

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: P454445

Luminaire Tested: **GALN-SA5C-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454445
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-SA5C-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 25849 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

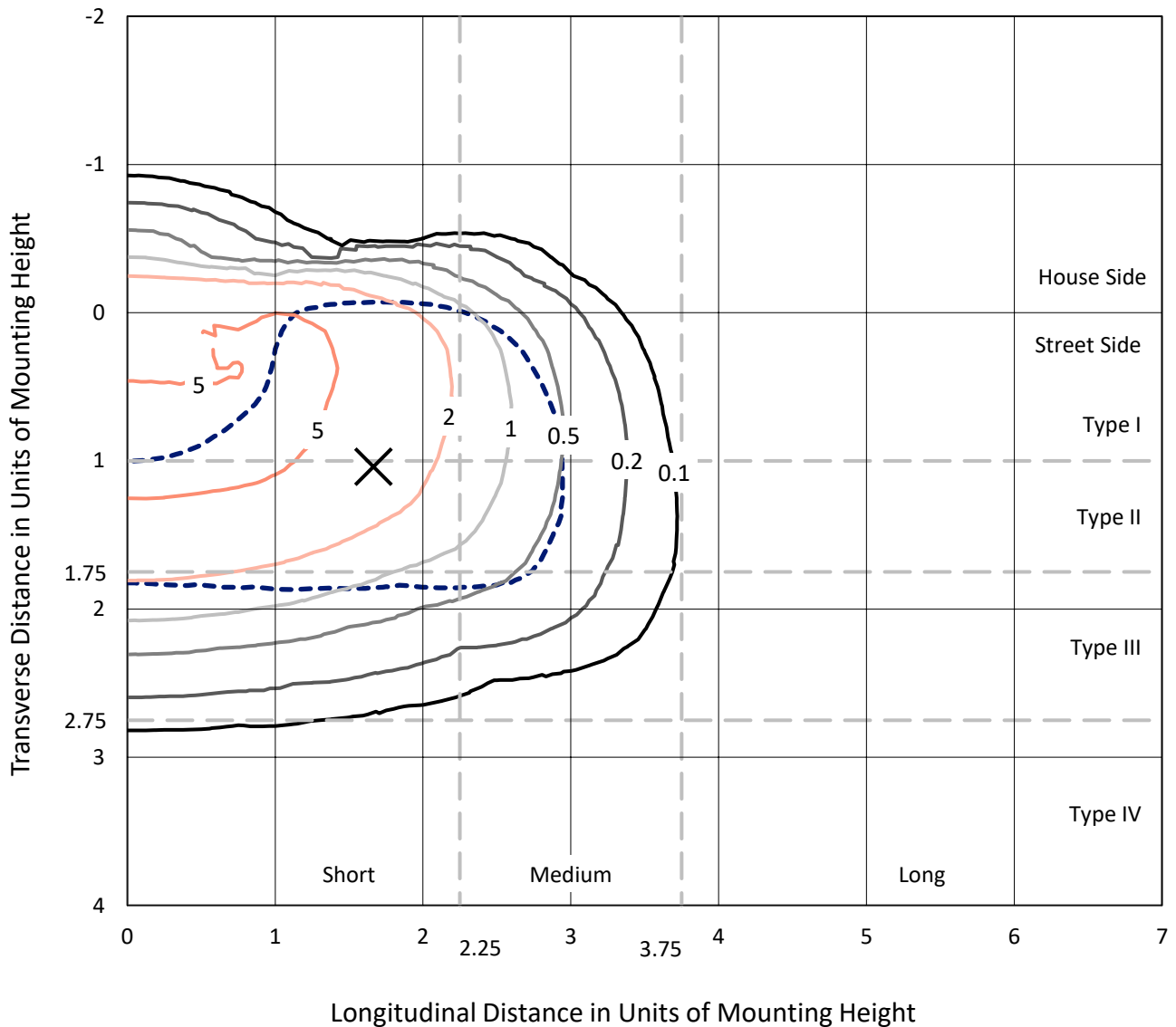
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

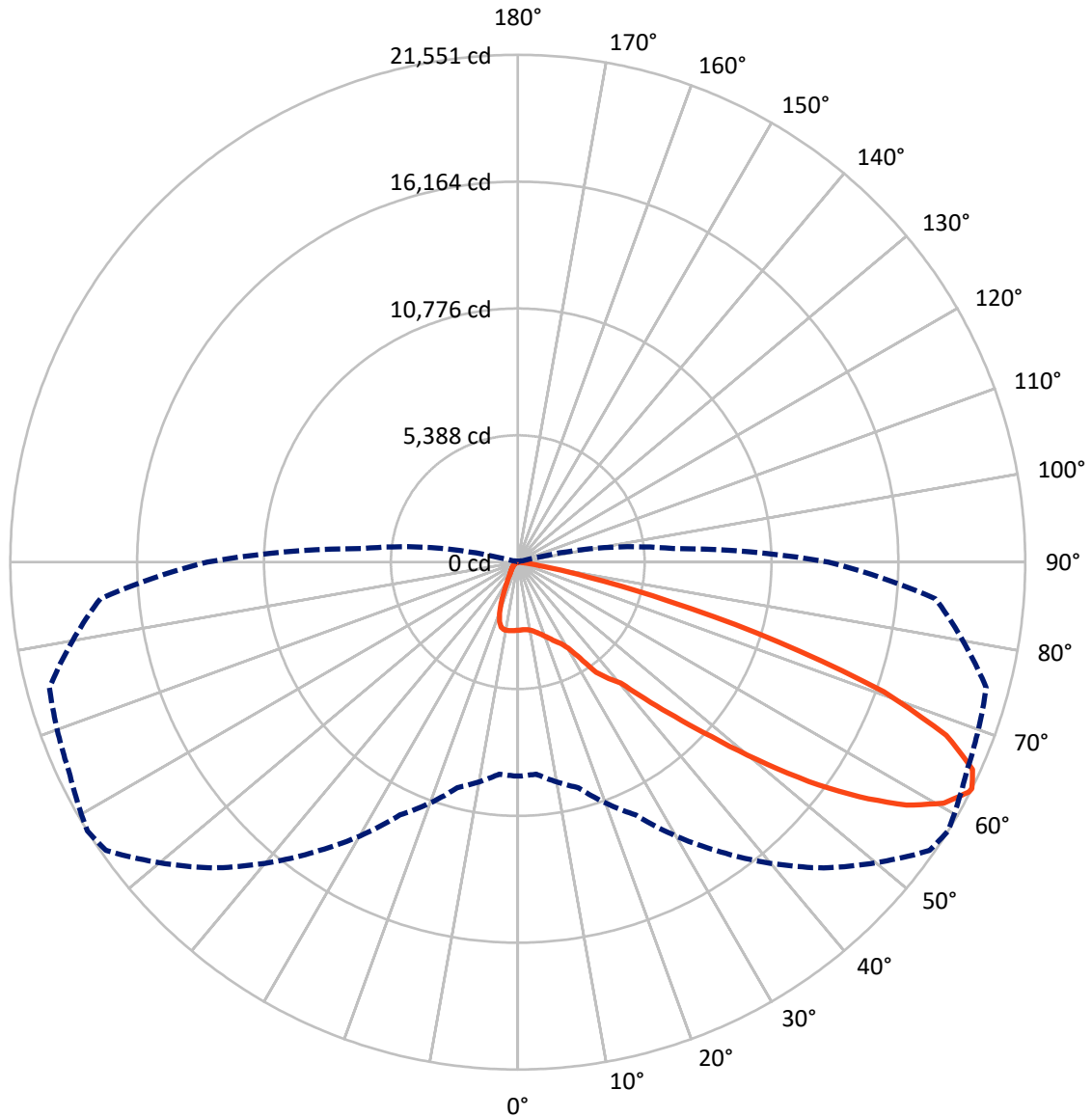
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2676.5	0.0	2676.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23172.5	0.0	23172.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	25849.0	0.0	25849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.9	1.0
10°-20°	737.9	2.9
20°-30°	1280.6	5.0
30°-40°	2353.2	9.1
40°-50°	4429.9	17.1
50°-60°	7577.0	29.3
60°-70°	7255.0	28.1
70°-80°	1850.0	7.2
80°-90°	94.6	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°	25849.0	100.0
0°-180°	25849.0	100.0

Coefficient of Utilization



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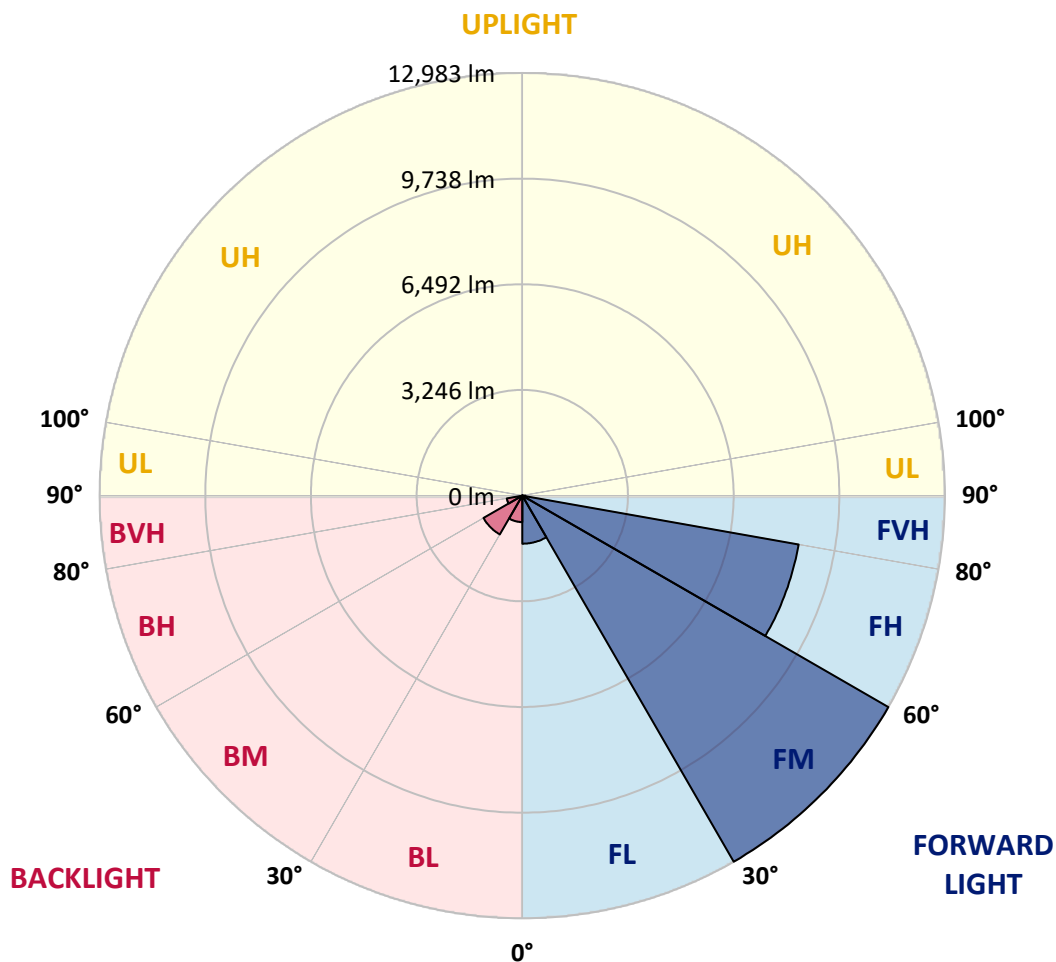
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1477.6	5.7			
FM	(30°-60°)	12983.4	50.2			
FH	(60°-80°)	8620.5	33.3			G4/12000
FVH	(80°-90°)	90.9	0.4			G1/100
BL	(0°-30°)	811.7	3.1	B2/1000		
BM	(30°-60°)	1376.6	5.3	B2/2500		
BH	(60°-80°)	484.5	1.9	B1/500		G1/500
BVH	(80°-90°)	3.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9
