

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: P191832

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191832
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-SL2-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA 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: 13104 lumens
Efficiency: N/A
Efficacy: 101.6 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): 129
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

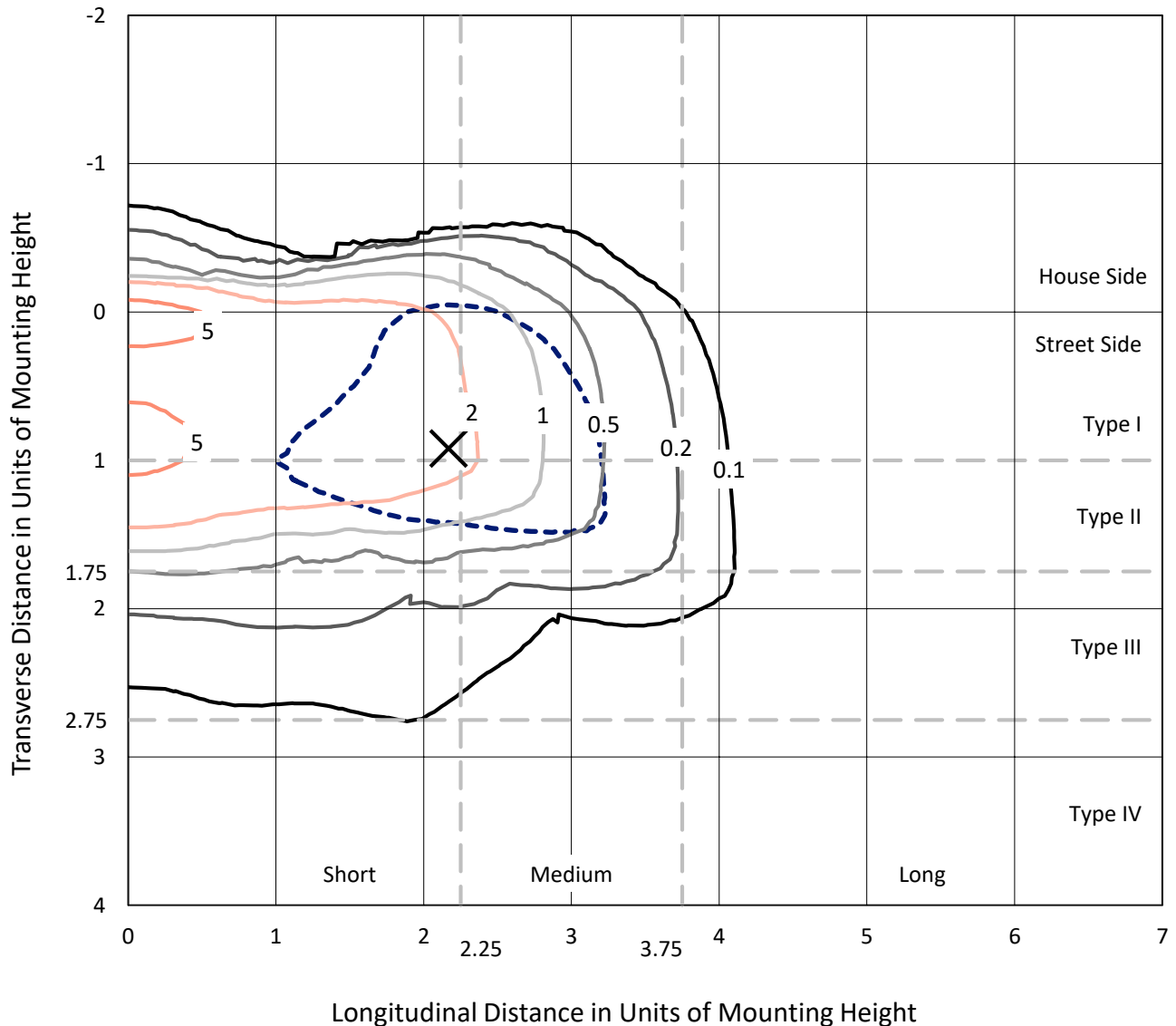


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

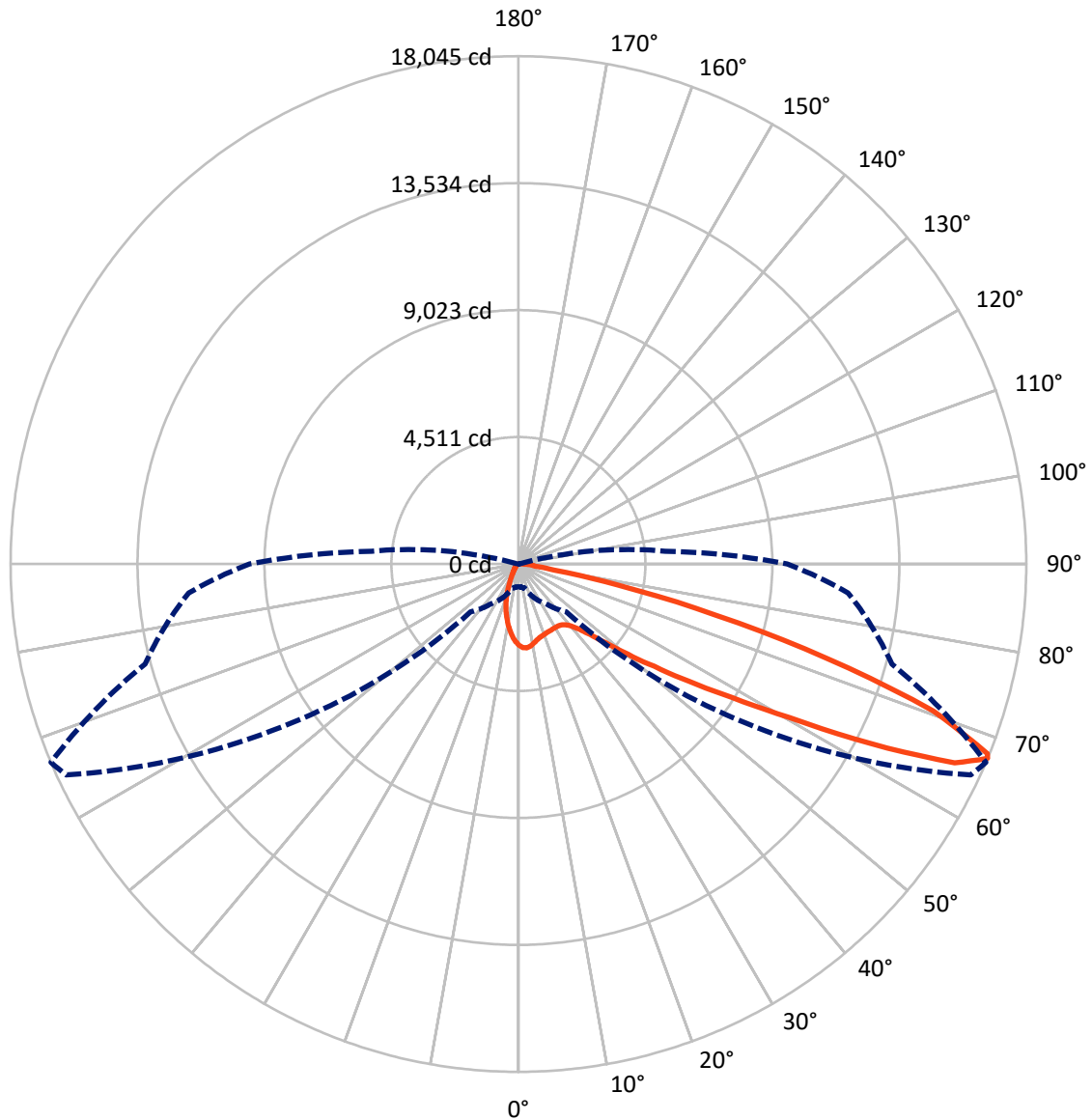


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Semi-Cutoff

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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	1360.6	0.0	1360.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11743.4	0.0	11743.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	13104.0	0.0	13104.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	1.8
10°-20°	500.5	3.8
20°-30°	727.7	5.6
30°-40°	1135.2	8.7
40°-50°	2010.9	15.3
50°-60°	3182.1	24.3
60°-70°	3644.6	27.8
70°-80°	1511.8	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°	13104.0	100.0
0°-180°	13104.0	100.0



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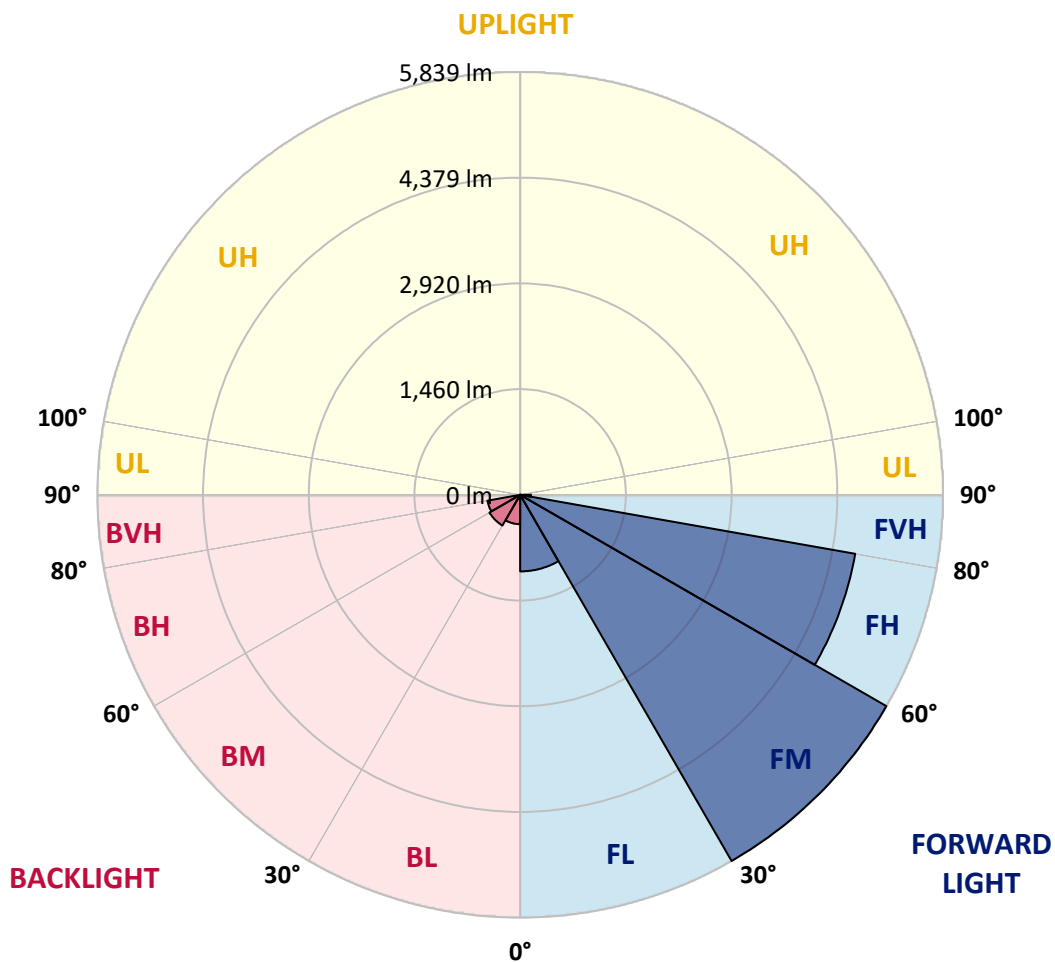
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.3	8.1			
FM (30°-60°)	5839.2	44.6			
