

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: P382942

Luminaire Tested: **GLEON-SA3A-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382942
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-SA3A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 11323 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

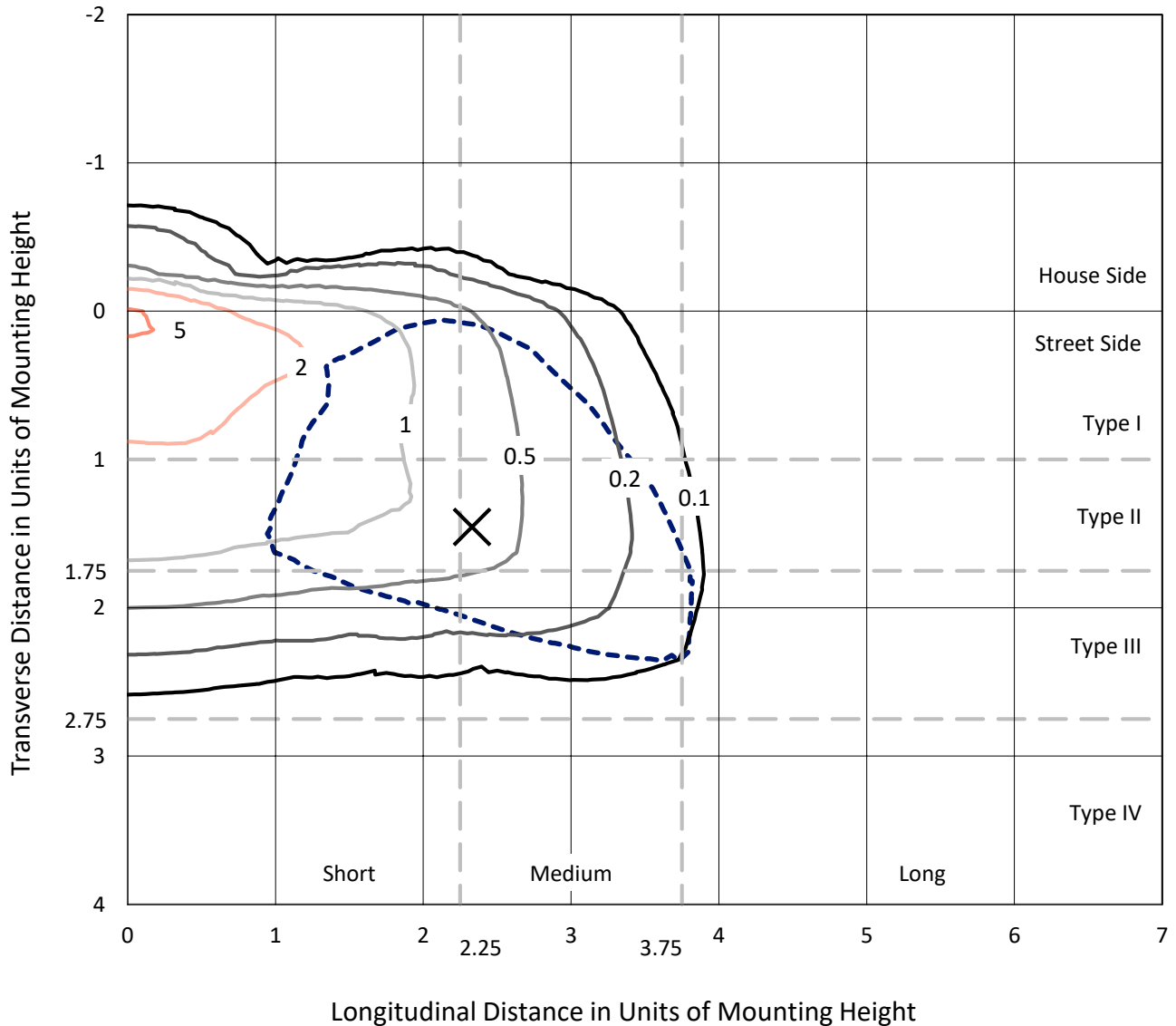
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

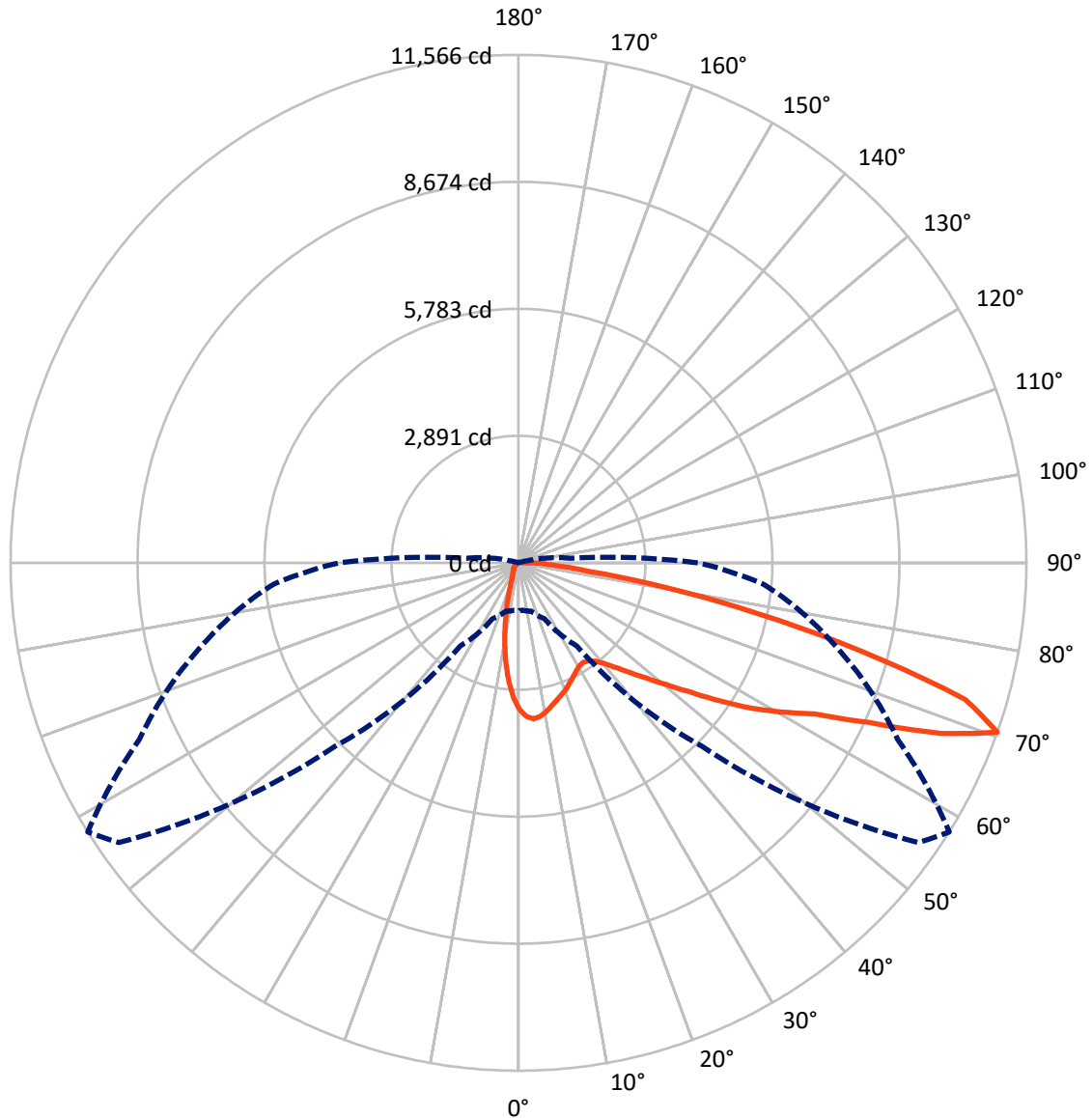
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	969.0	0.0	969.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	10354.0	0.0	10354.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	11323.0	0.0	11323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	2.4
10°-20°	574.0	5.1
20°-30°	754.7	6.7
30°-40°	999.5	8.8
40°-50°	1493.9	13.2
50°-60°	2393.2	21.1
60°-70°	3016.6	26.6
70°-80°	1627.1	14.4
80°-90°	190.5	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°	11323.0	100.0
0°-180°	11323.0	100.0

Coefficient of Utilization

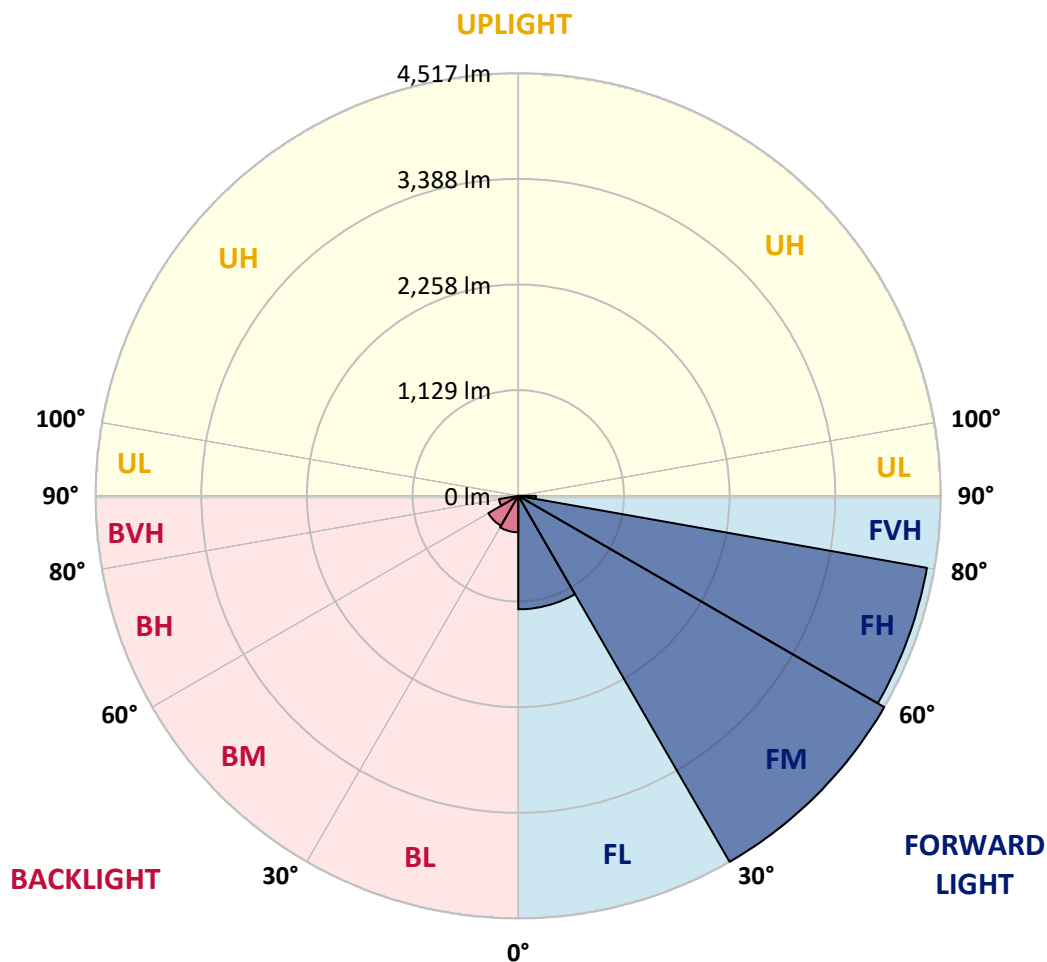


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.9	10.7			
FM (30°-60°)	4516.9	39.9			
FH (60°-80°)	4435.3	39.2			G2/5000
FVH (80°-90°)	188.8	1.7			G2/225
BL (0°-30°)	389.3	3.4	B1/500		
BM (30°-60°)	369.7	3.3	B1/1000		
BH (60°-80°)	208.4	1.8	B1/500		G1/500
