

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: P457084

Luminaire Tested: **GALN-SA8B-827-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24799 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

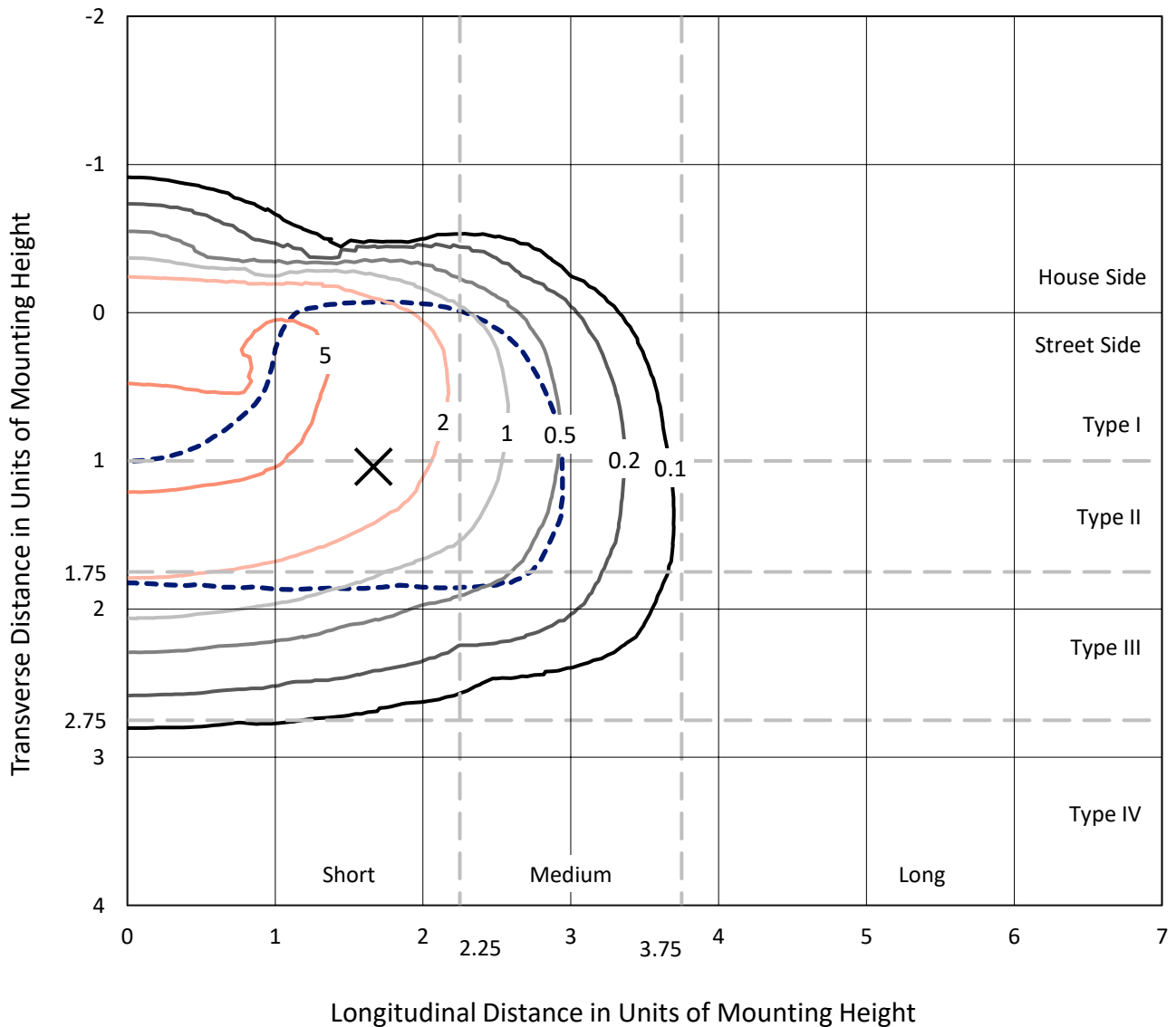
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457084  
 CATALOG NUMBER: GALN-SA8B-827-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

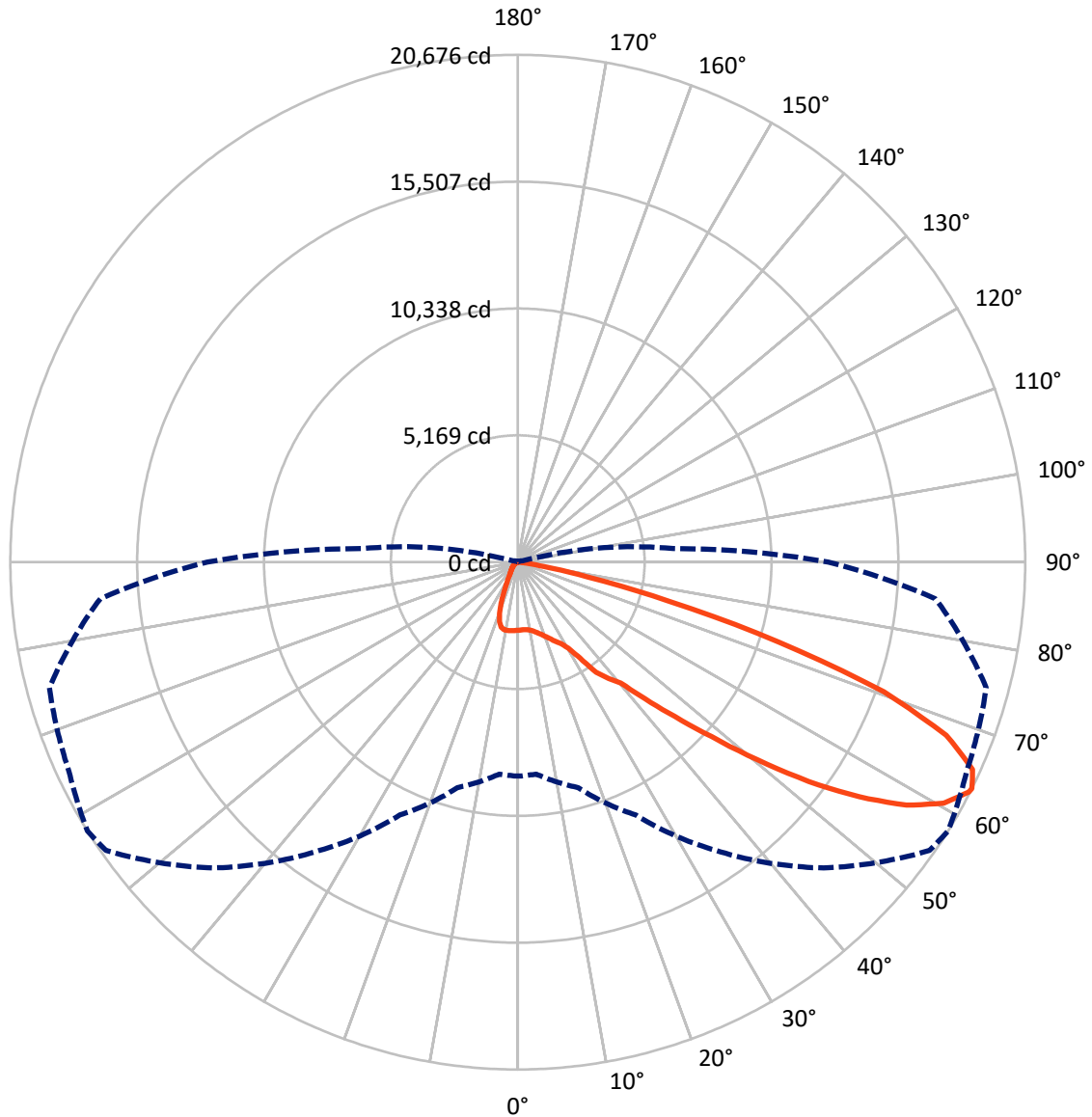
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P457084  
CATALOG NUMBER: GALN-SA8B-827-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P457084

CATALOG NUMBER: GALN-SA8B-827-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2567.8	0.0	2567.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	22231.2	0.0	22231.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	24799.0	0.0	24799.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.9	1.0
10°-20°	707.9	2.9
20°-30°	1228.6	5.0
30°-40°	2257.6	9.1
40°-50°	4249.9	17.1
50°-60°	7269.2	29.3
60°-70°	6960.3	28.1
70°-80°	1774.9	7.2
80°-90°	90.7	0.4
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°	24799.0	100.0
0°-180°	24799.0	100.0



REPORT NUMBER: P457084

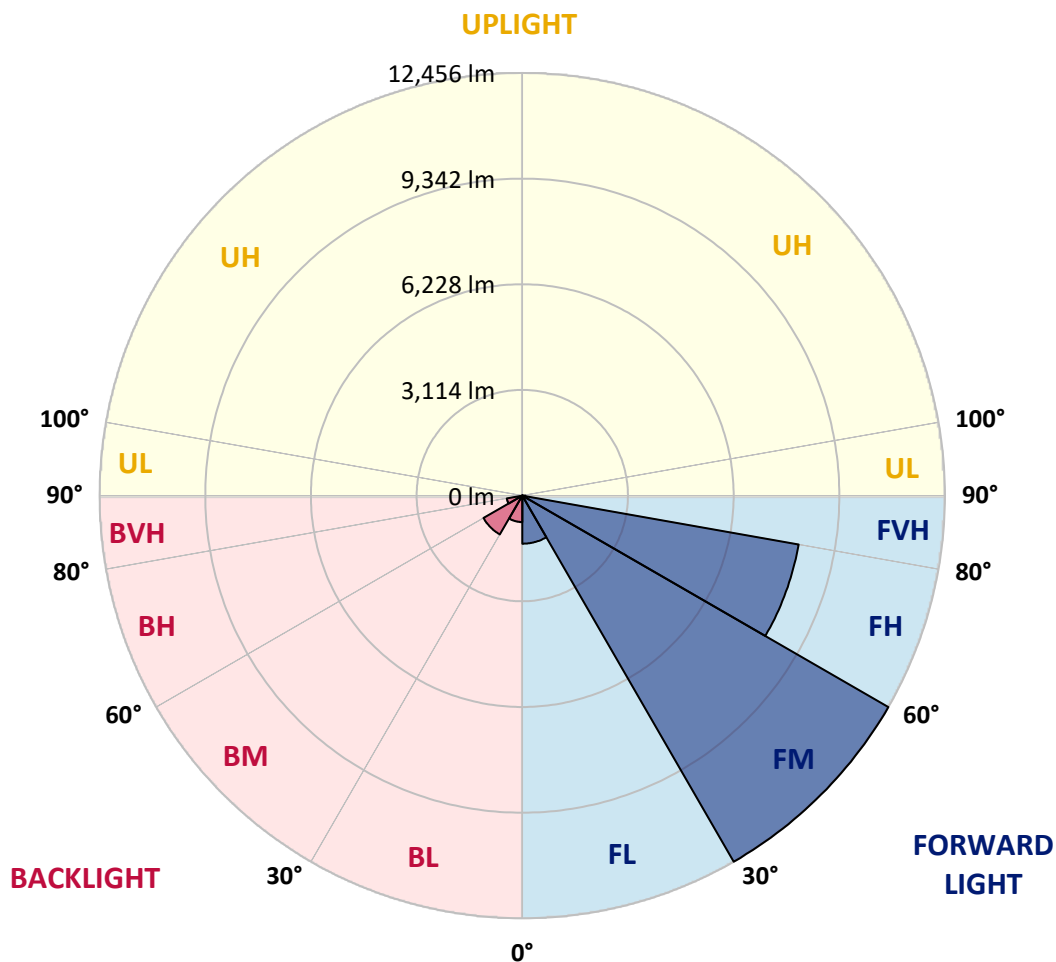
CATALOG NUMBER: GALN-SA8B-827-U-T3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1417.6	5.7			
FM	(30°-60°)	12456.0	50.2			
FH	(60°-80°)	8270.3	33.3			G4/12000
FVH	(80°-90°)	87.2	0.4			G1/100
BL	(0°-30°)	778.7	3.1	B2/1000		
BM	(30°-60°)	1320.7	5.3	B2/2500		
