

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: P193671

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12668 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 166
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

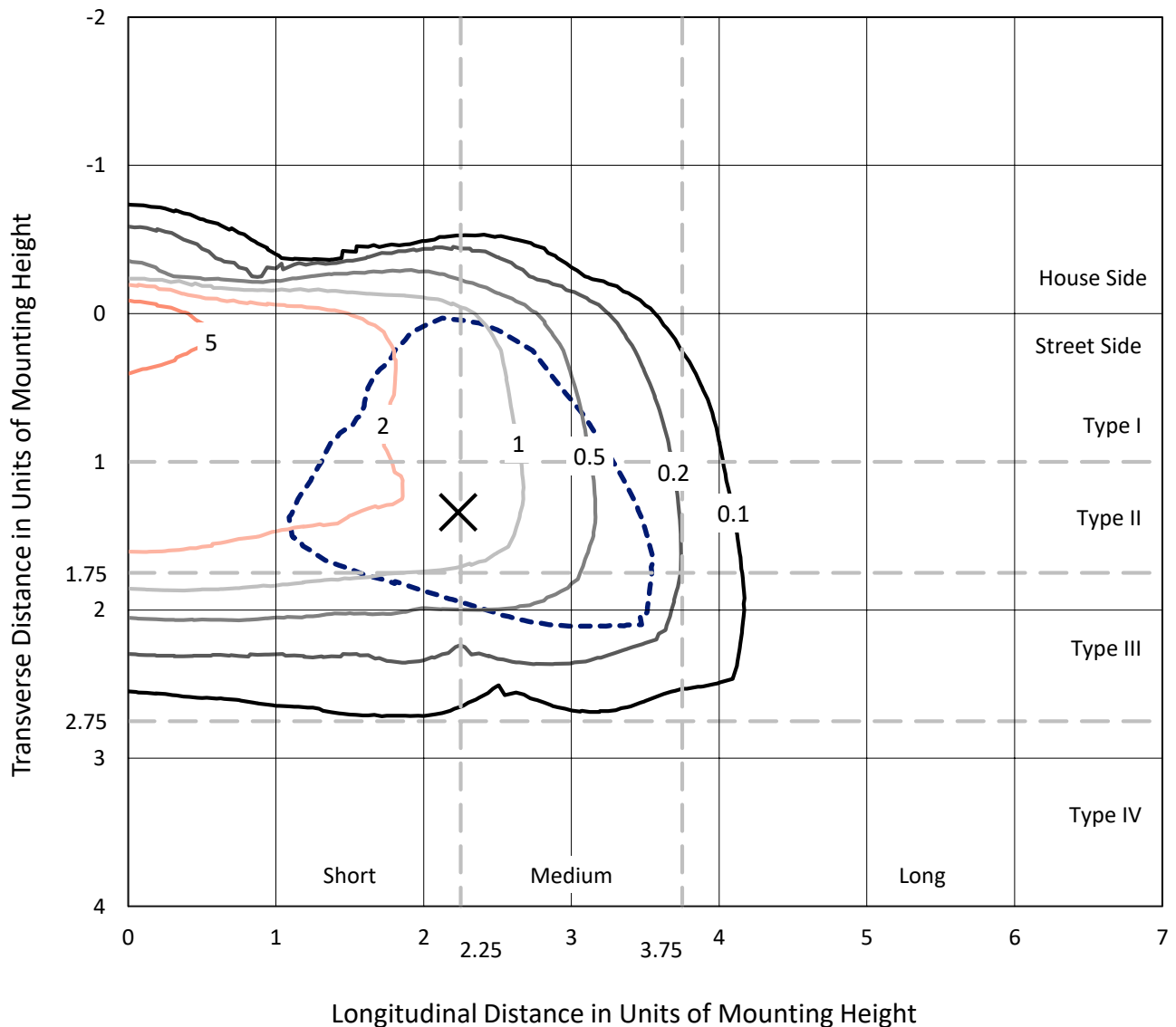


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Iso-Footcandle Lines of Horizontal Illumination

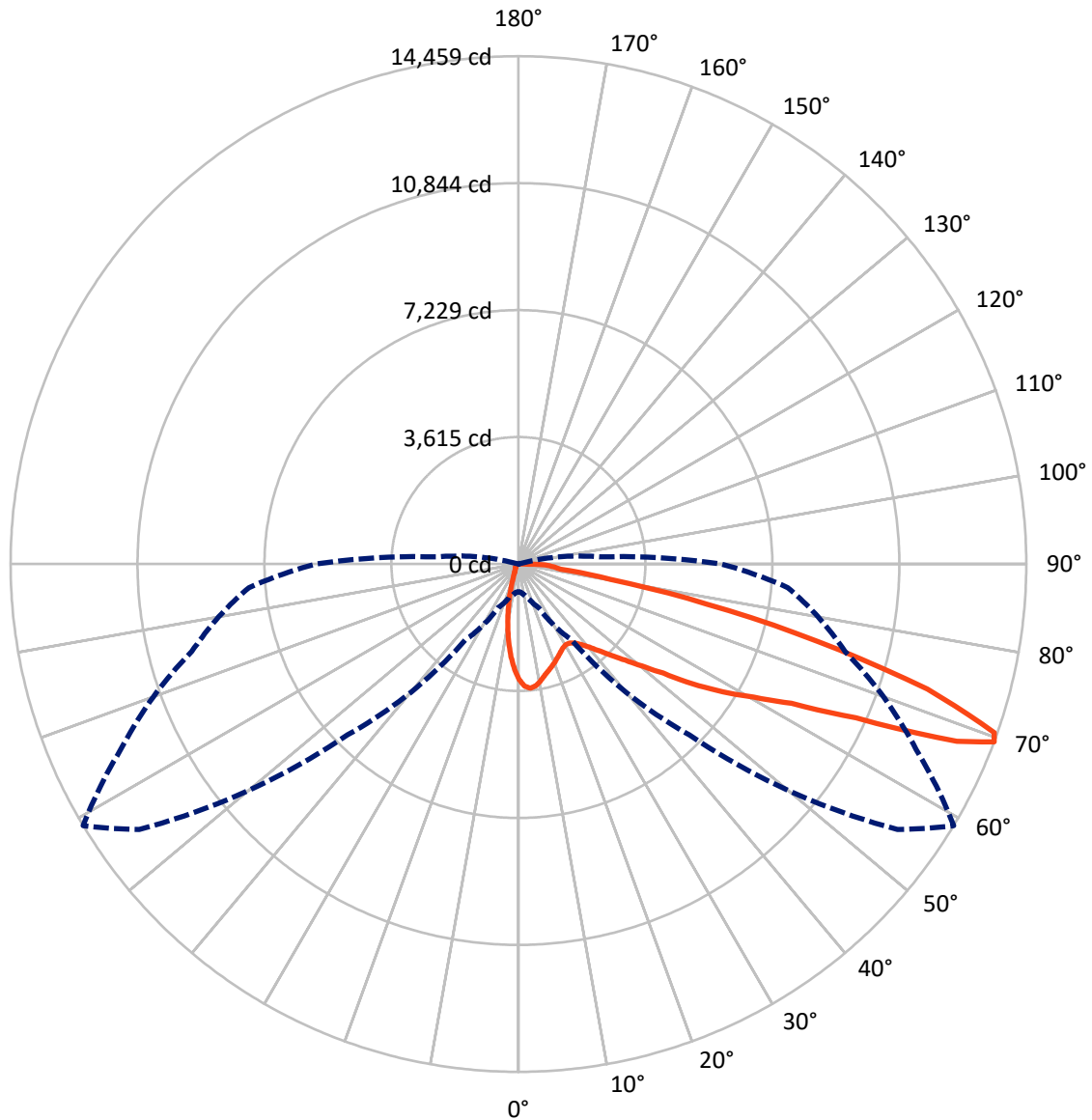
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1031.6	0.0	1031.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	11636.4	0.0	11636.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	12668.0	0.0	12668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	2.1
10°-20°	553.0	4.4
20°-30°	744.2	5.9
30°-40°	1080.5	8.5
40°-50°	1799.1	14.2
50°-60°	2806.5	22.2
60°-70°	3472.9	27.4
70°-80°	1760.0	13.9
80°-90°	184.2	1.5
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°	12668.0	100.0
0°-180°	12668.0	100.0

Coefficient of Utilization



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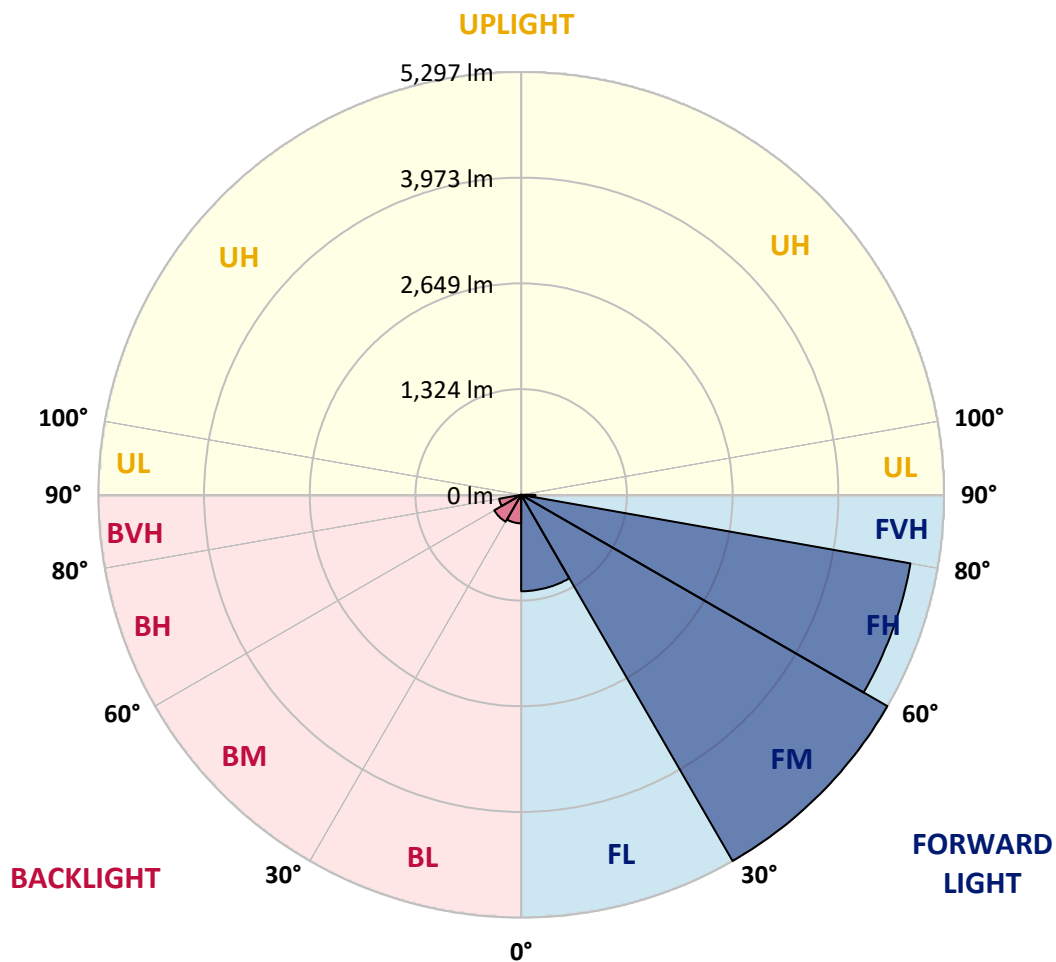
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1207.8	9.5			
FM	(30°-60°)	5297.4	41.8			
FH	(60°-80°)	4952.7	39.1			G2/5000
FVH	(80°-90°)	178.5	1.4			G2/225
BL	(0°-30°)	357.1	2.8	B1/500		
BM	(30°-60°)	388.7	3.1	B1/1000		
BH	(60°-80°)	280.2	2.2	B1/500		G1/500
BVH	(80°-90°)	5.7	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3
