

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: P191841

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191841
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-03-LED-E1-SL2-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 12161 lumens
Efficiency: N/A
Efficacy: 98.1 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): 124
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

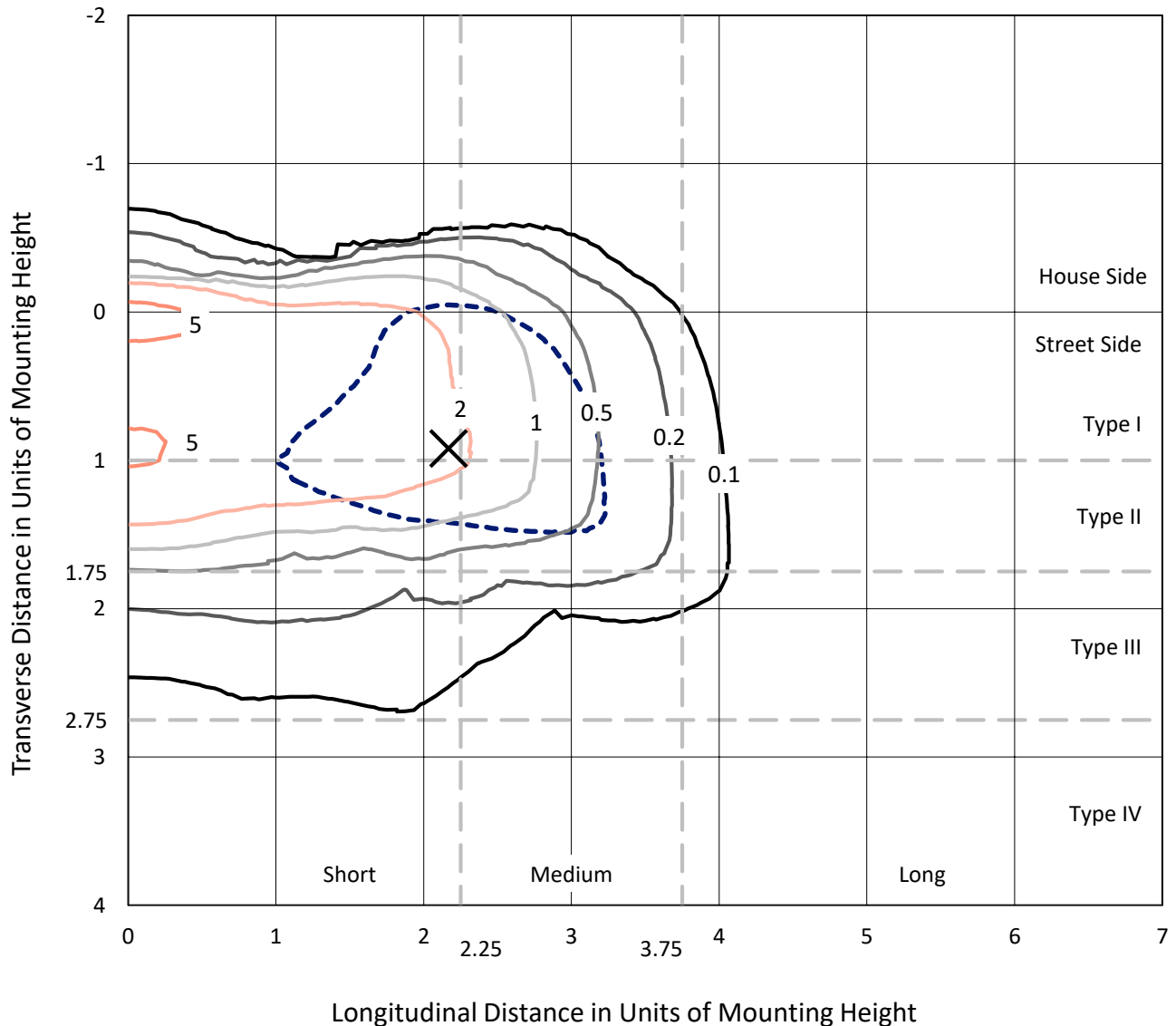


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

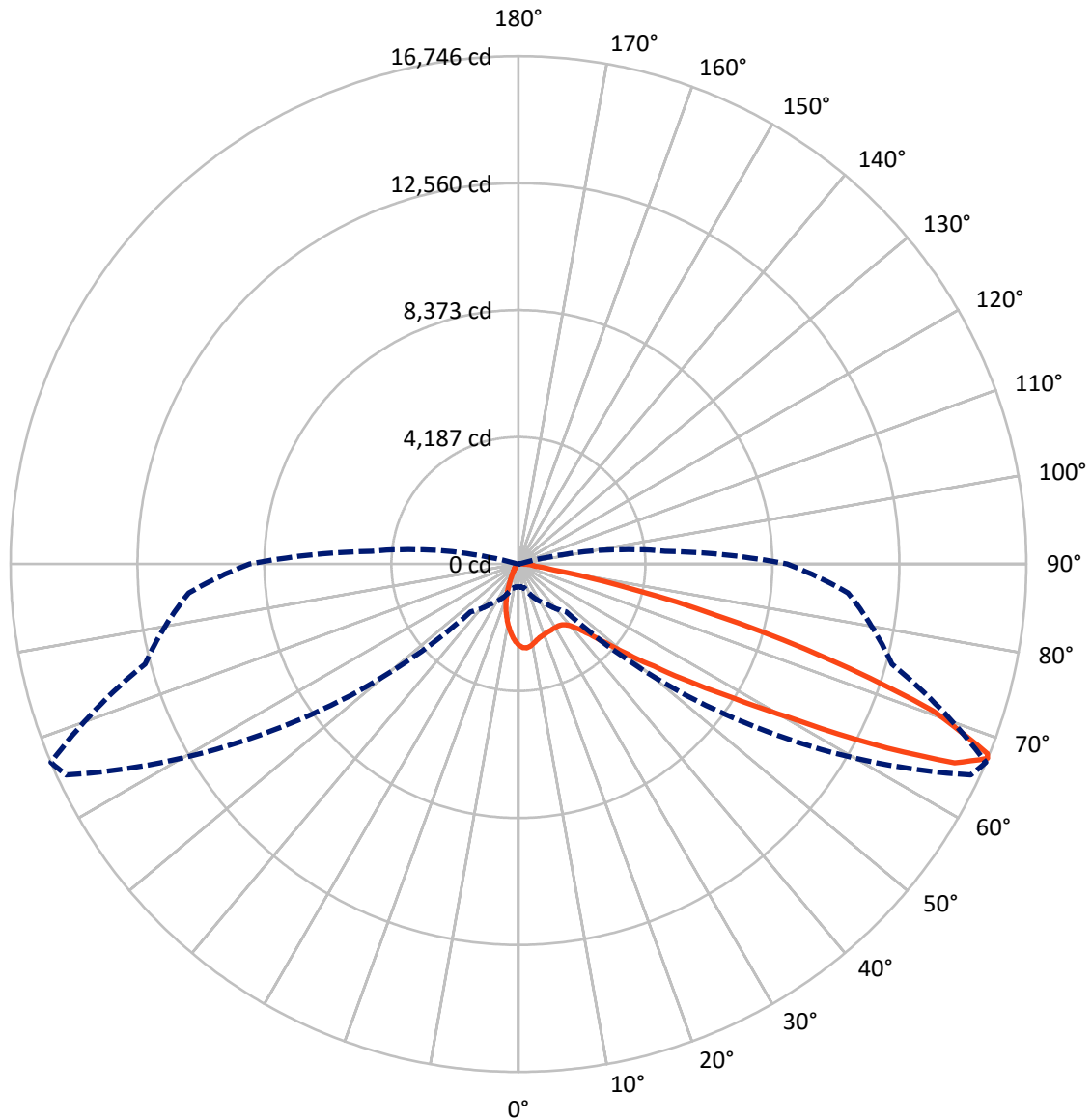


Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Semi-Cutoff

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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	1262.7	0.0	1262.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10898.3	0.0	10898.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	12161.0	0.0	12161.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	1.8
10°-20°	464.5	3.8
20°-30°	675.3	5.6
30°-40°	1053.5	8.7
40°-50°	1866.2	15.3
50°-60°	2953.1	24.3
60°-70°	3382.3	27.8
70°-80°	1403.0	11.5
80°-90°	144.9	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°	12161.0	100.0
0°-180°	12161.0	100.0



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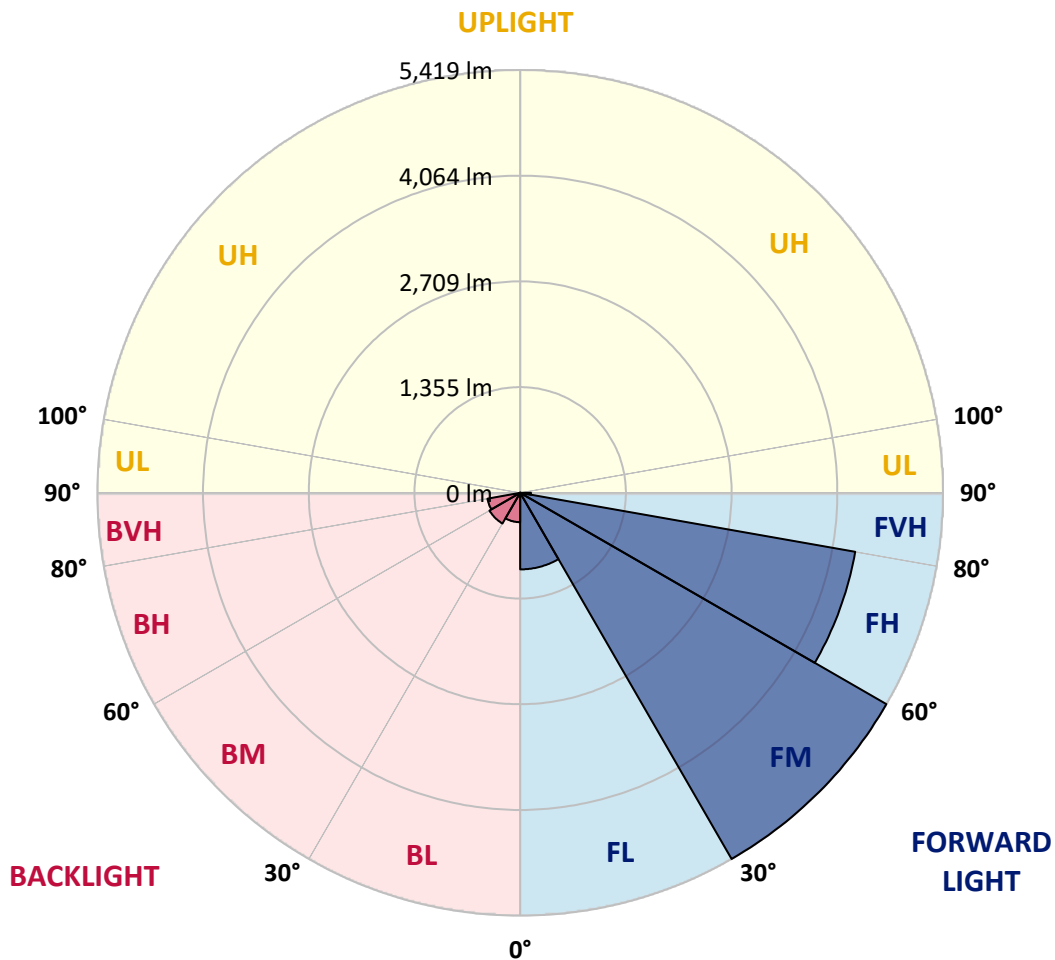
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.2	8.1			
FM (30°-60°)	5419.0	44.6			
FH (60°-80°)	4359.8	35.9			G2/5000
FVH (80°-90°)	138.4	1.1			G2/225
