

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: P451648

Luminaire Tested: **GALN-SA2C-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA 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: 11695 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

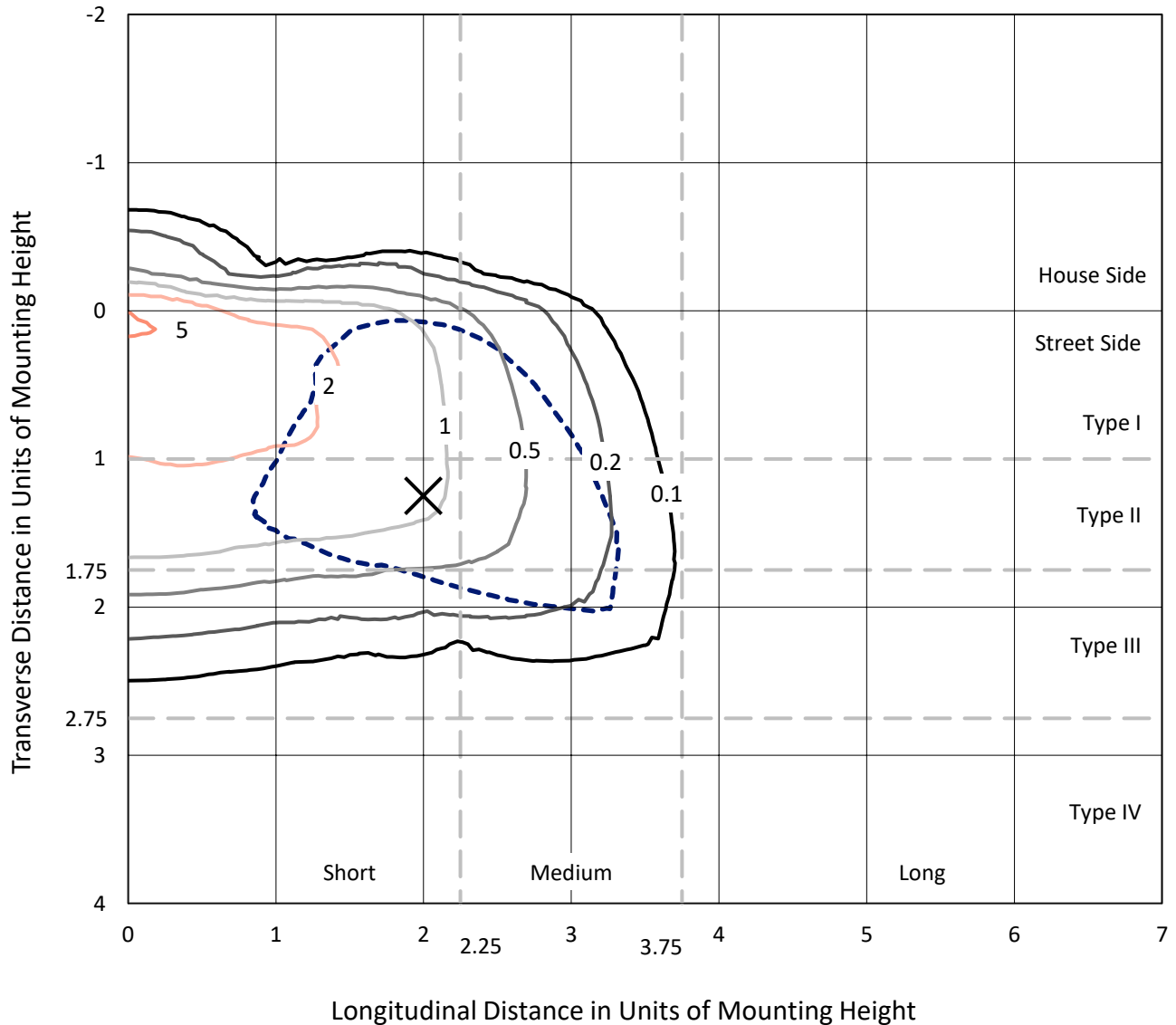
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

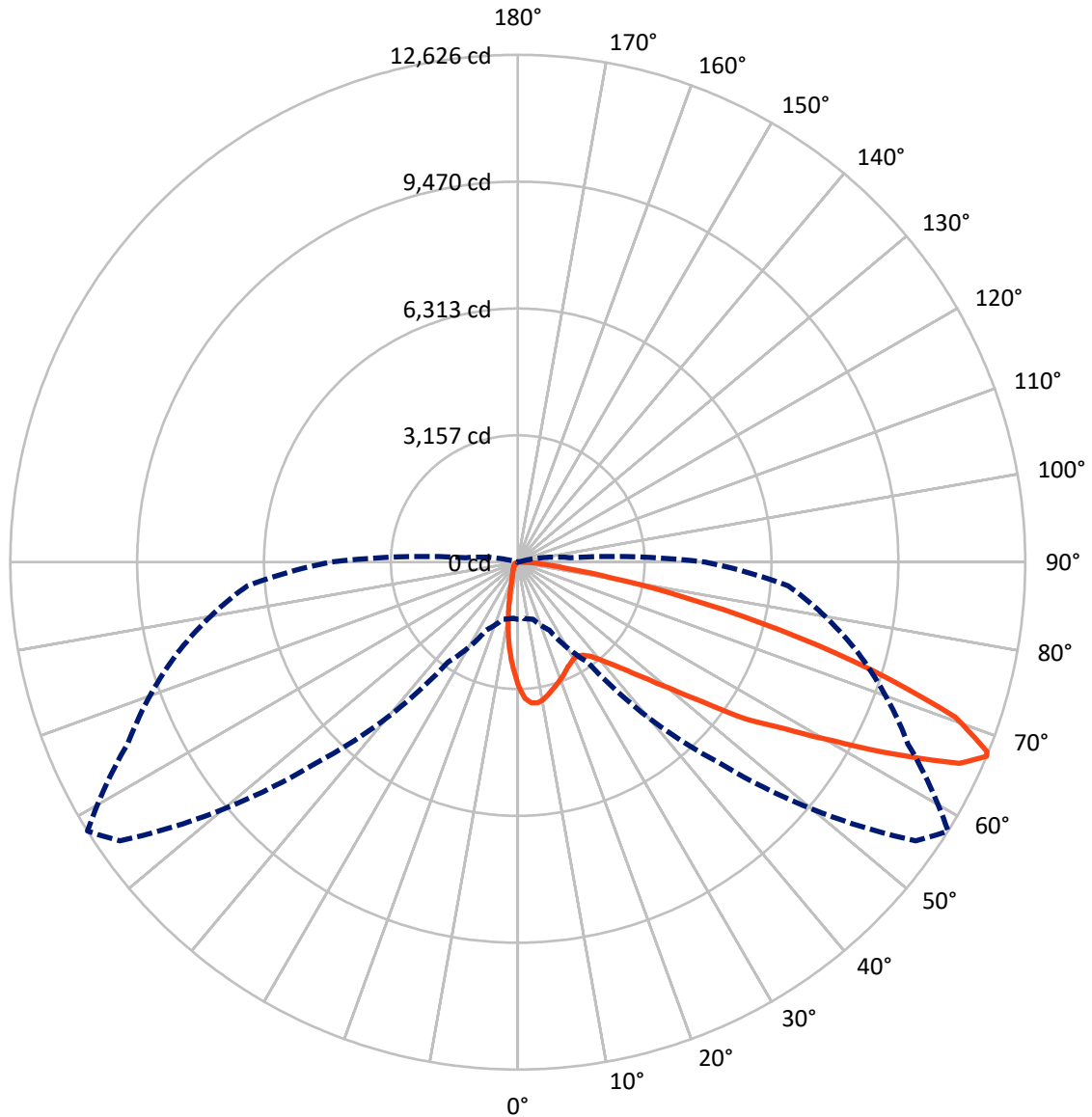
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	844.0	0.0	844.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10851.0	0.0	10851.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	11695.0	0.0	11695.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.6	2.2
10°-20°	543.3	4.6
20°-30°	736.3	6.3
30°-40°	1021.2	8.7
40°-50°	1628.6	13.9
50°-60°	2815.2	24.1
60°-70°	3215.9	27.5
70°-80°	1340.7	11.5
80°-90°	142.2	1.2
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°	11695.0	100.0
0°-180°	11695.0	100.0

**Coefficient of Utilization**

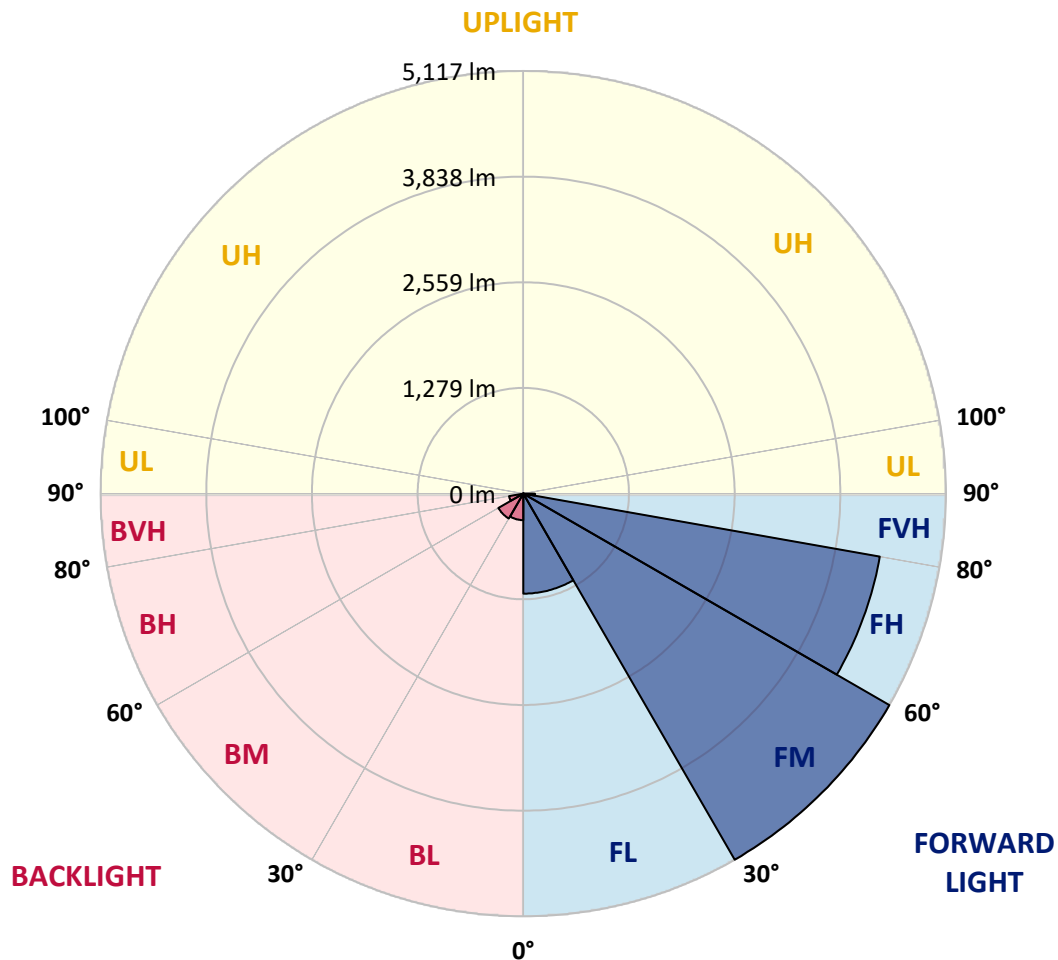


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1210.7	10.4			
FM (30°-60°)	5117.0	43.8			
FH (60°-80°)	4382.1	37.5			G2/5000
FVH (80°-90°)	141.1	1.2			G2/225
BL (0°-30°)	320.5	2.7	B1/500		
BM (30°-60°)	348.0	3.0	B1/1000		
BH (60°-80°)	174.5	1.5	B1/500		G1/500
BVH (80°-90°)	1.0	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2
