

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: P382886

Luminaire Tested: **GLEON-SA2C-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 11517.7 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

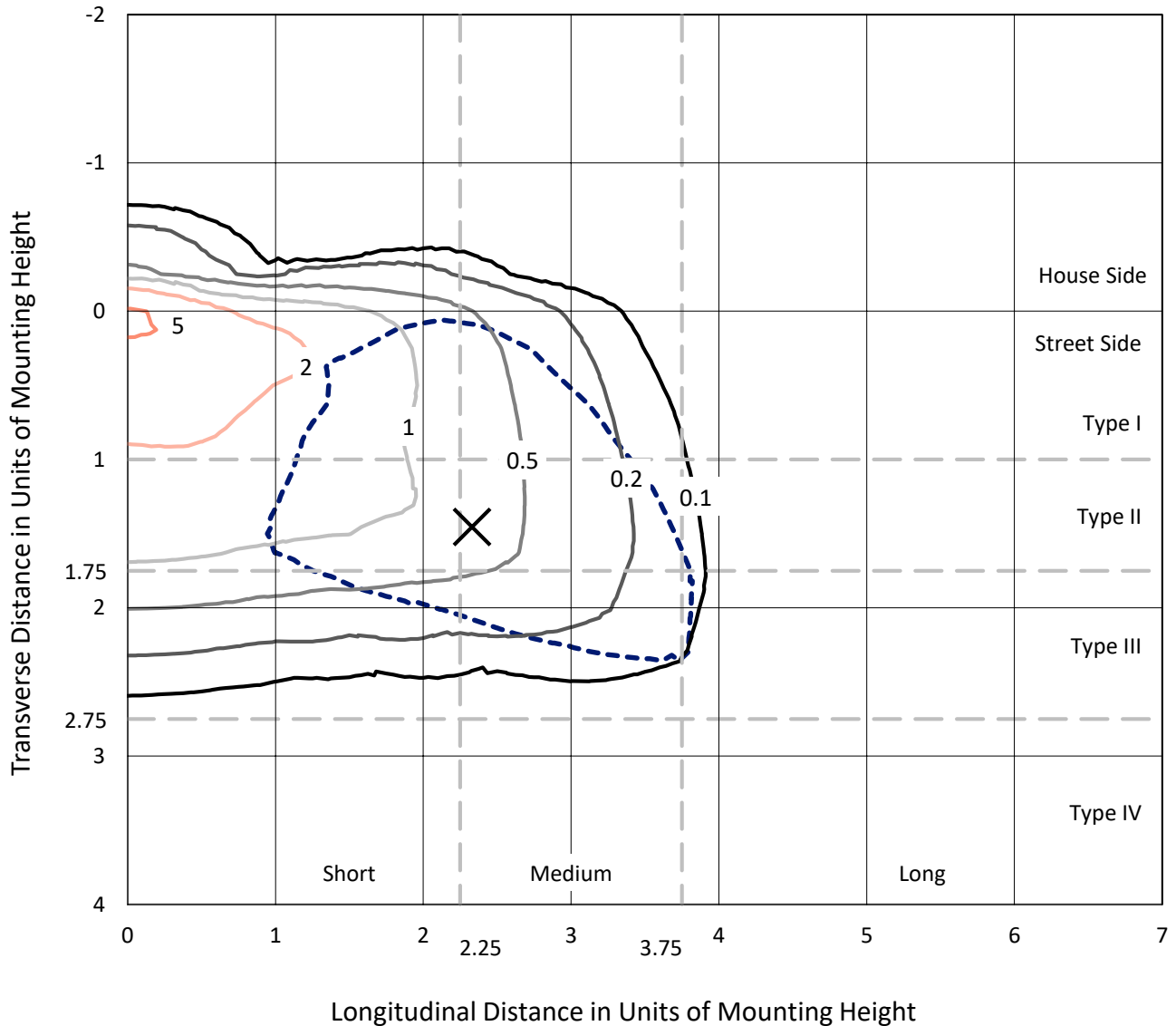
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

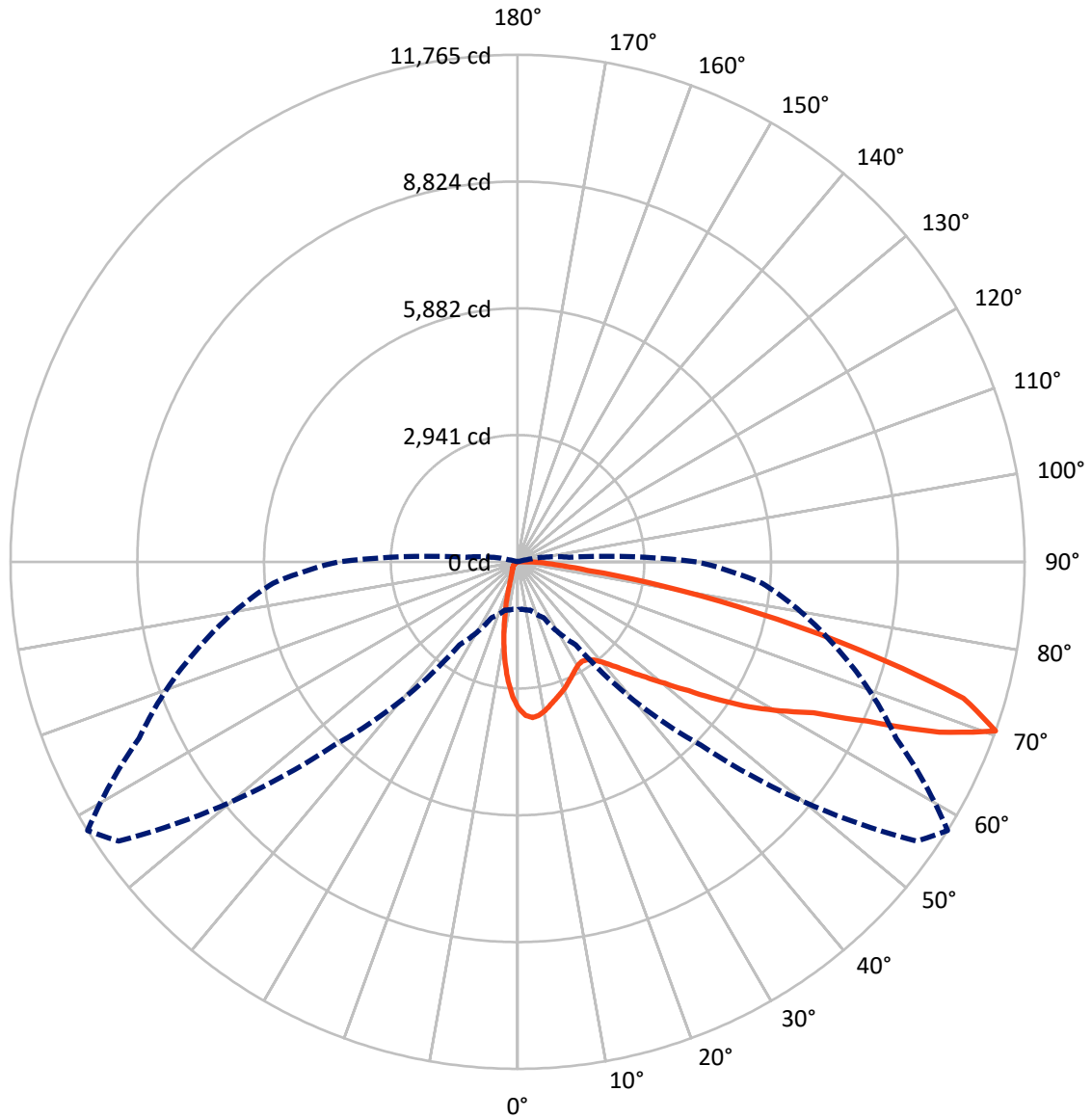
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	985.7	0.0	985.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	10532.0	0.0	10532.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	11517.7	0.0	11517.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.2	2.4
10°-20°	583.9	5.1
20°-30°	767.6	6.7
30°-40°	1016.7	8.8
40°-50°	1519.6	13.2
50°-60°	2434.3	21.1
60°-70°	3068.5	26.6
70°-80°	1655.1	14.4
80°-90°	193.7	1.7
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°	11517.7	100.0
0°-180°	11517.7	100.0

Coefficient of Utilization



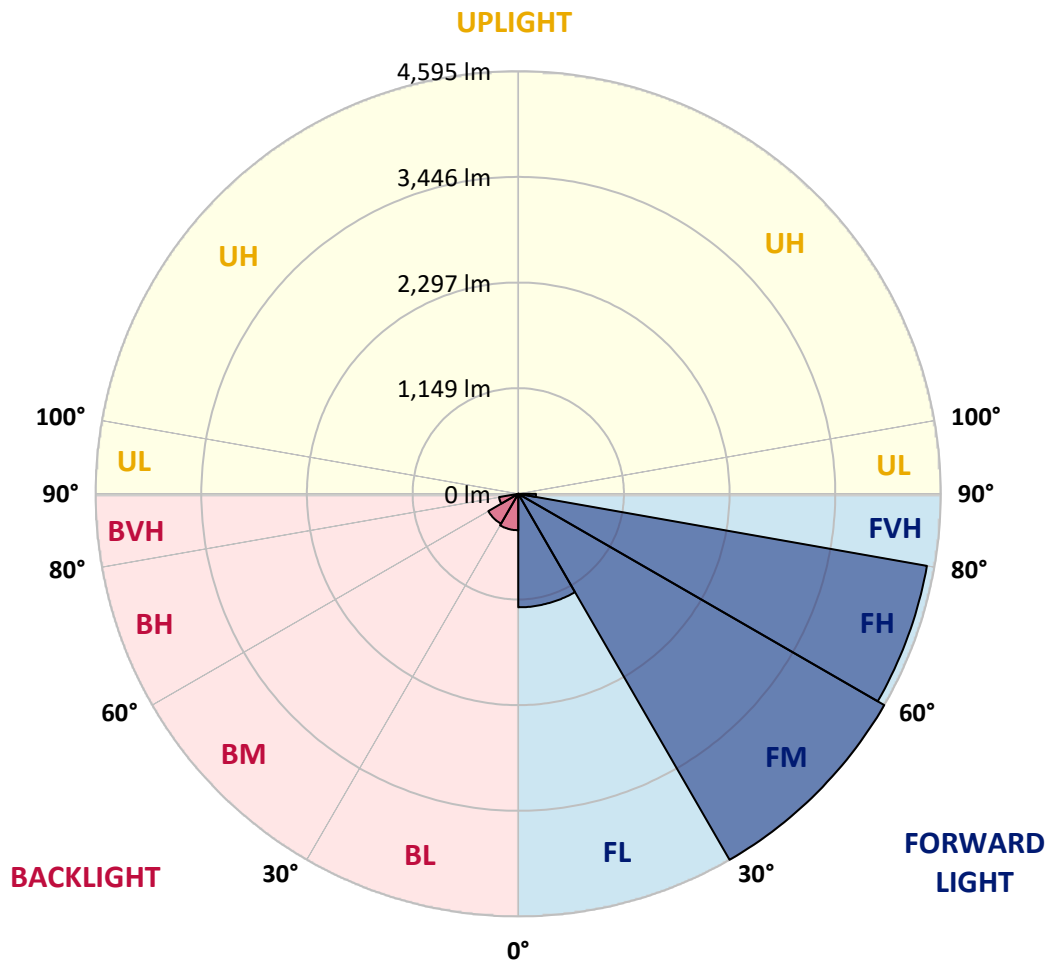
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.8	10.7			
FM (30°-60°)	4594.6	39.9			
FH (60°-80°)	4511.6	39.2			G2/5000
FVH (80°-90°)	192.1	1.7			G2/225
BL (0°-30°)	396.0	3.4	B1/500		
BM (30°-60°)	376.0	3.3	B1/1000		
BH (60°-80°)	212.0	1.8	B1/500		G1/500
BVH (80°-90°)	1.7	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3