FH (60°-80°)	4697.8	35.9			G2/5000
FVH (80°-90°)	149.1	1.1			G2/225
BL (0°-30°)	406.0	3.1	B1/500		
BM (30°-60°)	489.0	3.7	B1/1000		
BH (60°-80°)	458.6	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°	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9
2.5°	2987.7	2993.9	2993.1	2997.7	3008.4	3009.2	2998.5	2977.8	2973.2	2946.5	2899.9
5°	2755.4	2773.0	2783.7	2827.2	2876.2	2935.0	2979.3	2995.4	2993.1	2974.0	2903.7
7.5°	2490.2	2507.8	2520.0	2571.2	2636.2	2737.1	2852.5	2947.2	2955.6	2976.3	2900.6
10°	2313.6	2316.7	2333.5	2382.4	2450.4	2553.6	2691.2	2857.0	2882.3	2957.9	2893.0
12.5°	2168.4	2170.7	2192.9	2245.6	2318.2	2422.1	2566.6	2758.5	2797.4	2935.0	2891.4
15°	2065.2	2073.6	2093.5	2148.5	2225.7	2328.9	2477.2	2685.8	2732.5	2926.6	2905.2
17.5°	2030.8	2040.0	2046.1	2085.8	2156.2	2257.1	2409.2	2638.5	2691.2	2931.2	2932.0
20°	2066.7	2073.6	2059.9	2069.8	2113.4	2203.6	2351.8	2597.9	2660.6	2936.5	2966.3
22.5°	2200.5	2203.6	2166.1	2122.5	2114.9	2164.6	2306.7	2565.8	2633.1	2951.1	3006.9
25°	2429.8	2424.4	2363.3	2269.3	2180.6	2157.7	2280.0	2546.0	2619.3	2966.3	3048.9
27.5°	2706.5	2714.1	2630.0	2493.2	2324.3	2203.6	2276.2	2537.6	2613.2	2977.0	3085.6
30°	3042.8	3053.5	2957.2	2785.2	2542.9	2316.7	2311.3	2536.0	2609.4	2970.2	3088.6
32.5°	3386.0	3399.0	3323.3	3146.0	2834.9	2506.2	2390.8	2552.8	2617.1	2946.5	3071.1
35°	3745.2	3763.5	3713.1	3561.0	3230.8	2779.9	2530.7	2604.1	2653.0	2944.2	3053.5
