

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: P383234

Luminaire Tested: **GLEON-SA5C-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23997.6 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

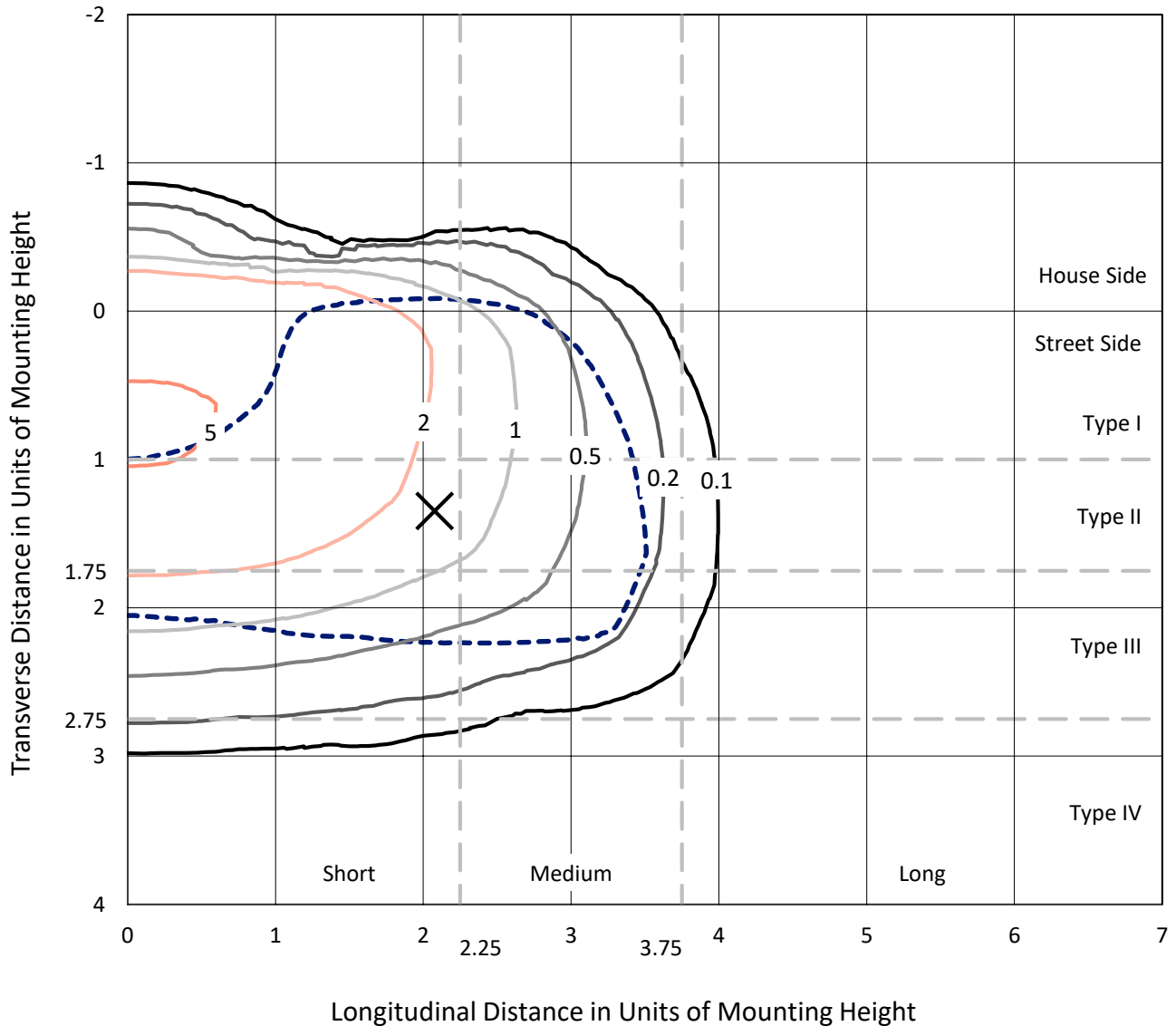
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

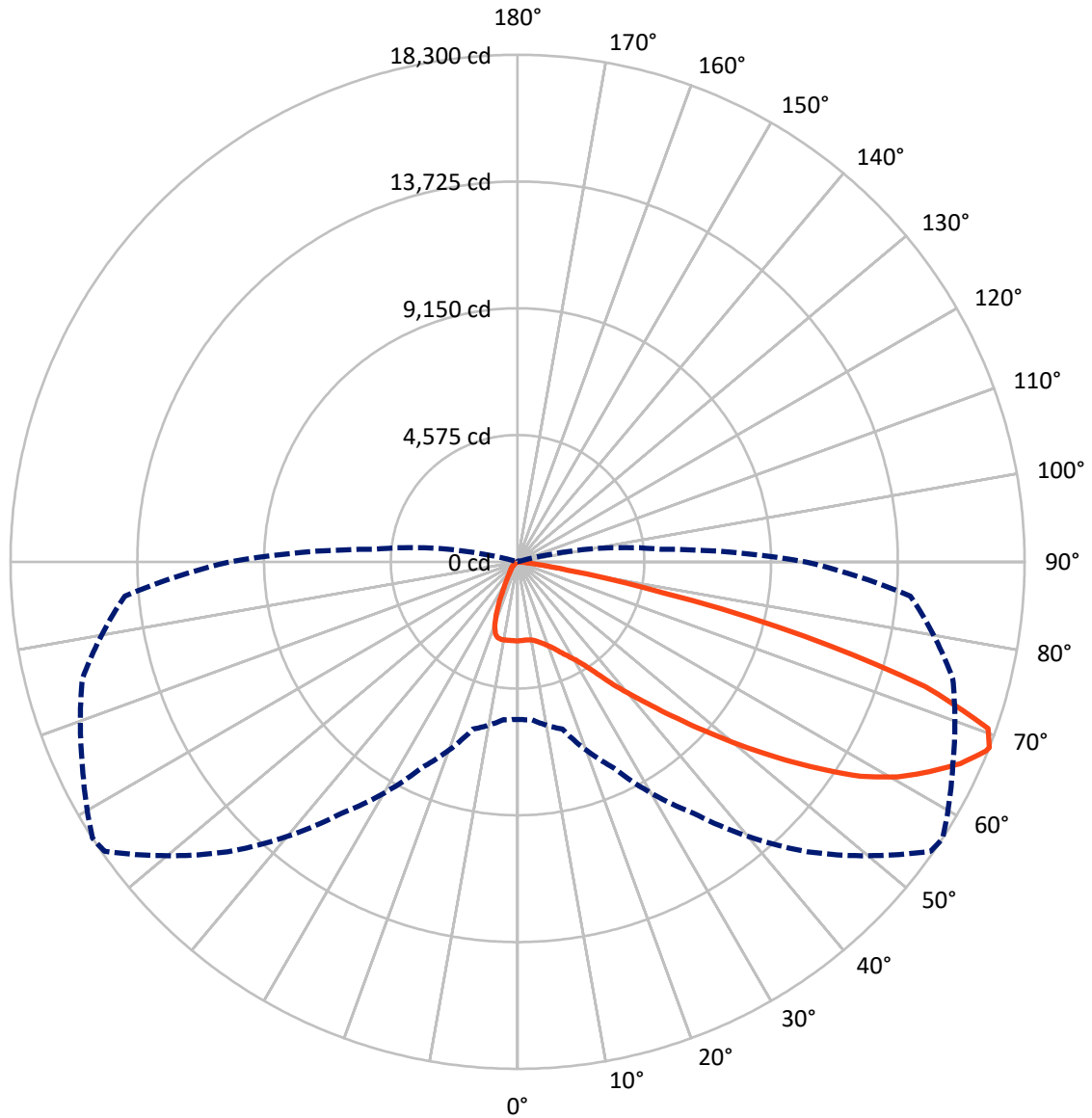
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P383234
CATALOG NUMBER: GLEON-SA5C-735-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2631.5	0.0	2631.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	21366.1	0.0	21366.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	23997.6	0.0	23997.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.9	1.1
10°-20°	739.5	3.1
20°-30°	1275.7	5.3
30°-40°	2201.8	9.2
40°-50°	3766.2	15.7
50°-60°	6025.6	25.1
60°-70°	6961.9	29.0
70°-80°	2660.3	11.1
80°-90°	99.7	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°	23997.6	100.0
0°-180°	23997.6	100.0

Coefficient of Utilization



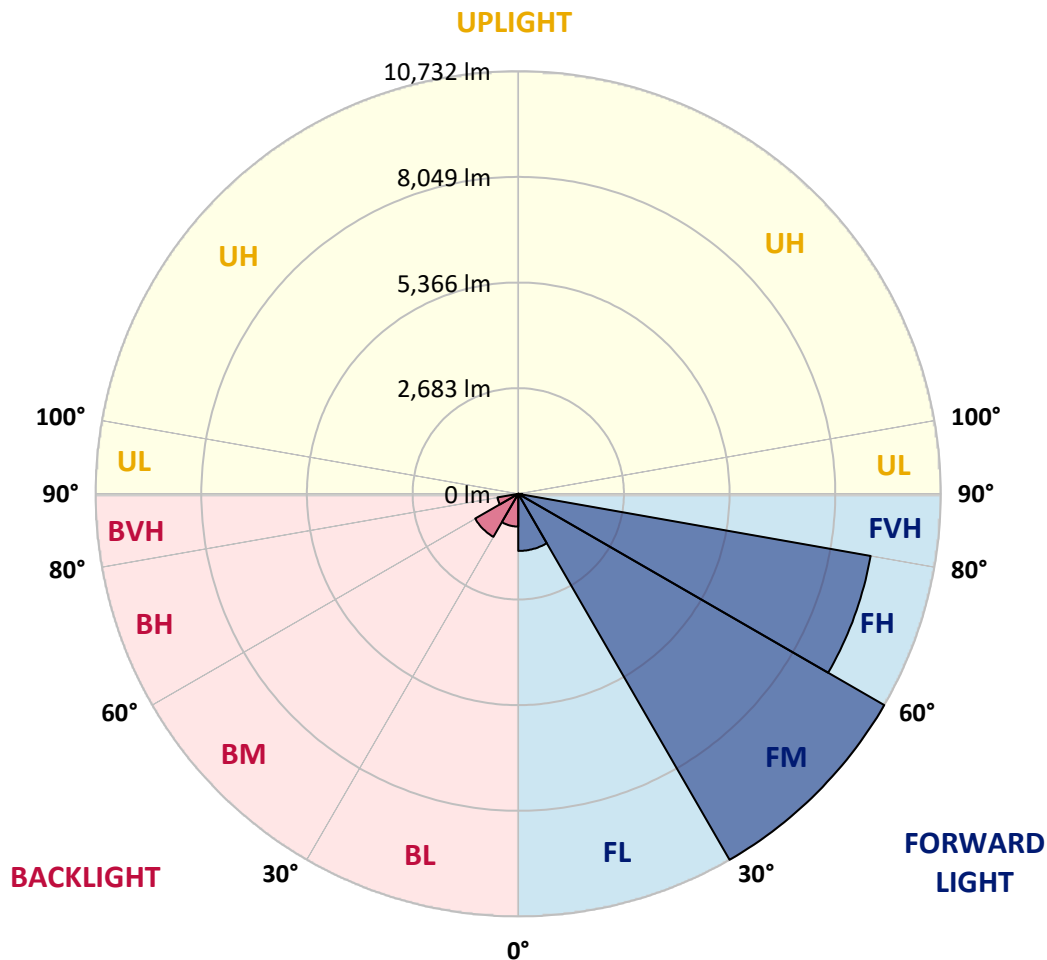
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.4	6.0			
FM (30°-60°)	10731.5	44.7			
FH (60°-80°)	9086.3	37.9			G4/12000
FVH (80°-90°)	97.9	0.4			G1/100
BL (0°-30°)	831.6	3.5	B2/1000		
BM (30°-60°)	1262.1	5.3	B2/2500		
BH (60°-80°)	535.9	2.2	B2/1000		G2/1000
BVH (80°-90°)	1.8	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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CATALOG NUMBER: GLEON-SA5C-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6
