

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: P193582

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL2-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA 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: 13111 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 171
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: 25 FT

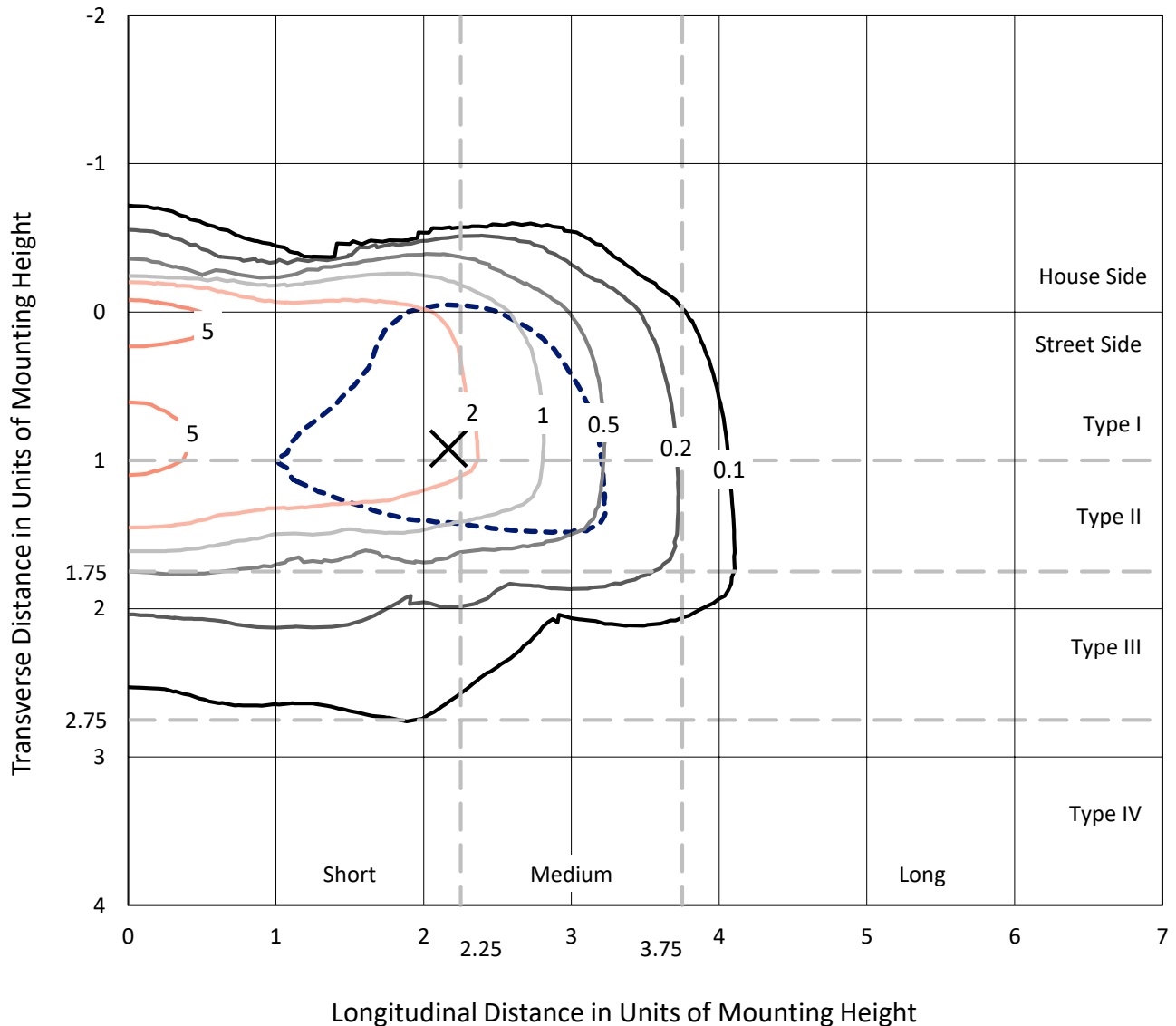


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

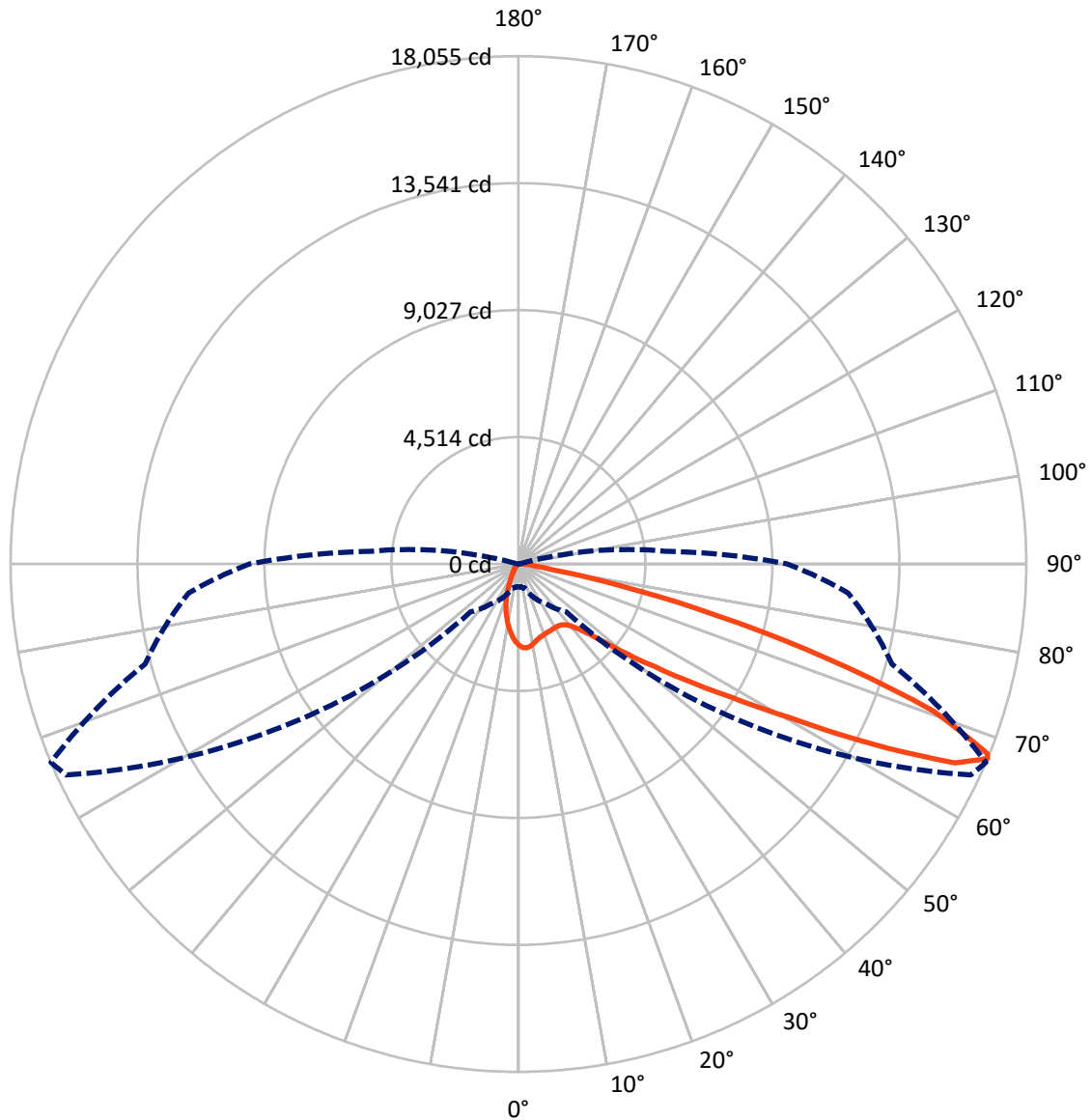


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1361.3	0.0	1361.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11749.7	0.0	11749.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	13111.0	0.0	13111.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	1.8
10°-20°	500.8	3.8
20°-30°	728.1	5.6
30°-40°	1135.8	8.7
40°-50°	2012.0	15.3
50°-60°	3183.8	24.3
60°-70°	3646.6	27.8
70°-80°	1512.6	11.5
80°-90°	156.2	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°	13111.0	100.0
0°-180°	13111.0	100.0



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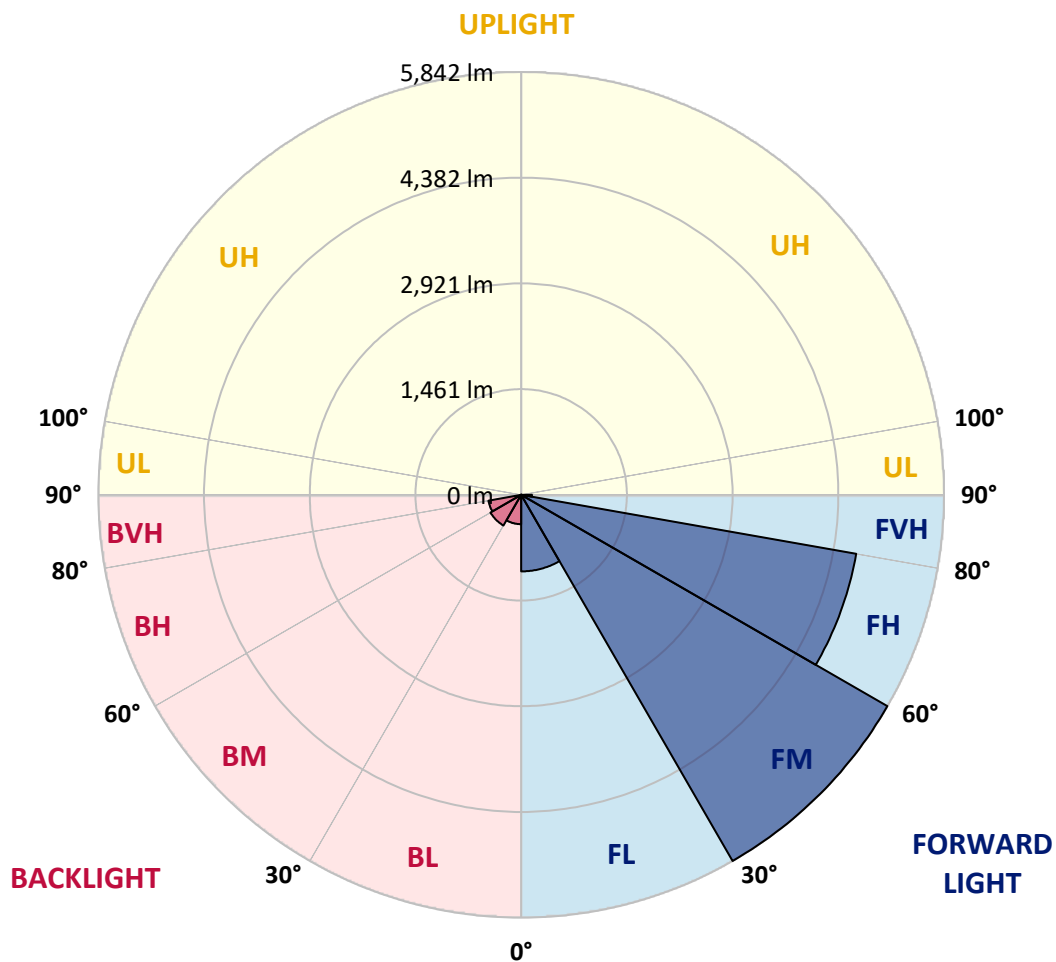
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.9	8.1			
FM (30°-60°)	5842.3	44.6			
FH (60°-80°)	4700.3	35.9			G2/5000
FVH (80°-90°)	149.2	1.1			G2/225
BL (0°-30°)	406.2	3.1	B1/500		
BM (30°-60°)	489.3	3.7	B1/1000		
BH (60°-80°)	458.8	3.5	B1/500		G1/500
