

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: P458667

Luminaire Tested: **GALN-SA2B-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458667  
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-SA2B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA 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: 10565 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

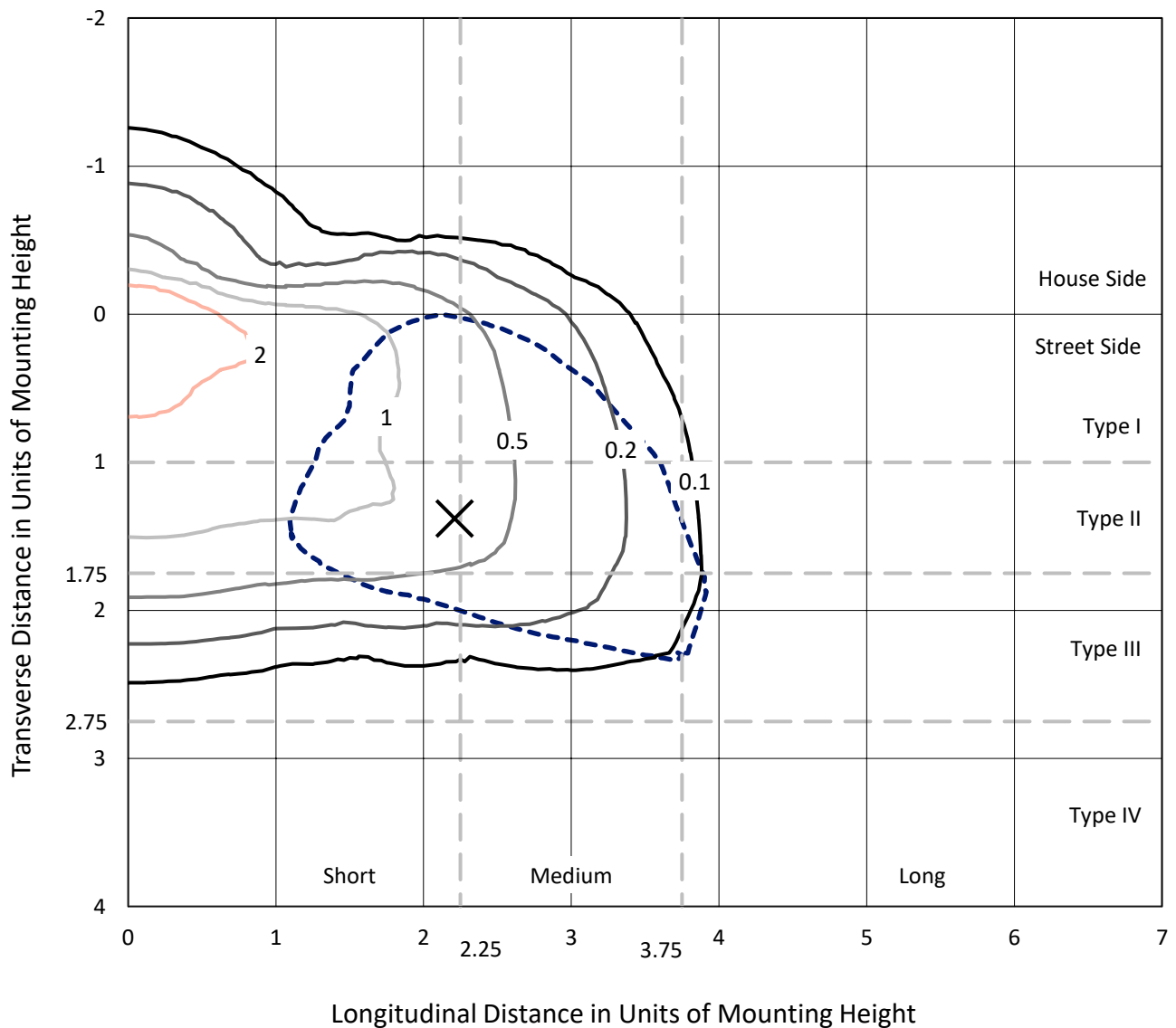
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

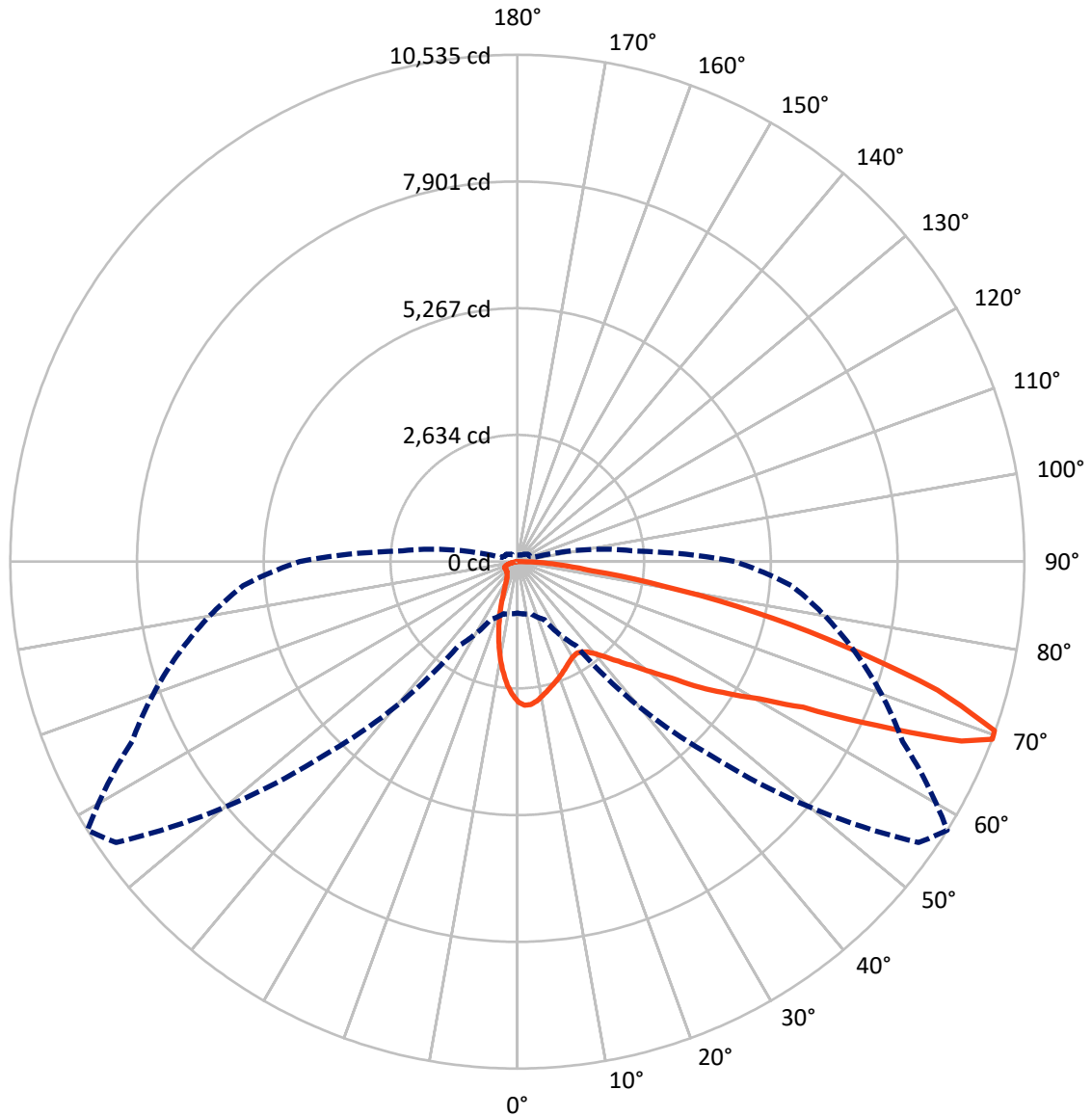
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1548.3	0.0	1548.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	9016.7	0.0	9016.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	10565.0	0.0	10565.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.9	2.3
10°-20°	544.4	5.2
20°-30°	703.4	6.7
30°-40°	913.6	8.6
40°-50°	1328.2	12.6
50°-60°	2119.4	20.1
60°-70°	2831.3	26.8
70°-80°	1632.1	15.4
80°-90°	244.5	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°	10565.0	100.0
0°-180°	10565.0	100.0

**Coefficient of Utilization**

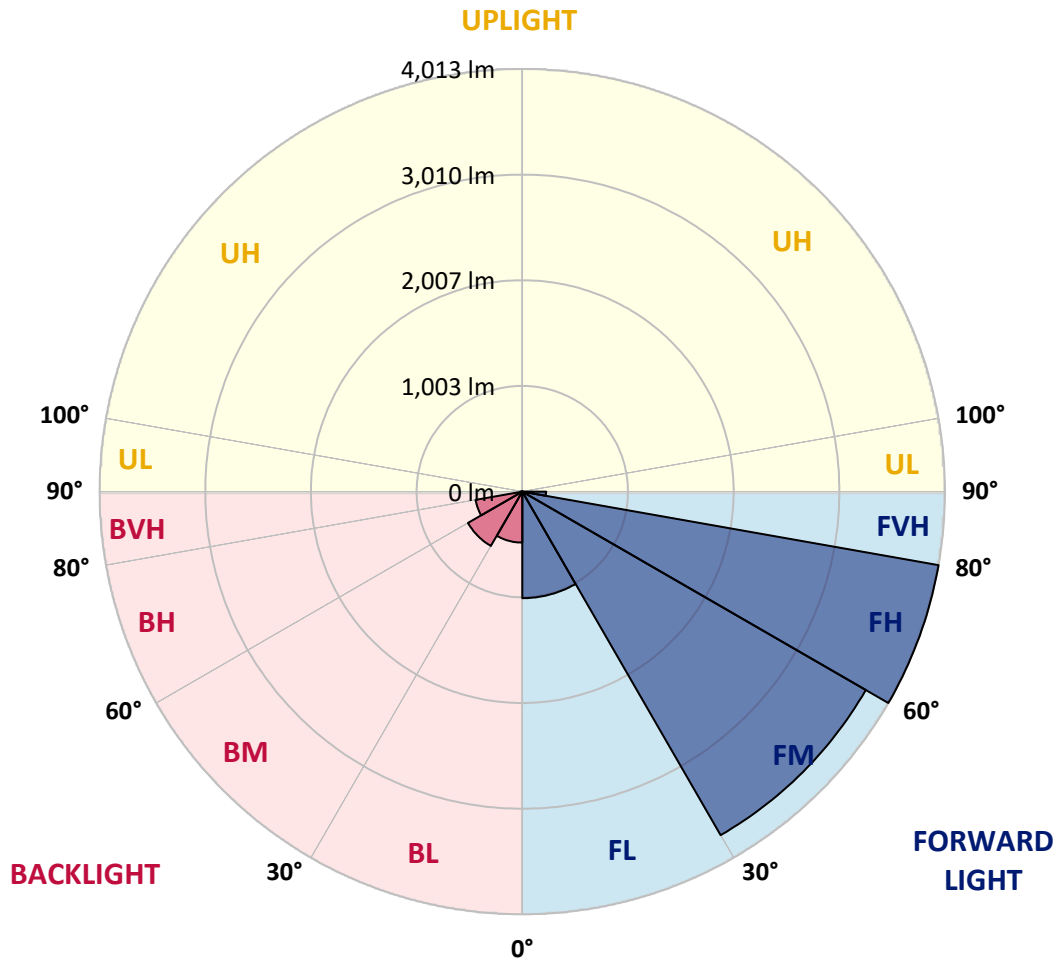


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.9	9.6			
FM (30°-60°)	3765.9	35.6			
FH (60°-80°)	4013.2	38.0			G2/5000
FVH (80°-90°)	225.7	2.1			G3/500
BL (0°-30°)	483.9	4.6	B1/500		
BM (30°-60°)	595.4	5.6	B1/1000		
BH (60°-80°)	450.2	4.3	B1/500		G1/500
BVH (80°-90°)	18.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5
