

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: P454648

Luminaire Tested: **GALN-SA5D-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454648
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-SA5D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 25903 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

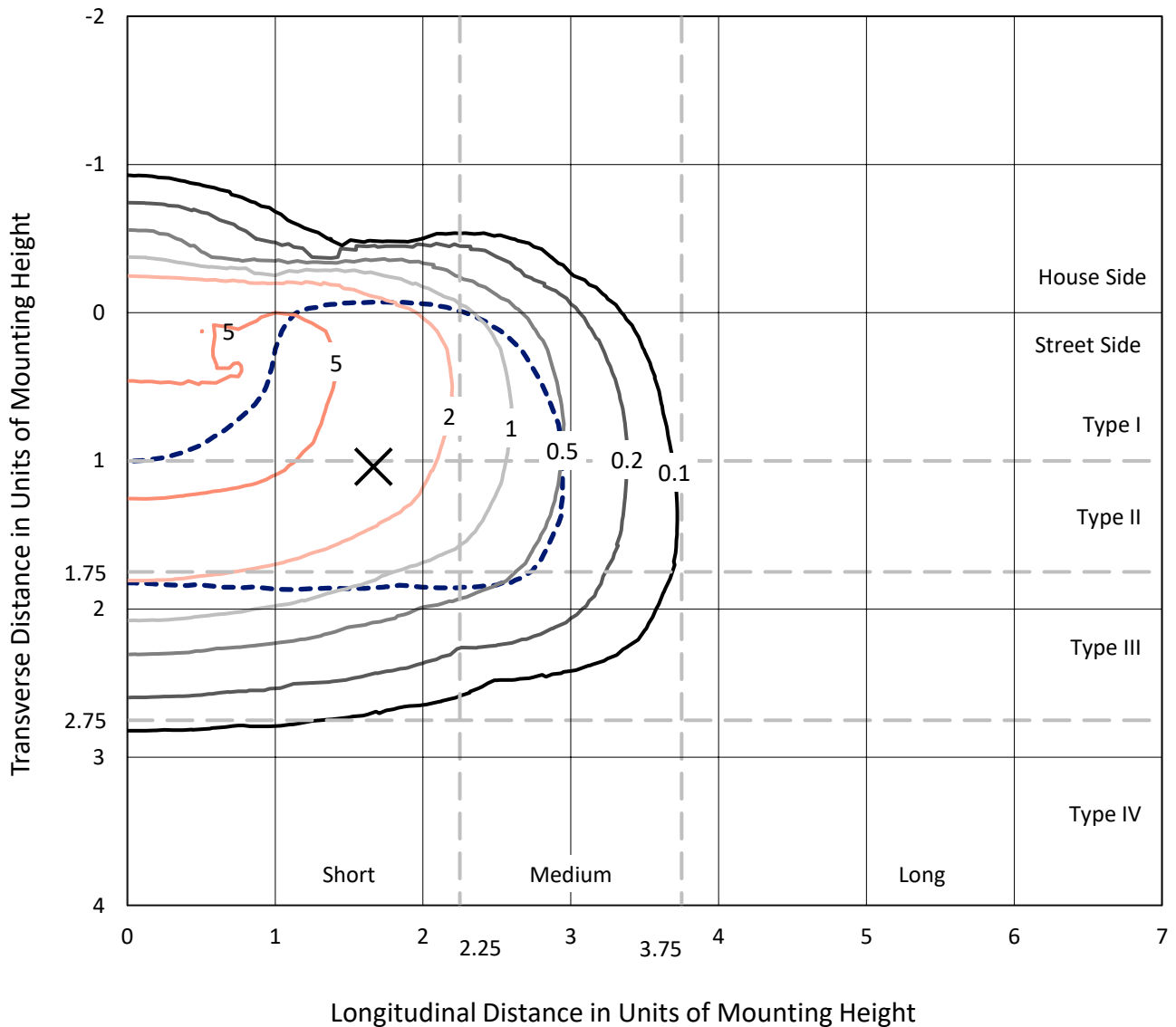
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

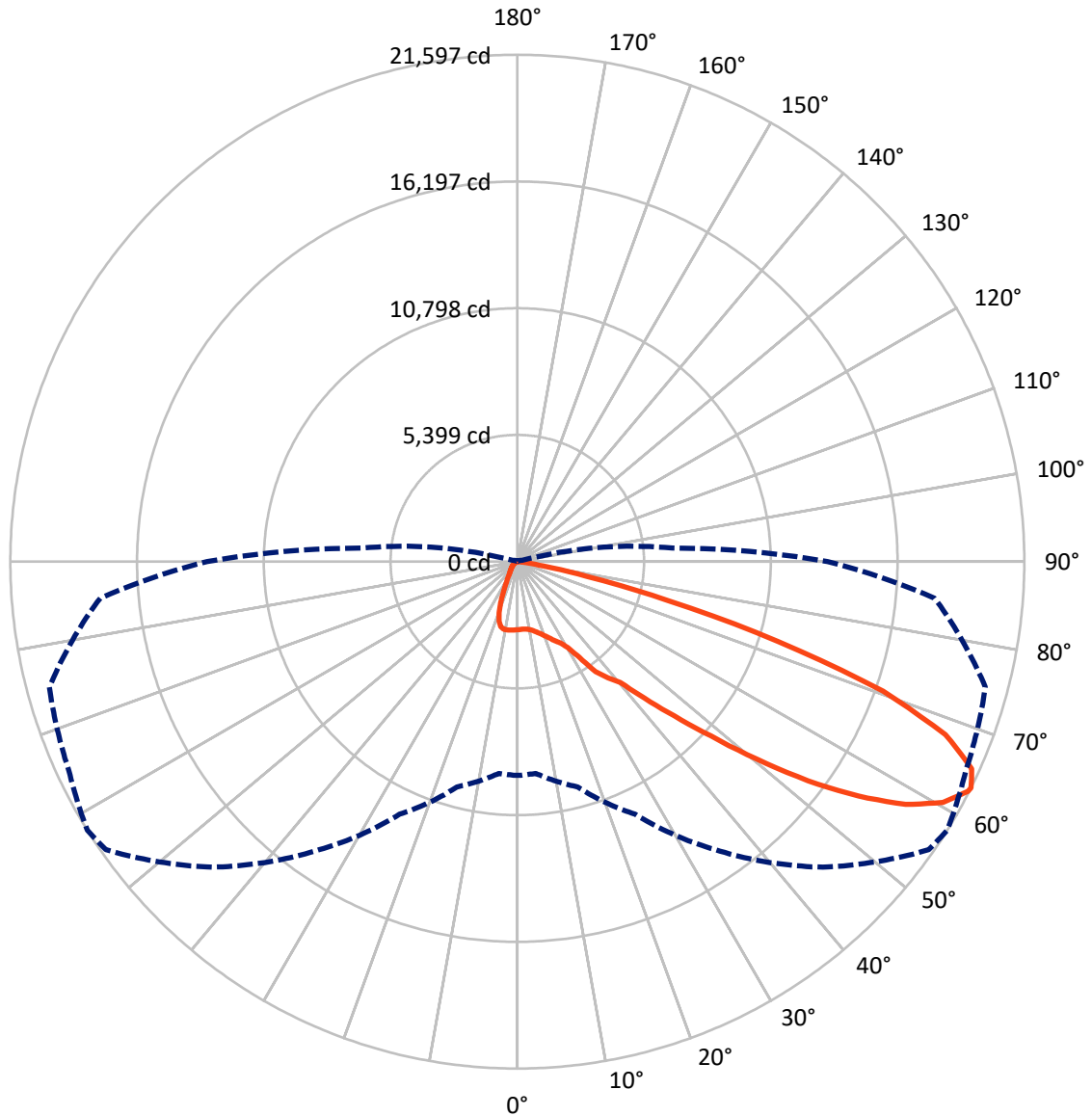
✕ Max cd
 - - - 1/2 Max cd



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	2682.1	0.0	2682.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23220.9	0.0	23220.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	25903.0	0.0	25903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.0
10°-20°	739.4	2.9
20°-30°	1283.3	5.0
30°-40°	2358.1	9.1
40°-50°	4439.1	17.1
50°-60°	7592.8	29.3
60°-70°	7270.1	28.1
70°-80°	1853.9	7.2
80°-90°	94.8	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°	25903.0	100.0
0°-180°	25903.0	100.0

Coefficient of Utilization



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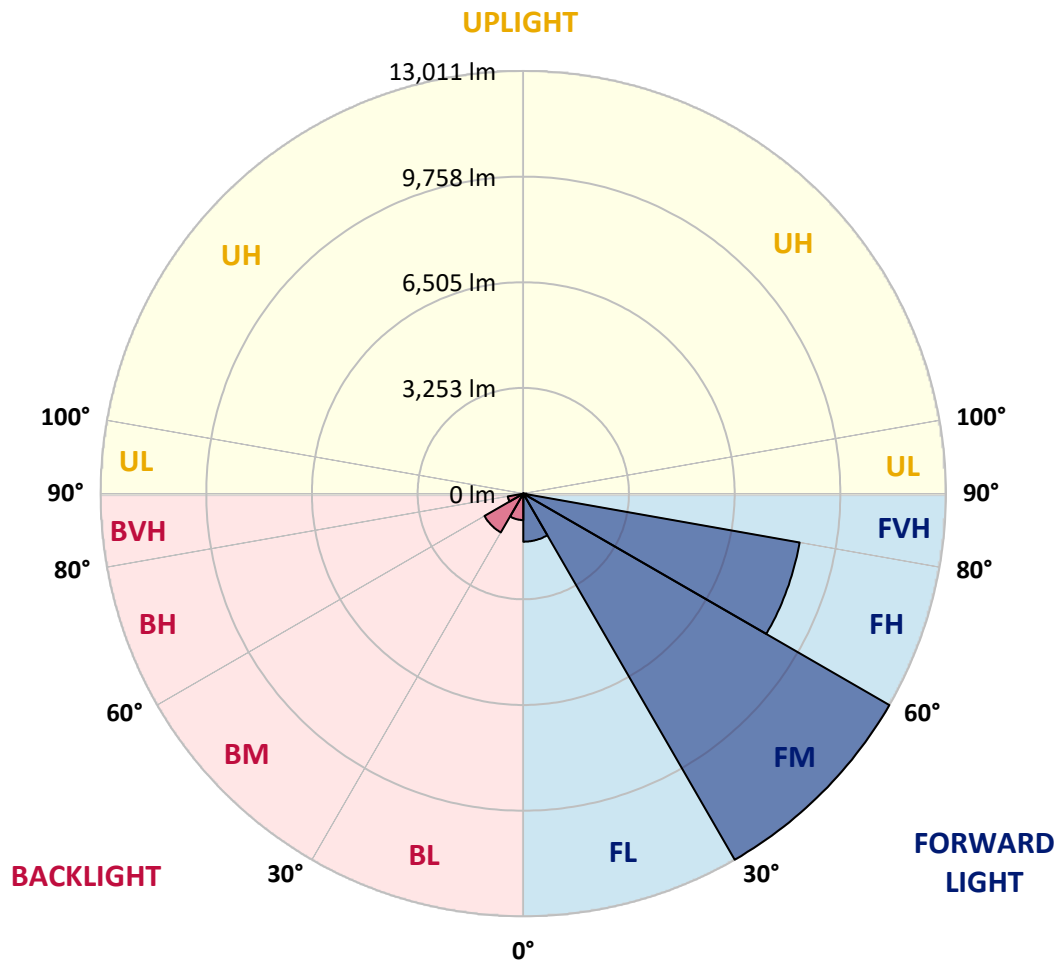
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.7	5.7			
FM	(30°-60°)	13010.6	50.2			
FH	(60°-80°)	8638.5	33.3			G4/12000
FVH	(80°-90°)	91.1	0.4			G1/100
BL	(0°-30°)	813.4	3.1	B2/1000		
BM	(30°-60°)	1379.5	5.3	B2/2500		
BH	(60°-80°)	485.5	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°	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9