2.5°	2784.6	2797.1	2806.2	2811.9	2818.7	2833.4	2838.0	2844.8	2848.1	2848.1	2856.1
5°	2674.6	2688.2	2707.4	2723.3	2755.1	2795.9	2825.5	2836.8	2857.2	2875.4	2885.6
7.5°	2572.4	2588.3	2610.9	2648.4	2702.9	2768.7	2829.9	2845.9	2885.6	2924.1	2943.5
10°	2506.6	2519.1	2548.6	2601.9	2673.4	2765.3	2851.6	2870.8	2938.9	3003.6	3039.9
12.5°	2483.9	2495.2	2525.9	2586.1	2674.6	2782.3	2901.5	2929.8	3029.7	3123.9	3174.9
15°	2516.8	2519.1	2552.0	2608.7	2696.1	2824.4	2984.3	3018.3	3144.3	3266.8	3330.4
17.5°	2643.9	2633.7	2650.7	2675.7	2744.9	2879.9	3071.7	3122.7	3290.7	3434.8	3494.9
20°	2961.6	2961.6	2923.0	2854.9	2856.1	2966.1	3189.7	3247.6	3453.0	3619.7	3674.2
22.5°	3505.1	3494.9	3417.8	3251.0	3097.8	3114.8	3333.8	3408.7	3648.1	3826.2	3844.4
25°	4158.7	4146.2	4027.1	3792.2	3526.7	3355.3	3529.0	3615.2	3880.7	4038.4	4001.0
27.5°	4850.9	4840.7	4722.7	4431.1	4053.3	3738.9	3761.6	3843.3	4117.9	4273.4	4154.2
30°	5521.6	5524.9	5408.1	5108.5	4680.7	4227.9	4056.6	4104.3	4348.3	4506.0	4335.8
32.5°	6159.2	6163.8	6062.8	5728.1	5328.6	4796.4	4465.1	4452.6	4616.0	4771.5	4576.3
35°	6727.7	6739.1	6669.9	6410.0	5986.8	5429.6	4995.1	4965.5	4996.2	5172.0	4945.1
37.5°	7275.9	7282.7	7230.4	7011.4	6657.4	6125.2	5664.6	5622.5	5556.7	5691.8	5431.9
40°	7876.0	7859.1	7798.9	7600.3	7296.3	6893.5	6383.9	6311.3	6196.7	6317.0	6071.9
42.5°	8434.3	8415.0	8425.3	8200.6	7944.1	7683.2	7222.5	7097.6	7030.7	7169.2	6857.1