BVH (80°-90°)	1.6	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°	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7
2.5°	3622.0	3613.1	3609.8	3604.2	3582.5	3561.3	3519.4	3507.6	3481.3	3418.7	3352.3
5°	3624.9	3624.5	3634.3	3631.9	3624.5	3614.5	3584.4	3568.9	3524.1	3434.7	3313.2
7.5°	3450.2	3459.1	3481.3	3499.2	3519.9	3546.8	3550.5	3535.4	3498.7	3402.2	3241.1
10°	3215.7	3229.9	3261.0	3296.3	3350.4	3404.1	3452.1	3450.2	3437.5	3342.4	3154.5
12.5°	2980.8	2997.3	3033.0	3085.3	3162.0	3249.6	3335.3	3347.1	3368.3	3288.7	3074.5
15°	2775.1	2789.1	2824.5	2888.5	2983.7	3101.3	3227.1	3248.7	3303.4	3246.8	3007.6
17.5°	2600.4	2609.4	2635.3	2706.3	2816.4	2959.2	3122.5	3164.9	3246.4	3213.8	2949.7
20°	2478.4	2479.9	2496.8	2546.7	2656.9	2816.4	3014.2	3074.9	3186.1	3185.6	2889.9
22.5°	2418.2	2413.5	2416.7	2445.5	2526.5	2680.4	2906.0	2978.0	3132.0	3161.6	2829.2
25°	2406.8	2403.1	2393.7	2397.4	2446.4	2561.3	2796.7	2880.1	3084.4	3147.0	2776.5
27.5°	2442.1	2446.0	2429.9	2413.0	2416.7	2484.1	2699.7	2796.2	3045.8	3147.0	2739.3
30°	2513.3	2515.2	2503.3	2481.3	2451.6	2462.5	2632.4	2728.9	3026.5	3168.7	2715.7
32.5°	2591.9	2602.3	2600.9	2583.0	2540.6	2496.8	2616.3	2704.5	3025.0	3216.7	2713.4
35°	2689.4	2701.1	2720.9	2717.1	2672.9	2600.9	2671.0	2740.2	3052.9	3295.8	2738.7
37.5°	2793.0	2810.9	2853.2	2873.5	2844.8	2763.2	2793.4	2842.8	3127.2	3423.8	2803.3
