

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: P382914

Luminaire Tested: **GLEON-SA2D-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382914
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-SA2D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 12634.6 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

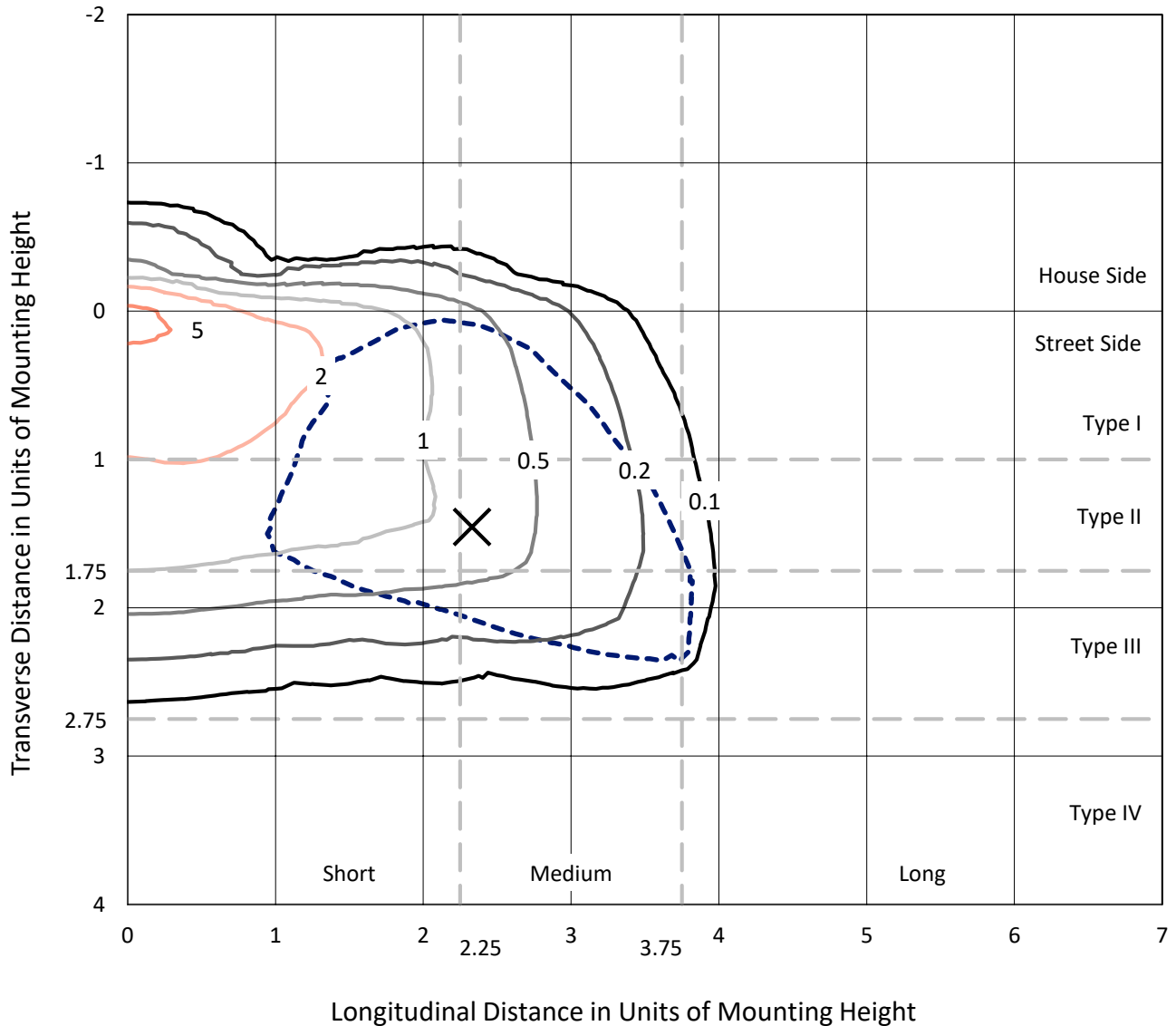
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

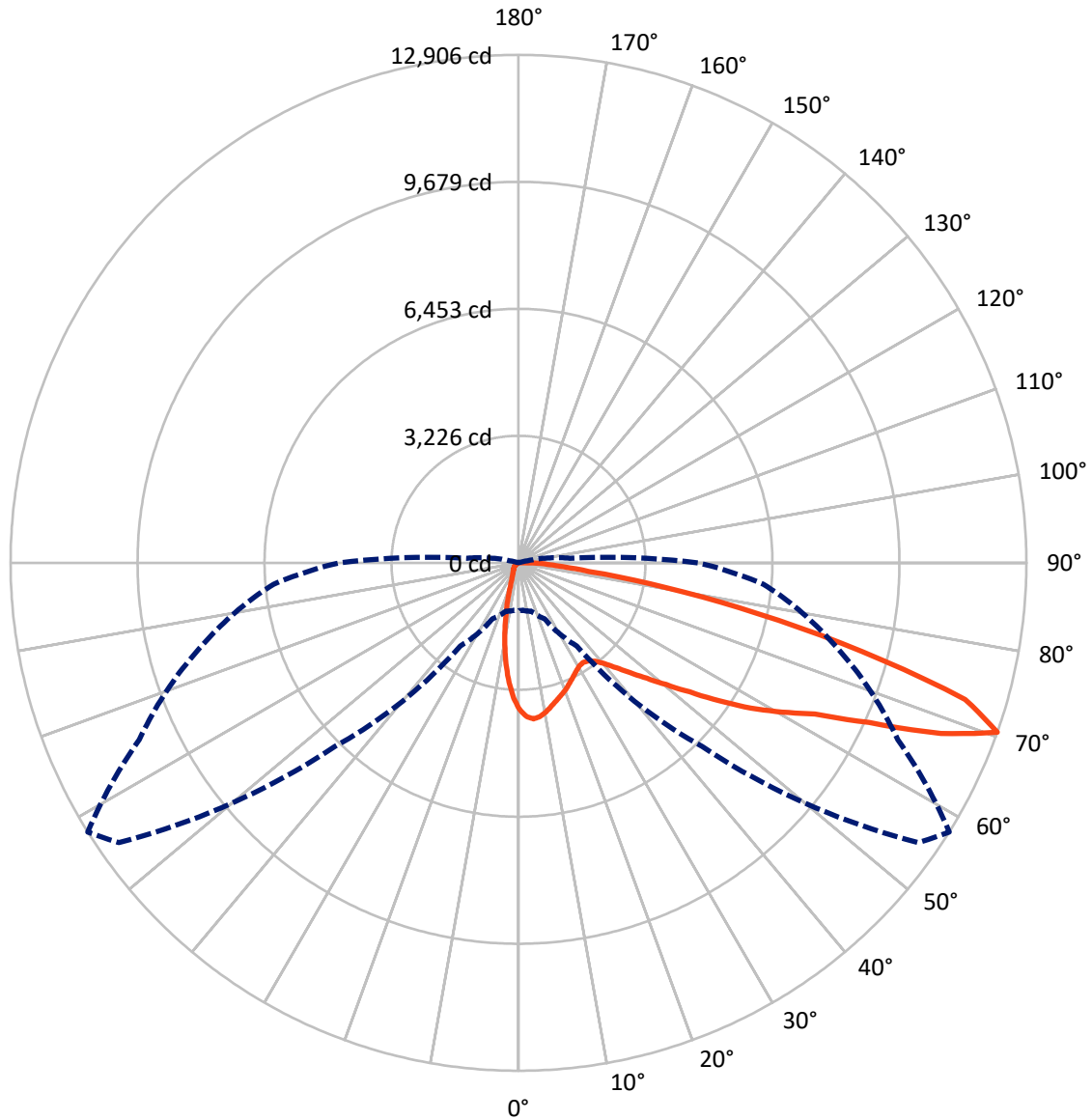
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1081.2	0.0	1081.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	11553.3	0.0	11553.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	12634.6	0.0	12634.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	2.4
10°-20°	640.5	5.1
20°-30°	842.1	6.7
30°-40°	1115.3	8.8
40°-50°	1667.0	13.2
50°-60°	2670.4	21.1
60°-70°	3366.0	26.6
70°-80°	1815.6	14.4
80°-90°	212.5	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°	12634.6	100.0
0°-180°	12634.6	100.0

Coefficient of Utilization

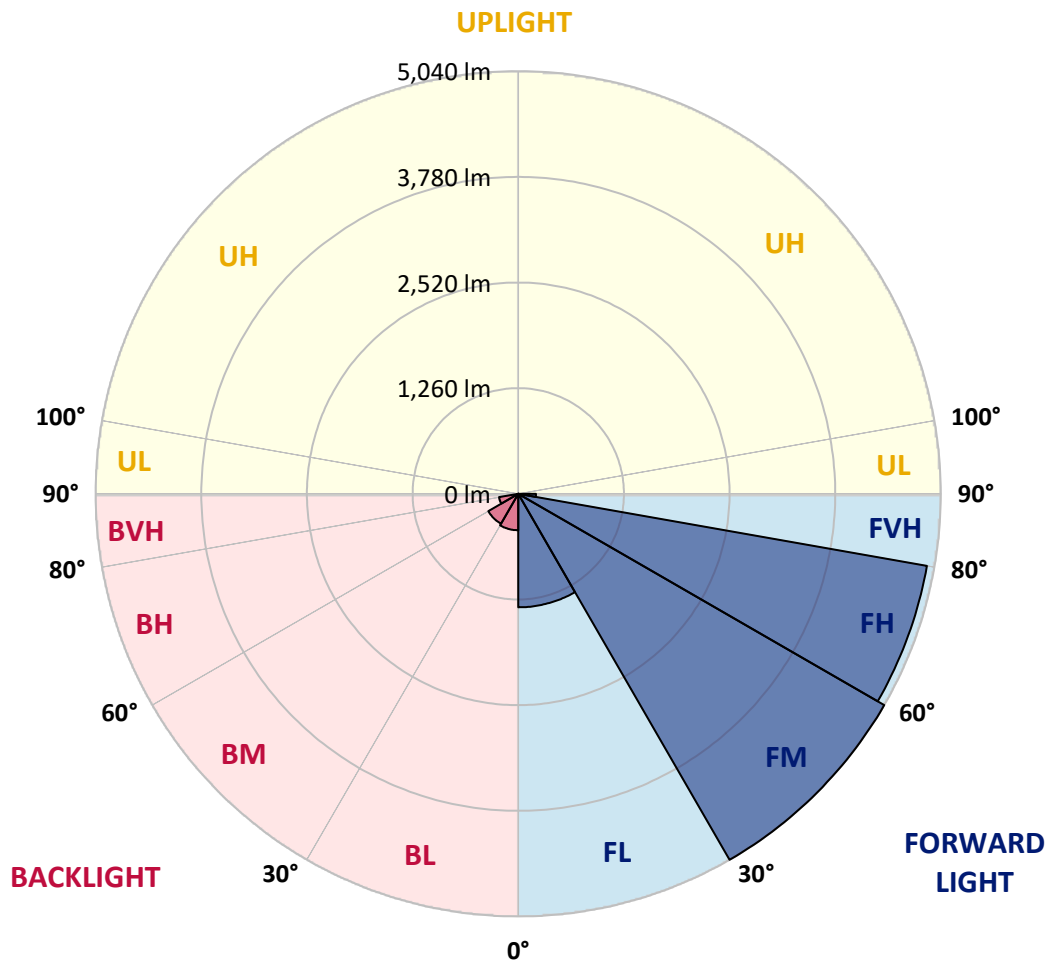


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.4	10.7			
FM (30°-60°)	5040.1	39.9			
FH (60°-80°)	4949.1	39.2			G2/5000
FVH (80°-90°)	210.7	1.7			G2/225
BL (0°-30°)	434.4	3.4	B1/500		
BM (30°-60°)	412.5	3.3	B1/1000		
BH (60°-80°)	232.5	1.8	B1/500		G1/500
