

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: P323628

Luminaire Tested: **GLEON-SA4A-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323628
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-SA4A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 11806 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

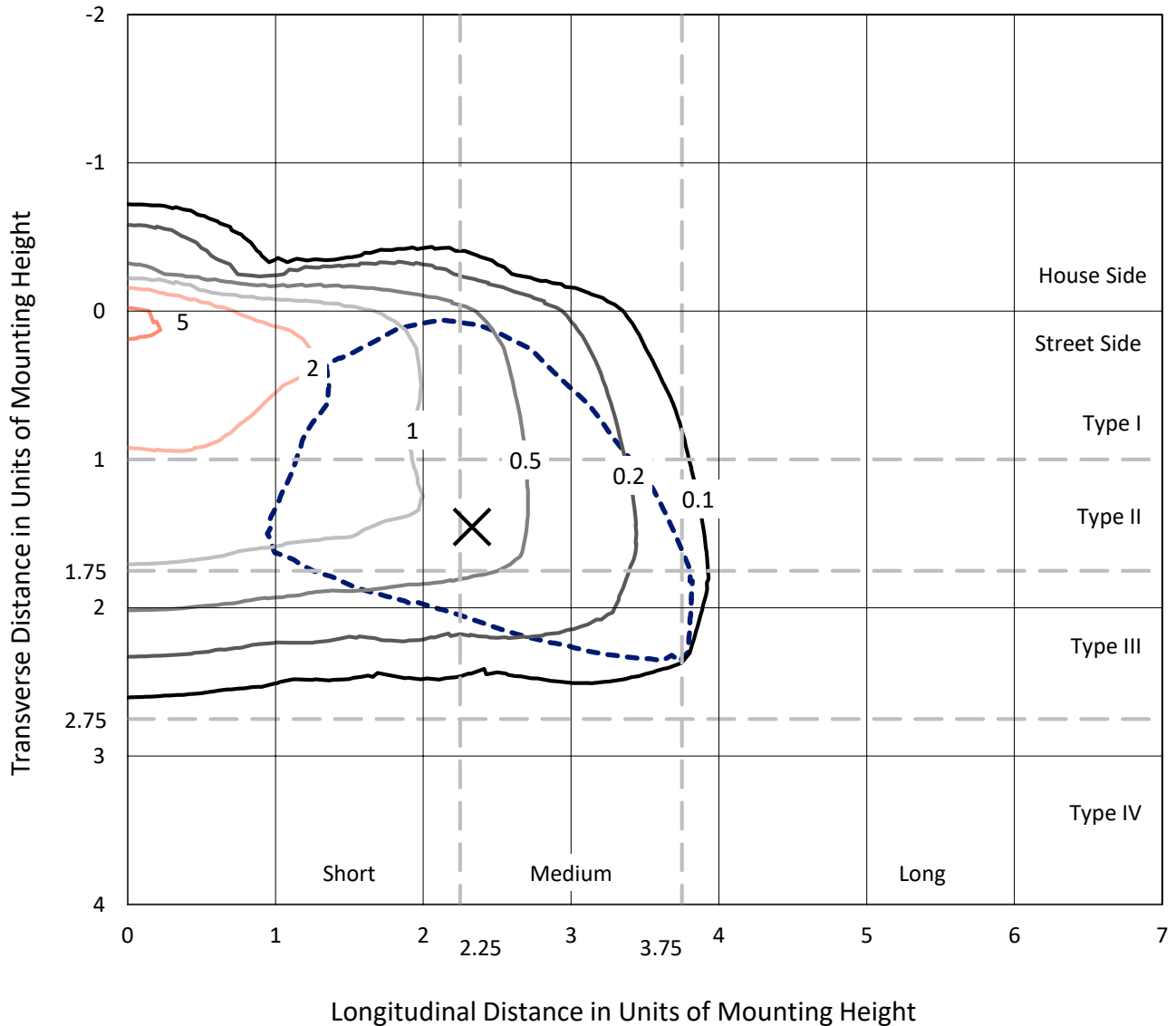
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

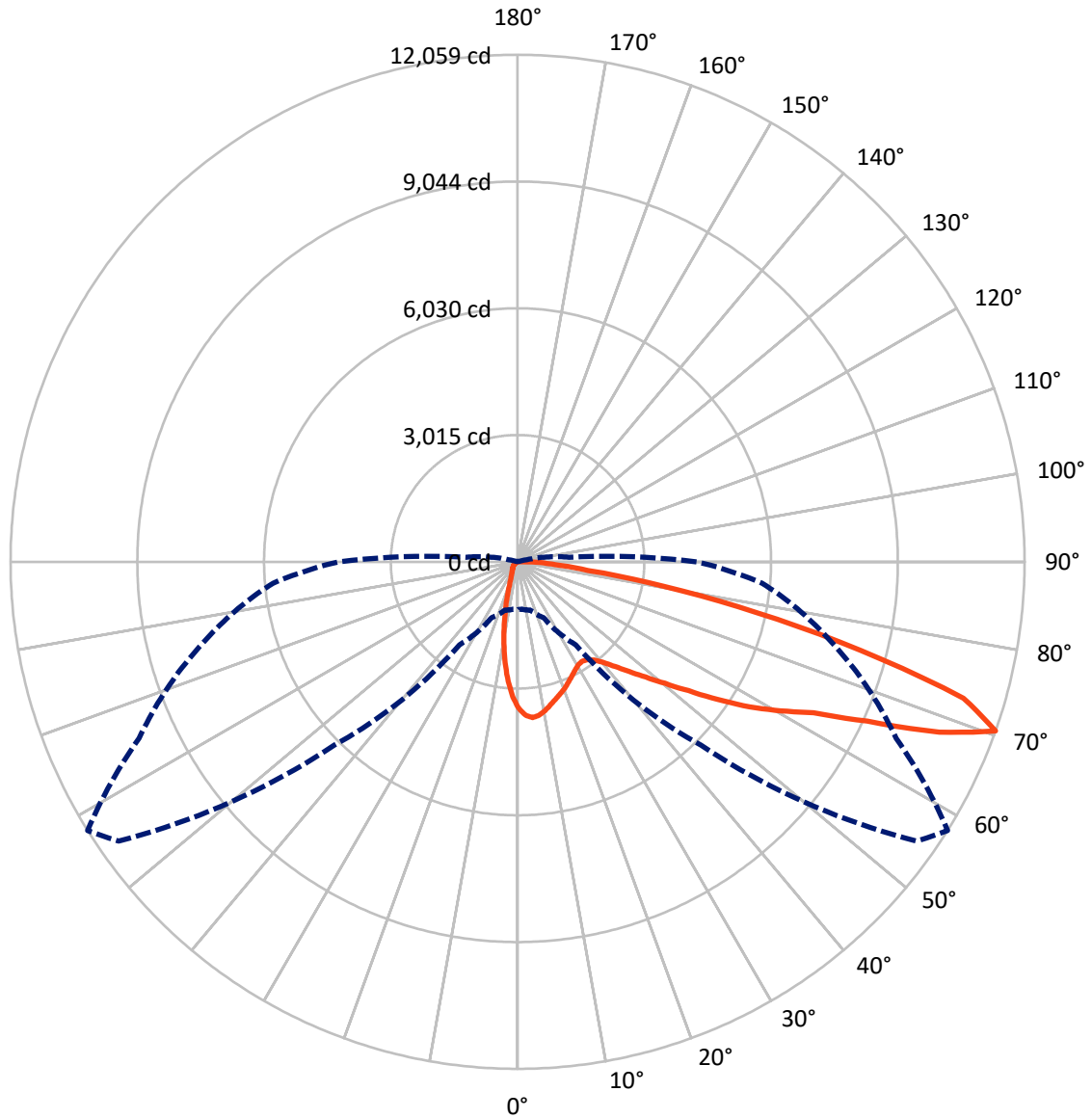
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	1010.3	0.0	1010.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	10795.7	0.0	10795.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	11806.0	0.0	11806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	2.4
10°-20°	598.5	5.1
20°-30°	786.9	6.7
30°-40°	1042.1	8.8
40°-50°	1557.6	13.2
50°-60°	2495.3	21.1
60°-70°	3145.3	26.6
70°-80°	1696.5	14.4
80°-90°	198.6	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°	11806.0	100.0
0°-180°	11806.0	100.0

Coefficient of Utilization

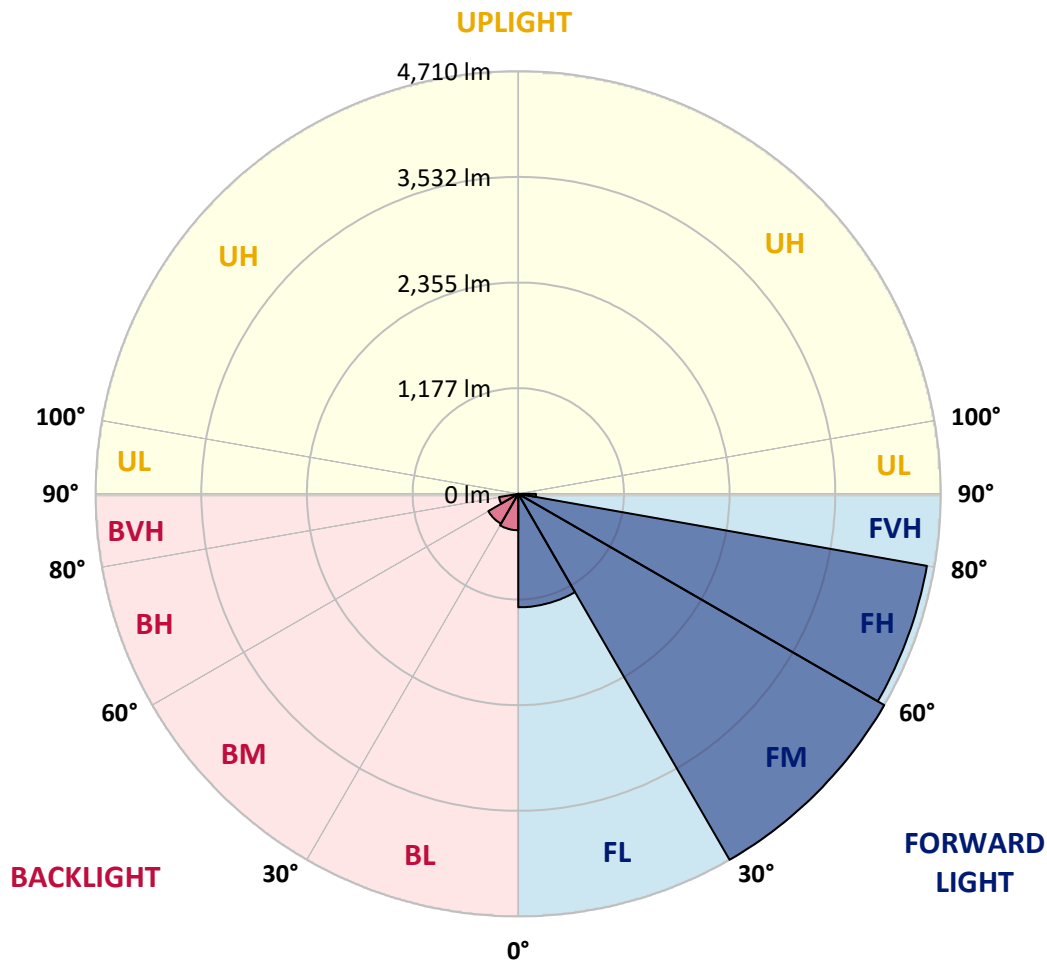


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.7	10.7			
FM (30°-60°)	4709.6	39.9			
FH (60°-80°)	4624.5	39.2			G2/5000
FVH (80°-90°)	196.9	1.7			G2/225
BL (0°-30°)	405.9	3.4	B1/500		
BM (30°-60°)	385.4	3.3	B1/1000		
BH (60°-80°)	217.3	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°	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4
