

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: P650741

Luminaire Tested: **GALN-SA2C-840-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11784.9 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

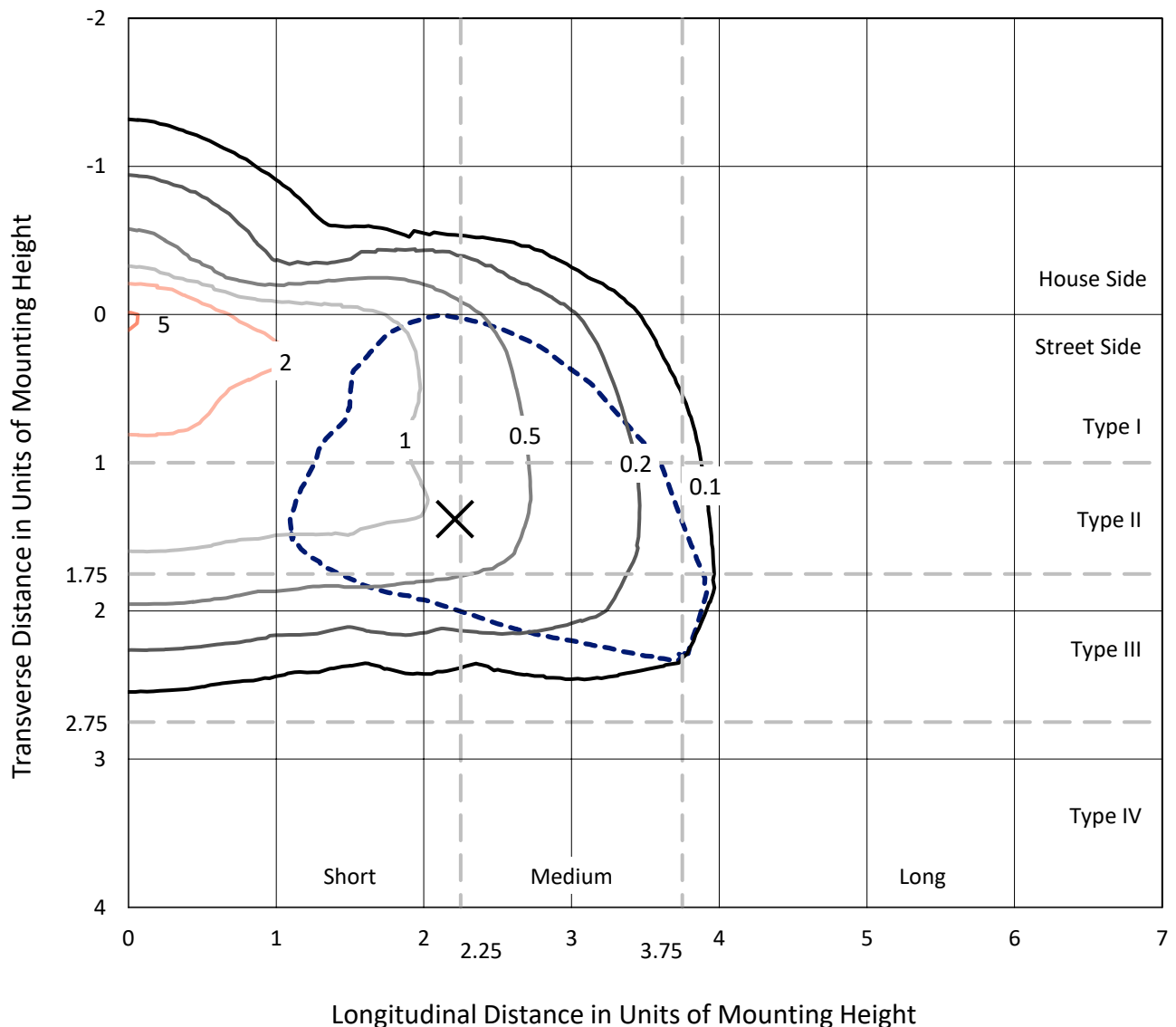
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650741  
 CATALOG NUMBER: GALN-SA2C-840-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

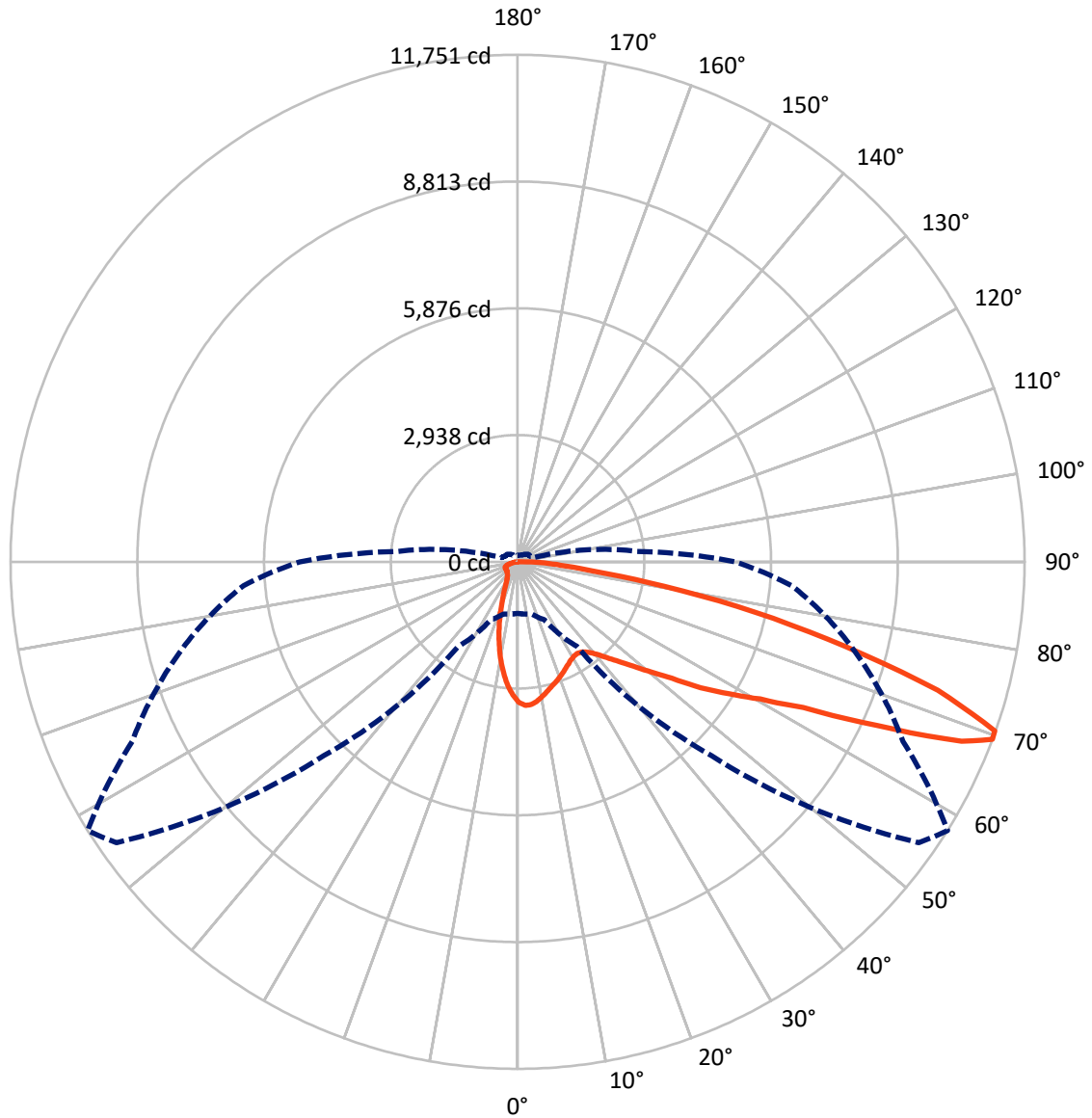
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P650741  
CATALOG NUMBER: GALN-SA2C-840-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P650741  
 CATALOG NUMBER: GALN-SA2C-840-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1727.1	0.0	1727.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	10057.9	0.0	10057.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	11784.9	0.0	11784.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.6	2.3
10°-20°	607.3	5.2
20°-30°	784.6	6.7
30°-40°	1019.1	8.6
40°-50°	1481.6	12.6
50°-60°	2364.2	20.1
60°-70°	3158.3	26.8
70°-80°	1820.6	15.4
80°-90°	272.7	2.3
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°	11784.9	100.0
0°-180°	11784.9	100.0

**Coefficient of Utilization**



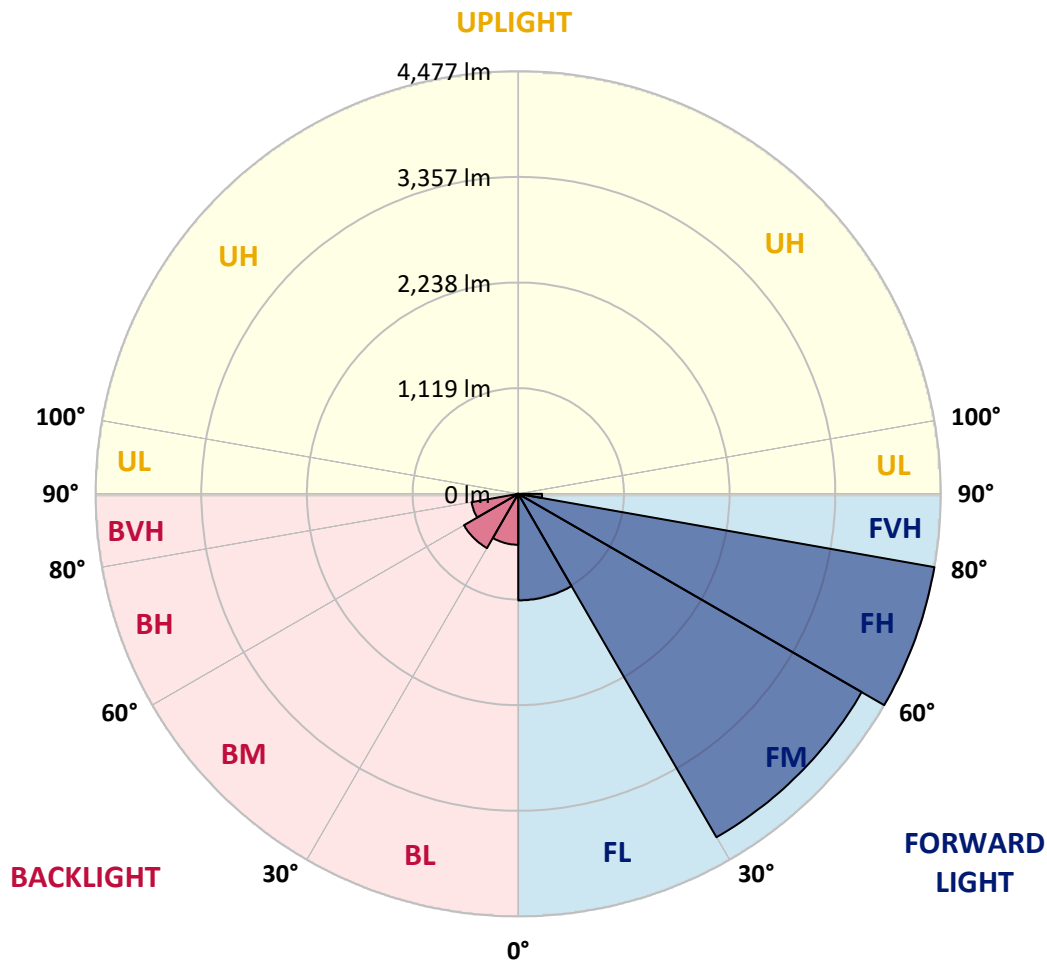
REPORT NUMBER: P650741  
 CATALOG NUMBER: GALN-SA2C-840-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.7	9.6			
FM (30°-60°)	4200.7	35.6			
FH (60°-80°)	4476.6	38.0			G2/5000
FVH (80°-90°)	251.8	2.1			G3/500
BL (0°-30°)	539.8	4.6	B2/1000		
BM (30°-60°)	664.2	5.6	B1/1000		