45°	9132.2	9122.0	9156.1	8960.8	8753.2	8563.7	8183.6	8047.5	8017.9	8180.2	7806.8
47.5°	9821.0	9846.0	9951.4	9868.6	9784.7	9617.9	9201.5	9140.2	9158.3	9354.6	8808.8
50°	10395.1	10424.7	10714.0	10809.3	10930.8	10833.2	10415.5	10378.1	10449.6	10626.6	9886.8
52.5°	10810.4	10870.6	11230.3	11669.4	12112.0	12177.8	11761.3	11727.3	11823.8	11851.0	10719.7
55°	11098.6	11152.0	11559.4	12362.8	13263.7	13547.4	13288.7	13157.1	13138.9	12870.0	11595.7
57.5°	11149.8	11144.1	11729.6	12811.0	14167.0	14898.9	14735.5	14606.1	14233.9	13811.8	12599.9
60°	10861.6	10894.4	11574.1	12966.4	14734.3	15921.3	15933.7	15765.8	15185.9	14727.5	13573.5
62.5°	9974.2	10108.0	10794.6	12559.0	14727.5	16333.1	16812.0	16683.7	15990.5	15477.6	14560.7
65°	8535.4	8583.0	9237.8	11163.4	13732.3	16160.7	17602.9	17555.2	16715.5	16206.0	15068.0
67.5°	6233.0	6129.8	6817.3	8790.6	11626.4	15155.3	18170.2	18230.4	17275.0	16355.8	14527.8
68°	5688.3	5719.0	6254.6	8204.0	11074.9	14800.1	18207.7	18299.6	17330.5	16258.2	14232.7
70°	3390.6	3449.5	3927.2	5648.6	8425.3	12790.5	17803.7	18013.6	16999.3	15251.8	12310.6
72.5°	865.8	936.1	1387.7	2528.1	4812.4	9012.0	15029.3	15384.5	14759.3	12373.0	8310.7
75°	356.3	374.5	495.9	832.9	1792.9	4060.1	9906.1	10666.3	10231.7	7407.5	3755.9
77.5°	246.2	258.7	318.9	461.9	776.2	1376.5	4856.6	5405.8	4870.2	2528.1	819.3
80°	177.0	187.2	228.0	307.5	445.9	491.3	1582.9	1830.3	1453.6	554.9	203.1
