

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: P323317

Luminaire Tested: **GLEON-SA3B-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
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-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10622 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

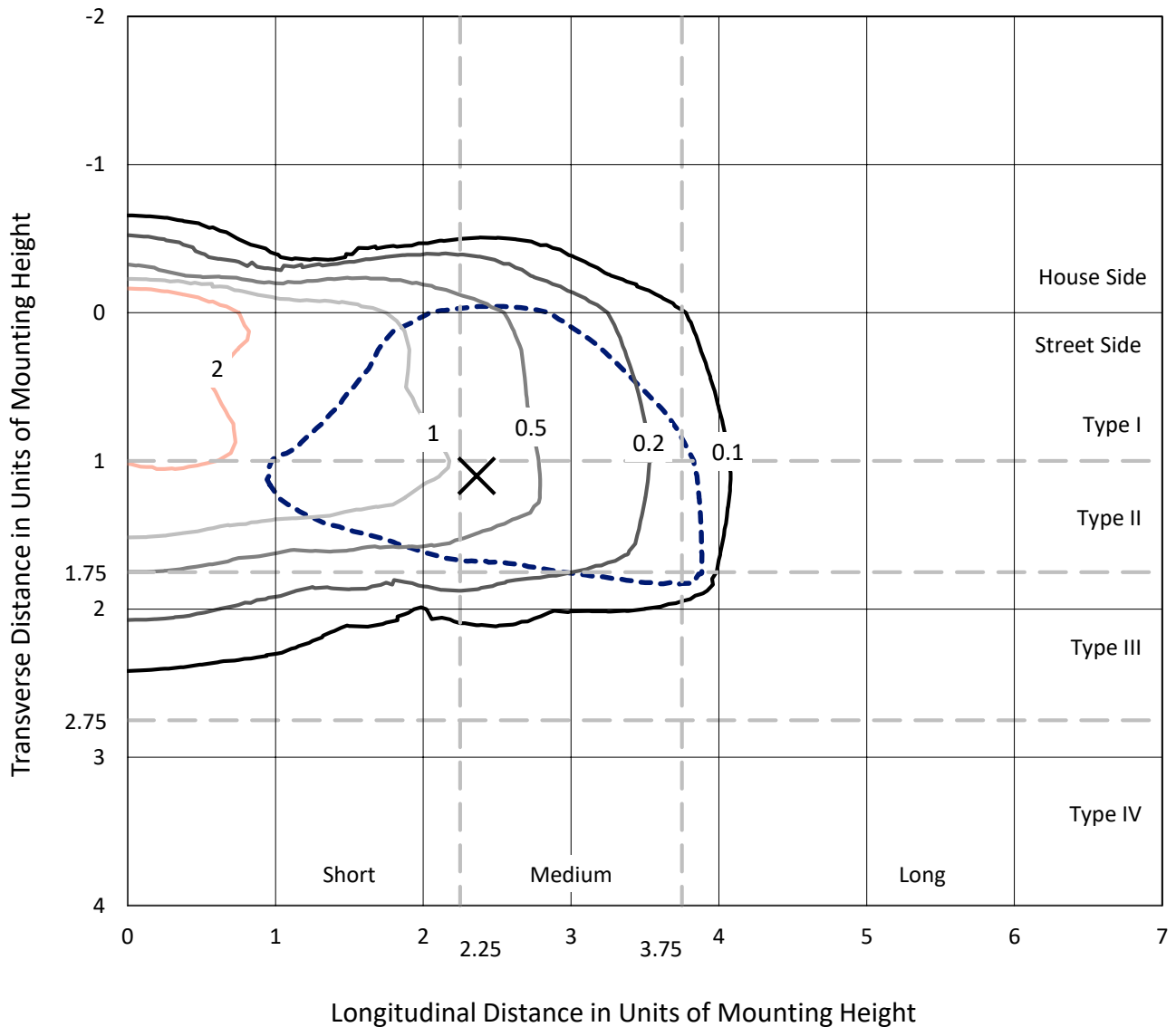
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323317  
 CATALOG NUMBER: GLEON-SA3B-827-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

