

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: P191861

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191861
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-SL2-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA 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: 16512 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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

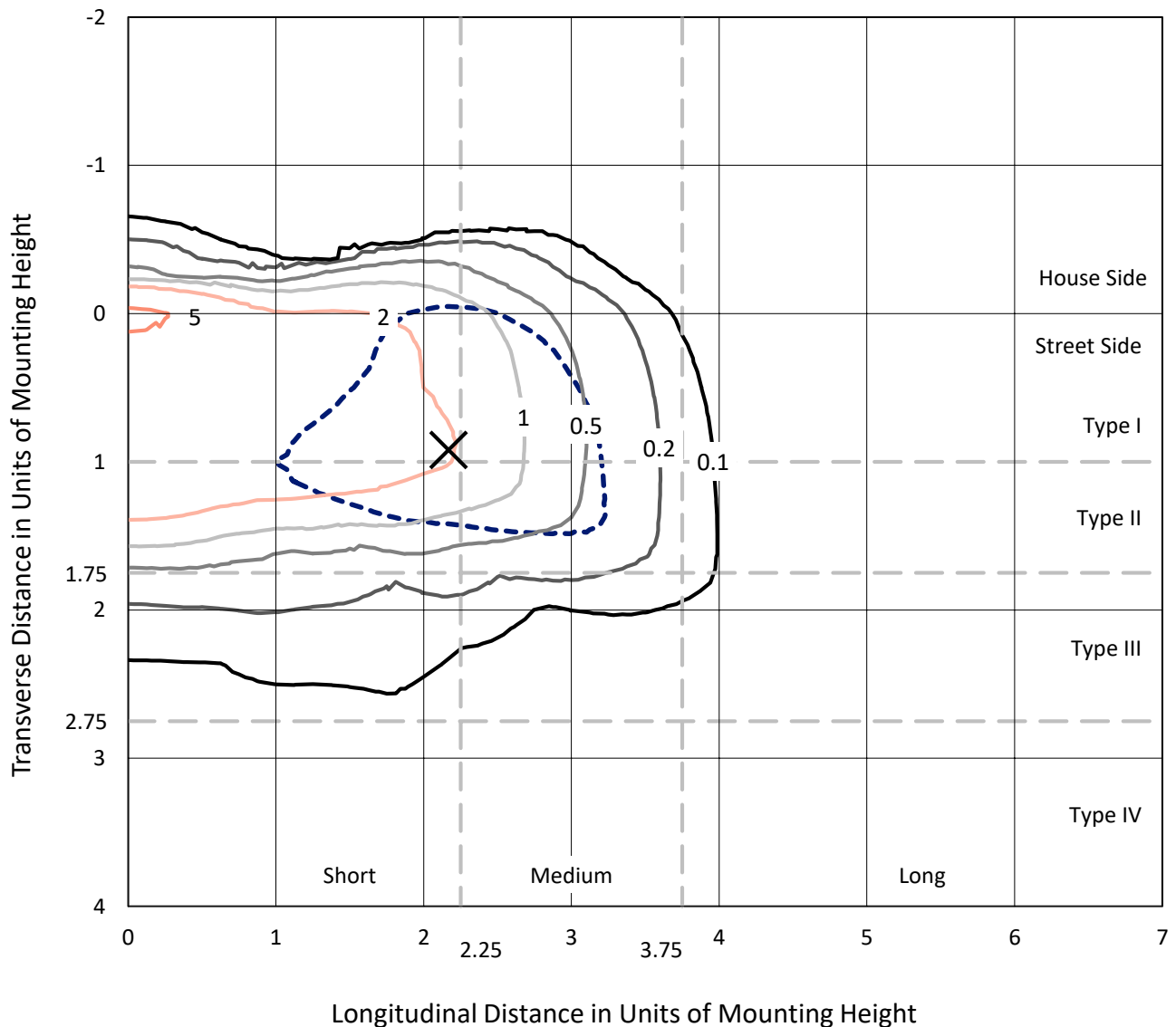


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Iso-Footcandle Lines of Horizontal Illumination

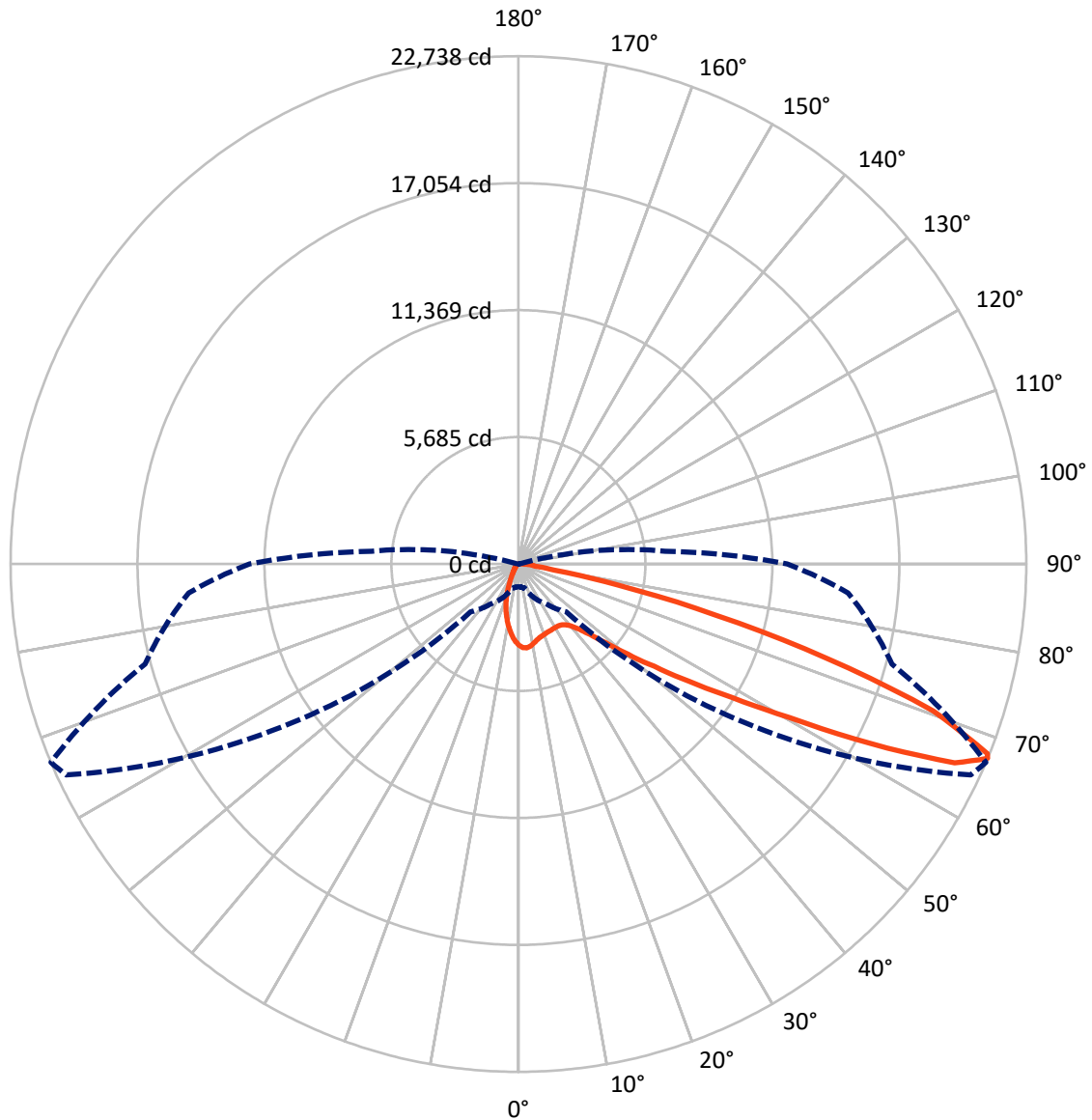
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1714.4	0.0	1714.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14797.6	0.0	14797.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	16512.0	0.0	16512.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	1.8
10°-20°	630.6	3.8
20°-30°	916.9	5.6
30°-40°	1430.4	8.7
40°-50°	2533.9	15.3
50°-60°	4009.6	24.3
60°-70°	4592.5	27.8
70°-80°	1904.9	11.5
80°-90°	196.8	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°	16512.0	100.0
0°-180°	16512.0	100.0



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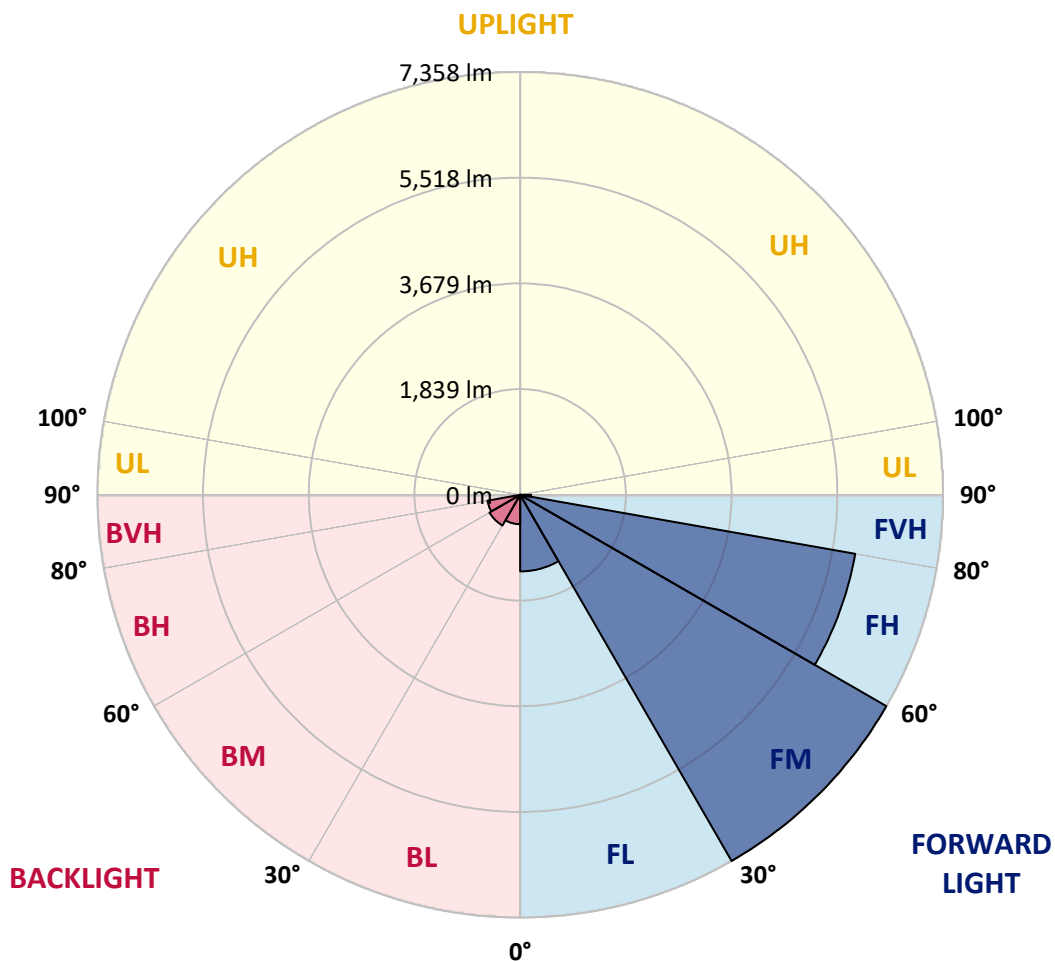
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.3	8.1			
FM (30°-60°)	7357.8	44.6			
FH (60°-80°)	5919.6	35.9			G3/7500
FVH (80°-90°)	187.9	1.1			G2/225
BL (0°-30°)	511.6	3.1	B2/1000		
BM (30°-60°)	616.2	3.7	B1/1000		