2.5°	3598.1	3603.5	3583.2	3566.8	3524.6	3479.3	3419.1	3387.1	3332.3	3237.8	3133.1
5°	3682.5	3689.5	3686.4	3682.5	3666.0	3622.3	3545.7	3517.6	3437.1	3283.1	3094.0
7.5°	3494.9	3520.7	3523.8	3554.3	3583.2	3587.1	3558.2	3537.1	3462.9	3282.3	3024.4
10°	3246.4	3263.6	3288.6	3323.7	3393.3	3451.1	3479.3	3476.1	3433.2	3258.1	2943.2
12.5°	2995.5	3004.9	3043.2	3103.4	3188.5	3287.0	3362.0	3376.9	3377.7	3229.2	2875.2
15°	2779.8	2775.9	2805.6	2875.2	2994.7	3118.2	3252.6	3276.1	3313.6	3201.1	2811.9
17.5°	2595.4	2615.7	2620.4	2697.0	2807.2	2967.4	3138.5	3180.0	3255.0	3176.8	2759.5
20°	2481.3	2492.2	2502.4	2545.4	2644.6	2813.4	3031.5	3088.5	3200.3	3154.9	2700.9
22.5°	2447.7	2454.7	2446.1	2459.4	2529.7	2679.8	2915.0	2990.8	3147.9	3134.6	2653.2
25°	2473.5	2480.5	2460.2	2444.6	2468.8	2571.2	2802.5	2894.7	3105.7	3130.7	2617.3
27.5°	2536.0	2549.3	2521.1	2493.0	2478.9	2512.5	2714.2	2821.2	3076.8	3149.5	2600.9
30°	2633.7	2641.5	2620.4	2586.0	2554.0	2520.4	2668.1	2770.4	3069.0	3193.2	2599.3
32.5°	2740.0	2756.4	2744.7	2722.0	2680.6	2600.9	2681.3	2772.0	3087.7	3256.5	2618.8
35°	2871.3	2890.0	2901.0	2896.3	2843.1	2743.9	2765.8	2842.3	3137.7	3373.0	2672.0
37.5°	3000.2	3016.6	3078.4	3099.5	3052.6	2958.8	2929.9	2980.7	3247.9	3525.4	2768.1
40°	3147.9	3169.8	3256.5	3337.0	3314.4	3215.9	3162.8	3205.0	3416.7	3755.1	2950.2
42.5°	3289.4	3328.4	3460.5	3602.7	3623.8	3513.7	3478.5	3492.6	3666.8	4085.7	3204.2
