

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: P452313

Luminaire Tested: **GALN-SA3B-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 12661 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

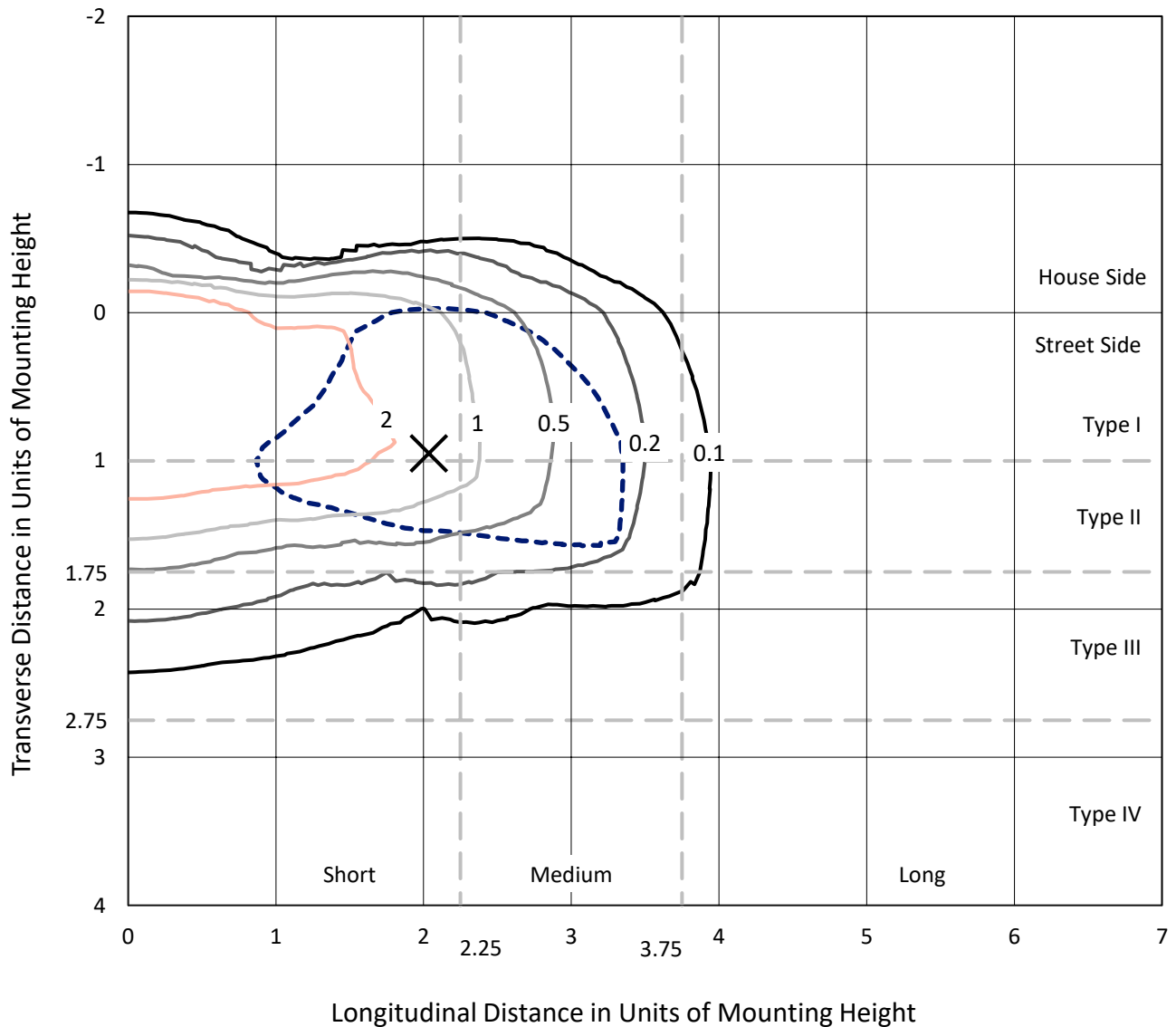
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

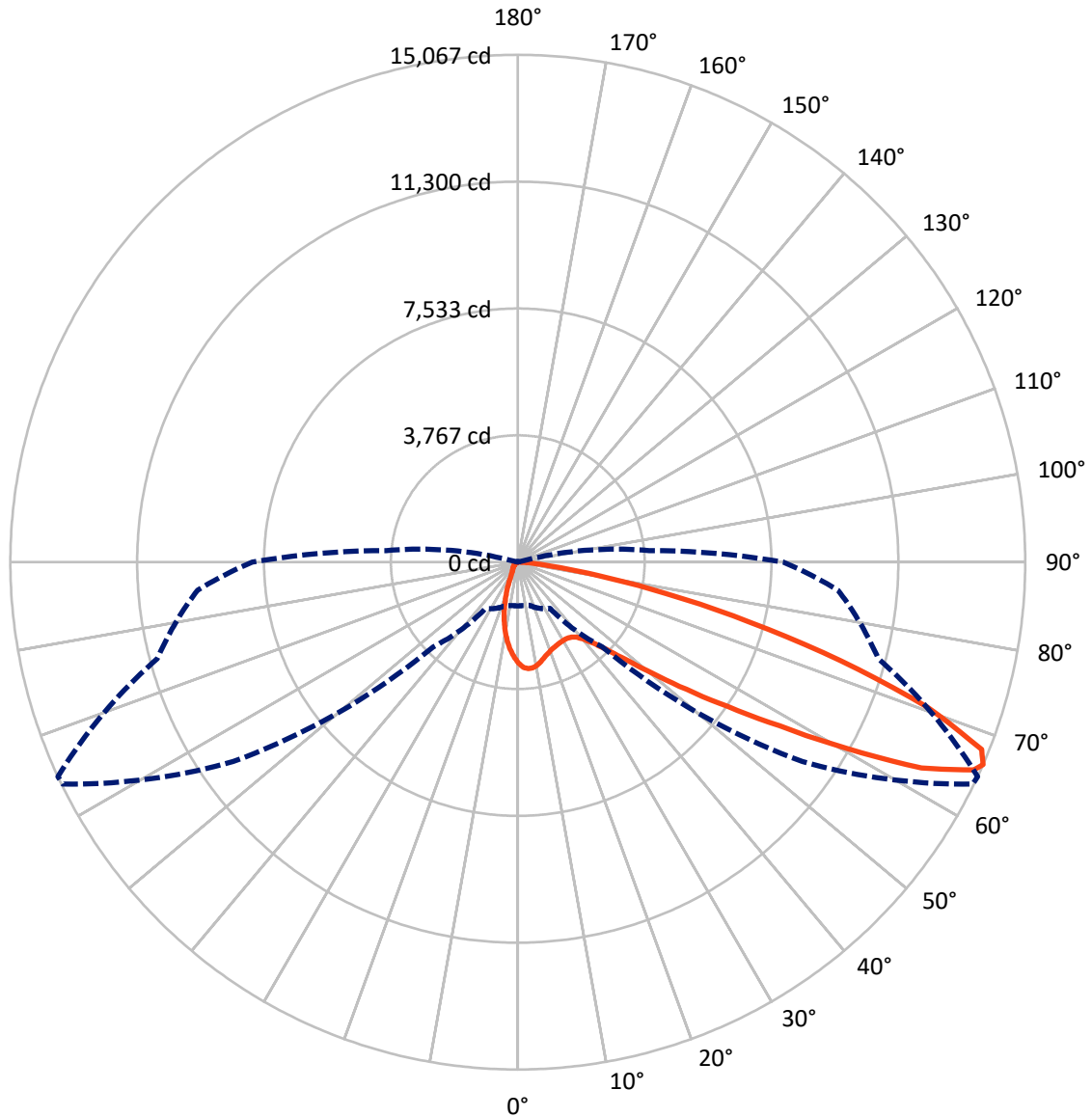
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1309.3	0.0	1309.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	11351.7	0.0	11351.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	12661.0	0.0	12661.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.5	1.9
10°-20°	535.0	4.2
20°-30°	766.4	6.1
30°-40°	1119.4	8.8
40°-50°	1877.1	14.8
50°-60°	3132.5	24.7
60°-70°	3325.1	26.3
70°-80°	1505.9	11.9
80°-90°	154.1	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°	12661.0	100.0
0°-180°	12661.0	100.0

**Coefficient of Utilization**



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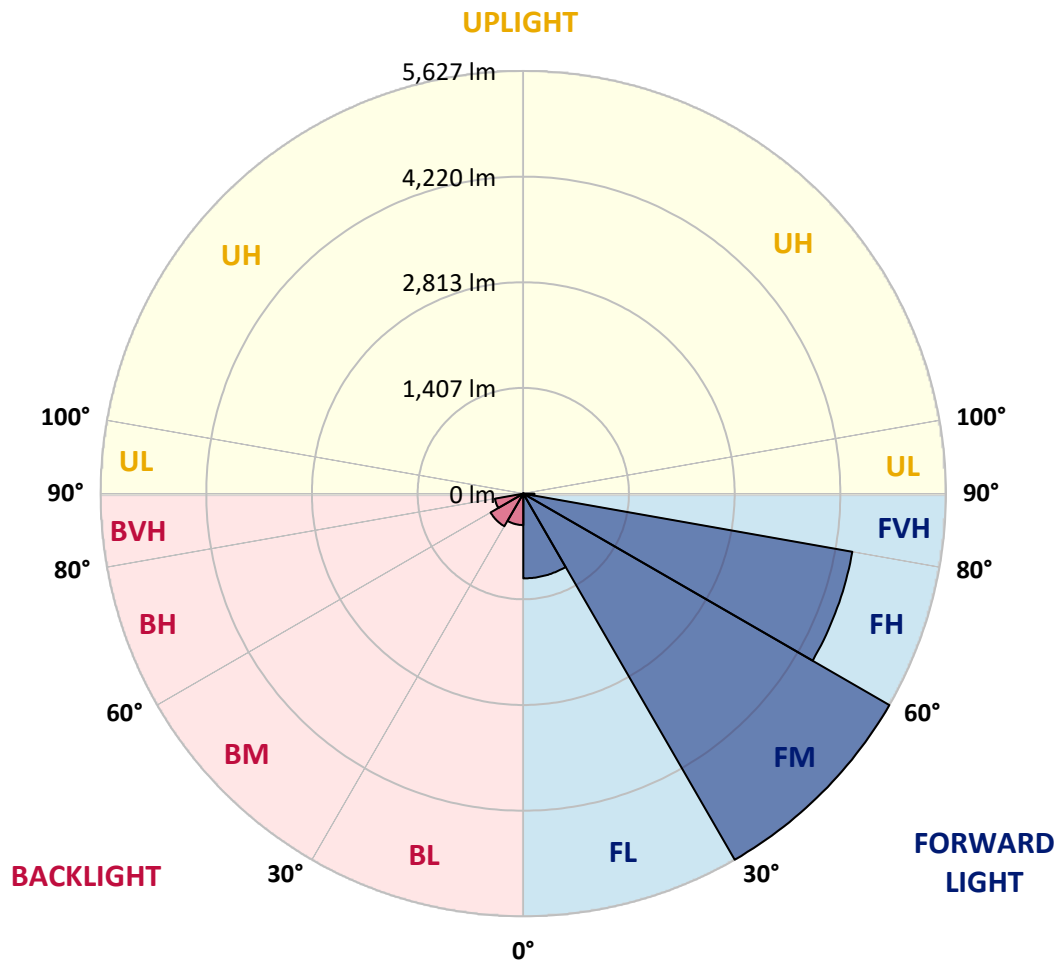
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.1	8.9			
FM (30°-60°)	5626.8	44.4			
FH (60°-80°)	4447.5	35.1			G2/5000
FVH (80°-90°)	149.2	1.2			G2/225
BL (0°-30°)	418.8	3.3	B1/500		
BM (30°-60°)	502.1	4.0	B1/1000		
BH (60°-80°)	383.4	3.0	B1/500		G1/500
BVH (80°-90°)	4.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4