2.5°	3613.9	3612.5	3596.7	3589.6	3576.7	3549.5	3507.2	3485.0	3449.2	3386.8	3303.0
5°	3581.0	3598.2	3607.5	3608.2	3617.5	3607.5	3569.5	3550.9	3501.5	3401.2	3250.7
7.5°	3357.5	3363.9	3390.4	3413.4	3457.8	3500.0	3513.6	3505.8	3476.4	3368.9	3169.1
10°	3118.2	3124.7	3156.2	3186.3	3246.4	3311.6	3380.4	3394.7	3406.9	3323.1	3090.3
12.5°	2911.9	2918.4	2950.6	2990.0	3060.2	3140.4	3247.2	3270.8	3324.5	3279.4	3027.2
15°	2734.3	2737.1	2768.6	2817.4	2901.2	3004.3	3125.4	3163.3	3245.7	3248.6	2972.1
17.5°	2583.1	2590.3	2609.6	2656.2	2747.9	2875.4	3016.5	3070.9	3167.6	3222.8	2918.4
20°	2490.7	2497.9	2497.2	2522.9	2605.3	2741.4	2907.6	2972.8	3090.3	3196.3	2870.4
22.5°	2472.8	2472.8	2454.2	2450.6	2499.3	2613.2	2794.4	2873.9	3020.8	3184.8	2836.7
25°	2536.6	2533.7	2487.1	2449.2	2451.3	2519.4	2684.8	2779.4	2962.1	3192.7	2818.8
27.5°	2671.2	2667.6	2608.9	2536.6	2478.5	2477.8	2601.7	2703.5	2915.5	3230.0	2826.0
30°	2857.5	2856.0	2792.3	2701.3	2596.0	2499.3	2573.1	2665.5	2885.4	3297.3	2842.4
32.5°	3060.9	3058.8	3010.8	2914.8	2781.5	2596.0	2603.2	2680.5	2894.0	3386.8	2882.5
35°	3276.5	3272.9	3252.2	3168.4	3021.5	2774.4	2702.0	2762.2	2948.4	3520.8	2961.3
37.5°	3510.1	3513.6	3528.7	3448.5	3294.4	3024.4	2867.5	2908.3	3058.0	3702.8	3089.6
40°	3854.6	3853.9	3858.9	3753.6	3605.3	3330.3	3098.9	3111.8	3241.4	3944.2	3284.4
42.5°	4480.0	4436.3	4303.8	4088.9	3939.9	3679.8	3390.4	3376.8	3465.6	4242.9	3557.3
