

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: P323637

Luminaire Tested: **GLEON-SA3B-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323637
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-SA3B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 10958 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

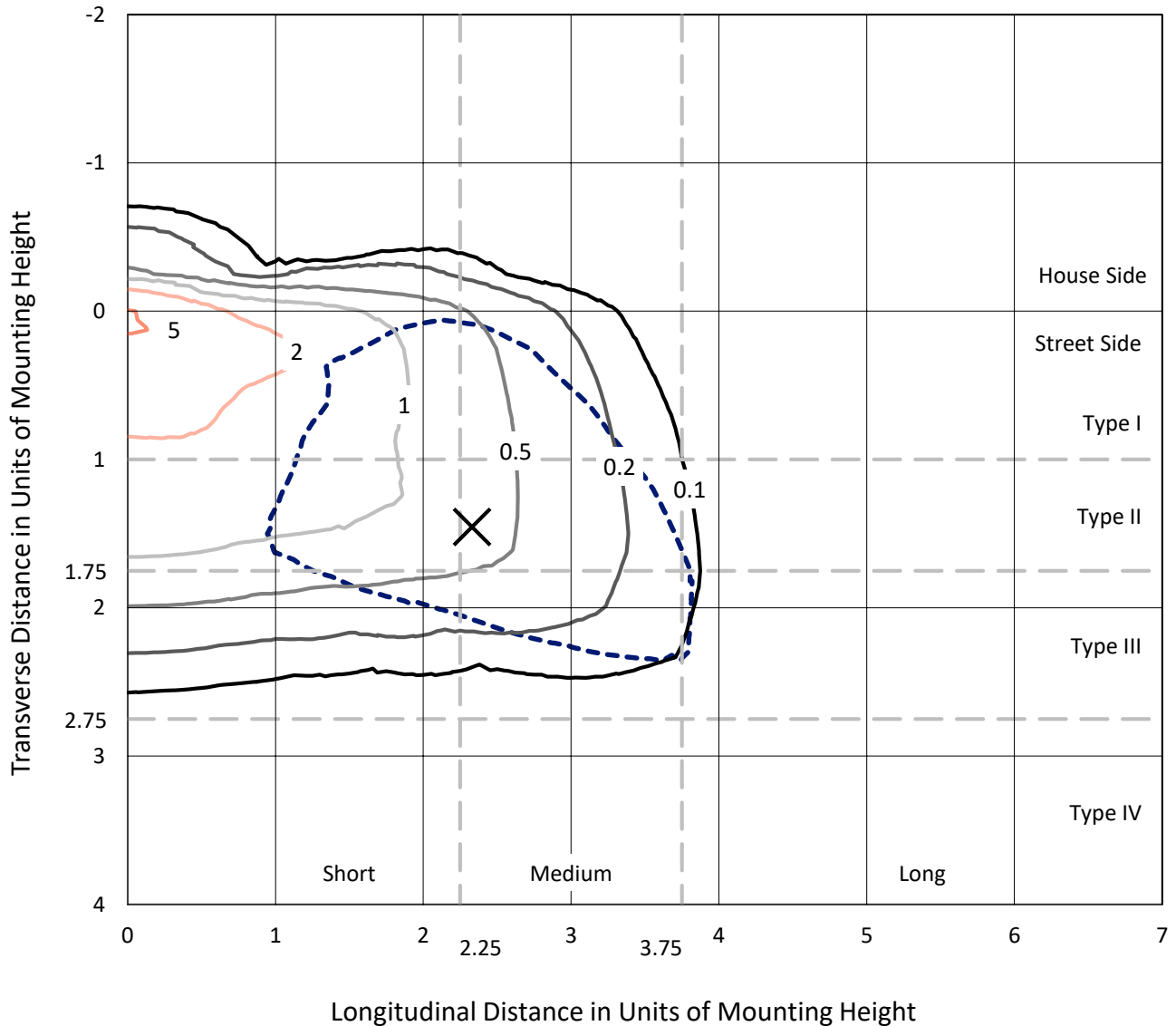
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

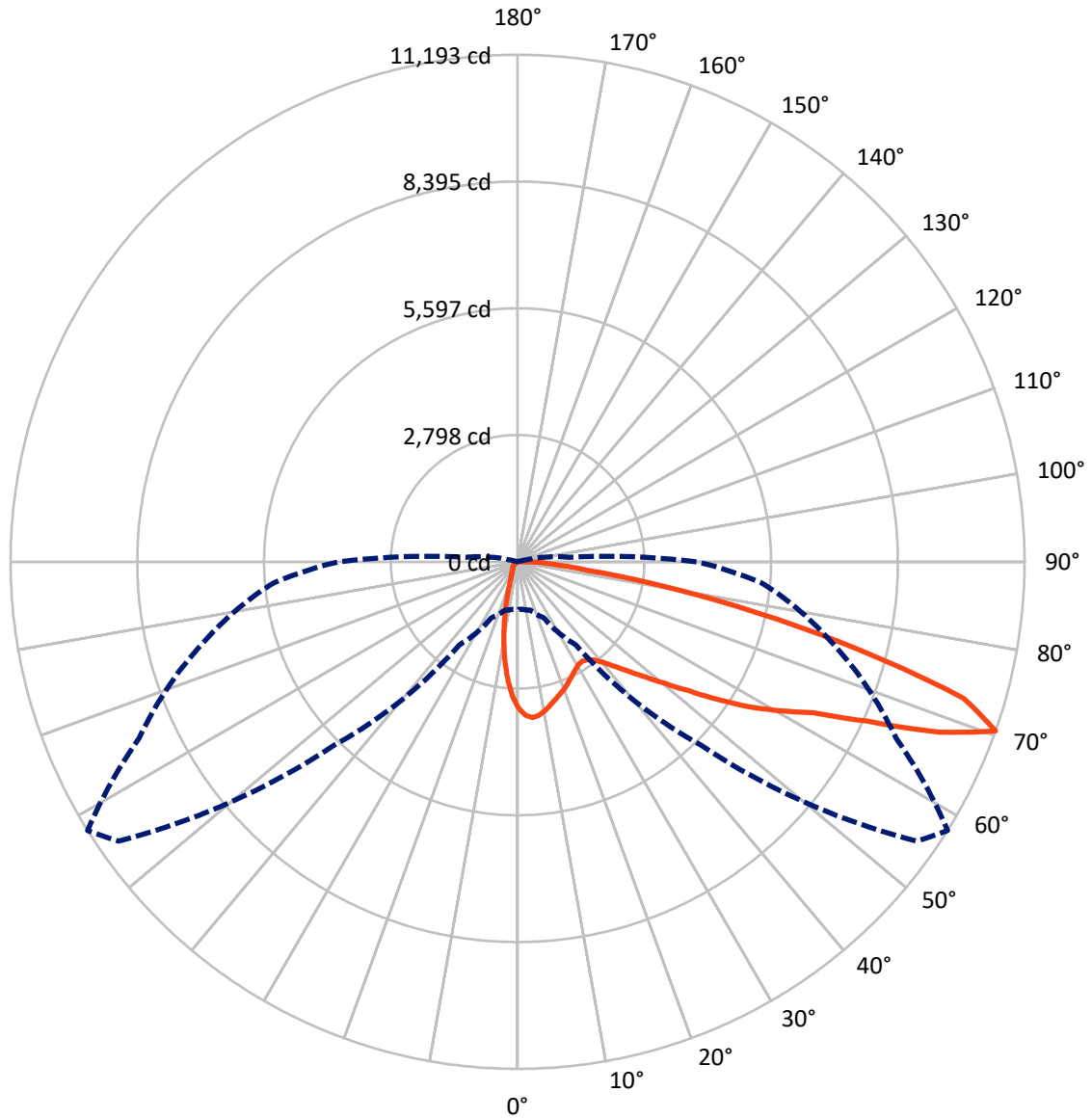
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	937.8	0.0	937.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	10020.2	0.0	10020.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	10958.0	0.0	10958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	2.4
10°-20°	555.5	5.1
20°-30°	730.3	6.7
30°-40°	967.3	8.8
40°-50°	1445.8	13.2
50°-60°	2316.0	21.1
60°-70°	2919.3	26.6
70°-80°	1574.7	14.4
80°-90°	184.3	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°	10958.0	100.0
0°-180°	10958.0	100.0

Coefficient of Utilization

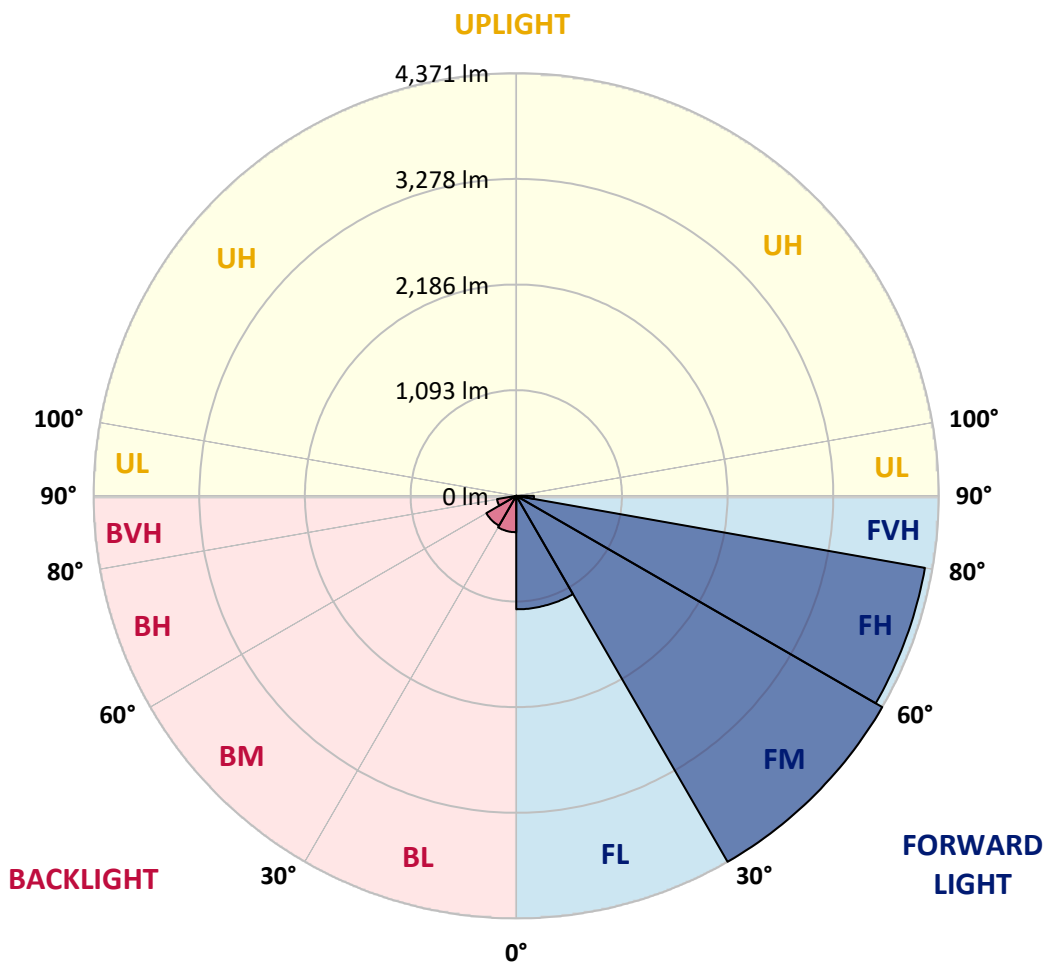


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.8	10.7			
FM (30°-60°)	4371.3	39.9			
FH (60°-80°)	4292.4	39.2			G2/5000
FVH (80°-90°)	182.7	1.7			G2/225
BL (0°-30°)	376.8	3.4	B1/500		
BM (30°-60°)	357.7	3.3	B1/1000		
BH (60°-80°)	201.7	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°	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9