2.5°	3164.0	3167.4	3171.7	3177.7	3182.0	3169.1	3151.2	3130.7	3126.4	3082.8	3029.8
5°	2994.7	2999.8	3037.5	3058.0	3104.2	3146.1	3172.6	3176.0	3174.3	3133.2	3048.6
7.5°	2753.5	2768.1	2804.9	2840.8	2927.1	3006.7	3100.7	3166.6	3170.9	3159.7	3054.6
10°	2557.7	2567.1	2585.9	2656.9	2728.7	2850.2	2981.9	3105.9	3116.1	3160.6	3049.4
12.5°	2404.6	2418.3	2441.4	2496.1	2582.5	2697.1	2846.8	3013.5	3034.9	3144.3	3034.9
15°	2297.8	2304.6	2327.7	2381.6	2465.4	2571.4	2722.8	2916.9	2935.7	3123.0	3032.3
17.5°	2247.3	2255.0	2271.2	2314.0	2383.3	2481.6	2629.5	2839.1	2863.0	3109.3	3041.7
20°	2261.0	2267.8	2268.7	2290.9	2337.9	2420.9	2561.1	2766.4	2797.2	3100.7	3057.1
22.5°	2338.8	2339.7	2329.4	2319.1	2335.4	2395.2	2519.2	2720.2	2751.8	3099.0	3075.1
25°	2455.1	2457.7	2440.6	2404.6	2372.2	2402.9	2509.8	2690.3	2718.5	3094.7	3086.2
27.5°	2615.9	2615.0	2609.9	2550.0	2457.7	2437.1	2517.5	2674.0	2698.0	3082.8	3090.5
30°	2840.8	2833.9	2822.8	2755.3	2614.2	2520.1	2550.0	2663.8	2686.0	3065.7	3079.4
32.5°	3062.2	3087.9	3086.2	3022.1	2845.9	2668.0	2617.6	2677.4	2693.7	3054.6	3063.1
35°	3320.5	3319.6	3385.5	3361.5	3155.5	2857.0	2733.0	2722.8	2735.6	3062.2	3055.4
37.5°	3559.9	3582.2	3684.8	3709.6	3521.5	3123.8	2896.4	2820.2	2824.5	3114.4	3074.2
40°	3858.4	3901.1	4054.2	4137.2	3971.3	3519.7	3137.5	2999.0	2999.8	3242.7	3145.2
42.5°	4243.2	4310.8	4453.6	4592.1	4503.2	3988.4	3499.2	3282.0	3280.3	3468.4	3307.7