BVH (80°-90°)	7.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5
2.5°	2989.3	2995.5	2994.7	2999.3	3010.0	3010.8	3000.1	2979.4	2974.8	2948.1	2901.4
5°	2756.9	2774.5	2785.2	2828.8	2877.7	2936.6	2980.9	2997.0	2994.7	2975.6	2905.2
7.5°	2491.5	2509.1	2521.3	2572.6	2637.6	2738.5	2854.0	2948.8	2957.2	2977.9	2902.2
10°	2314.9	2317.9	2334.7	2383.7	2451.7	2555.0	2692.6	2858.6	2883.8	2959.5	2894.5
12.5°	2169.6	2171.8	2194.0	2246.8	2319.4	2423.4	2568.0	2759.9	2798.9	2936.6	2893.0
15°	2066.3	2074.7	2094.6	2149.7	2226.9	2330.1	2478.5	2687.3	2733.9	2928.2	2906.8
17.5°	2031.9	2041.1	2047.2	2087.0	2157.3	2258.3	2410.4	2639.9	2692.6	2932.8	2933.5
20°	2067.8	2074.7	2061.0	2070.9	2114.5	2204.7	2353.1	2599.3	2662.0	2938.1	2967.9
22.5°	2201.7	2204.7	2167.3	2123.7	2116.0	2165.7	2308.0	2567.2	2634.5	2952.6	3008.5
25°	2431.1	2425.7	2364.6	2270.5	2181.8	2158.8	2281.2	2547.3	2620.7	2967.9	3050.5
27.5°	2707.9	2715.6	2631.5	2494.6	2325.6	2204.7	2277.4	2538.9	2614.6	2978.6	3087.2
30°	3044.4	3055.1	2958.8	2786.7	2544.3	2317.9	2312.6	2537.4	2610.8	2971.8	3090.3
32.5°	3387.8	3400.8	3325.1	3147.6	2836.4	2507.6	2392.1	2554.2	2618.4	2948.1	3072.7
35°	3747.2	3765.6	3715.1	3562.9	3232.5	2781.3	2532.0	2605.4	2654.4	2945.8	3055.1
37.5°	4243.5	4260.3	4165.5	4004.1	3712.0	3148.4	2756.9	2701.8	2739.3	2982.5	3059.7
40°	4984.5	4982.2	4737.5	4490.5	4238.9	3614.9	3072.7	2876.2	2895.3	3093.3	3116.3