45°	3490.2	3526.9	3697.3	3890.3	3989.6	3903.6	3867.7	3865.3	4009.9	4550.7	3616.0
47.5°	3780.1	3813.0	4013.8	4204.5	4381.1	4392.8	4324.9	4348.3	4441.3	5094.6	4120.9
50°	4135.7	4213.1	4345.2	4543.7	4779.7	4970.4	4991.5	4960.2	5039.9	5724.5	4727.3
52.5°	4652.3	4682.0	4803.1	4966.5	5243.1	5566.7	5817.5	5774.6	5749.5	6324.7	5340.0
55°	5037.6	5077.4	5265.8	5490.1	5895.7	6322.4	6866.3	6881.2	6565.4	6901.5	5939.5
57.5°	4921.1	4982.1	5267.4	5718.3	6610.0	7389.9	7794.7	7804.9	7320.4	7461.8	6616.2
60°	4323.3	4352.2	4760.9	5362.7	6670.9	8546.6	9111.6	9029.5	8088.6	8088.6	7214.1
62.5°	3065.9	3111.2	3442.5	4328.0	6024.6	8948.3	10688.7	10519.1	9146.8	8688.0	7570.5
65°	1959.2	1915.5	2135.1	2732.1	4488.2	8355.1	12061.8	12071.9	10142.4	8927.9	7375.9
67°	1419.2	1402.0	1465.3	1867.8	3043.2	7023.4	12090.7	12626.0	10714.5	8776.3	6753.8
67.5°	1298.1	1311.4	1357.5	1684.9	2765.0	6391.2	11959.4	12593.2	10843.4	8684.9	6528.7
70°	983.9	961.3	1011.3	1191.8	1657.6	4031.8	10287.8	11549.9	10683.2	7777.6	5216.6
72.5°	723.7	721.3	790.9	974.5	1276.2	2147.6	7722.8	9260.9	8727.9	5922.3	3284.7
75°	488.4	510.3	621.3	814.3	1156.6	1392.6	5265.0	6718.6	6059.0	3362.8	1342.6
77.5°	278.2	279.8	400.1	654.1	1038.6	1120.7	3119.8	4280.3	3207.3	1118.3	398.6
80°	120.4	132.1	198.5	475.2	861.2	992.5	1788.9	2352.3	1297.3	236.8	128.9
82.5°	44.5	52.4	87.5	292.3	628.3	817.5	1080.8	1123.0	440.0	83.6	80.5