45°	4711.0	4758.0	4920.5	5140.2	5083.8	4642.5	4026.0	3720.7	3698.5	3838.7	3595.9
47.5°	5114.6	5178.7	5343.8	5594.3	5850.9	5441.2	4655.4	4323.6	4309.0	4427.9	4090.1
50°	5290.7	5347.2	5520.8	5872.2	6493.9	6489.6	5592.6	5203.5	5178.7	5242.9	4854.6
52.5°	5097.5	5150.5	5325.8	5763.6	6796.6	7767.2	6950.6	6307.5	6277.6	6195.5	5767.9
55°	4435.6	4479.2	4738.3	5241.1	6680.3	8618.9	8821.6	7671.4	7555.1	7236.2	6801.8
57.5°	3531.7	3509.5	3670.3	4254.3	5997.9	8904.6	10742.2	9370.6	9162.8	8135.8	7676.6
60°	2447.4	2515.8	2580.8	2965.6	4510.0	8409.4	11936.9	11506.7	11233.1	9020.9	8514.6
62.5°	1799.2	1844.5	1887.3	2065.2	2835.6	6714.5	12148.1	13701.0	13458.2	9960.6	9314.2
65°	1422.9	1426.4	1443.5	1618.8	1868.5	4366.3	11133.0	14938.4	14876.0	10865.4	9638.3
66°	1296.4	1297.2	1323.8	1511.9	1676.9	3555.7	10319.8	15032.5	15066.7	11082.6	9543.3
67.5°	1133.1	1129.6	1168.1	1358.8	1527.3	2563.7	8864.4	14651.1	14853.7	11249.3	9202.1
70°	878.2	874.0	921.0	1139.9	1406.7	1710.3	5891.9	12579.9	12906.6	10908.1	8141.8
72.5°	584.9	588.3	668.7	899.6	1342.6	1505.9	3544.5	9569.9	10031.6	9008.0	6405.0
75°	341.2	347.2	438.7	668.7	1165.6	1435.8	2006.2	6824.0	7119.0	6220.3	3990.1
77.5°	178.7	181.3	245.4	441.3	893.6	1333.2	1336.6	4359.5	4498.0	3022.9	1579.4
80°	94.9	92.4	131.7	265.9	614.8	1170.7	1084.3	2308.0	2399.5	897.9	399.3
82.5°	35.9	39.3	70.1	174.4	363.4	840.6	933.8	1020.2	988.5	197.5	167.6