BVH (80°-90°)	1.8	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°	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2
2.5°	4041.6	4031.6	4028.0	4021.7	3997.6	3973.9	3927.1	3914.0	3884.6	3814.7	3740.6
5°	4044.8	4044.2	4055.3	4052.7	4044.2	4033.2	3999.6	3982.3	3932.3	3832.6	3697.0
7.5°	3849.9	3859.9	3884.6	3904.5	3927.6	3957.6	3961.8	3945.0	3904.0	3796.3	3616.6
10°	3588.2	3604.0	3638.7	3678.1	3738.5	3798.4	3851.9	3849.9	3835.6	3729.5	3519.9
12.5°	3326.1	3344.4	3384.4	3442.7	3528.3	3626.0	3721.7	3734.9	3758.4	3669.6	3430.6
15°	3096.5	3112.3	3151.7	3223.2	3329.3	3460.6	3600.9	3625.0	3685.9	3622.9	3356.0
17.5°	2901.6	2911.6	2940.4	3019.8	3142.8	3302.0	3484.3	3531.5	3622.4	3586.2	3291.4
20°	2765.5	2767.1	2786.0	2841.7	2964.7	3142.8	3363.4	3431.2	3555.2	3554.6	3224.7
22.5°	2698.3	2693.0	2696.7	2728.8	2819.1	2990.9	3242.5	3322.9	3494.7	3527.9	3156.9
25°	2685.7	2681.5	2670.9	2675.1	2729.8	2858.0	3120.7	3213.7	3441.7	3511.6	3098.0
27.5°	2725.1	2729.2	2711.5	2692.5	2696.7	2771.8	3012.4	3120.1	3398.6	3511.6	3056.6
30°	2804.4	2806.5	2793.3	2768.7	2735.6	2747.7	2937.4	3045.0	3377.0	3535.7	3030.3
32.5°	2892.2	2903.7	2902.1	2882.1	2834.9	2786.0	2919.5	3017.7	3375.5	3589.3	3027.7
35°	3000.9	3014.0	3036.1	3031.9	2982.5	2902.1	2980.4	3057.6	3406.5	3677.6	3056.0
37.5°	3116.5	3136.4	3183.8	3206.3	3174.2	3083.3	3117.0	3172.2	3489.5	3820.5	3128.0