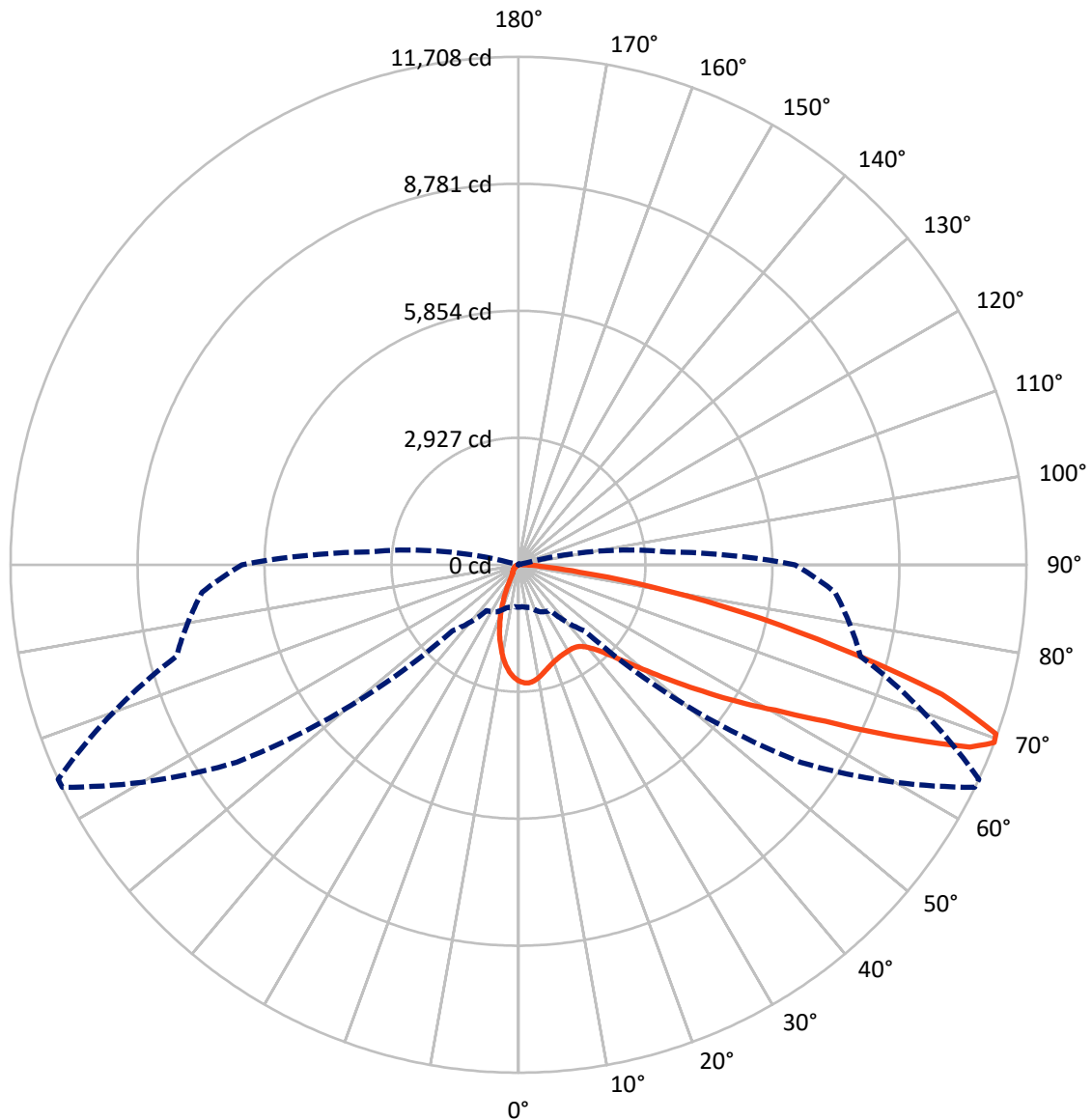
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P323317  
CATALOG NUMBER: GLEON-SA3B-827-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P323317  
 CATALOG NUMBER: GLEON-SA3B-827-U-SL2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1252.1	0.0	1252.1
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	9369.9	0.0	9369.9
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	10622.0	0.0	10622.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.5	2.1
10°-20°	491.3	4.6
20°-30°	680.5	6.4
30°-40°	948.9	8.9
40°-50°	1474.9	13.9
50°-60°	2367.7	22.3
60°-70°	2678.3	25.2
70°-80°	1573.0	14.8
80°-90°	183.0	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°	10622.0	100.0
0°-180°	10622.0	100.0

