

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: P453724

Luminaire Tested: **GALN-SA4D-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20069 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

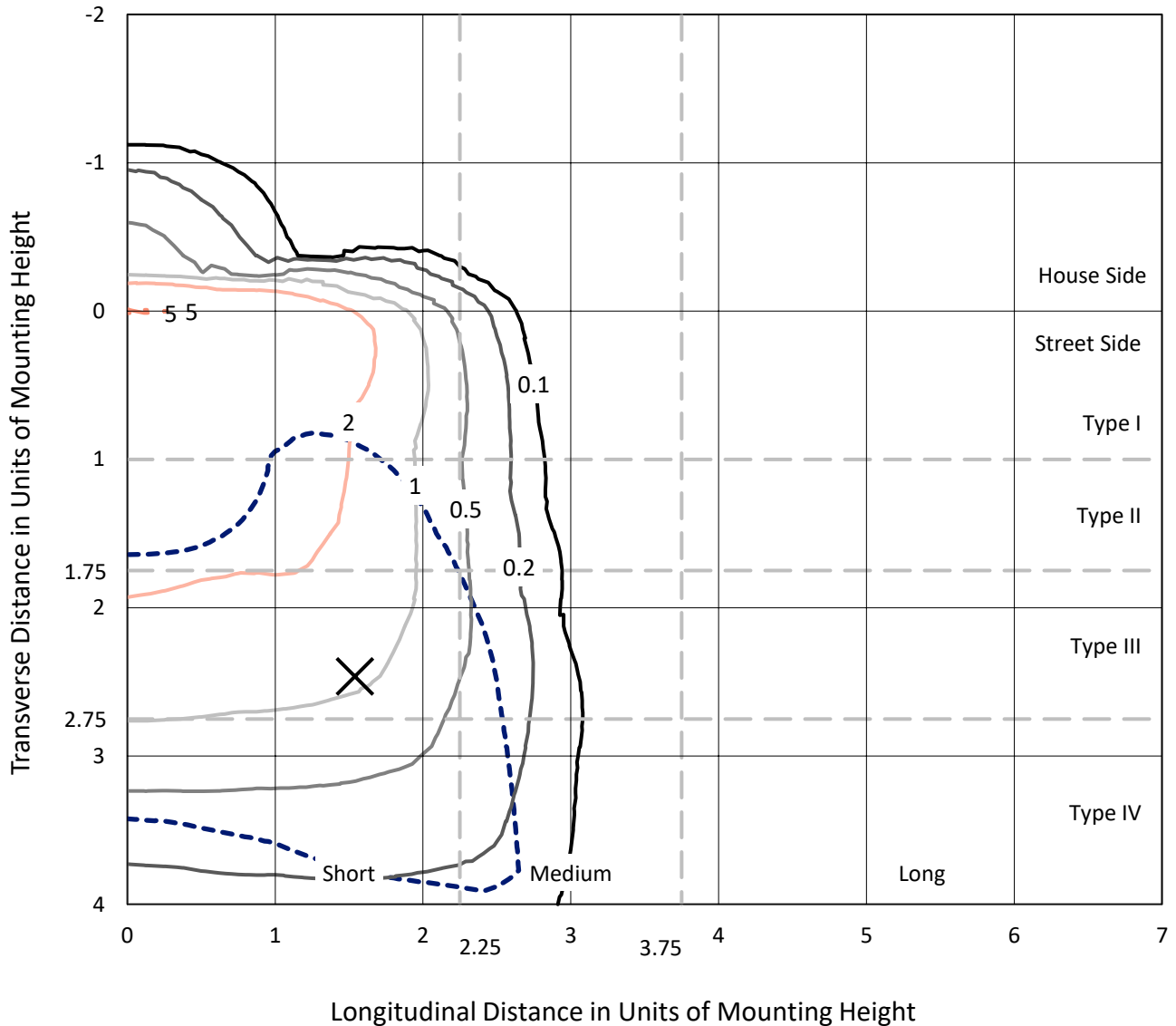
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