2.5°	2827.8	2837.5	2847.3	2851.2	2864.8	2878.5	2888.2	2886.3	2901.9	2909.7	2909.7
5°	2714.7	2714.7	2740.0	2763.4	2802.4	2841.4	2878.5	2886.3	2915.5	2942.8	2952.6
7.5°	2619.1	2625.0	2644.5	2687.4	2740.0	2808.3	2882.4	2899.9	2950.6	3011.1	3036.5
10°	2574.3	2578.2	2603.5	2648.4	2714.7	2808.3	2911.6	2944.8	3022.8	3118.4	3153.5
12.5°	2564.5	2570.4	2595.7	2646.4	2722.5	2835.6	2976.0	3011.1	3124.2	3247.1	3299.7
15°	2582.1	2586.0	2611.3	2665.9	2749.8	2884.3	3061.8	3110.6	3245.1	3387.5	3455.7
17.5°	2644.5	2640.6	2658.1	2703.0	2796.6	2944.8	3165.2	3223.7	3381.6	3576.7	3621.5
20°	2909.7	2884.3	2868.7	2829.7	2866.8	3030.6	3290.0	3375.8	3570.8	3769.7	3800.9
22.5°	3481.1	3424.5	3313.4	3161.3	3044.3	3147.6	3440.1	3539.6	3791.2	3986.2	3986.2
25°	4208.5	4136.4	4025.2	3693.7	3407.0	3340.7	3609.8	3734.6	4031.1	4228.0	4163.7
27.5°	5119.3	5062.7	4846.2	4460.1	4021.3	3678.1	3806.8	3921.8	4243.6	4481.5	4347.0
30°	5860.3	5833.0	5655.6	5310.4	4826.7	4325.5	4173.4	4249.5	4526.4	4801.4	4662.9
32.5°	6486.4	6486.4	6305.0	5983.2	5530.8	5086.1	4795.5	4850.1	5115.4	5433.2	5175.8
35°	7174.8	7151.4	7005.1	6698.9	6191.9	5799.9	5680.9	5755.0	5994.9	6230.9	5597.1
37.5°	7898.3	7890.5	7738.4	7441.9	7028.5	6535.1	6256.2	6275.7	6398.6	6542.9	6090.5
40°	8684.2	8695.9	8497.0	8313.7	7923.6	7418.5	6884.2	6761.3	6876.4	7284.0	7001.2
42.5°	9612.5	9585.2	9499.4	9249.8	8935.8	8633.5	7991.9	7947.0	8048.5	8485.3	8179.1