2.5°	2821.9	2831.6	2841.4	2845.2	2858.9	2872.5	2882.2	2880.3	2895.8	2903.6	2903.6
5°	2709.0	2709.0	2734.3	2757.7	2796.6	2835.5	2872.5	2880.3	2909.5	2936.7	2946.4
7.5°	2613.7	2619.5	2639.0	2681.8	2734.3	2802.4	2876.4	2893.9	2944.5	3004.8	3030.1
10°	2568.9	2572.8	2598.1	2642.8	2709.0	2802.4	2905.6	2938.7	3016.5	3111.9	3146.9
12.5°	2559.2	2565.0	2590.3	2640.9	2716.8	2829.7	2969.8	3004.8	3117.7	3240.3	3292.9
15°	2576.7	2580.6	2605.9	2660.4	2744.0	2878.3	3055.4	3104.1	3238.4	3380.4	3448.5
17.5°	2639.0	2635.1	2652.6	2697.3	2790.8	2938.7	3158.6	3217.0	3374.6	3569.2	3614.0
20°	2903.6	2878.3	2862.8	2823.8	2860.8	3024.3	3283.1	3368.8	3563.4	3761.9	3793.0
22.5°	3473.8	3417.4	3306.5	3154.7	3037.9	3141.1	3433.0	3532.2	3783.3	3977.9	3977.9
25°	4199.7	4127.7	4016.8	3686.0	3399.9	3333.7	3602.3	3726.8	4022.7	4219.2	4155.0
27.5°	5108.6	5052.2	4836.1	4450.8	4012.9	3670.4	3798.8	3913.7	4234.8	4472.2	4337.9
30°	5848.1	5820.9	5643.8	5299.3	4816.7	4316.5	4164.7	4240.6	4517.0	4791.4	4653.2
32.5°	6472.8	6472.8	6291.8	5970.7	5519.2	5075.5	4785.5	4840.0	5104.7	5421.9	5165.0
35°	7159.8	7136.5	6990.5	6685.0	6179.0	5787.8	5669.1	5743.0	5982.4	6217.9	5585.4
37.5°	7881.8	7874.0	7722.2	7426.4	7013.9	6521.5	6243.2	6262.6	6385.3	6529.3	6077.8
40°	8666.1	8677.8	8479.3	8296.4	7907.1	7403.1	6869.8	6747.2	6862.1	7268.8	6986.6
42.5°	9592.5	9565.2	9479.6	9230.5	8917.2	8615.5	7975.2	7930.5	8031.7	8467.6	8162.1