40°	3228.4	3250.9	3337.1	3426.0	3401.7	3308.2	3323.9	3368.1	3637.1	4025.9	3264.6
42.5°	3338.2	3371.8	3498.4	3644.5	3673.4	3598.8	3607.1	3642.4	3856.1	4308.5	3487.9
45°	3469.5	3507.4	3694.9	3875.1	3952.3	3919.8	3955.4	3978.5	4142.5	4682.1	3789.0
47.5°	3662.3	3705.9	3936.1	4141.5	4277.0	4298.0	4370.0	4385.3	4504.5	5117.1	4181.3
50°	4038.4	4050.6	4258.6	4445.2	4640.6	4766.6	4848.6	4860.2	4942.6	5592.5	4671.5
52.5°	4511.9	4519.7	4637.4	4762.4	4984.7	5242.1	5433.8	5450.1	5467.4	6055.9	5155.4
55°	4982.0	4981.0	5058.8	5132.3	5386.6	5760.6	6176.7	6186.7	6062.2	6495.6	5525.3
57.5°	5275.7	5304.0	5422.3	5516.9	5872.0	6351.7	6929.0	6965.8	6686.8	6821.4	5890.9
60°	5182.2	5195.9	5458.0	5807.9	6476.7	7191.7	7690.3	7699.8	7156.5	7146.6	6353.2
62.5°	4415.2	4422.5	4834.5	5555.7	6783.0	8281.4	8608.6	8454.7	7696.6	7597.8	6906.5
65°	3026.1	3073.9	3418.0	4309.5	6220.3	8964.8	10030.3	9775.5	8519.8	8248.2	7406.6
67.5°	1782.1	1772.1	1942.3	2599.0	4568.6	8510.9	11828.6	11575.4	9642.5	8683.8	7260.0
70°	1217.3	1210.5	1275.6	1573.5	2579.0	6602.3	12394.4	12905.6	10633.9	8390.6	6248.2
72.5°	868.9	872.7	968.8	1222.6	1619.2	3846.7	10658.6	11868.6	10323.4	7314.7	4749.3
75°	589.9	600.0	737.6	1002.9	1419.5	1957.0	7563.7	9022.1	8406.4	5316.2	2729.8
77.5°	317.3	328.4	490.6	808.0	1283.5	1359.7	4865.4	6209.3	5280.5	2389.9	791.2
80°	132.4	138.7	229.6	587.3	1109.0	1194.2	2862.7	3765.3	2250.2	471.3	176.5