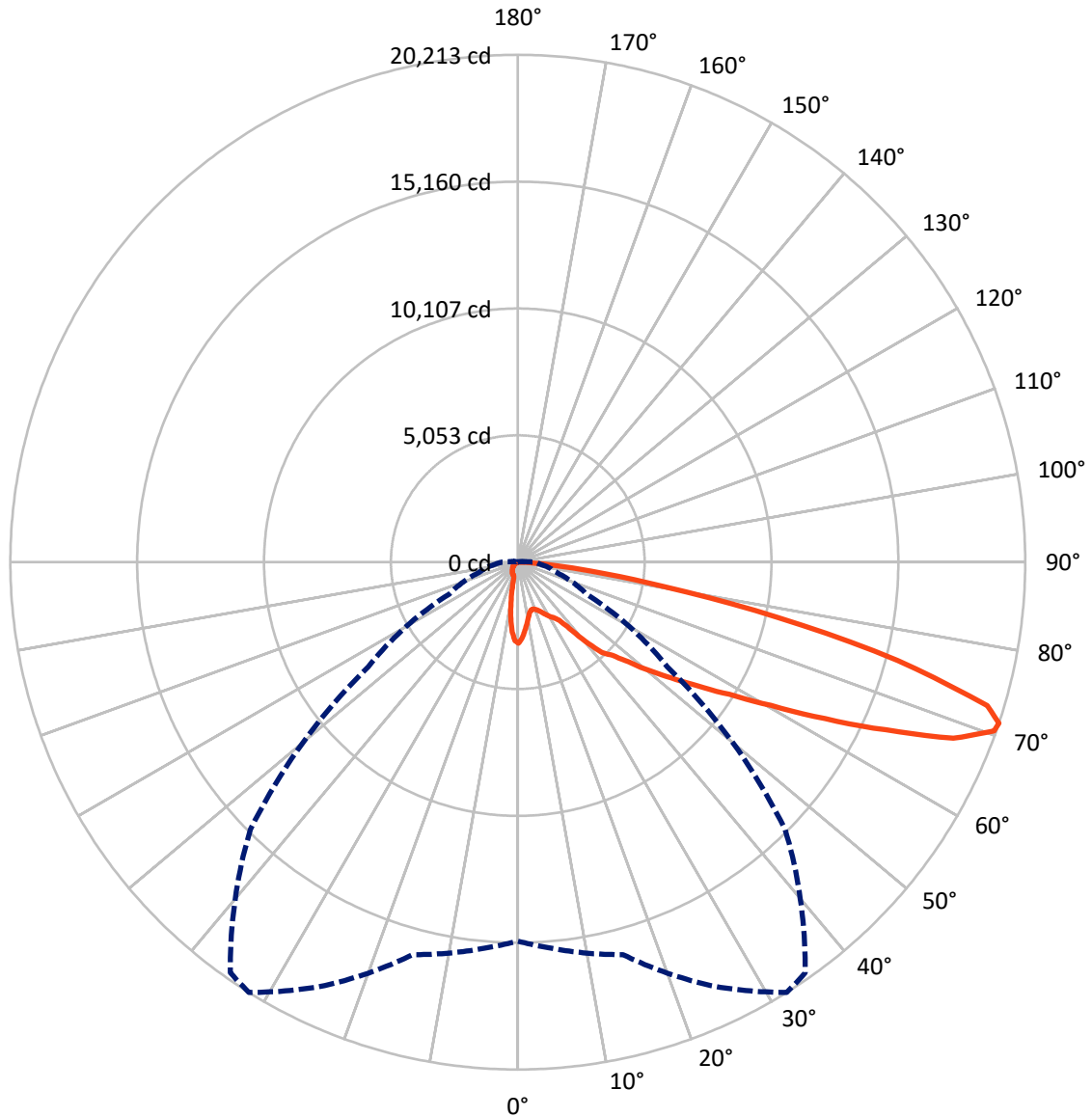
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1681.0	0.0	1681.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18388.0	0.0	18388.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	20069.0	0.0	20069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	1.3
10°-20°	569.6	2.8
20°-30°	886.1	4.4
30°-40°	1476.2	7.4
40°-50°	2745.9	13.7
50°-60°	4408.7	22.0
60°-70°	5929.9	29.5
70°-80°	3518.3	17.5
80°-90°	271.9	1.4
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°	20069.0	100.0
0°-180°	20069.0	100.0