85°	0.0	1.6	32.0	136.8	327.5	365.0	722.1	665.8	194.6	39.9	52.4
87.5°	0.0	0.0	0.0	14.1	43.0	136.0	224.3	250.1	46.9	14.1	12.5
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°	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2	3100.2
2.5°	3076.8	3026.0	2898.6	2771.2	2676.7	2597.7	2478.9	2414.1	2379.7	2328.9	2332.0
5°	2999.4	2896.3	2672.0	2439.9	2252.3	2069.4	1850.6	1762.3	1688.1	1645.9	1617.7
7.5°	2884.5	2732.1	2400.0	2090.5	1802.2	1482.5	1242.6	1082.4	974.5	934.7	896.4
10°	2758.7	2556.3	2124.1	1695.1	1295.0	965.2	762.0	615.0	562.7	514.2	518.9
12.5°	2642.3	2396.1	1870.9	1337.9	907.3	613.5	478.3	418.1	400.9	395.4	395.4
15°	2546.9	2242.9	1599.0	1005.8	622.1	440.8	382.9	366.5	360.3	358.7	358.7
17.5°	2445.3	2097.6	1353.6	743.2	452.5	368.9	349.3	338.4	336.0	334.5	334.5
20°	2354.7	1951.4	1120.7	553.3	365.7	332.1	319.6	312.6	310.3	308.7	309.5
22.5°	2268.7	1821.7	901.9	418.1	322.0	302.4	289.9	282.9	278.2	274.3	275.1
25°	2192.1	1696.7	725.2	342.3	289.9	272.7	260.2	250.1	239.9	235.2	234.5
27.5°	2138.2	1587.2	565.0	293.1	261.0	242.3	226.6	214.1	200.8	193.8	192.3
30°	2093.7	1476.3	447.0	258.7	232.1	214.1	194.6	176.6	162.6	155.5	152.4
32.5°	2064.7	1370.8	352.5	230.5	207.9	186.0	164.1	146.1	130.5	123.5	121.9
35°	2060.1	1282.5	288.4	207.1	186.0	162.6	139.9	120.4	107.1	100.0	98.5
37.5°	2093.7	1214.5	241.5	188.3	168.0	142.2	117.2	99.3	87.5	82.1	81.3