BL (0°-30°)	376.8	3.1	B1/500		
BM (30°-60°)	453.8	3.7	B1/1000		
BH (60°-80°)	425.6	3.5	B1/500		G1/500
BVH (80°-90°)	6.5	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°	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9
2.5°	2772.7	2778.4	2777.7	2782.0	2791.9	2792.6	2782.7	2763.5	2759.3	2734.4	2691.2
5°	2557.1	2573.4	2583.4	2623.8	2669.2	2723.8	2764.9	2779.8	2777.7	2760.0	2694.7
7.5°	2311.0	2327.3	2338.6	2386.2	2446.5	2540.1	2647.2	2735.1	2743.0	2762.1	2691.9
10°	2147.1	2150.0	2165.6	2211.0	2274.1	2369.8	2497.5	2651.4	2674.9	2745.1	2684.8
12.5°	2012.3	2014.5	2035.0	2084.0	2151.4	2247.8	2381.9	2559.9	2596.1	2723.8	2683.4
15°	1916.6	1924.4	1942.8	1993.9	2065.5	2161.3	2298.9	2492.6	2535.8	2716.0	2696.1
17.5°	1884.7	1893.2	1898.9	1935.7	2001.0	2094.6	2235.8	2448.6	2497.5	2720.3	2721.0
20°	1918.0	1924.4	1911.6	1920.8	1961.3	2045.0	2182.6	2411.0	2469.2	2725.2	2752.9
22.5°	2042.1	2045.0	2010.2	1969.8	1962.7	2008.8	2140.7	2381.2	2443.6	2738.7	2790.5
25°	2254.9	2250.0	2193.2	2106.0	2023.7	2002.4	2115.9	2362.8	2430.8	2752.9	2829.5
27.5°	2511.7	2518.8	2440.8	2313.8	2157.1	2045.0	2112.4	2355.0	2425.2	2762.8	2863.5
30°	2823.8	2833.7	2744.4	2584.8	2359.9	2150.0	2145.0	2353.5	2421.6	2756.4	2866.4
32.5°	3142.3	3154.4	3084.1	2919.6	2630.9	2325.9	2218.8	2369.1	2428.7	2734.4	2850.1
35°	3475.7	3492.7	3445.9	3304.7	2998.3	2579.8	2348.6	2416.7	2462.1	2732.3	2833.7
37.5°	3936.0	3951.6	3863.7	3714.0	3443.1	2920.3	2557.1	2506.0	2540.8	2766.4	2838.0