BH (60°-80°)	577.8	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5
2.5°	3764.8	3772.5	3771.5	3777.3	3790.8	3791.8	3778.3	3752.3	3746.5	3712.8	3654.0
5°	3472.0	3494.2	3507.6	3562.5	3624.2	3698.3	3754.2	3774.4	3771.5	3747.4	3658.8
7.5°	3137.8	3160.0	3175.4	3239.9	3321.8	3448.9	3594.3	3713.7	3724.3	3750.3	3655.0
10°	2915.3	2919.2	2940.4	3002.0	3087.7	3217.7	3391.1	3600.1	3631.9	3727.2	3645.4
12.5°	2732.3	2735.2	2763.2	2829.6	2921.1	3052.1	3234.1	3475.9	3525.0	3698.3	3643.4
15°	2602.3	2612.9	2637.9	2707.3	2804.6	2934.6	3121.4	3384.4	3443.1	3687.7	3660.8
17.5°	2559.0	2570.5	2578.2	2628.3	2716.9	2844.1	3035.7	3324.6	3391.1	3693.5	3694.5
20°	2604.2	2612.9	2595.6	2608.1	2663.0	2776.6	2963.5	3273.6	3352.6	3700.3	3737.8
22.5°	2772.8	2776.6	2729.4	2674.5	2664.9	2727.5	2906.7	3233.1	3317.9	3718.6	3788.9
25°	3061.7	3055.0	2977.9	2859.5	2747.7	2718.8	2872.9	3208.1	3300.6	3737.8	3841.8
27.5°	3410.4	3420.0	3314.0	3141.7	2928.8	2776.6	2868.1	3197.5	3292.9	3751.3	3888.1
30°	3834.1	3847.6	3726.3	3509.6	3204.3	2919.2	2912.4	3195.6	3288.0	3742.6	3891.9
32.5°	4266.6	4282.9	4187.6	3964.1	3572.2	3158.0	3012.6	3216.8	3297.7	3712.8	3869.8
35°	4719.2	4742.3	4678.8	4487.1	4071.1	3502.8	3188.8	3281.3	3342.9	3709.9	3847.6
37.5°	5344.3	5365.5	5246.0	5042.8	4674.9	3965.1	3472.0	3402.7	3449.8	3756.1	3853.4
40°	6277.5	6274.6	5966.4	5655.4	5338.5	4552.6	3869.8	3622.2	3646.3	3895.8	3924.7