**Coefficient of Utilization**

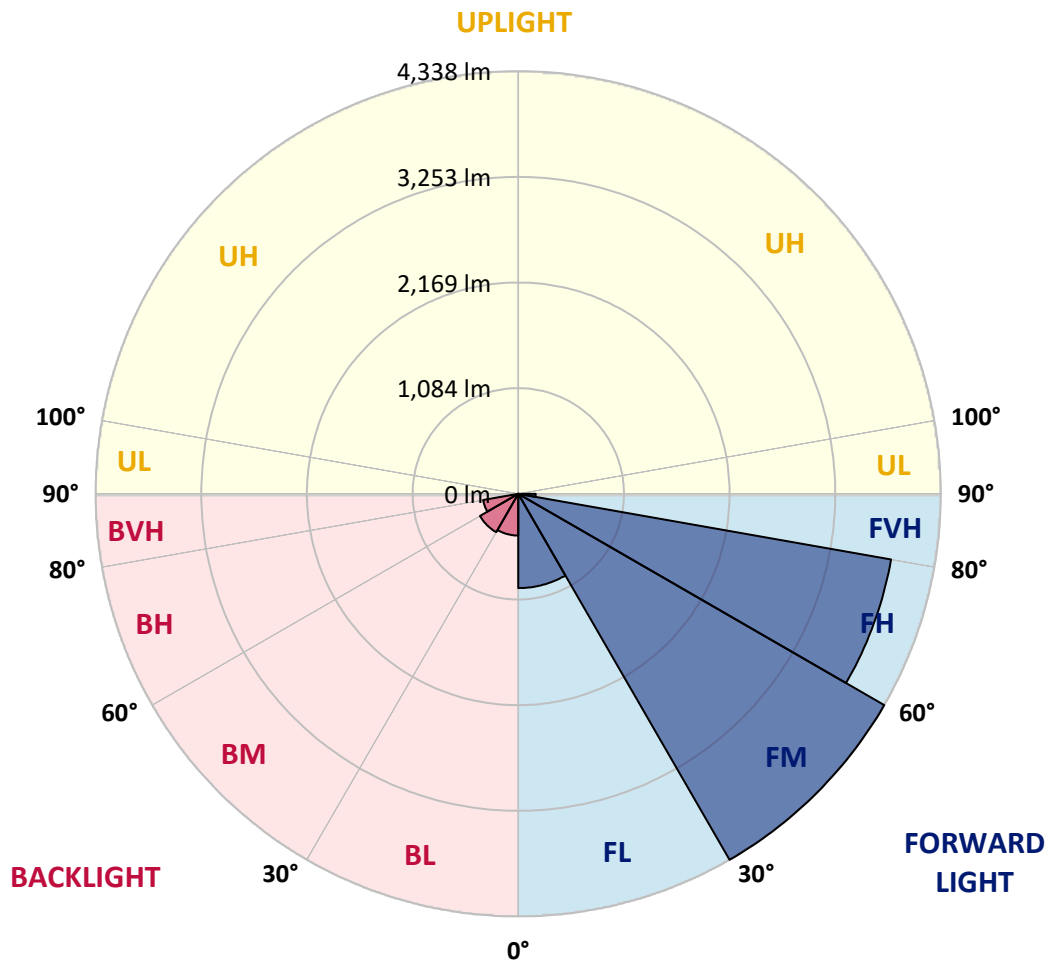


REPORT NUMBER: P323317  
 CATALOG NUMBER: GLEON-SA3B-827-U-SL2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	967.9	9.1			
FM (30°-60°)	4337.7	40.8			
FH (60°-80°)	3885.4	36.6			G2/5000
FVH (80°-90°)	178.9	1.7			G2/225
BL (0°-30°)	428.4	4.0	B1/500		
BM (30°-60°)	453.7	4.3	B1/1000		
BH (60°-80°)	365.8	3.4	B1/500		G1/500
BVH (80°-90°)	4.1	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