45°	5320.2	5227.1	4883.3	4471.4	4280.8	4073.8	3749.3	3705.6	3762.2	4601.8	3894.0
47.5°	6043.0	5946.3	5459.9	4869.7	4642.6	4447.7	4169.8	4091.0	4109.6	5003.6	4321.0
50°	6288.7	6241.5	5816.7	5216.4	4992.9	4918.4	4657.6	4561.6	4535.1	5468.5	4815.9
52.5°	6203.5	6199.9	5917.0	5441.3	5313.8	5405.5	5271.5	5160.5	5063.1	5958.5	5319.5
55°	6066.7	6084.6	5957.8	5638.3	5634.0	5850.3	6111.1	6018.7	5736.4	6490.7	5753.6
57.5°	5689.2	5765.8	5934.9	6010.8	6187.0	6408.4	6810.2	6864.7	6530.9	6898.3	6113.9
60°	4616.1	4784.4	5337.4	6064.5	6899.8	7451.4	7654.1	7700.6	7182.7	7237.2	6600.3
62.5°	3276.5	3448.5	4149.7	5379.7	6910.5	8821.7	8911.2	8728.6	7900.5	7739.3	7439.2
65°	1739.3	1871.8	2444.9	3883.3	5991.5	9139.8	11109.7	10565.3	9167.0	8727.1	8523.0
67.5°	889.7	929.8	1157.6	1900.4	4118.9	8118.3	13080.3	13463.6	11349.7	9707.1	8470.7
69°	787.3	810.9	962.0	1373.9	2637.6	6876.1	13176.3	14458.6	12492.2	9625.4	7697.8
70°	762.2	783.0	920.5	1243.6	2061.6	5766.5	12808.8	14371.2	12784.5	9314.5	7120.4
72.5°	646.9	664.8	819.5	1098.9	1675.5	2862.5	10404.8	12177.8	11472.2	7759.4	5154.1
75°	432.7	491.4	786.5	1030.1	1558.8	1626.1	6859.7	8800.2	8174.9	5233.6	2684.8
77.5°	103.9	111.7	222.1	819.5	1425.5	1431.2	3528.0	5470.7	4462.1	1865.3	634.7
80°	55.9	53.7	62.3	162.6	1327.4	1343.1	1588.1	2655.5	1593.1	309.5	209.2
82.5°	39.4	37.2	40.1	68.1	417.6	1223.5	1149.0	1202.0	660.5	118.9	93.8