82.5°	105.5	113.5	170.2	219.0	271.2	234.8	393.8	447.0	421.0	275.7	90.7
85°	52.2	61.3	114.6	156.6	146.3	98.7	120.3	133.9	165.6	168.0	48.8
87.5°	3.4	6.8	67.0	94.2	40.9	22.7	35.2	43.1	59.0	82.8	20.4
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°	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6
2.5°	2859.5	2860.6	2852.7	2849.2	2851.6	2838.0	2832.3	2834.5	2834.5	2838.0	2832.3
5°	2887.9	2887.9	2874.2	2856.1	2845.9	2819.8	2802.7	2798.2	2794.8	2792.5	2788.0
7.5°	2949.1	2942.3	2918.5	2878.8	2844.8	2788.0	2744.9	2722.2	2710.8	2706.3	2702.9
10°	3047.8	3035.4	2995.7	2921.9	2843.6	2742.6	2648.4	2581.5	2525.9	2503.2	2489.6
12.5°	3180.6	3162.4	3095.5	2972.9	2835.6	2649.6	2445.3	2249.0	2066.4	1991.5	1954.0
15°	3333.8	3307.7	3202.2	3016.1	2789.1	2439.6	1995.9	1652.2	1399.1	1303.8	1262.9
17.5°	3489.3	3455.2	3295.3	3043.3	2649.6	2005.1	1400.2	1057.6	888.5	843.1	827.2
20°	3645.9	3596.0	3375.7	3022.9	2334.1	1445.7	923.6	772.7	723.9	710.3	705.8
22.5°	3794.5	3717.3	3448.4	2943.5	1848.5	970.2	730.8	683.1	667.2	659.3	657.0
25°	3923.9	3816.1	3511.9	2698.3	1308.4	733.0	658.1	642.2	621.8	607.1	608.2
27.5°	4045.2	3914.7	3550.5	2294.4	872.6	626.4	609.3	587.8	550.4	528.7	528.7
30°	4191.7	4046.4	3578.9	1765.7	642.2	553.7	540.1	507.2	456.2	427.8	427.8
32.5°	4411.8	4246.1	3560.7	1239.1	532.2	486.8	455.1	409.6	354.0	326.8	325.7
35°	4748.8	4554.8	3431.4	812.5	469.8	423.3	372.2	316.5	267.8	245.1	244.0