REPORT NUMBER: P323317

CATALOG NUMBER: GLEON-SA3B-827-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2
2.5°	2708.0	2701.3	2706.7	2718.4	2724.2	2724.2	2728.7	2723.3	2725.1	2712.1	2693.2
5°	2538.6	2528.2	2543.1	2575.9	2616.3	2650.9	2702.2	2729.1	2731.8	2732.3	2710.3
7.5°	2356.1	2346.7	2368.7	2407.3	2459.5	2523.7	2613.2	2691.4	2695.9	2738.1	2722.0
10°	2207.8	2201.0	2226.6	2268.0	2329.1	2401.0	2510.7	2619.5	2632.5	2726.0	2720.2
12.5°	2090.0	2084.6	2108.9	2156.5	2219.0	2298.6	2413.2	2539.5	2557.0	2698.6	2711.2
15°	2004.2	2003.3	2023.5	2069.3	2138.5	2212.7	2330.0	2465.3	2485.5	2668.9	2709.8
17.5°	1959.2	1960.6	1975.4	2014.5	2073.8	2147.5	2259.9	2402.8	2424.9	2642.4	2716.6
20°	1954.7	1956.1	1964.2	1986.2	2034.3	2099.4	2202.8	2350.2	2373.2	2622.6	2727.3
22.5°	1994.3	1993.4	1995.6	1993.4	2020.3	2069.8	2165.1	2309.8	2336.3	2609.6	2735.9
25°	2070.2	2068.9	2068.0	2051.4	2033.4	2059.9	2149.3	2286.9	2312.0	2600.1	2740.8
27.5°	2175.9	2175.0	2173.6	2146.2	2092.3	2075.6	2151.1	2278.3	2299.5	2592.5	2739.9
30°	2314.7	2321.0	2319.2	2281.0	2197.0	2123.7	2170.0	2273.8	2292.3	2577.7	2730.5
32.5°	2477.9	2490.5	2500.4	2459.5	2354.3	2219.0	2213.6	2278.8	2292.3	2566.4	2713.4
35°	2647.3	2663.5	2699.9	2685.5	2547.1	2362.4	2288.7	2308.4	2319.7	2572.7	2705.3
37.5°	2814.1	2833.4	2912.5	2954.3	2799.7	2552.1	2405.5	2381.7	2387.6	2610.9	2714.3
40°	3007.8	3037.0	3157.0	3224.5	3101.3	2806.0	2580.4	2507.6	2509.8	2695.0	2756.1
42.5°	3262.2	3292.3	3422.2	3527.8	3441.1	3126.9	2817.7	2699.9	2697.7	2852.3	2854.5
45°	3572.3	3603.8	3738.2	3855.5	3816.4	3507.2	3121.5	2980.8	2978.1	3100.4	3041.1
47.5°	3923.8	3954.8	4074.8	4195.7	4238.0	3951.2	3508.5	3364.2	3357.9	3445.1	3329.2
50°	4225.4	4245.6	4356.2	4518.9	4709.5	4496.9	3989.9	3851.0	3844.3	3903.1	3752.1
52.5°	4335.1	4346.8	4459.1	4687.0	5162.5	5235.8	4622.3	4443.4	4438.5	4464.1	4315.3
55°	4113.0	4134.2	4272.2	4610.2	5407.9	6070.9	5420.5	5176.9	5139.6	5084.3	4904.1
57.5°	3508.1	3541.8	3690.1	4139.6	5293.3	6733.4	6593.6	6006.6	5951.8	5613.8	5382.8
60°	2628.5	2669.8	2793.0	3277.9	4681.6	6969.4	7875.5	6931.2	6807.6	6035.4	5822.8
62.5°	1803.7	1824.4	1908.0	2223.9	3447.8	6582.8	8947.9	8169.5	7943.8	6493.9	6298.8
65°	1377.6	1384.8	1419.0	1527.7	2053.2	5347.3	9374.5	9803.3	9530.4	7042.2	6792.7
67.5°	1110.2	1104.3	1151.5	1307.0	1374.9	3262.2	8876.9	11349.0	11221.3	7775.3	7289.9
69°	978.9	970.8	1018.9	1199.6	1291.3	2156.5	7935.7	11700.0	11708.1	8162.3	7324.0
70°	880.9	886.3	934.0	1135.8	1263.0	1692.7	7036.8	11610.5	11674.4	8307.0	7119.1
72.5°	588.3	602.7	698.5	943.0	1214.5	1281.0	4248.8	9963.3	10208.7	7981.1	6107.8
75°	331.7	342.5	456.2	711.1	1144.3	1219.8	2244.2	7340.2	7577.5	6674.1	4709.9
77.5°	162.7	168.5	258.0	458.9	956.9	1162.3	1272.9	4985.9	5256.9	4356.2	2664.0
80°	68.8	71.9	129.0	283.2	684.1	1109.3	945.2	3068.5	3102.2	1706.6	709.7