45°	10668.7	10707.6	10559.7	10421.5	10211.3	9960.3	9425.1	9347.3	9458.2	10135.4	9701.5
47.5°	11746.8	11709.9	11805.2	11779.9	11892.8	11706.0	11233.1	11073.5	11340.1	11982.3	11344.0
50°	12568.1	12609.0	12807.5	13097.5	13582.0	13687.1	13233.7	13179.2	13297.9	13710.5	12813.3
52.5°	13101.3	13237.6	13549.0	14294.3	15168.1	15847.3	15502.9	15473.7	15425.0	15536.0	14218.4
55°	13449.7	13587.9	13994.6	15092.2	16596.6	17700.1	17717.6	17593.0	17271.9	17192.1	15532.1
57.5°	13235.6	13262.9	13842.8	15310.2	17388.7	19021.5	19593.6	19469.1	18875.5	18573.9	16692.0
60°	11896.7	11953.1	12760.8	14485.0	17044.2	19453.5	20837.2	20780.8	20130.8	19790.2	17595.0
62.5°	9524.4	9687.8	10518.8	12441.6	15442.5	18725.7	21341.3	21500.8	20994.9	20525.8	17879.1
63°	9088.4	9035.9	9913.6	11846.1	15018.3	18365.6	21349.0	21551.4	21033.8	20595.9	17801.3
65°	6727.8	6885.4	7455.6	9341.4	12498.0	16690.0	20868.4	21226.4	20889.8	20286.5	16939.1
67.5°	3777.4	3769.7	4400.2	6112.8	8747.9	13091.6	18869.7	19626.7	19556.7	18204.1	14041.3
70°	1848.8	1878.0	2136.9	3168.3	5073.6	9032.0	15680.0	16497.3	16522.6	14298.2	9709.2
72.5°	836.8	850.5	1035.3	1543.3	2607.8	4808.9	10804.9	11585.3	11441.3	9111.8	5361.6
75°	441.8	471.0	570.2	776.5	1257.2	1983.1	5877.3	6632.4	6330.8	4162.8	1973.4
77.5°	326.9	336.7	387.3	494.3	673.4	772.6	2535.8	3016.5	2825.8	1506.3	653.9
80°	239.4	247.2	288.0	350.3	424.3	393.1	955.5	1095.7	982.8	511.8	200.5
82.5°	146.0	147.9	210.2	260.8	266.6	219.9	315.3	338.6	354.2	288.0	109.0