2.5°	3776.6	3767.3	3763.8	3757.9	3735.3	3713.3	3669.6	3657.3	3629.8	3564.5	3495.3
5°	3779.5	3779.0	3789.3	3786.9	3779.0	3768.7	3737.3	3721.1	3674.5	3581.2	3454.5
7.5°	3597.4	3606.7	3629.8	3648.5	3670.1	3698.0	3702.0	3686.3	3648.0	3547.3	3379.4
10°	3352.9	3367.7	3400.1	3436.9	3493.3	3549.3	3599.4	3597.4	3584.1	3485.0	3289.1
12.5°	3108.0	3125.1	3162.5	3216.9	3297.0	3388.3	3477.6	3489.9	3512.0	3429.0	3205.7
15°	2893.4	2908.2	2945.0	3011.7	3110.9	3233.6	3364.7	3387.3	3444.2	3385.3	3135.9
17.5°	2711.3	2720.6	2747.6	2821.8	2936.6	3085.4	3255.7	3299.9	3384.8	3351.0	3075.6
20°	2584.2	2585.6	2603.3	2655.3	2770.2	2936.6	3142.8	3206.1	3322.0	3321.5	3013.2
22.5°	2521.3	2516.4	2519.8	2549.8	2634.2	2794.8	3029.9	3105.0	3265.5	3296.5	2949.9
25°	2509.5	2505.6	2495.8	2499.7	2550.8	2670.6	2916.0	3002.9	3216.0	3281.3	2894.9
27.5°	2546.4	2550.3	2533.6	2515.9	2519.8	2590.0	2814.9	2915.5	3175.7	3281.3	2856.1
30°	2620.5	2622.5	2610.2	2587.1	2556.2	2567.5	2744.7	2845.3	3155.6	3303.8	2831.6
32.5°	2702.5	2713.3	2711.8	2693.1	2649.0	2603.3	2728.0	2819.8	3154.1	3353.9	2829.1
35°	2804.1	2816.4	2837.0	2833.1	2786.9	2711.8	2784.9	2857.1	3183.1	3436.4	2855.6
37.5°	2912.1	2930.7	2974.9	2996.0	2966.1	2881.2	2912.6	2964.1	3260.6	3569.9	2922.9
40°	3016.7	3037.8	3118.3	3201.2	3178.7	3091.3	3106.0	3147.2	3398.6	3761.9	3050.5