82.5°	57.3	60.5	95.6	350.4	829.0	1008.2	1515.7	1811.5	681.9	103.5	88.8
85°	11.0	11.6	39.4	185.5	529.0	569.0	982.4	963.0	306.3	44.6	64.6
87.5°	0.0	0.0	9.5	58.3	155.5	309.9	599.5	592.1	104.1	21.5	24.1
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°	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2
2.5°	3702.8	3666.5	3590.4	3496.3	3424.4	3345.0	3281.9	3202.1	3167.4	3169.0	3150.1
5°	3619.8	3545.2	3376.5	3163.7	2999.9	2830.7	2685.2	2540.1	2454.5	2426.7	2400.4
7.5°	3501.0	3382.8	3113.9	2786.0	2508.7	2237.6	2001.6	1794.2	1662.8	1598.7	1575.1
10°	3367.1	3201.1	2811.8	2379.9	1983.8	1617.1	1311.3	1045.5	939.4	867.4	849.0
12.5°	3249.4	3024.5	2516.5	1963.3	1493.1	1050.7	759.1	593.7	521.7	493.3	488.6
15°	3138.6	2859.6	2232.3	1586.1	1033.9	646.7	482.8	426.6	409.8	405.0	405.0
17.5°	3034.0	2702.5	1954.4	1214.6	684.0	453.4	399.8	387.2	381.9	381.4	381.9
20°	2924.7	2545.4	1681.2	890.0	477.5	384.1	369.4	362.5	360.9	360.9	360.9
22.5°	2820.2	2388.3	1415.3	635.7	383.0	350.4	343.1	338.3	336.8	336.2	335.2
25°	2719.8	2239.1	1155.8	449.2	336.2	321.0	314.7	308.4	303.7	301.1	299.5
27.5°	2637.3	2106.2	914.1	360.4	303.7	290.5	282.6	273.2	261.7	256.4	254.3
30°	2571.6	1984.8	704.5	304.2	273.2	260.1	248.0	231.7	214.9	206.0	205.4
32.5°	2520.2	1865.6	534.8	269.0	245.8	229.6	212.2	191.7	172.3	162.4	161.8
35°	2495.0	1760.5	408.8	243.2	221.7	201.2	179.7	157.1	138.1	128.7	127.6