45°	10691.0	10730.0	10581.8	10443.3	10232.7	9981.1	9444.8	9366.8	9478.0	10156.6	9721.7
47.5°	11771.4	11734.3	11829.9	11804.5	11917.6	11730.4	11256.5	11096.6	11363.8	12007.4	11367.7
50°	12594.4	12635.3	12834.2	13124.8	13610.4	13715.7	13261.3	13206.7	13325.7	13739.1	12840.1
52.5°	13128.7	13265.2	13577.3	14324.2	15199.8	15880.4	15535.3	15506.0	15457.3	15568.4	14248.1
55°	13477.8	13616.3	14023.9	15123.8	16631.3	17737.0	17754.6	17629.8	17308.0	17228.0	15564.5
57.5°	13263.3	13290.6	13871.7	15342.2	17425.0	19061.2	19634.6	19509.8	18914.9	18612.7	16726.8
60°	11921.5	11978.1	12787.4	14515.3	17079.8	19494.2	20880.7	20824.2	20172.8	19831.5	17631.7
62.5°	9544.3	9708.1	10540.8	12467.6	15474.8	18764.8	21385.8	21545.8	21038.7	20568.7	17916.4
63°	9107.4	9054.8	9934.3	11870.8	15049.7	18404.0	21393.6	21596.5	21077.7	20638.9	17838.4
65°	6741.8	6899.8	7471.2	9360.9	12524.2	16724.9	20911.9	21270.8	20933.4	20328.8	16974.5
67.5°	3785.3	3777.5	4409.4	6125.6	8766.1	13119.0	18909.1	19667.7	19597.5	18242.1	14070.7
70°	1852.7	1881.9	2141.3	3174.9	5084.2	9050.9	15712.7	16531.8	16557.2	14328.1	9729.5
72.5°	838.6	852.2	1037.5	1546.5	2613.3	4818.9	10827.5	11609.5	11465.2	9130.8	5372.8
75°	442.7	471.9	571.4	778.1	1259.8	1987.2	5889.6	6646.3	6344.0	4171.5	1977.5
77.5°	327.6	337.4	388.1	495.3	674.8	774.2	2541.1	3022.8	2831.7	1509.5	655.3
80°	239.9	247.7	288.6	351.0	425.1	393.9	957.5	1098.0	984.8	512.9	200.9
82.5°	146.3	148.2	210.6	261.3	267.2	220.4	315.9	339.3	354.9	288.6	109.2