42.5°	3119.3	3150.7	3269.0	3405.5	3432.5	3362.7	3370.6	3403.5	3603.3	4026.0	3259.2
45°	3242.0	3277.3	3452.6	3621.0	3693.1	3662.7	3696.1	3717.7	3870.8	4375.0	3540.5
47.5°	3422.1	3462.9	3677.9	3869.9	3996.5	4016.1	4083.4	4097.6	4209.1	4781.5	3907.2
50°	3773.6	3784.9	3979.3	4153.6	4336.2	4454.0	4530.6	4541.4	4618.5	5225.8	4365.2
52.5°	4215.9	4223.3	4333.3	4450.1	4657.8	4898.3	5077.5	5092.7	5108.9	5658.7	4817.3
55°	4655.3	4654.3	4727.0	4795.7	5033.3	5382.8	5771.6	5781.0	5664.6	6069.6	5162.9
57.5°	4929.7	4956.2	5066.7	5155.1	5486.9	5935.1	6474.6	6509.0	6248.3	6374.0	5504.6
60°	4842.4	4855.1	5100.1	5427.0	6052.0	6720.1	7186.0	7194.8	6687.2	6677.9	5936.6
62.5°	4125.6	4132.5	4517.4	5191.4	6338.2	7738.2	8044.1	7900.2	7191.9	7099.6	6453.5
65°	2827.7	2872.3	3193.9	4026.9	5812.4	8376.9	9372.5	9134.4	7961.1	7707.3	6920.9
67.5°	1665.2	1655.8	1814.9	2428.5	4269.0	7952.8	11052.9	10816.3	9010.2	8114.3	6783.9
70°	1137.4	1131.1	1191.9	1470.3	2409.9	6169.3	11581.6	12059.2	9936.5	7840.4	5838.4
72.5°	812.0	815.4	905.2	1142.4	1513.0	3594.5	9959.6	11090.2	9646.4	6835.0	4437.8
75°	551.3	560.6	689.2	937.2	1326.4	1828.6	7067.7	8430.4	7855.1	4967.5	2550.8
77.5°	296.5	306.8	458.5	755.0	1199.3	1270.5	4546.3	5802.1	4934.2	2233.2	739.3
80°	123.7	129.6	214.5	548.8	1036.3	1115.8	2675.0	3518.4	2102.6	440.3	164.9