42.5°	7294.6	7289.8	6834.2	6361.3	6075.3	5275.9	4392.7	4001.7	3985.3	4152.9	4109.6
45°	8078.5	8077.6	7705.8	7173.2	6962.3	6106.1	5068.8	4529.5	4504.4	4570.9	4450.5
47.5°	8412.7	8418.5	8231.7	7857.0	7945.6	7229.1	5921.2	5294.2	5256.6	5229.7	5046.7
50°	8152.7	8164.3	8179.7	8106.5	8667.0	8738.3	7064.4	6371.9	6353.6	6233.2	5947.2
52.5°	7303.2	7362.0	7543.1	7775.2	8917.4	10186.8	8856.7	7710.6	7612.4	7484.3	7169.4
55°	5872.1	5936.6	6280.4	6843.8	8544.7	11138.3	11368.5	9436.5	9272.8	8890.4	8435.9
57.5°	3886.1	3986.3	4485.2	5201.7	7462.1	11291.5	13874.5	11831.8	11261.6	10214.7	9702.3
60°	2141.0	2237.3	2778.6	3427.7	5389.5	10534.5	15559.9	14950.3	13942.9	11695.0	11240.4
62.5°	1318.5	1370.5	1770.2	2374.1	3232.2	8314.5	15908.6	18869.2	17702.9	13601.0	13098.2
65°	1049.8	1071.9	1267.4	1940.7	2317.2	4945.6	14782.7	21856.7	21467.6	15908.6	14761.5
67°	1019.0	1027.6	1120.1	1666.2	2184.3	3031.9	12384.6	22343.1	22738.0	17305.1	14813.5
67.5°	1025.7	1035.3	1123.0	1590.1	2180.5	2786.3	11558.2	22151.5	22650.3	17415.9	14583.4
70°	989.1	1019.0	1285.7	1589.1	2073.6	2315.3	6921.8	19192.8	19711.9	16182.1	12374.0
72.5°	350.6	352.5	555.7	1285.7	2254.6	2340.3	3475.9	14070.0	14454.3	12378.8	8921.3
75°	208.0	177.2	184.9	366.0	2154.5	2272.9	2005.2	8990.6	9134.1	7093.3	4517.9
77.5°	143.5	125.2	129.1	161.8	820.6	2241.1	1593.0	4688.4	4535.3	2487.7	962.1
80°	81.9	72.2	77.0	141.6	298.6	2090.9	1502.4	1901.2	1620.9	421.8	265.8