85°	52.5	66.2	142.1	188.8	157.6	110.9	132.3	146.0	159.6	182.9	64.2
87.5°	5.8	7.8	68.1	91.5	44.8	40.9	48.7	54.5	58.4	68.1	31.1
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°	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9
2.5°	2911.4	2919.2	2913.4	2903.6	2901.7	2895.8	2884.2	2884.2	2884.2	2888.1	2884.2
5°	2954.2	2960.1	2946.4	2927.0	2905.6	2878.3	2849.1	2831.6	2829.7	2825.8	2816.1
7.5°	3036.0	3043.7	3012.6	2965.9	2907.5	2841.4	2779.1	2720.7	2693.4	2672.0	2672.0
10°	3154.7	3162.5	3100.2	3016.5	2899.7	2765.5	2617.5	2483.3	2378.2	2329.5	2317.8
12.5°	3296.7	3300.6	3197.5	3051.5	2858.9	2600.0	2284.8	1990.9	1786.5	1693.1	1683.4
15°	3452.4	3425.2	3289.0	3065.2	2742.1	2259.5	1714.5	1354.5	1142.4	1080.1	1103.5
17.5°	3610.1	3559.5	3359.0	3043.7	2479.4	1714.5	1152.1	924.4	858.2	840.7	840.7
20°	3758.0	3687.9	3409.6	2950.3	2024.0	1181.3	854.4	799.9	788.2	776.5	778.5
22.5°	3905.9	3798.8	3454.4	2742.1	1508.3	844.6	764.8	747.3	731.7	716.2	714.2
25°	4049.9	3902.0	3471.9	2356.8	1027.6	725.9	698.7	675.3	644.2	626.7	622.8
27.5°	4199.7	4026.5	3460.2	1870.2	749.3	650.0	622.8	589.7	552.7	521.6	521.6
30°	4487.8	4264.0	3419.4	1344.8	630.5	572.2	537.1	484.6	443.7	412.6	410.6
32.5°	4880.9	4573.4	3279.2	945.8	560.5	504.0	451.5	393.1	350.3	326.9	326.9
35°	5231.2	4884.8	3016.5	696.7	504.0	437.9	373.7	317.2	284.1	268.6	262.7
37.5°	5764.4	5340.2	2654.5	566.3	449.6	379.5	313.3	260.8	233.5	221.9	221.9