2.5°	3028.0	3036.2	3033.9	3030.9	3026.2	3013.2	2992.0	2988.5	2974.9	2946.1	2910.1
5°	2981.4	2988.5	2989.1	2993.2	2999.1	2996.7	2981.4	2979.6	2959.6	2920.7	2860.6
7.5°	2821.7	2831.2	2851.8	2874.8	2895.4	2914.8	2919.5	2922.5	2910.1	2865.3	2785.2
10°	2642.0	2651.5	2660.9	2695.1	2745.7	2794.0	2834.1	2839.4	2842.4	2801.1	2703.3
12.5°	2442.9	2462.3	2482.4	2533.0	2600.8	2676.8	2747.5	2758.7	2778.7	2747.5	2632.6
15°	2273.8	2293.8	2322.7	2368.0	2449.9	2559.5	2659.1	2677.4	2716.9	2700.9	2566.6
17.5°	2156.5	2163.6	2183.6	2235.5	2323.9	2439.3	2572.5	2609.0	2672.1	2668.0	2510.0
20°	2064.0	2072.8	2085.2	2117.0	2209.0	2330.9	2491.8	2538.9	2624.4	2638.5	2454.1
22.5°	2025.1	2031.6	2029.8	2046.9	2109.4	2231.9	2409.9	2465.9	2581.9	2618.5	2402.2
25°	2027.5	2033.4	2024.5	2020.4	2057.5	2144.7	2324.4	2395.7	2547.8	2604.9	2355.1
27.5°	2067.0	2071.1	2054.6	2038.1	2041.0	2090.5	2253.7	2332.7	2518.9	2610.8	2315.6
30°	2120.0	2127.6	2117.0	2097.0	2075.2	2077.6	2208.4	2286.1	2505.3	2631.4	2296.7
32.5°	2188.3	2195.4	2190.7	2174.8	2146.5	2115.3	2197.2	2269.1	2506.5	2673.3	2292.6
35°	2260.2	2274.4	2282.0	2280.8	2257.9	2203.7	2241.4	2300.9	2534.8	2743.4	2316.8
37.5°	2341.5	2353.3	2386.3	2407.5	2386.3	2323.3	2340.9	2382.2	2597.2	2844.7	2369.8
40°	2420.5	2438.2	2486.5	2552.5	2544.2	2488.8	2493.0	2520.1	2707.4	2995.6	2473.5
42.5°	2503.0	2524.2	2608.4	2706.3	2725.7	2682.7	2693.9	2718.0	2864.2	3204.7	2651.5