40°	2893.2	2913.5	2990.7	3070.3	3048.6	2964.8	2978.9	3018.5	3259.5	3608.0	2925.7
42.5°	2991.7	3021.8	3135.2	3266.1	3292.0	3225.2	3232.7	3264.2	3455.9	3861.3	3125.8
45°	3109.3	3143.2	3311.3	3472.8	3542.0	3512.9	3544.8	3565.6	3712.5	4196.0	3395.6
47.5°	3282.1	3321.2	3527.4	3711.6	3833.0	3851.9	3916.3	3930.0	4036.9	4585.8	3747.3
50°	3619.2	3630.1	3816.6	3983.7	4158.8	4271.8	4345.3	4355.6	4429.5	5011.9	4186.6
52.5°	4043.5	4050.6	4156.0	4268.1	4467.2	4697.9	4869.8	4884.4	4899.8	5427.2	4620.2
55°	4464.8	4463.9	4533.6	4599.5	4827.4	5162.6	5535.5	5544.5	5432.9	5821.3	4951.6
57.5°	4728.1	4753.5	4859.4	4944.2	5262.4	5692.3	6209.7	6242.7	5992.6	6113.2	5279.4
60°	4644.2	4656.4	4891.4	5205.0	5804.4	6445.1	6892.0	6900.4	6413.6	6404.7	5693.7
62.5°	3956.8	3963.5	4332.5	4979.0	6078.8	7421.6	7715.0	7577.0	6897.6	6809.1	6189.5
65°	2711.9	2754.8	3063.2	3862.2	5574.6	8034.1	8989.0	8760.6	7635.4	7392.0	6637.7
67.5°	1597.0	1588.1	1740.7	2329.1	4094.3	7627.4	10600.6	10373.7	8641.5	7782.2	6506.3
70°	1090.9	1084.8	1143.2	1410.1	2311.3	5916.9	11107.8	11565.8	9530.0	7519.5	5599.5
72.5°	778.8	782.0	868.2	1095.6	1451.1	3447.4	9552.1	10636.4	9251.8	6555.3	4256.2
75°	528.7	537.7	661.0	898.9	1272.2	1753.8	6778.5	8085.5	7533.7	4764.3	2446.4
77.5°	284.4	294.3	439.8	724.1	1150.2	1218.5	4360.3	5564.7	4732.3	2141.8	709.1
80°	118.7	124.3	205.8	526.4	993.9	1070.2	2565.6	3374.4	2016.5	422.4	158.2