85°	52.7	66.3	142.4	189.2	158.0	111.2	132.6	146.3	159.9	183.3	64.4
87.5°	5.9	7.8	68.3	91.7	44.9	41.0	48.8	54.6	58.5	68.3	31.2
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°	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9	2899.9
2.5°	2917.5	2925.3	2919.4	2909.7	2907.7	2901.9	2890.2	2890.2	2890.2	2894.1	2890.2
5°	2960.4	2966.2	2952.6	2933.1	2911.6	2884.3	2855.1	2837.5	2835.6	2831.7	2821.9
7.5°	3042.3	3050.1	3018.9	2972.1	2913.6	2847.3	2784.9	2726.4	2699.1	2677.6	2677.6
10°	3161.3	3169.1	3106.7	3022.8	2905.8	2771.2	2623.0	2488.4	2383.1	2334.4	2322.7
12.5°	3303.6	3307.5	3204.2	3057.9	2864.8	2605.5	2289.5	1995.1	1790.3	1696.7	1686.9
15°	3459.6	3432.3	3295.8	3071.6	2747.8	2264.2	1718.1	1357.3	1144.8	1082.4	1105.8
17.5°	3617.6	3566.9	3366.0	3050.1	2484.5	1718.1	1154.5	926.3	860.0	842.5	842.5
20°	3765.8	3695.6	3416.7	2956.5	2028.2	1183.8	856.1	801.5	789.8	778.1	780.1
22.5°	3914.0	3806.8	3461.6	2747.8	1511.4	846.4	766.4	748.9	733.3	717.7	715.7
25°	4058.4	3910.1	3479.1	2361.7	1029.7	727.4	700.1	676.7	645.5	628.0	624.1
27.5°	4208.5	4035.0	3467.4	1874.1	750.8	651.4	624.1	590.9	553.9	522.7	522.7
30°	4497.2	4272.9	3426.5	1347.6	631.9	573.4	538.3	485.6	444.6	413.4	411.5
32.5°	4891.1	4583.0	3286.1	947.8	561.7	505.1	452.4	393.9	351.0	327.6	327.6
35°	5242.1	4895.0	3022.8	698.2	505.1	438.8	374.4	317.9	284.7	269.1	263.3
37.5°	5776.5	5351.3	2660.1	567.5	450.5	380.3	314.0	261.3	234.0	222.3	222.3