82.5°	26.5	27.4	54.4	176.6	434.6	864.8	790.6	1454.9	1419.9	321.4	161.8
85°	3.1	3.6	19.8	106.1	241.8	445.0	642.3	627.0	580.3	63.8	83.2
87.5°	0.0	0.0	1.3	32.4	71.9	208.6	334.0	260.2	234.6	20.7	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323317  
 CATALOG NUMBER: GLEON-SA3B-827-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2	2684.2
2.5°	2677.5	2673.0	2648.7	2613.6	2580.4	2539.0	2499.5	2475.6	2456.8	2444.2	2459.0
5°	2684.6	2664.9	2591.2	2496.8	2404.2	2299.9	2202.8	2120.6	2088.2	2052.3	2068.4
7.5°	2682.4	2645.1	2512.5	2344.4	2174.5	1998.8	1832.5	1704.4	1637.8	1572.7	1589.3
10°	2671.2	2608.2	2407.3	2158.3	1903.9	1651.3	1415.4	1236.0	1135.8	1045.0	1058.0
12.5°	2646.4	2558.8	2283.3	1945.3	1605.0	1272.0	995.6	765.9	642.7	588.3	595.1
15°	2631.6	2510.7	2152.0	1729.5	1285.9	885.9	608.6	452.6	396.4	378.4	380.7
17.5°	2624.4	2464.4	2016.3	1482.8	959.6	564.1	393.3	347.0	334.9	331.7	332.6
20°	2617.2	2417.7	1876.5	1238.7	661.2	379.3	323.2	309.7	305.2	301.1	302.0
22.5°	2605.1	2372.7	1726.4	991.5	445.9	307.9	291.3	278.2	268.8	263.8	264.7
25°	2590.3	2325.5	1573.1	738.5	325.4	274.6	258.9	240.5	229.2	220.2	220.7
27.5°	2566.4	2267.5	1414.9	537.6	273.3	245.9	224.7	204.5	185.6	175.3	175.3
30°	2533.2	2201.9	1239.2	384.7	245.0	217.5	191.9	166.8	146.5	137.1	136.2
32.5°	2496.3	2133.6	1061.6	291.7	222.5	191.0	161.8	135.3	117.3	109.7	109.2
35°	2464.9	2059.9	884.5	244.5	200.0	165.4	133.5	111.0	96.6	90.3	89.9
37.5°	2444.6	1986.2	712.0	218.4	179.8	141.6	111.9	91.7	81.4	76.4	76.0
40°	2441.5	1931.3	554.2	198.7	160.9	120.5	93.5	77.8	68.3	62.9	62.5
42.5°	2482.4	1899.9	425.2	182.0	141.6	102.0	79.6	66.5	56.6	51.2	50.8
45°	2589.8	1909.8	327.2	167.2	122.3	86.3	67.4	55.3	46.3	42.2	41.4
47.5°	2785.8	1978.1	260.2	152.4	103.8	73.3	57.5	45.8	38.2	34.2	33.7
50°	3134.6	2138.5	217.5	136.2	86.7	62.5	47.6	37.3	31.0	27.4	27.0
52.5°	3597.5	2424.4	194.2	120.5	71.9	53.0	39.1	29.7	24.3	21.6	21.1
55°	4108.1	2770.5	178.9	103.4	58.9	44.0	31.0	23.4	18.9	16.6	15.7
57.5°	4606.6	3070.3	164.5	86.7	49.0	36.0	24.7	18.4	14.8	12.6	12.1
60°	5064.6	3345.8	147.9	69.7	40.0	28.3	19.3	14.4	11.7	9.4	9.4
62.5°	5554.9	3558.9	125.0	54.4	32.8	21.6	15.7	13.0	9.4	8.1	7.6
65°	6074.5	3717.1	98.0	42.2	25.6	16.2	13.0	13.5	7.6	5.8	5.4
67.5°	6458.3	3685.6	72.4	33.3	19.8	12.6	12.6	14.4	6.7	4.5	4.0
69°	6373.8	3429.9	60.7	28.8	17.1	10.8	11.7	14.4	6.3	4.0	3.6
70°	6128.9	3146.7	53.5	25.6	15.3	9.9	11.2	13.9	5.8	4.0	3.6
72.5°	5104.1	2370.0	41.8	19.3	12.1	8.1	9.4	12.1	5.8	4.0	3.1
75°	3839.3	1516.9	31.9	13.9	9.0	6.3	7.2	9.0	5.8	3.6	3.1
77.5°	2089.1	547.0	22.9	9.4	6.3	4.9	4.9	6.7	5.4	2.7	1.8
80°	537.1	137.5	14.4	6.3	4.9	3.6	3.1	4.5	3.1	0.4	0.0
82.5°	132.6	31.0	7.6	4.5	3.6	1.3	1.3	2.2	1.3	0.0	0.0
85°	72.8	15.3	4.9	3.1	1.8	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	37.3	4.5	1.3	0.9	0.4	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)