82.5°	51.3	54.1	85.7	314.0	743.0	903.5	1358.3	1623.4	611.1	92.8	79.6
85°	9.9	10.3	35.3	166.2	474.2	509.9	880.4	863.0	274.5	40.1	57.9
87.5°	0.0	0.0	8.5	52.3	139.4	277.8	537.2	530.6	93.2	19.3	21.6
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°	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7	3344.7
2.5°	3318.4	3285.9	3217.7	3133.4	3068.9	2997.7	2941.3	2869.7	2838.6	2840.0	2823.1
5°	3244.0	3177.1	3026.0	2835.4	2688.4	2536.8	2406.4	2276.4	2199.7	2174.8	2151.2
7.5°	3137.5	3031.6	2790.5	2496.8	2248.2	2005.2	1793.9	1607.9	1490.2	1432.7	1411.6
10°	3017.6	2868.7	2519.8	2132.9	1777.9	1449.2	1175.1	937.0	841.8	777.4	760.9
12.5°	2912.0	2710.5	2255.3	1759.5	1338.1	941.6	680.3	532.0	467.5	442.1	437.8
15°	2812.7	2562.7	2000.5	1421.4	926.6	579.6	432.7	382.3	367.2	363.0	363.0
17.5°	2719.0	2421.9	1751.5	1088.5	613.1	406.3	358.3	347.0	342.3	341.8	342.3
20°	2621.1	2281.2	1506.7	797.6	428.0	344.2	331.0	324.8	323.4	323.4	323.4
22.5°	2527.4	2140.4	1268.4	569.7	343.3	314.0	307.4	303.2	301.8	301.4	300.4
25°	2437.5	2006.6	1035.8	402.5	301.4	287.7	282.0	276.4	272.1	269.8	268.4
27.5°	2363.5	1887.5	819.2	323.0	272.1	260.4	253.3	244.8	234.5	229.7	227.9
30°	2304.6	1778.8	631.4	272.6	244.8	233.1	222.3	207.6	192.6	184.5	184.1
32.5°	2258.5	1671.9	479.3	241.1	220.3	205.8	190.2	171.9	154.5	145.5	145.0
35°	2236.0	1577.8	366.3	218.0	198.7	180.3	161.1	140.8	123.8	115.3	114.4