82.5°	43.3	36.6	44.3	116.5	208.0	1303.1	1505.3	918.8	728.1	142.5	181.1
85°	15.4	12.5	21.2	79.9	138.7	399.7	1395.5	772.4	606.8	69.3	137.7
87.5°	2.9	2.9	8.7	32.7	55.9	122.3	825.4	458.4	307.2	41.4	94.4
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°	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5	3641.5
2.5°	3629.9	3588.5	3532.7	3464.3	3383.4	3312.1	3259.2	3204.3	3192.7	3173.4	3170.5
5°	3605.9	3534.6	3395.9	3237.0	3067.5	2914.4	2790.1	2679.4	2630.2	2587.9	2583.1
7.5°	3570.2	3463.3	3227.4	2971.2	2706.3	2465.6	2261.4	2116.9	1984.0	1920.4	1910.8
10°	3528.8	3375.7	3037.6	2682.3	2316.3	1976.3	1672.9	1418.7	1264.6	1173.1	1161.5
12.5°	3490.3	3290.0	2844.1	2382.7	1896.4	1441.8	1051.7	809.0	647.2	581.7	574.0
15°	3472.0	3220.6	2663.0	2076.5	1457.2	917.8	575.0	445.0	392.0	376.6	375.6
17.5°	3470.1	3161.9	2485.8	1759.6	1020.9	533.6	374.6	341.9	331.3	327.5	327.5
20°	3469.1	3106.0	2308.6	1431.2	648.2	355.4	312.0	304.3	296.6	291.8	291.8
22.5°	3479.7	3055.9	2123.6	1096.0	408.4	288.0	274.5	266.8	257.1	250.4	249.4
25°	3490.3	3017.4	1934.9	780.1	295.7	250.4	236.9	226.3	212.8	204.2	203.2
27.5°	3492.2	2969.3	1732.6	522.0	247.5	218.6	201.3	184.9	169.5	160.8	159.9
30°	3463.3	2888.4	1508.2	352.5	218.6	189.7	166.6	149.3	134.8	128.1	128.1
32.5°	3406.5	2788.2	1261.7	265.8	194.5	162.8	137.7	121.4	111.7	108.8	107.9
35°	3355.5	2680.3	1008.4	225.4	174.3	137.7	112.7	102.1	96.3	95.3	94.4
37.5°	3325.6	2593.6	770.5	204.2	155.1	115.6	95.3	87.6	84.8	82.8	83.8