BH	(60°-80°)	464.8	1.9	B1/500		G1/500
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





REPORT NUMBER: P457084  
 CATALOG NUMBER: GALN-SA8B-827-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3
2.5°	2707.3	2716.6	2725.9	2729.7	2742.7	2755.8	2765.1	2763.3	2778.2	2785.7	2785.7
5°	2599.0	2599.0	2623.2	2645.6	2683.0	2720.3	2755.8	2763.3	2791.3	2817.4	2826.8
7.5°	2507.5	2513.1	2531.8	2572.8	2623.2	2688.6	2759.5	2776.3	2824.9	2882.8	2907.0
10°	2464.5	2468.3	2492.5	2535.5	2599.0	2688.6	2787.5	2819.3	2894.0	2985.5	3019.1
12.5°	2455.2	2460.8	2485.1	2533.6	2606.4	2714.7	2849.2	2882.8	2991.1	3108.7	3159.1
15°	2472.0	2475.7	2500.0	2552.3	2632.6	2761.4	2931.3	2978.0	3106.8	3243.1	3308.5
17.5°	2531.8	2528.0	2544.8	2587.8	2677.4	2819.3	3030.3	3086.3	3237.5	3424.2	3467.2
20°	2785.7	2761.4	2746.5	2709.1	2744.6	2901.4	3149.8	3231.9	3418.6	3609.1	3638.9
22.5°	3332.7	3278.6	3172.2	3026.5	2914.5	3013.5	3293.5	3388.7	3629.6	3816.3	3816.3
25°	4029.2	3960.1	3853.6	3536.2	3261.8	3198.3	3456.0	3575.5	3859.2	4047.8	3986.2
27.5°	4901.1	4846.9	4639.7	4270.0	3849.9	3521.3	3644.5	3754.7	4062.8	4290.5	4161.7
30°	5610.6	5584.4	5414.5	5084.1	4621.0	4141.2	3995.5	4068.4	4333.5	4596.7	4464.2
32.5°	6209.9	6209.9	6036.3	5728.2	5295.0	4869.3	4591.1	4643.4	4897.3	5201.7	4955.2
35°	6869.0	6846.6	6706.5	6413.4	5928.0	5552.7	5438.8	5509.7	5739.4	5965.3	5358.5
37.5°	7561.7	7554.2	7408.6	7124.8	6728.9	6256.6	5989.6	6008.3	6125.9	6264.0	5830.9
40°	8314.1	8325.3	8134.9	7959.4	7585.9	7102.4	6590.8	6473.2	6583.3	6973.5	6702.8