40°	4623.4	4621.2	4394.3	4165.1	3931.8	3353.0	2850.1	2667.8	2685.5	2869.2	2890.5
42.5°	5372.4	5368.9	5033.4	4685.1	4474.4	3885.7	3235.2	2947.2	2935.2	3058.6	3026.7
45°	5949.8	5949.1	5675.3	5283.0	5127.7	4497.1	3733.2	3335.9	3317.5	3366.4	3277.8
47.5°	6195.9	6200.2	6062.6	5786.7	5851.9	5324.2	4360.9	3899.1	3871.5	3851.6	3716.9
50°	6004.4	6012.9	6024.3	5970.4	6383.2	6435.7	5202.9	4692.9	4679.4	4590.7	4380.1
52.5°	5378.8	5422.1	5555.4	5726.4	6567.6	7502.5	6522.9	5678.8	5606.5	5512.1	5280.2
55°	4324.7	4372.3	4625.5	5040.4	6293.1	8203.3	8372.8	6949.9	6829.4	6547.8	6213.0
57.5°	2862.1	2935.9	3303.3	3831.1	5495.8	8316.1	10218.5	8714.0	8294.1	7523.1	7145.7
60°	1576.8	1647.8	2046.4	2524.5	3969.4	7758.6	11459.8	11010.8	10268.9	8613.3	8278.5
62.5°	971.1	1009.4	1303.7	1748.5	2380.5	6123.6	11716.6	13897.1	13038.1	10017.1	9646.8
65°	773.2	789.5	933.5	1429.3	1706.6	3642.4	10887.4	16097.4	15810.8	11716.6	10871.8
67°	750.5	756.8	824.9	1227.1	1608.7	2232.9	9121.2	16455.6	16746.4	12745.1	10910.1
67.5°	755.4	762.5	827.1	1171.1	1605.9	2052.1	8512.6	16314.4	16681.9	12826.7	10740.6
70°	728.5	750.5	946.9	1170.4	1527.2	1705.2	5097.9	14135.4	14517.7	11918.0	9113.4
72.5°	258.2	259.6	409.3	946.9	1660.5	1723.7	2559.9	10362.5	10645.5	9116.9	6570.5
75°	153.2	130.5	136.2	269.5	1586.8	1674.0	1476.8	6621.5	6727.2	5224.2	3327.4
77.5°	105.7	92.2	95.0	119.2	604.3	1650.6	1173.2	3453.0	3340.2	1832.2	708.6