37.5°	2251.0	1498.2	285.8	198.7	180.3	159.1	136.6	115.3	100.3	92.8	92.3
40°	2306.1	1447.3	232.1	182.2	164.8	138.9	114.4	94.6	81.9	75.8	75.4
42.5°	2423.3	1428.5	198.2	168.5	149.7	120.1	95.1	78.2	66.4	62.1	61.2
45°	2619.2	1456.3	175.1	155.4	134.1	102.2	78.6	64.0	53.7	50.4	49.9
47.5°	2880.1	1529.2	158.6	142.6	120.1	86.2	65.5	51.8	43.8	40.5	40.1
50°	3216.2	1645.1	145.0	130.0	106.8	72.9	54.1	41.0	33.9	31.6	31.6
52.5°	3582.1	1783.0	132.7	118.2	93.7	60.7	43.8	31.6	26.8	24.0	24.0
55°	3884.3	1903.5	119.6	109.3	77.7	50.4	33.4	24.0	19.7	18.4	18.4
57.5°	4186.1	2032.1	104.5	93.7	62.1	41.0	25.4	17.9	14.6	13.7	13.7
60°	4577.3	2189.3	89.9	76.3	49.0	31.1	18.8	12.7	10.8	10.3	10.3
62.5°	5007.7	2281.6	76.8	61.2	38.1	23.1	13.7	8.5	8.0	8.0	7.5
65°	5270.9	2151.2	64.5	49.0	29.6	17.4	8.9	6.1	7.1	6.6	5.7
67.5°	4935.2	1684.1	52.7	38.1	23.1	13.2	5.7	4.2	7.5	6.1	4.8
70°	4086.3	1179.0	41.0	26.8	18.4	11.3	3.7	2.8	8.0	6.1	3.7
72.5°	3058.0	789.1	32.5	17.9	13.7	9.9	3.3	1.4	7.1	5.2	3.3
75°	1670.9	317.8	25.9	11.3	8.5	7.1	2.3	0.9	4.8	3.7	2.3
77.5°	439.8	83.8	18.8	7.5	4.8	2.8	1.4	0.5	2.3	1.9	0.9
80°	112.1	32.5	12.2	5.2	3.3	1.4	0.0	0.0	0.5	0.0	0.0
82.5°	59.8	13.7	7.5	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.2	8.9	4.2	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.4	2.8	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)