37.5°	4241.2	4258.1	4163.3	4002.0	3710.0	3146.7	2755.4	2700.4	2737.8	2980.9	3058.1
40°	4981.9	4979.6	4735.0	4488.1	4236.7	3613.0	3071.1	2874.6	2893.7	3091.7	3114.6
42.5°	5789.0	5785.2	5423.7	5048.4	4821.4	4187.0	3486.1	3175.8	3162.8	3295.8	3261.4
45°	6411.2	6410.4	6115.4	5692.7	5525.3	4845.8	4022.6	3594.6	3574.8	3627.5	3531.9
47.5°	6676.4	6681.0	6532.7	6235.4	6305.7	5737.0	4699.1	4201.5	4171.7	4150.3	4005.1
50°	6470.0	6479.2	6491.4	6433.3	6878.2	6934.7	5606.3	5056.8	5042.3	4946.7	4719.7
52.5°	5795.9	5842.5	5986.2	6170.4	7076.9	8084.3	7028.7	6119.2	6041.2	5939.6	5689.6
55°	4660.1	4711.3	4984.2	5431.3	6781.1	8839.4	9022.1	7488.9	7358.9	7055.5	6694.7
57.5°	3084.1	3163.5	3559.5	4128.1	5922.0	8961.0	11010.9	9389.7	8937.3	8106.4	7699.8
60°	1699.1	1775.5	2205.1	2720.2	4277.2	8360.2	12348.4	11864.6	11065.1	9281.2	8920.4
62.5°	1046.4	1087.6	1404.8	1884.1	2565.1	6598.4	12625.1	14974.7	14049.1	10793.8	10394.8
65°	833.1	850.7	1005.9	1540.1	1839.0	3924.8	11731.6	17345.6	17036.8	12625.1	11714.8
67°	808.7	815.5	888.9	1322.3	1733.5	2406.1	9828.5	17731.6	18045.0	13733.4	11756.1
67.5°	814.0	821.7	891.2	1261.9	1730.4	2211.2	9172.7	17579.5	17975.4	13821.3	11573.4
70°	785.0	808.7	1020.4	1261.1	1645.6	1837.4	5493.2	15231.5	15643.5	12842.2	9820.1
72.5°	278.2	279.7	441.0	1020.4	1789.3	1857.3	2758.5	11166.0	11471.0	9823.9	7080.0
75°	165.1	140.6	146.8	290.4	1709.8	1803.8	1591.3	7135.0	7248.9	5629.3	3585.5