85°	14.3	13.6	22.2	61.6	131.1	703.4	1180.5	991.4	535.1	54.4	68.8
87.5°	5.0	4.3	8.6	33.7	40.1	299.4	728.5	749.3	210.6	33.0	32.2
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°	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3	3297.3
2.5°	3267.9	3223.5	3141.9	3058.0	2980.7	2887.6	2841.0	2795.2	2775.8	2768.6	2735.0
5°	3173.4	3098.2	2924.8	2750.7	2590.3	2419.8	2307.3	2217.1	2164.1	2138.3	2097.4
7.5°	3052.3	2929.1	2666.2	2397.6	2147.6	1901.2	1718.5	1578.1	1481.4	1434.8	1392.6
10°	2934.8	2770.8	2396.9	2030.8	1691.3	1364.6	1112.5	929.8	813.0	759.3	724.9
12.5°	2829.5	2616.8	2136.8	1673.4	1247.1	864.6	608.2	462.8	390.4	365.3	353.2
15°	2735.7	2474.9	1891.1	1333.8	844.6	494.3	332.4	283.0	271.5	271.5	270.1
17.5°	2646.9	2336.0	1654.0	1015.1	530.1	302.3	252.9	246.4	246.4	249.3	249.3
20°	2561.6	2203.5	1424.8	728.5	333.8	240.0	228.5	227.1	228.5	232.1	232.1
22.5°	2488.6	2083.1	1210.6	500.0	247.9	216.3	210.6	208.5	209.2	211.3	212.8
25°	2434.1	1981.4	1008.6	338.8	213.5	197.0	190.5	187.0	184.1	184.1	185.5
27.5°	2399.7	1895.4	813.0	246.4	192.0	179.1	169.1	163.3	156.9	153.3	154.7
30°	2374.7	1813.8	629.7	201.3	171.9	159.0	146.1	136.8	127.5	123.2	124.6
32.5°	2365.3	1747.9	470.6	177.7	154.0	139.7	123.9	111.7	101.7	98.1	98.9
35°	2390.4	1695.6	344.6	160.5	139.7	121.8	103.9	90.3	82.4	80.2	80.9
37.5°	2456.3	1667.6	257.9	146.1	126.8	106.7	86.7	73.8	68.8	68.8	69.5