2.5°	3505.3	3496.7	3493.5	3488.0	3467.0	3446.5	3406.0	3394.6	3369.1	3308.5	3244.2
5°	3508.1	3507.6	3517.2	3514.9	3507.6	3498.0	3468.9	3453.8	3410.5	3324.0	3206.4
7.5°	3339.0	3347.7	3369.1	3386.4	3406.4	3432.4	3436.1	3421.5	3385.9	3292.5	3136.7
10°	3112.1	3125.8	3155.8	3190.0	3242.4	3294.4	3340.8	3339.0	3326.7	3234.7	3052.9
12.5°	2884.7	2900.7	2935.3	2985.9	3060.1	3144.9	3227.8	3239.2	3259.7	3182.7	2975.4
15°	2685.6	2699.3	2733.4	2795.4	2887.5	3001.4	3123.0	3144.0	3196.8	3142.2	2910.7
17.5°	2516.6	2525.2	2550.3	2619.1	2725.7	2863.8	3021.9	3062.9	3141.7	3110.3	2854.7
20°	2398.5	2399.9	2416.3	2464.6	2571.2	2725.7	2917.1	2975.9	3083.4	3082.9	2796.8
22.5°	2340.2	2335.7	2338.9	2366.6	2445.0	2594.0	2812.3	2882.0	3031.0	3059.7	2738.0
25°	2329.3	2325.6	2316.5	2320.2	2367.6	2478.7	2706.6	2787.2	2985.0	3045.6	2687.0
27.5°	2363.5	2367.1	2351.6	2335.2	2338.9	2404.0	2612.7	2706.1	2947.6	3045.6	2651.0
30°	2432.3	2434.1	2422.7	2401.3	2372.6	2383.1	2547.5	2641.0	2928.9	3066.5	2628.2
32.5°	2508.4	2518.4	2517.0	2499.7	2458.7	2416.3	2532.0	2617.3	2927.6	3113.0	2625.9
35°	2602.7	2614.1	2633.2	2629.6	2586.7	2517.0	2584.9	2651.9	2954.4	3189.6	2650.5
37.5°	2702.9	2720.2	2761.2	2780.8	2753.0	2674.2	2703.4	2751.2	3026.4	3313.5	2712.9
40°	2800.0	2819.6	2894.3	2971.3	2950.3	2869.2	2882.9	2921.2	3154.5	3491.6	2831.4