42.5°	9202.8	9176.7	9094.5	8855.5	8554.9	8265.6	7651.3	7608.3	7705.4	8123.7	7830.5
45°	10235.3	10272.7	10130.8	9998.2	9796.6	9555.7	9042.3	8967.6	9074.0	9723.7	9307.4
47.5°	11269.7	11234.2	11325.7	11301.4	11409.7	11230.5	10776.8	10623.7	10879.5	11495.6	10883.2
50°	12057.6	12096.8	12287.2	12565.4	13030.3	13131.2	12696.1	12643.8	12757.7	13153.6	12292.8
52.5°	12569.2	12699.9	12998.6	13713.7	14552.0	15203.6	14873.1	14845.1	14798.5	14904.9	13640.9
55°	12903.4	13035.9	13426.2	14479.2	15922.4	16981.1	16997.9	16878.4	16570.3	16493.8	14901.1
57.5°	12698.0	12724.1	13280.5	14688.3	16682.3	18248.8	18797.7	18678.2	18108.8	17819.4	16013.9
60°	11413.4	11467.6	12242.4	13896.7	16351.9	18663.3	19990.8	19936.7	19313.0	18986.3	16880.2
62.5°	9137.5	9294.3	10091.6	11936.2	14815.3	17965.0	20474.4	20627.5	20142.0	19692.1	17152.8
63°	8719.3	8668.8	9510.9	11364.9	14408.2	17619.6	20481.8	20676.0	20179.4	19759.3	17078.2
65°	6454.5	6605.7	7152.8	8962.0	11990.4	16012.1	20020.7	20364.2	20041.2	19462.4	16251.0
67.5°	3624.0	3616.5	4221.5	5864.5	8392.5	12559.8	18103.2	18829.5	18762.3	17464.6	13471.0
70°	1773.7	1801.7	2050.1	3039.6	4867.5	8665.1	15043.0	15827.2	15851.5	13717.4	9314.8
72.5°	802.8	815.9	993.3	1480.6	2501.9	4613.5	10366.0	11114.7	10976.5	8741.7	5143.8
75°	423.8	451.8	547.1	745.0	1206.1	1902.6	5638.6	6363.0	6073.6	3993.7	1893.2
77.5°	313.7	323.0	371.5	474.2	646.0	741.2	2432.8	2894.0	2711.0	1445.1	627.3
80°	229.7	237.1	276.3	336.1	407.0	377.1	916.7	1051.2	942.9	491.0	192.3