2.5°	3684.4	3675.2	3671.9	3666.1	3644.1	3622.6	3579.9	3568.0	3541.2	3477.5	3409.9
5°	3687.3	3686.8	3696.8	3694.4	3686.8	3676.7	3646.1	3630.2	3584.7	3493.8	3370.2
7.5°	3509.5	3518.6	3541.2	3559.4	3580.4	3607.7	3611.5	3596.2	3558.9	3460.7	3296.9
10°	3271.0	3285.4	3317.1	3352.9	3408.0	3462.6	3511.5	3509.5	3496.6	3399.9	3208.8
12.5°	3032.1	3048.9	3085.2	3138.4	3216.4	3305.5	3392.7	3404.6	3426.2	3345.3	3127.4
15°	2822.8	2837.1	2873.1	2938.2	3034.9	3154.7	3282.5	3304.6	3360.1	3302.6	3059.4
17.5°	2645.1	2654.2	2680.5	2752.8	2864.9	3010.0	3176.2	3219.3	3302.1	3269.1	3000.4
20°	2521.0	2522.4	2539.7	2590.4	2702.5	2864.9	3066.1	3127.9	3240.9	3240.4	2939.6
22.5°	2459.8	2454.9	2458.3	2487.5	2569.9	2726.5	2955.9	3029.2	3185.8	3216.0	2877.8
25°	2448.3	2444.4	2434.9	2438.7	2488.4	2605.4	2844.8	2929.5	3137.5	3201.1	2824.2
27.5°	2484.2	2488.0	2471.7	2454.4	2458.3	2526.8	2746.1	2844.3	3098.1	3201.1	2786.4
30°	2556.4	2558.4	2546.4	2523.9	2493.8	2504.7	2677.6	2775.8	3078.5	3223.2	2762.4
32.5°	2636.5	2647.0	2645.6	2627.3	2584.3	2539.7	2661.3	2751.0	3077.1	3272.0	2760.0
35°	2735.6	2747.6	2767.7	2763.9	2718.8	2645.6	2717.0	2787.3	3105.3	3352.5	2785.9
37.5°	2840.9	2859.2	2902.2	2922.8	2893.7	2810.8	2841.4	2891.7	3181.0	3482.7	2851.5
40°	2942.9	2963.5	3042.2	3123.0	3101.0	3015.8	3030.1	3070.4	3315.6	3670.0	2976.0