40°	6564.3	5896.8	2210.8	496.3	397.0	323.1	260.8	219.9	198.5	184.9	184.9
42.5°	7556.8	6577.9	1761.2	445.7	348.4	278.3	218.0	186.8	167.4	157.6	155.7
45°	8806.2	7296.0	1356.5	399.0	309.4	237.4	184.9	157.6	138.2	132.3	134.3
47.5°	10110.1	7928.5	1050.9	358.1	268.6	200.5	157.6	136.2	122.6	114.8	114.8
50°	11223.3	8364.5	797.9	311.4	237.4	169.3	138.2	122.6	110.9	107.0	105.1
52.5°	12153.6	8491.0	611.1	270.5	208.2	146.0	122.6	110.9	101.2	95.4	95.4
55°	12945.7	8380.0	478.7	227.7	175.2	126.5	109.0	99.3	87.6	81.7	79.8
57.5°	13408.8	8023.9	365.9	188.8	142.1	105.1	95.4	83.7	70.1	60.3	60.3
60°	13642.4	7506.2	280.2	155.7	109.0	83.7	77.8	62.3	48.7	40.9	38.9
62.5°	13362.1	6819.2	212.1	122.6	81.7	62.3	52.5	44.8	31.1	23.4	23.4
63°	13188.9	6620.7	204.3	116.8	75.9	58.4	48.7	40.9	27.2	21.4	19.5
65°	12023.2	5754.7	167.4	93.4	60.3	40.9	33.1	29.2	19.5	9.7	7.8
67.5°	9547.7	4402.1	132.3	70.1	42.8	29.2	19.5	17.5	5.8	0.0	0.0
70°	6455.3	2843.3	103.1	50.6	29.2	17.5	9.7	7.8	1.9	0.0	0.0
72.5°	3366.8	1457.7	79.8	37.0	17.5	11.7	5.8	1.9	0.0	0.0	0.0
75°	1191.0	496.3	58.4	23.4	11.7	5.8	1.9	0.0	0.0	0.0	0.0
77.5°	360.0	184.9	37.0	17.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0
80°	126.5	68.1	21.4	11.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	62.3	33.1	13.6	9.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	35.0	21.4	11.7	9.7	5.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	25.3	15.6	11.7	9.7	7.8	3.9	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)