42.5°	2895.2	2924.4	3034.2	3160.8	3185.9	3121.2	3128.5	3159.0	3344.5	3736.8	3025.1
45°	3009.1	3041.9	3204.6	3360.9	3427.9	3399.6	3430.6	3450.6	3592.8	4060.8	3286.2
47.5°	3176.3	3214.2	3413.7	3591.9	3709.5	3727.7	3790.1	3803.3	3906.7	4438.0	3626.5
50°	3502.6	3513.1	3693.5	3855.3	4024.8	4134.1	4205.2	4215.2	4286.8	4850.4	4051.6
52.5°	3913.1	3920.0	4022.0	4130.5	4323.2	4546.5	4712.8	4726.9	4742.0	5252.3	4471.3
55°	4320.9	4320.0	4387.5	4451.2	4671.8	4996.2	5357.1	5365.7	5257.8	5633.7	4792.1
57.5°	4575.6	4600.2	4702.8	4784.8	5092.8	5508.8	6009.6	6041.5	5799.5	5916.2	5109.2
60°	4494.5	4506.4	4733.8	5037.2	5617.3	6237.4	6669.8	6678.0	6206.9	6198.2	5510.2
62.5°	3829.3	3835.7	4192.9	4818.5	5882.9	7182.4	7466.3	7332.8	6675.3	6589.6	5990.0
65°	2624.5	2666.0	2964.5	3737.7	5394.9	7775.2	8699.3	8478.3	7389.3	7153.7	6423.8
67.5°	1545.6	1536.9	1684.5	2254.1	3962.3	7381.5	10259.0	10039.3	8363.0	7531.4	6296.6
70°	1055.7	1049.8	1106.3	1364.7	2236.8	5726.2	10749.7	11193.1	9222.8	7277.2	5419.1
72.5°	753.6	756.8	840.2	1060.3	1404.3	3336.3	9244.2	10293.6	8953.5	6344.0	4119.1
75°	511.7	520.4	639.7	869.8	1231.2	1697.3	6560.0	7824.9	7290.9	4610.7	2367.6
77.5°	275.2	284.8	425.6	700.8	1113.2	1179.2	4219.8	5385.3	4579.7	2072.8	686.2
80°	114.8	120.3	199.1	509.4	961.9	1035.7	2482.8	3265.6	1951.6	408.7	153.1