42.5°	3043.1	3073.7	3189.2	3322.3	3348.6	3280.6	3288.3	3320.4	3515.3	3927.7	3179.6
45°	3162.8	3197.3	3368.3	3532.5	3602.9	3573.2	3605.8	3626.9	3776.3	4268.2	3454.0
47.5°	3338.6	3378.4	3588.0	3775.4	3898.9	3918.1	3983.7	3997.6	4106.3	4664.7	3811.7
50°	3681.5	3692.5	3882.1	4052.1	4230.3	4345.3	4420.0	4430.5	4505.7	5098.1	4258.6
52.5°	4113.0	4120.1	4227.5	4341.4	4544.0	4778.7	4953.5	4968.3	4984.2	5520.5	4699.7
55°	4541.6	4540.6	4611.5	4678.6	4910.4	5251.4	5630.6	5639.8	5526.3	5921.4	5036.8
57.5°	4809.3	4835.2	4943.0	5029.1	5353.0	5790.1	6316.5	6350.0	6095.7	6218.4	5370.2
60°	4724.1	4736.5	4975.5	5294.5	5904.1	6556.0	7010.5	7019.1	6523.9	6514.8	5791.6
62.5°	4024.8	4031.6	4407.1	5064.6	6183.3	7549.3	7847.6	7707.3	7016.2	6926.1	6295.9
65°	2758.6	2802.2	3115.8	3928.6	5670.4	8172.3	9143.6	8911.3	7766.7	7519.1	6751.9
67.5°	1624.5	1615.4	1770.6	2369.2	4164.7	7758.5	10782.9	10552.1	8790.2	7916.1	6618.2
70°	1109.7	1103.4	1162.9	1434.4	2351.0	6018.6	11298.7	11764.7	9693.9	7648.8	5695.9
72.5°	792.1	795.4	883.1	1114.4	1476.0	3506.6	9716.3	10819.4	9410.8	6668.0	4329.5
75°	537.9	546.9	672.4	914.2	1294.0	1784.0	6895.0	8224.5	7663.2	4846.2	2488.4
77.5°	289.2	299.3	447.3	736.6	1170.0	1239.4	4435.3	5660.4	4813.7	2178.6	721.3
80°	120.7	126.4	209.3	535.5	1011.0	1088.6	2609.6	3432.5	2051.3	429.6	160.9