42.5°	5792.1	5788.3	5426.6	5051.1	4823.9	4189.2	3488.0	3177.5	3164.5	3297.5	3263.1
45°	6414.6	6413.8	6118.6	5695.7	5528.3	4848.4	4024.8	3596.5	3576.7	3629.4	3533.8
47.5°	6680.0	6684.5	6536.2	6238.7	6309.1	5740.1	4701.6	4203.7	4173.9	4152.5	4007.2
50°	6473.5	6482.7	6494.9	6436.8	6881.8	6938.4	5609.3	5059.5	5045.0	4949.4	4722.2
52.5°	5799.0	5845.6	5989.4	6173.7	7080.7	8088.6	7032.5	6122.5	6044.5	5942.7	5692.7
55°	4662.6	4713.8	4986.8	5434.2	6784.7	8844.2	9026.9	7492.9	7362.9	7059.3	6698.3
57.5°	3085.7	3165.2	3561.4	4130.3	5925.2	8965.7	11016.8	9394.8	8942.0	8110.8	7703.9
60°	1700.0	1776.5	2206.3	2721.7	4279.5	8364.7	12355.0	11871.0	11071.1	9286.2	8925.2
62.5°	1046.9	1088.2	1405.6	1885.1	2566.4	6601.9	12631.9	14982.7	14056.6	10799.6	10400.4
65°	833.6	851.1	1006.4	1540.9	1840.0	3926.9	11737.9	17354.9	17045.9	12631.9	11721.1
67°	809.1	816.0	889.4	1323.0	1734.4	2407.4	9833.7	17741.1	18054.6	13740.7	11762.4
67.5°	814.4	822.1	891.7	1262.6	1731.4	2212.4	9177.6	17588.9	17985.0	13828.7	11579.6
70°	785.4	809.1	1020.9	1261.8	1646.5	1838.4	5496.1	15239.6	15651.8	12849.1	9825.3
72.5°	278.4	279.9	441.3	1020.9	1790.2	1858.3	2759.9	11172.0	11477.1	9829.1	7083.7
75°	165.2	140.7	146.8	290.6	1710.7	1804.8	1592.2	7138.8	7252.7	5632.3	3587.4
77.5°	113.9	99.4	102.5	128.5	651.6	1779.5	1264.9	3722.7	3601.1	1975.3	764.0
80°	65.0	57.4	61.2	112.4	237.1	1660.2	1193.0	1509.6	1287.0	335.0	211.1