85°	6.8	8.6	29.9	103.5	183.0	351.5	688.4	500.3	463.5	74.4	96.6
87.5°	0.9	1.7	8.6	24.8	26.5	118.9	203.5	138.5	119.7	27.4	40.2
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°	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4
2.5°	3004.1	2981.0	2904.0	2827.9	2750.1	2680.0	2632.1	2554.3	2534.6	2506.4	2490.2
5°	2998.1	2944.2	2796.3	2634.7	2484.2	2321.7	2197.7	2078.0	2013.9	1981.4	1969.4
7.5°	2981.0	2895.5	2664.6	2411.5	2170.3	1927.5	1716.3	1555.5	1452.0	1381.0	1333.2
10°	2946.8	2828.8	2511.5	2163.5	1799.2	1478.5	1210.9	1007.4	850.0	800.4	802.1
12.5°	2911.7	2754.4	2340.5	1888.1	1436.6	1032.2	748.2	587.5	512.2	487.4	482.3
15°	2879.3	2683.4	2172.9	1621.3	1069.8	668.7	482.3	425.9	405.3	401.1	400.2
17.5°	2862.1	2617.6	1994.2	1316.1	746.5	454.1	386.5	371.1	365.1	360.9	359.2
20°	2847.6	2560.3	1823.2	1030.4	510.5	372.0	346.3	331.8	321.5	317.3	314.7
22.5°	2837.3	2501.3	1646.1	797.8	390.8	330.1	307.0	288.2	273.6	268.5	265.1
25°	2822.0	2436.3	1467.4	583.2	329.2	293.3	266.8	244.6	225.8	216.3	214.6
27.5°	2799.7	2362.7	1271.6	431.8	294.2	260.8	228.3	201.0	182.1	171.9	172.7
30°	2763.8	2285.8	1075.8	342.9	265.9	227.5	192.4	165.9	147.9	140.2	139.4
32.5°	2721.0	2192.6	896.2	294.2	240.3	197.5	160.8	137.7	124.0	118.0	117.2
35°	2680.9	2098.5	713.2	264.2	213.8	170.2	135.1	115.4	105.2	100.1	100.9
37.5°	2658.6	2014.7	555.8	240.3	192.4	146.2	116.3	99.2	89.8	85.5	84.7