80°	60.3	53.2	56.7	104.3	219.9	1539.9	1106.5	1400.2	1193.8	310.7	195.8
82.5°	31.9	27.0	32.6	85.8	153.2	959.7	1108.7	676.7	536.2	105.0	133.4
85°	11.3	9.2	15.6	58.9	102.1	294.4	1027.8	568.9	446.9	51.1	101.4
87.5°	2.1	2.1	6.4	24.1	41.1	90.1	607.9	337.6	226.3	30.5	69.5
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°	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9
2.5°	2673.4	2642.9	2601.8	2551.4	2491.9	2439.4	2400.3	2359.9	2351.4	2337.2	2335.1
5°	2655.7	2603.2	2501.1	2384.0	2259.2	2146.4	2054.9	1973.3	1937.2	1906.0	1902.4
7.5°	2629.5	2550.7	2376.9	2188.3	1993.2	1815.9	1665.5	1559.1	1461.2	1414.4	1407.3
10°	2599.0	2486.2	2237.2	1975.5	1705.9	1455.5	1232.1	1044.8	931.3	864.0	855.4
12.5°	2570.6	2423.0	2094.6	1754.9	1396.7	1061.9	774.6	595.8	476.7	428.4	422.8
15°	2557.1	2372.0	1961.3	1529.3	1073.2	676.0	423.5	327.7	288.7	277.3	276.6
17.5°	2555.7	2328.7	1830.8	1295.9	751.9	393.0	275.9	251.8	244.0	241.2	241.2
20°	2555.0	2287.6	1700.2	1054.1	477.4	261.7	229.8	224.1	218.5	214.9	214.9
22.5°	2562.8	2250.7	1564.1	807.2	300.8	212.1	202.2	196.5	189.4	184.4	183.7
25°	2570.6	2222.3	1425.0	574.6	217.8	184.4	174.5	166.7	156.8	150.4	149.7
27.5°	2572.0	2186.8	1276.1	384.5	182.3	161.0	148.2	136.2	124.8	118.5	117.7
30°	2550.7	2127.3	1110.8	259.6	161.0	139.7	122.7	109.9	99.3	94.3	94.3
32.5°	2508.9	2053.5	929.2	195.8	143.3	119.9	101.4	89.4	82.3	80.2	79.4
35°	2471.3	1974.0	742.7	166.0	128.4	101.4	83.0	75.2	70.9	70.2	69.5