82.5°	53.5	56.5	89.3	327.4	774.7	942.1	1416.3	1692.7	637.2	96.7	83.0
85°	10.3	10.8	36.8	173.3	494.3	531.7	918.0	899.8	286.2	41.7	60.4
87.5°	0.0	0.0	8.8	54.5	145.3	289.6	560.1	553.3	97.2	20.1	22.6
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°	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4	3487.4
2.5°	3459.9	3426.1	3354.9	3267.0	3199.8	3125.6	3066.7	2992.1	2959.7	2961.2	2943.5
5°	3382.4	3312.7	3155.1	2956.3	2803.1	2645.0	2509.0	2373.6	2293.5	2267.5	2243.0
7.5°	3271.4	3161.0	2909.6	2603.3	2344.1	2090.8	1870.4	1676.5	1553.7	1493.8	1471.8
10°	3146.3	2991.1	2627.4	2223.8	1853.7	1511.0	1225.3	976.9	877.8	810.5	793.3
12.5°	3036.3	2826.2	2351.5	1834.5	1395.2	981.8	709.4	554.7	487.5	461.0	456.5
15°	2932.7	2672.0	2085.9	1482.1	966.1	604.3	451.1	398.6	382.9	378.5	378.5
17.5°	2835.0	2525.2	1826.2	1135.0	639.2	423.7	373.6	361.8	356.9	356.4	356.9
20°	2732.9	2378.5	1570.9	831.6	446.2	358.9	345.1	338.7	337.3	337.3	337.3
22.5°	2635.2	2231.7	1322.5	594.0	357.9	327.4	320.6	316.1	314.7	314.2	313.2
25°	2541.4	2092.3	1080.0	419.7	314.2	299.9	294.1	288.2	283.7	281.3	279.8
27.5°	2464.4	1968.1	854.2	336.8	283.7	271.5	264.1	255.3	244.5	239.6	237.6
30°	2403.0	1854.7	658.3	284.2	255.3	243.0	231.7	216.5	200.8	192.4	191.9
32.5°	2354.9	1743.2	499.7	251.3	229.7	214.5	198.3	179.2	161.0	151.7	151.2
35°	2331.3	1645.0	381.9	227.3	207.2	188.0	167.9	146.8	129.1	120.3	119.3