BH (60°-80°)	502.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	20.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





REPORT NUMBER: P650741

CATALOG NUMBER: GALN-SA2C-840-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7
2.5°	3377.6	3386.8	3384.2	3380.9	3375.6	3361.1	3337.5	3333.6	3318.4	3286.2	3246.2
5°	3325.7	3333.6	3334.2	3338.9	3345.4	3342.8	3325.7	3323.7	3301.3	3257.9	3190.9
7.5°	3147.5	3158.0	3181.1	3206.7	3229.7	3251.4	3256.7	3260.0	3246.2	3196.2	3106.8
10°	2947.1	2957.6	2968.1	3006.2	3062.8	3116.7	3161.4	3167.3	3170.6	3124.6	3015.5
12.5°	2724.9	2746.6	2769.0	2825.5	2901.1	2985.9	3064.8	3077.2	3099.6	3064.8	2936.6
15°	2536.3	2558.7	2590.9	2641.5	2732.8	2855.1	2966.1	2986.6	3030.5	3012.8	2862.9
17.5°	2405.5	2413.4	2435.8	2493.6	2592.2	2721.0	2869.6	2910.3	2980.6	2976.0	2799.9
20°	2302.3	2312.2	2326.0	2361.5	2464.0	2600.0	2779.5	2832.1	2927.4	2943.2	2737.5
22.5°	2258.9	2266.2	2264.2	2283.3	2352.9	2489.7	2688.2	2750.6	2880.1	2920.8	2679.6
25°	2261.6	2268.2	2258.3	2253.7	2295.1	2392.4	2592.8	2672.4	2841.9	2905.7	2627.0
27.5°	2305.6	2310.2	2291.8	2273.4	2276.7	2331.9	2514.0	2602.1	2809.7	2912.3	2583.0
30°	2364.8	2373.3	2361.5	2339.2	2314.9	2317.5	2463.4	2550.2	2794.6	2935.3	2561.9
32.5°	2441.0	2448.9	2443.6	2425.9	2394.3	2359.5	2450.8	2531.1	2795.9	2981.9	2557.3
35°	2521.2	2537.0	2545.5	2544.2	2518.5	2458.1	2500.2	2566.6	2827.4	3060.1	2584.3
37.5°	2611.9	2625.0	2661.8	2685.5	2661.8	2591.5	2611.2	2657.2	2897.2	3173.2	2643.4