82.5°	140.0	141.9	201.6	250.2	255.8	211.0	302.5	324.9	339.8	276.3	104.6
85°	50.4	63.5	136.3	181.1	151.2	106.4	127.0	140.0	153.1	175.5	61.6
87.5°	5.6	7.5	65.3	87.8	42.9	39.2	46.7	52.3	56.0	65.3	29.9
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: P457084  
 CATALOG NUMBER: GALN-SA8B-827-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3
2.5°	2793.1	2800.6	2795.0	2785.7	2783.8	2778.2	2767.0	2767.0	2767.0	2770.7	2767.0
5°	2834.2	2839.8	2826.8	2808.1	2787.5	2761.4	2733.4	2716.6	2714.7	2711.0	2701.7
7.5°	2912.6	2920.1	2890.2	2845.4	2789.4	2725.9	2666.2	2610.2	2584.0	2563.5	2563.5
10°	3026.5	3034.0	2974.3	2894.0	2781.9	2653.1	2511.2	2382.4	2281.6	2234.9	2223.7
12.5°	3162.8	3166.6	3067.6	2927.6	2742.7	2494.4	2191.9	1910.0	1714.0	1624.4	1615.0
15°	3312.2	3286.1	3155.4	2940.6	2630.7	2167.7	1644.9	1299.5	1096.0	1036.2	1058.6
17.5°	3463.4	3414.9	3222.6	2920.1	2378.7	1644.9	1105.3	886.9	823.4	806.6	806.6
20°	3605.3	3538.1	3271.1	2830.5	1941.8	1133.3	819.6	767.4	756.2	745.0	746.8
22.5°	3747.2	3644.5	3314.1	2630.7	1447.0	810.3	733.8	717.0	702.0	687.1	685.2
25°	3885.4	3743.5	3330.9	2261.0	985.8	696.4	670.3	647.9	618.0	601.2	597.5
27.5°	4029.2	3863.0	3319.7	1794.3	718.8	623.6	597.5	565.7	530.2	500.4	500.4
30°	4305.5	4090.8	3280.5	1290.2	604.9	548.9	515.3	464.9	425.7	395.8	394.0
32.5°	4682.6	4387.6	3146.0	907.4	537.7	483.6	433.2	377.1	336.1	313.7	313.7
35°	5018.7	4686.4	2894.0	668.4	483.6	420.1	358.5	304.3	272.6	257.7	252.1
37.5°	5530.3	5123.3	2546.7	543.3	431.3	364.1	300.6	250.2	224.0	212.8	212.8
