9	3775.2	4089.0	4455.8	4867.0	4897.2	5140.0
15°	2835.9	2858.9	2917.4	3048.6	3273.6	3610.4	4016.3	4450.5	4955.7	4998.2	5310.2
17.5°	2789.8	2804.0	2828.8	2917.4	3114.1	3479.2	3950.7	4448.8	5040.7	5092.1	5467.9
20°	2979.4	2967.0	2942.2	2933.3	3041.5	3378.2	3902.9	4462.9	5122.3	5180.8	5634.5
22.5°	3454.4	3470.4	3325.0	3153.1	3117.7	3362.3	3895.8	4530.3	5251.7	5320.8	5820.6
25°	4462.9	4340.6	4113.8	3702.6	3392.4	3459.8	3975.5	4689.8	5402.3	5478.5	5989.0
27.5°	5577.8	5540.6	5187.9	4510.8	3933.0	3665.4	4117.3	4812.1	5451.9	5529.9	6084.7
30°	6673.1	6717.4	6313.3	5565.4	4718.2	4046.4	4250.2	4858.2	5496.3	5577.8	6207.0
32.5°	7688.7	7741.9	7387.4	6646.5	5643.4	4705.8	4478.9	5037.2	5682.4	5765.7	6410.8
35°	8488.1	8495.2	8227.5	7637.3	6653.6	5506.9	4973.4	5350.9	5934.0	6031.5	6627.1
37.5°	9221.9	9211.2	8897.5	8388.8	7495.5	6302.7	5595.5	5712.5	6221.2	6322.2	6939.0
40°	9766.0	9773.1	9672.1	9193.5	8280.7	7038.3	6088.2	6051.0	6703.3	6861.0	7392.7
42.5°	10129.3	10194.9	10244.5	10001.7	9267.9	7944.0	6845.1	6775.9	7539.8	7671.0	8034.3
45°	10423.6	10540.5	10788.7	10776.3	10216.2	9055.3	7883.7	7741.9	8725.6	8865.6	8851.4
47.5°	10638.0	10756.8	11168.0	11416.1	11107.7	10132.9	9190.0	9067.7	10141.7	10294.2	9753.6
50°	10747.9	10889.7	11414.3	11894.7	11804.3	11171.5	10678.8	10685.9	11852.1	11999.2	10799.3
52.5°	10490.9	10675.2	11545.5	12410.4	12585.9	12165.8	12073.7	12307.6	13374.6	13500.5	11744.0
55°	9670.3	9902.5	11366.5	12850.0	13491.6	13339.2	13658.2	14014.5	15038.9	15120.5	12713.5
57.5°	9151.0	9397.3	10838.3	13224.0	14579.9	14813.8	15319.0	15579.5	16756.4	16963.8	13826.6
60°	8713.2	8906.4	10404.1	13303.7	15685.9	16618.1	17109.1	17378.5	18876.2	19010.9	15051.3
62.5°	7984.7	8206.3	9670.3	12747.2	16242.4	18062.7	19080.0	18959.5	20515.7	20609.6	15802.8
65°	6813.2	6832.7	8181.5	11348.8	15668.1	19000.3	20464.3	19959.1	21299.1	21362.9	15744.3
67.5°	5085.1	5272.9	6293.8	8920.6	13234.6	18199.1	20912.7	19985.7	20804.6	20627.3	14494.8
70°	3275.4	3419.0	4266.2	6185.7	9542.7	15187.8	19425.6	18615.7	18259.4	17865.9	11864.5
72.5°	1511.9	1696.2	2534.6	3534.2	5659.3	10818.8	15769.2	15124.0	13142.4	12171.2	7541.6
75°	659.3	705.4	1251.3	1864.6	2653.3	5721.4	10397.0	9388.5	5935.8	5421.8	3018.4
77.5°	402.3	432.5	655.8	999.6	1042.2	2180.1	5600.8	4096.0	1834.4	1618.2	818.9
80°	273.0	306.6	476.8	522.9	356.3	607.9	2102.1	1093.6	370.4	354.5	175.5
82.5°	132.9	168.4	352.7	292.4	154.2	195.0	611.5	234.0	108.1	101.0	62.0
85°	19.5	33.7	198.5	191.4	69.1	46.1	108.1	58.5	37.2	35.4	28.4
87.5°	0.0	0.0	67.4	30.1	7.1	7.1	12.4	12.4	14.2	12.4	14.2