40°	2673.2	1946.3	442.1	218.9	168.5	125.7	100.1	85.5	76.1	70.1	70.1
42.5°	2741.6	1916.4	356.6	198.4	146.2	108.6	87.2	73.5	63.3	57.3	58.1
45°	2950.2	1948.0	298.4	179.6	125.7	94.1	75.3	60.7	51.3	47.0	46.2
47.5°	3296.6	2066.9	258.3	159.9	107.7	80.4	63.3	50.5	41.0	37.6	36.8
50°	3902.0	2312.3	228.3	140.2	91.5	68.4	52.2	40.2	32.5	29.1	29.1
52.5°	4734.9	2847.6	206.9	118.0	77.0	58.1	42.8	32.5	25.7	23.1	22.2
55°	5605.4	3412.0	195.8	99.2	64.1	47.9	34.2	25.7	19.7	17.1	16.2
57.5°	6442.6	3855.0	183.0	80.4	51.3	36.8	26.5	19.7	13.7	12.0	11.1
60°	7245.6	4213.3	155.6	64.1	40.2	26.5	19.7	13.7	9.4	7.7	7.7
62.5°	7963.9	4421.9	122.3	51.3	30.8	18.8	12.8	10.3	6.8	5.1	5.1
65°	8047.7	4150.8	92.4	39.3	22.2	12.0	7.7	7.7	5.1	3.4	3.4
66°	7879.2	3920.8	81.2	35.9	19.7	10.3	6.8	6.0	4.3	2.6	2.6
67.5°	7503.0	3528.3	70.1	30.8	16.2	7.7	5.1	5.1	3.4	1.7	1.7
70°	6482.8	2881.8	55.6	23.1	12.0	6.0	3.4	3.4	2.6	1.7	1.7
72.5°	4941.0	2151.5	45.3	17.1	8.6	4.3	2.6	2.6	2.6	1.7	1.7
75°	2980.2	1158.7	35.1	12.8	7.7	3.4	1.7	2.6	3.4	2.6	1.7
77.5°	1098.0	394.2	27.4	10.3	6.0	3.4	1.7	1.7	3.4	2.6	2.6
80°	269.4	102.6	19.7	8.6	6.0	3.4	1.7	1.7	3.4	3.4	3.4
82.5°	124.9	43.6	13.7	7.7	6.0	3.4	1.7	1.7	2.6	3.4	3.4
85°	71.8	20.5	11.1	8.6	6.0	3.4	1.7	1.7	2.6	3.4	3.4
87.5°	29.1	10.3	10.3	8.6	6.8	4.3	1.7	1.7	1.7	2.6	2.6
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)