40°	2183.5	1171.5	209.4	172.7	151.6	123.5	100.0	84.4	72.7	67.2	67.2
42.5°	2354.7	1173.0	188.3	157.9	135.2	105.5	85.2	70.3	60.2	55.5	53.9
45°	2622.0	1226.2	170.4	143.0	119.6	91.4	72.7	57.8	47.7	43.8	43.8
47.5°	2979.9	1331.7	154.7	128.2	105.5	78.2	61.7	46.9	38.3	34.4	34.4
50°	3448.0	1501.3	141.5	115.7	93.8	67.2	50.0	38.3	29.7	26.6	25.8
52.5°	3937.2	1710.7	125.8	104.7	80.5	57.0	40.6	29.7	22.7	20.3	19.5
55°	4477.3	1915.5	111.0	93.8	65.6	47.7	32.0	23.4	16.4	14.1	14.1
57.5°	5022.0	2116.3	93.0	78.2	51.6	35.2	25.0	17.2	10.9	8.6	8.6
60°	5483.1	2181.2	78.9	63.3	39.1	25.0	18.0	10.9	6.3	3.9	3.9
62.5°	5546.4	1962.4	66.4	48.5	28.1	17.2	9.4	6.3	2.3	1.6	1.6
65°	5202.5	1594.3	55.5	36.7	18.8	8.6	3.9	2.3	0.8	0.0	0.0
67°	4661.7	1292.6	45.3	27.4	13.3	5.5	2.3	0.8	0.0	0.0	0.0
67.5°	4523.4	1232.4	43.8	25.8	11.7	4.7	1.6	0.8	0.0	0.0	0.0
70°	3549.6	923.0	31.3	15.6	7.0	3.1	0.0	0.0	0.0	0.0	0.0
72.5°	2206.2	522.0	22.7	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
75°	833.9	182.9	15.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	259.5	69.6	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.5	26.6	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.9	10.9	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.6	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	1.6	0.8	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)