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°	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3	4592.3
2.5°	4627.8	4636.6	4603.0	4555.1	4503.7	4452.3	4379.6	4314.1	4275.1	4298.1	4241.4
5°	4711.1	4704.0	4615.4	4470.0	4276.8	4044.6	3814.2	3617.5	3553.7	3458.0	3447.3
7.5°	4826.3	4806.8	4618.9	4285.7	3849.7	3413.7	2988.3	2706.5	2545.2	2408.7	2412.3
10°	4987.6	4930.9	4578.1	3961.3	3243.5	2586.0	2043.6	1671.4	1510.1	1458.7	1417.9
12.5°	5154.2	5044.3	4464.7	3523.6	2525.7	1767.1	1242.5	1015.6	916.3	884.4	880.9
15°	5303.1	5129.4	4266.2	2997.2	1836.2	1129.0	847.2	772.8	760.4	762.1	760.4
17.5°	5450.2	5196.7	3991.5	2438.8	1247.8	810.0	728.5	710.7	716.1	723.1	721.4
20°	5572.5	5210.9	3640.5	1861.0	882.7	710.7	684.2	680.6	685.9	691.2	691.2
22.5°	5705.4	5221.5	3224.0	1288.5	721.4	661.1	646.9	646.9	654.0	661.1	662.9
25°	5804.7	5163.0	2726.0	925.2	636.3	613.3	606.2	607.9	615.0	618.6	616.8
27.5°	5820.6	4998.2	2197.8	709.0	577.8	554.8	547.7	554.8	545.9	551.2	547.7
30°	5834.8	4789.1	1662.5	597.3	524.6	489.2	478.6	467.9	460.8	452.0	450.2
32.5°	5879.1	4542.7	1214.1	537.0	475.0	436.0	411.2	381.1	358.0	350.9	349.2
35°	5898.6	4246.7	891.5	489.2	430.7	388.2	343.8	301.3	267.6	255.2	264.1
37.5°	5973.0	3959.6	691.2	453.7	391.7	338.5	281.8	228.6	196.7	189.6	193.2
40°	6125.5	3647.6	579.6	423.6	358.0	292.4	223.3	171.9	150.7	143.6	141.8
42.5°	6370.1	3337.5	515.8	395.2	324.4	246.4	175.5	134.7	117.0	111.7	111.7
45°	6667.8	3039.7	471.5	365.1	288.9	198.5	138.2	108.1	97.5	93.9	93.9
47.5°	7059.5	2779.1	434.2	335.0	249.9	157.7	111.7	93.9	86.8	88.6	90.4
50°	7456.5	2586.0	393.5	301.3	205.6	129.4	95.7	83.3	81.5	83.3	83.3
52.5°	7756.1	2472.5	338.5	255.2	161.3	108.1	85.1	78.0	76.2	72.7	72.7
55°	8160.2	2447.7	269.4	207.4	127.6	90.4	76.2	70.9	65.6	62.0	60.3
57.5°	8679.5	2476.1	207.4	161.3	99.3	74.4	67.4	58.5	51.4	44.3	44.3
60°	9002.1	2412.3	161.3	124.1	72.7	60.3	51.4	42.5	33.7	28.4	26.6
62.5°	8899.3	2142.8	127.6	92.2	51.4	44.3	33.7	28.4	19.5	14.2	12.4
65°	8369.3	1729.9	102.8	63.8	37.2	26.6	17.7	17.7	8.9	1.8	0.0
67.5°	7325.4	1281.5	81.5	42.5	21.3	12.4	8.9	5.3	0.0	0.0	0.0
70°	5962.4	925.2	63.8	26.6	12.4	8.9	3.5	1.8	0.0	0.0	0.0
72.5°	3785.9	530.0	49.6	16.0	8.9	3.5	0.0	0.0	0.0	0.0	0.0
75°	1464.0	207.4	33.7	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	414.7	97.5	19.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	108.1	42.5	10.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.4	17.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.1	7.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)