82.5°	49.7	52.4	82.9	303.9	719.0	874.4	1314.6	1571.1	591.4	89.8	77.0
85°	9.6	10.0	34.2	160.8	458.8	493.5	852.1	835.2	265.6	38.7	56.0
87.5°	0.0	0.0	8.2	50.6	134.9	268.8	519.9	513.5	90.2	18.7	21.0
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°	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9
2.5°	3211.4	3180.0	3113.9	3032.4	2969.9	2901.1	2846.4	2777.2	2747.1	2748.5	2732.1
5°	3139.4	3074.7	2928.5	2743.9	2601.8	2455.0	2328.8	2203.1	2128.8	2104.6	2081.9
7.5°	3036.5	2933.9	2700.6	2416.3	2175.7	1940.6	1736.0	1556.0	1442.1	1386.5	1366.0
10°	2920.3	2776.3	2438.6	2064.1	1720.5	1402.5	1137.3	906.7	814.7	752.3	736.3
12.5°	2818.2	2623.2	2182.6	1702.8	1295.0	911.3	658.4	514.9	452.5	427.9	423.8
15°	2722.1	2480.1	1936.1	1375.6	896.7	560.9	418.7	370.0	355.4	351.3	351.3
17.5°	2631.4	2343.9	1695.0	1053.5	593.3	393.2	346.8	335.8	331.3	330.8	331.3
20°	2536.6	2207.6	1458.1	771.9	414.2	333.1	320.3	314.4	313.0	313.0	313.0
22.5°	2445.9	2071.4	1227.5	551.3	332.2	303.9	297.5	293.4	292.1	291.6	290.7
25°	2358.9	1942.0	1002.4	389.6	291.6	278.4	272.9	267.5	263.4	261.1	259.7
27.5°	2287.4	1826.7	792.8	312.6	263.4	252.0	245.1	236.9	226.9	222.4	220.5
30°	2230.4	1721.4	611.0	263.8	236.9	225.5	215.1	200.9	186.4	178.6	178.2
32.5°	2185.8	1618.0	463.9	233.3	213.2	199.1	184.1	166.3	149.5	140.8	140.3
35°	2163.9	1526.9	354.5	211.0	192.3	174.5	155.8	136.2	119.8	111.6	110.7