45°	2609.0	2634.4	2738.1	2860.0	2936.6	2910.1	2941.9	2953.7	3073.9	3476.9	2886.0
47.5°	2745.7	2775.2	2903.0	3055.1	3163.5	3187.6	3243.0	3236.0	3333.8	3799.2	3190.0
50°	2976.1	2992.6	3113.4	3268.4	3417.4	3526.4	3586.5	3597.7	3656.1	4112.7	3530.0
52.5°	3250.1	3264.8	3352.0	3487.5	3674.3	3905.3	4053.8	4017.3	4031.4	4494.5	3927.7
55°	3558.3	3583.0	3638.4	3728.5	3970.7	4310.7	4608.8	4617.7	4460.9	4859.8	4308.9
57.5°	3796.9	3838.7	3933.6	4062.0	4369.0	4761.4	5162.1	5168.0	4967.6	5249.9	4729.6
60°	3676.7	3726.2	3943.0	4255.9	4891.6	5548.0	5823.2	5789.6	5460.8	5694.1	5242.8
62.5°	3158.2	3167.0	3482.2	3971.3	5052.5	6600.4	6807.2	6665.2	6119.0	6257.4	5764.3
65°	2044.0	2101.7	2351.5	3036.8	4524.0	7184.3	8531.2	8203.0	7041.7	6896.7	6200.9
67.5°	1290.4	1275.6	1379.3	1734.1	3111.6	6669.9	10002.5	9950.6	8248.4	7300.3	6096.6
69°	1070.0	1086.5	1121.9	1329.3	2141.2	5694.7	10176.3	10534.5	8833.5	7268.5	5717.7
70°	970.4	978.1	1015.2	1178.4	1652.2	4769.7	9891.1	10518.6	9063.3	7135.4	5443.1
72.5°	770.1	769.5	833.1	980.4	1235.0	2722.8	8121.7	9132.2	8806.4	6515.5	4497.5
75°	585.1	594.5	664.6	829.6	1137.8	1487.8	5667.6	7032.8	7033.4	5146.2	2806.4
77.5°	421.9	427.8	509.7	696.4	1071.8	1206.1	3775.1	5044.2	4742.0	2358.0	882.1
80°	276.3	279.9	342.3	551.5	966.3	1137.8	2238.4	3087.5	2236.7	625.7	291.7
82.5°	151.4	169.1	209.2	357.1	775.4	1051.2	1360.5	1562.6	839.0	278.7	152.0
85°	76.0	80.7	117.8	208.6	506.7	869.7	947.5	896.2	433.1	138.5	79.0