40°	2581.0	1666.9	207.0	136.1	115.3	92.4	71.6	62.3	59.5	60.9	61.6
42.5°	2762.9	1704.9	180.5	126.8	105.3	78.8	59.5	53.0	52.3	53.7	54.4
45°	3011.5	1774.4	166.2	118.9	94.6	65.9	50.1	45.8	45.8	48.0	48.7
47.5°	3315.9	1876.1	154.0	111.0	83.8	55.2	43.0	40.1	40.8	43.0	43.7
50°	3682.7	2004.3	141.8	102.4	75.9	45.8	37.2	35.1	35.8	38.7	39.4
52.5°	4100.3	2177.0	131.8	94.6	65.9	38.0	31.5	30.1	31.5	34.4	35.1
55°	4458.5	2331.7	119.6	88.1	53.0	31.5	25.8	25.8	27.2	30.8	31.5
57.5°	4803.0	2493.6	108.9	75.9	41.5	25.1	21.5	22.2	24.4	27.9	28.7
60°	5308.8	2767.9	96.0	63.8	31.5	20.1	17.9	18.6	21.5	25.1	25.8
62.5°	6167.7	3185.6	83.1	53.0	24.4	15.8	14.3	15.8	19.3	23.6	24.4
65°	6942.8	3355.3	68.1	44.4	18.6	12.2	12.2	14.3	18.6	22.9	23.6
67.5°	6510.8	2824.5	53.0	35.1	14.3	9.3	10.0	13.6	17.9	22.9	23.6
69°	5757.9	2309.5	45.1	27.9	12.2	8.6	9.3	13.6	17.9	22.2	22.9
70°	5171.2	1949.9	40.1	23.6	10.7	8.6	9.3	12.9	17.9	22.2	22.9
72.5°	3463.5	1053.0	32.2	17.2	10.0	7.9	7.9	12.9	17.2	21.5	22.2
75°	1488.6	290.8	25.8	12.2	8.6	7.2	7.2	12.2	16.5	20.8	22.2
77.5°	272.2	73.8	20.8	10.7	8.6	7.2	6.4	11.5	15.8	20.1	20.8
80°	108.2	36.5	16.5	9.3	7.9	6.4	5.7	10.7	15.0	19.3	20.1
82.5°	65.2	20.8	13.6	8.6	7.9	5.7	5.0	9.3	14.3	18.6	19.3
85°	53.0	14.3	10.7	8.6	7.2	5.7	4.3	8.6	12.9	17.9	18.6
87.5°	25.8	10.0	10.0	7.9	7.2	5.7	4.3	7.9	12.2	17.2	17.9
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)