40°	2699.9	2719.7	2773.6	2847.2	2838.0	2776.2	2780.9	2811.0	3020.0	3341.5	2759.2
42.5°	2792.0	2815.7	2909.6	3018.8	3040.5	2992.4	3005.0	3031.9	3194.9	3574.8	2957.6
45°	2910.3	2938.5	3054.3	3190.2	3275.7	3246.2	3281.7	3294.8	3428.8	3878.4	3219.2
47.5°	3062.8	3095.6	3238.3	3407.8	3528.8	3555.7	3617.5	3609.6	3718.7	4238.0	3558.4
50°	3319.8	3338.2	3472.9	3645.7	3812.0	3933.6	4000.6	4013.2	4078.3	4587.6	3937.6
52.5°	3625.4	3641.8	3739.1	3890.2	4098.6	4356.2	4521.9	4481.1	4496.9	5013.5	4381.2
55°	3969.1	3996.8	4058.5	4159.1	4429.2	4808.4	5141.0	5150.9	4976.0	5421.0	4806.5
57.5°	4235.3	4282.0	4387.7	4531.1	4873.5	5311.3	5758.2	5764.7	5541.3	5856.1	5275.8
60°	4101.2	4156.5	4398.3	4747.3	5456.5	6188.7	6495.5	6458.1	6091.4	6351.7	5848.2
62.5°	3522.9	3532.7	3884.3	4429.9	5635.9	7362.5	7593.2	7434.8	6825.6	6980.0	6429.9
65°	2280.0	2344.4	2623.1	3387.5	5046.3	8013.8	9516.3	9150.2	7854.8	7693.1	6916.9
67.5°	1439.4	1423.0	1538.6	1934.3	3470.9	7440.1	11157.5	11099.6	9200.8	8143.3	6800.6
69°	1193.5	1212.0	1251.4	1482.8	2388.4	6352.3	11351.3	11751.0	9853.5	8107.8	6378.0
70°	1082.5	1091.0	1132.4	1314.5	1842.9	5320.4	11033.2	11733.2	10109.8	7959.3	6071.7
72.5°	859.0	858.3	929.4	1093.6	1377.6	3037.1	9059.5	10186.7	9823.2	7267.8	5016.8
75°	652.6	663.1	741.3	925.4	1269.2	1659.5	6322.0	7844.9	7845.6	5740.4	3130.5
77.5°	470.6	477.2	568.5	776.8	1195.6	1345.3	4211.0	5626.7	5289.6	2630.3	983.9
80°	308.2	312.2	381.9	615.2	1077.9	1269.2	2496.8	3444.0	2494.9	698.0	325.3