40°	3348.7	2521.4	569.2	186.8	135.8	96.3	80.9	77.0	74.2	73.2	73.2
42.5°	3449.8	2508.9	422.8	171.4	117.5	79.9	70.3	67.4	65.5	64.5	65.5
45°	3715.7	2585.9	328.4	157.0	99.2	67.4	59.7	58.7	57.8	57.8	57.8
47.5°	4115.4	2744.9	273.5	140.6	82.8	57.8	52.0	51.0	50.1	51.0	51.0
50°	4792.4	3035.7	244.6	124.2	68.4	49.1	44.3	44.3	44.3	44.3	45.3
52.5°	5822.0	3607.8	225.4	107.9	55.9	41.4	37.6	37.6	38.5	38.5	39.5
55°	6969.0	4366.7	208.0	91.5	47.2	34.7	30.8	31.8	32.7	33.7	33.7
57.5°	8213.4	5207.5	193.6	75.1	40.5	27.9	26.0	27.0	27.9	29.9	29.9
60°	9714.9	6117.7	172.4	58.7	33.7	22.2	20.2	22.2	25.0	27.0	27.9
62.5°	11363.7	6997.9	145.4	46.2	27.9	17.3	16.4	20.2	24.1	26.0	27.0
65°	12490.5	7274.3	111.7	37.6	21.2	12.5	13.5	18.3	23.1	26.0	26.0
67°	12034.0	6595.4	91.5	31.8	17.3	9.6	12.5	18.3	23.1	25.0	26.0
67.5°	11717.2	6329.5	87.6	30.8	16.4	9.6	12.5	18.3	23.1	26.0	26.0
70°	9533.8	4754.9	73.2	23.1	13.5	8.7	10.6	17.3	22.2	25.0	25.0
72.5°	6624.2	2931.7	65.5	16.4	11.6	7.7	9.6	16.4	21.2	24.1	25.0
75°	3149.4	1061.3	55.9	12.5	10.6	6.7	8.7	16.4	21.2	24.1	24.1
77.5°	642.4	246.6	45.3	10.6	8.7	6.7	7.7	15.4	20.2	23.1	23.1
80°	210.9	95.3	33.7	9.6	8.7	6.7	7.7	14.4	20.2	22.2	23.1
82.5°	152.2	48.2	22.2	9.6	8.7	6.7	6.7	14.4	19.3	22.2	22.2
85°	116.5	33.7	14.4	9.6	8.7	6.7	6.7	13.5	18.3	21.2	21.2
87.5°	77.0	13.5	11.6	9.6	8.7	6.7	6.7	13.5	17.3	20.2	21.2
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)