82.5°	52.2	55.1	87.2	319.4	755.8	919.1	1381.7	1651.4	621.6	94.4	81.0
85°	10.1	10.5	36.0	169.1	482.3	518.7	895.6	877.9	279.2	40.7	58.9
87.5°	0.0	0.0	8.7	53.2	141.8	282.5	546.4	539.7	94.8	19.7	22.0
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°	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3
2.5°	3375.5	3342.4	3273.0	3187.2	3121.6	3049.3	2991.9	2919.0	2887.4	2888.8	2871.6
5°	3299.7	3231.7	3078.0	2884.1	2734.7	2580.4	2447.7	2315.5	2237.5	2212.1	2188.2
7.5°	3191.6	3083.8	2838.6	2539.7	2286.9	2039.7	1824.7	1635.5	1515.8	1457.3	1435.8
10°	3069.4	2918.1	2563.2	2169.5	1808.4	1474.1	1195.4	953.1	856.3	790.7	773.9
12.5°	2962.1	2757.2	2294.0	1789.7	1361.1	957.8	692.0	541.1	475.6	449.8	445.4
15°	2861.1	2606.7	2035.0	1445.9	942.5	589.6	440.2	388.9	373.6	369.3	369.3
17.5°	2765.8	2463.6	1781.6	1107.2	623.6	413.3	364.4	353.0	348.2	347.7	348.2
20°	2666.2	2320.4	1532.6	811.3	435.3	350.1	336.7	330.4	329.0	329.0	329.0
22.5°	2570.9	2177.2	1290.2	579.5	349.1	319.4	312.7	308.4	306.9	306.5	305.5
25°	2479.4	2041.2	1053.7	409.5	306.5	292.6	286.9	281.1	276.9	274.4	272.9
27.5°	2404.2	1920.0	833.4	328.6	276.9	264.8	257.7	249.0	238.5	233.7	231.8
30°	2344.3	1809.3	642.2	277.3	249.0	237.1	226.1	211.2	195.9	187.7	187.2
32.5°	2297.4	1700.6	487.6	245.2	224.1	209.3	193.5	174.9	157.1	148.0	147.5
35°	2274.4	1604.9	372.6	221.7	202.1	183.4	163.8	143.2	125.9	117.4	116.4