82.5°	168.9	188.6	233.3	398.3	865.0	1172.5	1517.6	1743.1	935.9	310.9	169.5
85°	84.8	90.1	131.4	232.7	565.2	970.1	1056.9	999.7	483.1	154.5	88.1
87.5°	25.0	31.5	54.6	90.1	229.3	505.4	588.2	527.8	186.0	55.8	18.4
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: P650741  
 CATALOG NUMBER: GALN-SA2C-840-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7
2.5°	3229.7	3217.9	3165.3	3118.0	3074.6	3028.6	2989.8	2955.6	2958.9	2959.6	2924.7
5°	3156.1	3129.2	3029.3	2935.9	2857.0	2757.1	2671.7	2616.5	2588.9	2552.1	2565.2
7.5°	3056.2	3004.3	2865.6	2710.5	2565.2	2435.8	2295.1	2198.5	2136.7	2076.9	2084.8
10°	2953.0	2869.6	2667.7	2462.7	2274.7	2067.7	1888.3	1734.5	1620.1	1577.4	1549.1
12.5°	2847.2	2737.5	2481.1	2208.4	1948.8	1700.9	1446.6	1281.6	1155.4	1088.4	1096.9
15°	2750.6	2617.2	2286.6	1954.0	1616.8	1321.7	1068.1	911.0	822.8	804.5	815.0
17.5°	2661.2	2486.3	2104.5	1706.9	1313.2	991.1	802.5	713.8	678.3	668.4	667.8
20°	2569.2	2375.3	1900.1	1442.7	1023.3	768.3	658.6	617.1	610.6	614.5	615.2
22.5°	2475.8	2237.9	1689.8	1180.4	815.0	628.3	575.7	564.6	569.9	579.0	580.4
25°	2389.8	2117.0	1487.4	950.4	650.7	552.1	526.5	526.5	538.3	552.1	552.7
27.5°	2318.8	2000.0	1285.6	754.5	544.9	496.9	488.4	492.9	509.4	519.9	520.6
30°	2260.3	1890.9	1095.0	604.7	479.1	452.9	450.9	458.8	470.6	480.5	481.1
32.5°	2216.2	1794.9	916.9	508.0	433.8	419.3	418.6	424.6	431.2	433.8	436.4
35°	2199.1	1715.4	753.9	446.9	403.5	394.3	394.3	393.7	396.3	397.6	399.0
37.5°	2212.9	1654.3	627.6	407.5	381.2	374.7	370.7	366.8	365.4	365.4	366.1