37.5°	2178.5	1449.9	276.6	192.3	174.5	154.0	132.1	111.6	97.1	89.8	89.3
40°	2231.8	1400.7	224.6	176.3	159.5	134.4	110.7	91.6	79.3	73.4	72.9
42.5°	2345.2	1382.4	191.8	163.1	144.9	116.2	92.0	75.6	64.2	60.1	59.2
45°	2534.8	1409.3	169.5	150.4	129.9	98.9	76.1	62.0	51.9	48.8	48.3
47.5°	2787.2	1480.0	153.6	138.1	116.2	83.4	63.3	50.1	42.4	39.2	38.7
50°	3112.5	1592.0	140.3	125.8	103.4	70.6	52.4	39.6	32.8	30.5	30.5
52.5°	3466.6	1725.5	128.5	114.4	90.7	58.8	42.4	30.5	26.0	23.2	23.2
55°	3759.1	1842.2	115.7	105.7	75.2	48.8	32.4	23.2	19.1	17.8	17.8
57.5°	4051.2	1966.6	101.2	90.7	60.1	39.6	24.6	17.3	14.1	13.2	13.2
60°	4429.8	2118.8	87.0	73.8	47.4	30.1	18.2	12.3	10.5	10.0	10.0
62.5°	4846.3	2208.1	74.3	59.2	36.9	22.3	13.2	8.2	7.7	7.7	7.3
65°	5101.0	2081.9	62.4	47.4	28.7	16.9	8.7	5.9	6.8	6.4	5.5
67.5°	4776.1	1629.9	51.0	36.9	22.3	12.8	5.5	4.1	7.3	5.9	4.6
70°	3954.6	1140.9	39.6	26.0	17.8	10.9	3.6	2.7	7.7	5.9	3.6
72.5°	2959.5	763.7	31.4	17.3	13.2	9.6	3.2	1.4	6.8	5.0	3.2
75°	1617.1	307.6	25.1	10.9	8.2	6.8	2.3	0.9	4.6	3.6	2.3
77.5°	425.6	81.1	18.2	7.3	4.6	2.7	1.4	0.5	2.3	1.8	0.9
80°	108.4	31.4	11.8	5.0	3.2	1.4	0.0	0.0	0.5	0.0	0.0
82.5°	57.9	13.2	7.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.7	8.7	4.1	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.9	2.7	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)