82.5°	34.4	29.1	35.2	92.5	165.2	1034.7	1195.3	729.6	578.1	113.2	143.8
85°	12.2	9.9	16.8	63.5	110.1	317.4	1108.1	613.3	481.8	55.1	109.4
87.5°	2.3	2.3	6.9	26.0	44.4	97.1	655.4	364.0	244.0	32.9	74.9
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°	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5
2.5°	2882.3	2849.4	2805.0	2750.7	2686.5	2629.9	2587.9	2544.3	2535.1	2519.8	2517.5
5°	2863.2	2806.6	2696.5	2570.3	2435.7	2314.1	2215.4	2127.5	2088.5	2054.8	2051.0
7.5°	2834.9	2750.0	2562.6	2359.2	2148.9	1957.7	1795.6	1680.9	1575.4	1524.9	1517.2
10°	2802.0	2680.4	2412.0	2129.8	1839.2	1569.2	1328.3	1126.5	1004.1	931.4	922.3
12.5°	2771.4	2612.3	2258.3	1892.0	1505.8	1144.8	835.1	642.4	513.9	461.9	455.8
15°	2756.9	2557.3	2114.5	1648.8	1157.0	728.8	456.5	353.3	311.2	299.0	298.2
17.5°	2755.3	2510.6	1973.8	1397.2	810.6	423.7	297.5	271.5	263.1	260.0	260.0
20°	2754.6	2466.3	1833.1	1136.4	514.7	282.2	247.8	241.7	235.5	231.7	231.7
22.5°	2763.0	2426.5	1686.2	870.3	324.2	228.7	217.9	211.8	204.2	198.8	198.1
25°	2771.4	2395.9	1536.4	619.4	234.8	198.8	188.1	179.7	169.0	162.1	161.4
27.5°	2772.9	2357.7	1375.8	414.5	196.5	173.6	159.8	146.8	134.6	127.7	126.9
30°	2750.0	2293.4	1197.6	279.9	173.6	150.7	132.3	118.5	107.1	101.7	101.7
32.5°	2704.9	2213.9	1001.8	211.1	154.5	129.2	109.4	96.4	88.7	86.4	85.7
35°	2664.3	2128.3	800.7	178.9	138.4	109.4	89.5	81.1	76.5	75.7	74.9
37.5°	2640.6	2059.4	611.8	162.1	123.1	91.8	75.7	69.6	67.3	65.8	66.5