37.5°	5202.7	4967.8	3140.9	581.0	421.0	364.2	302.9	241.7	205.4	190.6	189.5
40°	5791.6	5447.8	2725.6	470.9	375.6	307.5	233.7	187.2	162.3	150.9	152.0
42.5°	6498.6	5961.8	2227.4	406.2	331.4	253.0	182.7	147.6	131.6	123.7	121.4
45°	7283.8	6469.0	1705.5	362.0	287.1	204.3	143.0	116.9	104.4	99.9	99.9
47.5°	8147.3	6962.7	1248.2	323.4	239.4	157.7	114.6	95.3	85.1	81.7	80.6
50°	8931.4	7305.3	899.9	282.5	196.3	124.8	93.1	79.5	72.7	68.1	68.1
52.5°	9585.0	7413.1	662.7	238.3	158.8	99.9	77.1	68.1	61.3	57.8	57.8
55°	10160.3	7368.8	492.5	196.3	128.2	81.7	65.8	57.8	52.2	48.8	48.8
57.5°	10711.8	7225.9	367.7	160.0	103.2	65.8	55.6	48.8	43.1	40.9	40.9
60°	11162.3	6987.6	273.5	129.4	82.8	53.4	46.5	39.7	35.2	31.8	31.8
62.5°	11527.6	6724.4	200.8	106.7	65.8	42.0	36.3	32.9	26.1	22.7	22.7
65°	11529.9	6287.5	150.9	88.5	51.0	32.9	27.2	26.1	17.0	13.6	12.5
67.5°	10695.8	5420.6	115.7	76.0	39.7	25.0	20.4	21.5	9.0	5.7	4.6
68°	10392.9	5200.5	108.9	74.9	37.4	23.8	19.3	21.5	7.9	4.6	3.4
70°	8762.3	4137.2	87.4	72.7	32.9	18.2	15.9	21.5	6.8	3.4	2.2
72.5°	5604.4	2401.1	64.6	57.8	25.0	13.6	10.2	19.3	6.8	2.2	1.1
75°	2385.1	744.4	44.2	40.9	14.7	10.2	6.8	12.5	4.6	1.1	0.0
77.5°	502.7	168.0	26.1	25.0	10.2	6.8	4.6	3.4	1.1	0.0	0.0
80°	129.4	48.8	13.6	12.5	5.7	3.4	2.2	0.0	0.0	0.0	0.0
82.5°	40.9	19.3	7.9	5.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	11.4	4.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	3.4	1.1	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)