37.5°	2347.0	1562.1	298.0	207.2	188.0	165.9	142.4	120.3	104.6	96.7	96.2
40°	2404.5	1509.1	242.0	190.0	171.8	144.8	119.3	98.7	85.4	79.0	78.5
42.5°	2526.7	1489.4	206.7	175.7	156.1	125.2	99.2	81.5	69.2	64.8	63.8
45°	2730.9	1518.4	182.6	162.0	139.9	106.5	82.0	66.8	56.0	52.5	52.0
47.5°	3002.9	1594.5	165.4	148.7	125.2	89.8	68.2	54.0	45.7	42.2	41.7
50°	3353.4	1715.2	151.2	135.5	111.4	76.1	56.5	42.7	35.3	32.9	32.9
52.5°	3734.9	1859.1	138.4	123.2	97.7	63.3	45.7	32.9	28.0	25.0	25.0
55°	4050.0	1984.8	124.7	113.9	81.0	52.5	34.9	25.0	20.6	19.1	19.1
57.5°	4364.7	2118.8	109.0	97.7	64.8	42.7	26.5	18.7	15.2	14.2	14.2
60°	4772.6	2282.7	93.8	79.5	51.1	32.4	19.6	13.3	11.3	10.8	10.8
62.5°	5221.3	2379.0	80.0	63.8	39.8	24.1	14.2	8.8	8.3	8.3	7.9
65°	5495.8	2243.0	67.3	51.1	30.9	18.2	9.3	6.4	7.4	6.9	5.9
67.5°	5145.7	1756.0	55.0	39.8	24.1	13.7	5.9	4.4	7.9	6.4	4.9
70°	4260.6	1229.2	42.7	28.0	19.1	11.8	3.9	2.9	8.3	6.4	3.9
72.5°	3188.5	822.8	33.9	18.7	14.2	10.3	3.4	1.5	7.4	5.4	3.4
75°	1742.2	331.4	27.0	11.8	8.8	7.4	2.5	1.0	4.9	3.9	2.5
77.5°	458.5	87.4	19.6	7.9	4.9	2.9	1.5	0.5	2.5	2.0	1.0
80°	116.8	33.9	12.8	5.4	3.4	1.5	0.0	0.0	0.5	0.0	0.0
82.5°	62.3	14.2	7.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.1	9.3	4.4	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	2.9	1.5	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)