40°	2659.0	2002.1	452.0	148.4	107.8	76.5	64.2	61.2	58.9	58.1	58.1
42.5°	2739.3	1992.1	335.7	136.1	93.3	63.5	55.8	53.5	52.0	51.2	52.0
45°	2950.3	2053.3	260.8	124.7	78.8	53.5	47.4	46.6	45.9	45.9	45.9
47.5°	3267.7	2179.5	217.2	111.7	65.8	45.9	41.3	40.5	39.8	40.5	40.5
50°	3805.3	2410.4	194.2	98.7	54.3	39.0	35.2	35.2	35.2	35.2	35.9
52.5°	4622.8	2864.7	178.9	85.7	44.4	32.9	29.8	29.8	30.6	30.6	31.4
55°	5533.6	3467.3	165.2	72.6	37.5	27.5	24.5	25.2	26.0	26.8	26.8
57.5°	6521.7	4134.9	153.7	59.6	32.1	22.2	20.6	21.4	22.2	23.7	23.7
60°	7713.9	4857.6	136.9	46.6	26.8	17.6	16.1	17.6	19.9	21.4	22.2
62.5°	9023.1	5556.6	115.5	36.7	22.2	13.8	13.0	16.1	19.1	20.6	21.4
65°	9917.8	5776.0	88.7	29.8	16.8	9.9	10.7	14.5	18.4	20.6	20.6
67°	9555.4	5236.9	72.6	25.2	13.8	7.6	9.9	14.5	18.4	19.9	20.6
67.5°	9303.8	5025.8	69.6	24.5	13.0	7.6	9.9	14.5	18.4	20.6	20.6
70°	7570.1	3775.5	58.1	18.4	10.7	6.9	8.4	13.8	17.6	19.9	19.9
72.5°	5259.8	2327.9	52.0	13.0	9.2	6.1	7.6	13.0	16.8	19.1	19.9
75°	2500.7	842.7	44.4	9.9	8.4	5.4	6.9	13.0	16.8	19.1	19.1
77.5°	510.1	195.8	35.9	8.4	6.9	5.4	6.1	12.2	16.1	18.4	18.4
80°	167.5	75.7	26.8	7.6	6.9	5.4	6.1	11.5	16.1	17.6	18.4
82.5°	120.8	38.2	17.6	7.6	6.9	5.4	5.4	11.5	15.3	17.6	17.6
85°	92.5	26.8	11.5	7.6	6.9	5.4	5.4	10.7	14.5	16.8	16.8
87.5°	61.2	10.7	9.2	7.6	6.9	5.4	5.4	10.7	13.8	16.1	16.8
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)