40°	6297.7	5657.2	2121.0	476.1	380.9	309.9	250.2	211.0	190.4	177.4	177.4
42.5°	7249.9	6310.7	1689.7	427.6	334.2	267.0	209.1	179.2	160.6	151.2	149.4
45°	8448.5	6999.7	1301.4	382.8	296.9	227.8	177.4	151.2	132.6	127.0	128.8
47.5°	9699.5	7606.5	1008.2	343.5	257.7	192.3	151.2	130.7	117.6	110.2	110.2
50°	10767.4	8024.7	765.5	298.7	227.8	162.4	132.6	117.6	106.4	102.7	100.8
52.5°	11659.9	8146.1	586.3	259.5	199.8	140.0	117.6	106.4	97.1	91.5	91.5
55°	12419.8	8039.6	459.3	218.4	168.0	121.4	104.6	95.2	84.0	78.4	76.6
57.5°	12864.2	7698.0	351.0	181.1	136.3	100.8	91.5	80.3	67.2	57.9	57.9
60°	13088.2	7201.3	268.9	149.4	104.6	80.3	74.7	59.7	46.7	39.2	37.3
62.5°	12819.4	6542.2	203.5	117.6	78.4	59.7	50.4	42.9	29.9	22.4	22.4
63°	12653.2	6351.8	196.0	112.0	72.8	56.0	46.7	39.2	26.1	20.5	18.7
65°	11534.8	5520.9	160.6	89.6	57.9	39.2	31.7	28.0	18.7	9.3	7.5
67.5°	9159.9	4223.3	127.0	67.2	41.1	28.0	18.7	16.8	5.6	0.0	0.0
70°	6193.1	2727.8	99.0	48.5	28.0	16.8	9.3	7.5	1.9	0.0	0.0
72.5°	3230.0	1398.4	76.6	35.5	16.8	11.2	5.6	1.9	0.0	0.0	0.0
75°	1142.7	476.1	56.0	22.4	11.2	5.6	1.9	0.0	0.0	0.0	0.0
77.5°	345.4	177.4	35.5	16.8	7.5	3.7	0.0	0.0	0.0	0.0	0.0
80°	121.4	65.3	20.5	11.2	5.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	59.7	31.7	13.1	9.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
85°	33.6	20.5	11.2	9.3	5.6	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	24.3	14.9	11.2	9.3	7.5	3.7	1.9	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)