77.5°	113.9	99.4	102.4	128.4	651.2	1778.6	1264.2	3720.7	3599.2	1974.3	763.6
80°	65.0	57.3	61.1	112.4	236.9	1659.4	1192.3	1508.8	1286.4	334.8	211.0
82.5°	34.4	29.0	35.2	92.5	165.1	1034.1	1194.6	729.2	577.8	113.1	143.7
85°	12.2	9.9	16.8	63.4	110.1	317.2	1107.5	613.0	481.5	55.0	109.3
87.5°	2.3	2.3	6.9	26.0	44.3	97.1	655.0	363.8	243.8	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°	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9	2889.9
2.5°	2880.7	2847.9	2803.5	2749.3	2685.1	2628.5	2586.5	2542.9	2533.7	2518.5	2516.2
5°	2861.6	2805.1	2695.0	2568.9	2434.4	2312.8	2214.3	2126.4	2087.4	2053.7	2049.9
7.5°	2833.4	2748.5	2561.3	2357.9	2147.8	1956.7	1794.6	1680.0	1574.5	1524.1	1516.4
10°	2800.5	2679.0	2410.7	2128.6	1838.2	1568.4	1327.6	1125.9	1003.6	930.9	921.8
12.5°	2769.9	2610.9	2257.1	1890.9	1505.0	1144.2	834.6	642.0	513.6	461.7	455.5
15°	2755.4	2555.9	2113.4	1647.9	1156.4	728.4	456.3	353.1	311.1	298.9	298.1
17.5°	2753.9	2509.3	1972.7	1396.4	810.2	423.4	297.3	271.3	262.9	259.9	259.9
20°	2753.1	2465.0	1832.1	1135.8	514.4	282.0	247.6	241.5	235.4	231.6	231.6
22.5°	2761.5	2425.2	1685.3	869.8	324.1	228.5	217.8	211.7	204.1	198.7	198.0
25°	2769.9	2394.6	1535.5	619.1	234.6	198.7	188.0	179.6	168.9	162.0	161.3
27.5°	2771.4	2356.4	1375.0	414.3	196.4	173.5	159.7	146.8	134.5	127.6	126.9
30°	2748.5	2292.2	1196.9	279.7	173.5	150.6	132.2	118.5	107.0	101.7	101.7
32.5°	2703.4	2212.7	1001.3	211.0	154.4	129.2	109.3	96.3	88.7	86.4	85.6