40°	6578.0	5909.1	2215.4	497.3	397.8	323.7	261.3	220.4	198.9	185.3	185.3
42.5°	7572.6	6591.7	1764.9	446.6	349.1	278.9	218.4	187.2	167.7	158.0	156.0
45°	8824.6	7311.3	1359.3	399.8	310.1	237.9	185.3	158.0	138.5	132.6	134.6
47.5°	10131.3	7945.1	1053.1	358.8	269.1	200.9	158.0	136.5	122.9	115.1	115.1
50°	11246.8	8381.9	799.6	312.0	237.9	169.7	138.5	122.9	111.2	107.3	105.3
52.5°	12179.0	8508.7	612.4	271.1	208.7	146.3	122.9	111.2	101.4	95.6	95.6
55°	12972.7	8397.5	479.7	228.2	175.5	126.8	109.2	99.5	87.8	81.9	80.0
57.5°	13436.8	8040.7	366.6	189.2	142.4	105.3	95.6	83.9	70.2	60.5	60.5
60°	13670.9	7521.9	280.8	156.0	109.2	83.9	78.0	62.4	48.8	41.0	39.0
62.5°	13390.0	6833.5	212.6	122.9	81.9	62.4	52.7	44.9	31.2	23.4	23.4
63°	13216.5	6634.6	204.8	117.0	76.1	58.5	48.8	41.0	27.3	21.5	19.5
65°	12048.3	5766.7	167.7	93.6	60.5	41.0	33.2	29.3	19.5	9.8	7.8
67.5°	9567.7	4411.3	132.6	70.2	42.9	29.3	19.5	17.6	5.9	0.0	0.0
70°	6468.8	2849.2	103.4	50.7	29.3	17.6	9.8	7.8	2.0	0.0	0.0
72.5°	3373.8	1460.7	80.0	37.1	17.6	11.7	5.9	2.0	0.0	0.0	0.0
75°	1193.5	497.3	58.5	23.4	11.7	5.9	2.0	0.0	0.0	0.0	0.0
77.5°	360.8	185.3	37.1	17.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
80°	126.8	68.3	21.5	11.7	5.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.4	33.2	13.7	9.8	5.9	2.0	0.0	0.0	0.0	0.0	0.0
85°	35.1	21.5	11.7	9.8	5.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	25.4	15.6	11.7	9.8	7.8	3.9	2.0	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)