37.5°	2289.7	1523.9	290.7	202.1	183.4	161.9	138.9	117.4	102.0	94.4	93.9
40°	2345.7	1472.2	236.1	185.4	167.6	141.3	116.4	96.2	83.4	77.1	76.7
42.5°	2465.0	1453.0	201.6	171.5	152.3	122.1	96.8	79.5	67.5	63.3	62.2
45°	2664.2	1481.3	178.2	158.1	136.5	104.0	80.0	65.1	54.6	51.2	50.8
47.5°	2929.5	1555.5	161.4	145.1	122.1	87.7	66.6	52.7	44.5	41.2	40.7
50°	3271.5	1673.3	147.5	132.2	108.7	74.2	55.1	41.6	34.5	32.0	32.0
52.5°	3643.7	1813.7	135.1	120.2	95.3	61.8	44.5	32.0	27.3	24.4	24.4
55°	3951.1	1936.3	121.7	111.1	79.0	51.2	34.0	24.4	20.1	18.7	18.7
57.5°	4258.1	2067.0	106.3	95.3	63.3	41.6	25.9	18.2	14.8	13.9	13.9
60°	4656.1	2227.0	91.5	77.6	49.8	31.6	19.2	12.9	11.0	10.5	10.5
62.5°	5093.8	2320.9	78.1	62.2	38.8	23.5	13.9	8.7	8.1	8.1	7.6
65°	5361.5	2188.2	65.6	49.8	30.2	17.7	9.1	6.2	7.2	6.7	5.8
67.5°	5020.0	1713.1	53.7	38.8	23.5	13.4	5.8	4.3	7.6	6.2	4.8
70°	4156.6	1199.2	41.6	27.3	18.7	11.5	3.8	2.9	8.1	6.2	3.8
72.5°	3110.6	802.7	33.1	18.2	13.9	10.1	3.4	1.4	7.2	5.3	3.4
75°	1699.7	323.2	26.4	11.5	8.7	7.2	2.4	0.9	4.8	3.8	2.4
77.5°	447.3	85.2	19.2	7.6	4.8	2.9	1.4	0.5	2.4	2.0	0.9
80°	114.0	33.1	12.5	5.3	3.4	1.4	0.0	0.0	0.5	0.0	0.0
82.5°	60.8	13.9	7.6	3.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.0	9.1	4.3	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)