35°	2662.9	2127.1	800.2	178.9	138.3	109.3	89.4	81.0	76.4	75.7	74.9
37.5°	2639.2	2058.3	611.5	162.0	123.1	91.7	75.7	69.6	67.3	65.7	66.5
40°	2657.6	2001.0	451.7	148.3	107.8	76.4	64.2	61.1	58.9	58.1	58.1
42.5°	2737.8	1991.1	335.5	136.0	93.2	63.4	55.8	53.5	52.0	51.2	52.0
45°	2948.8	2052.2	260.6	124.6	78.7	53.5	47.4	46.6	45.9	45.9	45.9
47.5°	3266.0	2178.3	217.1	111.6	65.7	45.9	41.3	40.5	39.7	40.5	40.5
50°	3803.3	2409.2	194.1	98.6	54.3	39.0	35.2	35.2	35.2	35.2	35.9
52.5°	4620.3	2863.2	178.9	85.6	44.3	32.9	29.8	29.8	30.6	30.6	31.3
55°	5530.7	3465.5	165.1	72.6	37.5	27.5	24.5	25.2	26.0	26.8	26.8
57.5°	6518.2	4132.7	153.6	59.6	32.1	22.2	20.6	21.4	22.2	23.7	23.7
60°	7709.8	4855.0	136.8	46.6	26.8	17.6	16.1	17.6	19.9	21.4	22.2
62.5°	9018.3	5553.6	115.4	36.7	22.2	13.8	13.0	16.1	19.1	20.6	21.4
65°	9912.5	5773.0	88.7	29.8	16.8	9.9	10.7	14.5	18.3	20.6	20.6
67°	9550.3	5234.1	72.6	25.2	13.8	7.6	9.9	14.5	18.3	19.9	20.6
67.5°	9298.8	5023.1	69.6	24.5	13.0	7.6	9.9	14.5	18.3	20.6	20.6
70°	7566.1	3773.5	58.1	18.3	10.7	6.9	8.4	13.8	17.6	19.9	19.9
72.5°	5257.0	2326.6	52.0	13.0	9.2	6.1	7.6	13.0	16.8	19.1	19.9
75°	2499.3	842.3	44.3	9.9	8.4	5.4	6.9	13.0	16.8	19.1	19.1
77.5°	509.8	195.7	35.9	8.4	6.9	5.4	6.1	12.2	16.1	18.3	18.3
80°	167.4	75.7	26.8	7.6	6.9	5.4	6.1	11.5	16.1	17.6	18.3
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°	61.1	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)