37.5°	2449.3	1910.2	567.5	150.4	114.2	85.1	70.2	64.5	62.4	61.0	61.7
40°	2466.3	1857.0	419.2	137.6	100.0	70.9	59.6	56.7	54.6	53.9	53.9
42.5°	2540.8	1847.8	311.4	126.3	86.5	58.9	51.8	49.7	48.2	47.5	48.2
45°	2736.6	1904.5	241.9	115.6	73.1	49.7	44.0	43.3	42.6	42.6	42.6
47.5°	3030.9	2021.6	201.4	103.6	61.0	42.6	38.3	37.6	36.9	37.6	37.6
50°	3529.6	2235.8	180.2	91.5	50.4	36.2	32.6	32.6	32.6	32.6	33.3
52.5°	4287.9	2657.1	166.0	79.4	41.1	30.5	27.7	27.7	28.4	28.4	29.1
55°	5132.7	3216.1	153.2	67.4	34.8	25.5	22.7	23.4	24.1	24.8	24.8
57.5°	6049.1	3835.3	142.6	55.3	29.8	20.6	19.2	19.9	20.6	22.0	22.0
60°	7154.9	4505.6	127.0	43.3	24.8	16.3	14.9	16.3	18.4	19.9	20.6
62.5°	8369.3	5153.9	107.1	34.0	20.6	12.8	12.1	14.9	17.7	19.2	19.9
65°	9199.2	5357.5	82.3	27.7	15.6	9.2	9.9	13.5	17.0	19.2	19.2
67°	8863.0	4857.4	67.4	23.4	12.8	7.1	9.2	13.5	17.0	18.4	19.2
67.5°	8629.6	4661.7	64.5	22.7	12.1	7.1	9.2	13.5	17.0	19.2	19.2
70°	7021.6	3501.9	53.9	17.0	9.9	6.4	7.8	12.8	16.3	18.4	18.4
72.5°	4878.7	2159.2	48.2	12.1	8.5	5.7	7.1	12.1	15.6	17.7	18.4
75°	2319.5	781.7	41.1	9.2	7.8	5.0	6.4	12.1	15.6	17.7	17.7
77.5°	473.1	181.6	33.3	7.8	6.4	5.0	5.7	11.3	14.9	17.0	17.0
80°	155.3	70.2	24.8	7.1	6.4	5.0	5.7	10.6	14.9	16.3	17.0
82.5°	112.1	35.5	16.3	7.1	6.4	5.0	5.0	10.6	14.2	16.3	16.3
85°	85.8	24.8	10.6	7.1	6.4	5.0	5.0	9.9	13.5	15.6	15.6
87.5°	56.7	9.9	8.5	7.1	6.4	5.0	5.0	9.9	12.8	14.9	15.6
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)