37.5°	2511.7	1671.8	318.9	221.7	201.2	177.6	152.4	128.7	111.9	103.5	102.9
40°	2573.2	1614.9	259.0	203.4	183.9	155.0	127.6	105.6	91.4	84.6	84.0
42.5°	2704.1	1594.0	221.1	188.1	167.0	134.0	106.1	87.2	74.1	69.3	68.3
45°	2922.6	1625.0	195.4	173.4	149.7	114.0	87.8	71.4	59.9	56.2	55.7
47.5°	3213.7	1706.4	177.1	159.2	134.0	96.1	73.0	57.8	48.8	45.2	44.6
50°	3588.8	1835.6	161.8	145.0	119.2	81.4	60.5	45.7	37.8	35.2	35.2
52.5°	3997.0	1989.6	148.1	131.9	104.5	67.8	48.8	35.2	29.9	26.8	26.8
55°	4334.3	2124.0	133.4	121.8	86.7	56.2	37.3	26.8	22.1	20.5	20.5
57.5°	4671.1	2267.5	116.6	104.5	69.3	45.7	28.4	19.9	16.3	15.3	15.3
60°	5107.6	2443.0	100.3	85.1	54.7	34.7	21.1	14.2	12.1	11.6	11.6
62.5°	5587.8	2545.9	85.6	68.3	42.6	25.7	15.3	9.5	8.9	8.9	8.4
65°	5881.4	2400.4	72.0	54.7	33.1	19.5	10.0	6.8	7.9	7.4	6.3
67.5°	5506.8	1879.2	58.9	42.6	25.7	14.7	6.3	4.8	8.4	6.8	5.2
70°	4559.6	1315.5	45.7	29.9	20.5	12.6	4.2	3.2	8.9	6.8	4.2
72.5°	3412.3	880.5	36.2	19.9	15.3	11.0	3.6	1.6	7.9	5.8	3.6
75°	1864.5	354.6	28.9	12.6	9.5	7.9	2.6	1.0	5.2	4.2	2.6
77.5°	490.6	93.5	21.1	8.4	5.2	3.2	1.6	0.6	2.6	2.1	1.0
80°	125.0	36.2	13.7	5.8	3.6	1.6	0.0	0.0	0.6	0.0	0.0
82.5°	66.7	15.3	8.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.4	10.0	4.8	2.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	3.2	1.6	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)