87.5°	22.4	28.3	48.9	80.7	205.6	453.1	527.3	473.1	166.7	50.1	16.5
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°	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5
2.5°	2895.4	2884.8	2837.6	2795.2	2756.3	2715.1	2680.3	2649.7	2652.6	2653.2	2622.0
5°	2829.4	2805.2	2715.7	2632.0	2561.3	2471.7	2395.1	2345.7	2320.9	2287.9	2299.7
7.5°	2739.8	2693.3	2569.0	2429.9	2299.7	2183.6	2057.5	1970.9	1915.5	1861.9	1869.0
10°	2647.3	2572.5	2391.6	2207.8	2039.3	1853.7	1692.8	1554.9	1452.4	1414.1	1388.8
12.5°	2552.5	2454.1	2224.3	1979.8	1747.0	1524.9	1296.9	1149.0	1035.8	975.7	983.4
15°	2465.9	2346.2	2049.9	1751.7	1449.5	1184.9	957.5	816.6	737.7	721.2	730.6
17.5°	2385.7	2229.0	1886.7	1530.2	1177.2	888.5	719.4	639.9	608.1	599.2	598.6
20°	2303.2	2129.4	1703.4	1293.3	917.4	688.8	590.4	553.3	547.4	550.9	551.5
22.5°	2219.6	2006.3	1514.9	1058.2	730.6	563.3	516.2	506.1	510.8	519.1	520.3
25°	2142.4	1897.9	1333.4	852.0	583.3	494.9	472.0	472.0	482.6	494.9	495.5
27.5°	2078.7	1793.0	1152.5	676.4	488.5	445.4	437.8	441.9	456.6	466.1	466.7
30°	2026.3	1695.2	981.6	542.1	429.5	406.0	404.2	411.3	421.9	430.7	431.3
32.5°	1986.8	1609.1	822.0	455.5	388.9	375.9	375.3	380.6	386.5	388.9	391.2
35°	1971.5	1537.8	675.8	400.7	361.8	353.5	353.5	352.9	355.3	356.5	357.7
37.5°	1983.9	1483.0	562.7	365.3	341.7	335.9	332.3	328.8	327.6	327.6	328.2
40°	2036.3	1454.2	478.4	342.3	327.6	318.8	312.3	308.2	304.0	305.2	306.4