40°	2271.5	1622.1	533.7	381.9	365.4	355.6	348.3	343.7	339.2	340.4	341.8
42.5°	2395.7	1628.0	470.0	364.7	351.6	337.8	327.3	322.0	318.7	322.7	322.0
45°	2593.5	1687.1	429.2	353.0	337.8	320.1	310.2	304.9	304.9	310.9	312.9
47.5°	2870.2	1800.2	407.5	343.7	327.3	306.3	296.5	292.5	293.8	303.7	304.3
50°	3208.0	1996.7	403.5	339.2	322.0	296.5	285.3	281.3	284.6	295.1	296.5
52.5°	3580.7	2249.8	422.6	339.8	317.5	290.5	276.0	270.1	273.4	282.0	284.6
55°	4022.3	2566.6	471.9	342.5	310.9	287.2	269.5	256.3	260.3	266.2	266.8
57.5°	4473.2	2966.1	558.7	343.0	305.6	281.3	258.3	241.2	241.2	245.2	247.1
60°	5024.0	3401.3	673.1	343.7	306.3	272.7	243.2	224.1	221.5	223.5	224.1
62.5°	5570.9	3765.4	692.1	341.8	312.9	264.2	226.7	207.1	202.4	201.8	200.5
65°	5812.1	3697.7	567.2	332.5	320.1	258.9	213.6	190.6	182.7	180.1	180.1
67.5°	5419.0	3127.8	426.6	320.1	315.5	253.7	201.1	176.8	167.6	162.3	162.3
69°	5049.6	2782.1	383.2	311.5	303.7	245.2	193.3	169.5	158.4	152.5	150.5
70°	4764.4	2544.2	364.7	304.3	292.5	235.3	187.3	164.3	151.8	145.2	144.0
72.5°	3802.2	1996.0	319.4	276.7	249.1	197.8	166.3	147.8	136.1	128.8	126.8
75°	2191.2	1081.9	264.8	240.5	200.5	153.8	140.6	128.8	119.6	113.0	111.1
77.5°	674.3	418.0	191.9	190.0	147.3	119.0	112.4	107.8	101.3	94.0	92.7
80°	283.9	212.9	130.1	128.2	97.9	82.8	80.8	80.1	77.5	71.7	69.6
82.5°	155.8	120.3	90.7	78.9	59.1	48.0	50.0	50.6	48.6	42.7	38.8
85°	76.3	65.8	44.1	35.5	26.9	17.1	16.4	19.7	18.4	13.1	14.5
87.5°	15.1	18.4	11.9	5.3	2.6	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)