42.5°	2147.7	1459.5	421.3	327.0	315.2	302.9	293.4	288.7	285.8	289.3	288.7
45°	2325.0	1512.5	384.8	316.4	302.9	286.9	278.1	273.4	273.4	278.7	280.5
47.5°	2573.1	1613.9	365.3	308.2	293.4	274.6	265.7	262.2	263.4	272.2	272.8
50°	2875.9	1790.0	361.8	304.0	288.7	265.7	255.7	252.2	255.1	264.6	265.7
52.5°	3210.0	2016.9	378.9	304.6	284.6	260.4	247.5	242.2	245.1	252.8	255.1
55°	3606.0	2300.9	423.1	307.0	278.7	257.5	241.6	229.8	233.3	238.6	239.2
57.5°	4010.2	2659.1	500.8	307.6	274.0	252.2	231.6	216.2	216.2	219.8	221.5
60°	4503.9	3049.2	603.4	308.2	274.6	244.5	218.0	200.9	198.6	200.3	200.9
62.5°	4994.2	3375.6	620.4	306.4	280.5	236.9	203.3	185.6	181.5	180.9	179.7
65°	5210.4	3314.9	508.5	298.1	286.9	232.1	191.5	170.9	163.8	161.4	161.4
67.5°	4858.1	2804.1	382.4	286.9	282.8	227.4	180.3	158.5	150.2	145.5	145.5
69°	4526.9	2494.1	343.5	279.3	272.2	219.8	173.2	152.0	142.0	136.7	134.9
70°	4271.2	2280.8	327.0	272.8	262.2	210.9	167.9	147.3	136.1	130.2	129.0
72.5°	3408.6	1789.4	286.4	248.1	223.3	177.4	149.1	132.6	122.0	115.5	113.7
75°	1964.4	969.8	237.5	215.7	179.7	137.9	126.1	115.5	107.2	101.3	99.6
77.5°	604.5	374.7	172.1	170.3	132.0	106.6	100.8	96.6	90.7	84.3	83.1
80°	254.5	190.9	116.7	114.9	87.8	74.2	72.5	71.9	69.5	64.2	62.5
82.5°	139.6	107.8	81.3	70.7	53.0	43.0	44.8	45.4	43.6	38.3	34.8
85°	68.3	58.9	39.5	31.8	24.2	15.3	14.7	17.7	16.5	11.8	13.0
87.5°	13.6	16.5	10.6	4.7	2.4	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)