Coefficient of Utilization



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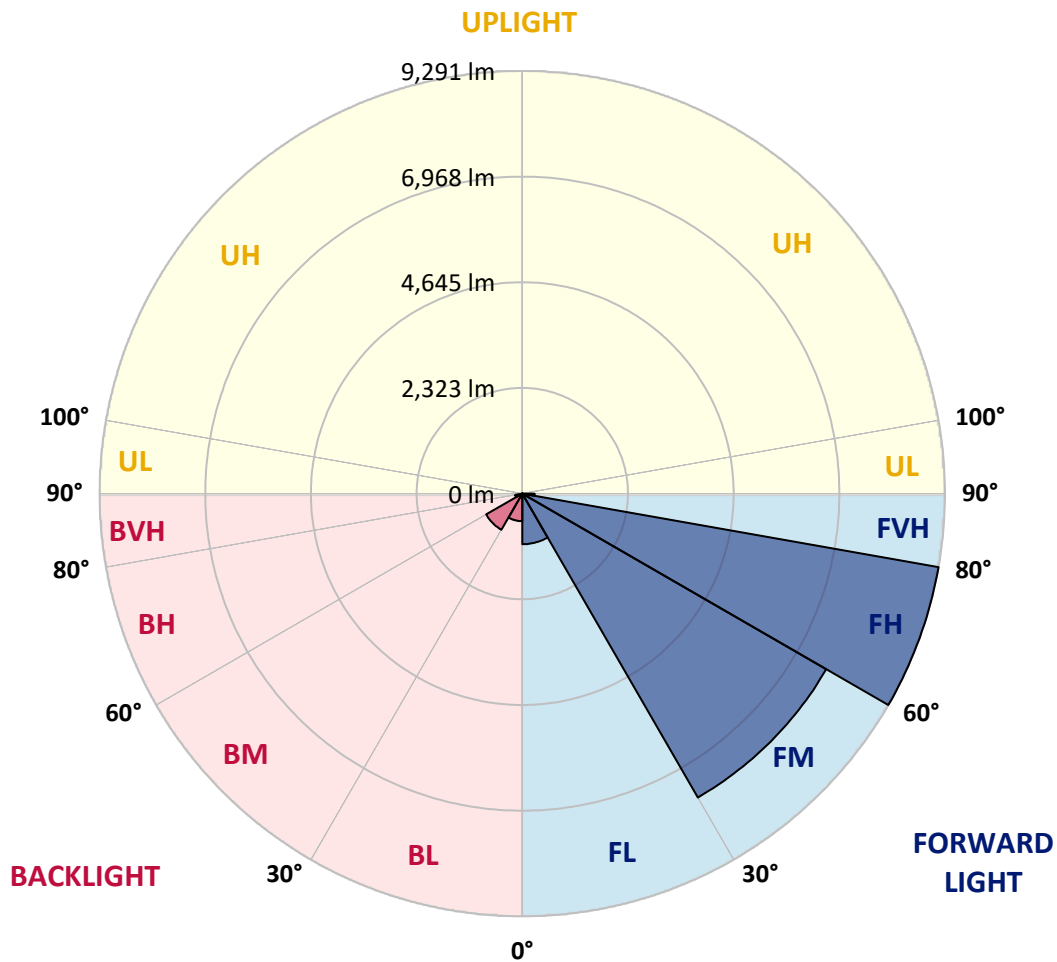
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1112.4	5.5			
FM	(30°-60°)	7713.8	38.4			
FH	(60°-80°)	9291.0	46.3			G4/12000
FVH	(80°-90°)	270.9	1.3			G3/500
BL	(0°-30°)	605.7	3.0	B2/1000		
BM	(30°-60°)	917.0	4.6	B1/1000		
BH	(60°-80°)	157.2	0.8	B1/500		G1/500
BVH	(80°-90°)	1.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4
2.5°	2993.2	3024.1	3019.4	3030.2	3056.4	3067.2	3096.5	3128.8	3173.5	3204.3	3224.3
5°	2680.5	2703.6	2706.7	2760.6	2786.8	2816.1	2902.4	2996.3	3101.1	3184.3	3239.7
7.5°	2346.2	2358.6	2383.2	2454.1	2520.3	2549.6	2680.5	2843.8	3008.7	3164.2	3264.4
10°	2070.5	2084.3	2129.0	2204.5	2266.1	2304.6	2486.4	2691.3	2922.4	3153.5	3299.8
12.5°	1913.3	1921.0	1938.0	2005.8	2084.3	2125.9	2321.6	2555.7	2853.1	3158.1	3359.9
15°	1902.6	1899.5	1879.4	1907.2	1978.0	2021.2	2212.2	2463.3	2791.4	3173.5	3430.8
17.5°	1959.6	1951.9	1904.1	1904.1	1962.6	1998.1	2166.0	2414.0	2760.6	3208.9	3530.9
20°	2047.4	2035.0	1956.5	1950.3	2007.3	2044.3	2193.7	2417.1	2766.8	3275.2	3664.9
22.5°	2158.3	2144.4	2025.8	2028.9	2090.5	2127.5	2273.8	2472.5	2805.3	3356.8	3808.2
25°	2303.1	2287.7	2147.5	2141.3	2206.0	2238.4	2392.4	2571.1	2859.2	3458.5	3996.1
27.5°	2495.7	2463.3	2295.4	2286.1	2355.5	2397.1	2535.7	2703.6	2954.7	3598.7	4248.8
30°	2654.3	2618.9	2458.7	2434.0	2508.0	2540.3	2683.6	2882.3	3142.7	3843.6	4598.5
32.5°	2862.3	2809.9	2622.0	2557.3	2635.8	2677.4	2897.7	3215.1	3421.5	4102.4	5014.4
35°	3330.6	3298.3	3068.7	2842.3	2837.7	2890.0	3213.5	3550.9	3708.1	4506.0	5581.3
37.5°	4000.8	3977.6	3734.2	3430.8	3342.9	3318.3	3597.1	3920.6	4165.6	5060.6	6240.7
40°	4778.7	4724.8	4501.4	4244.2	4130.2	4057.8	4050.1	4470.6	4763.3	5814.0	6927.8
42.5°	5336.4	5237.8	4966.7	4948.2	4923.5	4848.0	4629.3	5274.8	5535.1	6624.3	7662.6
45°	5921.8	5772.4	5368.7	5299.4	5290.2	5285.6	5504.3	6226.8	6376.3	7502.4	8417.5
47.5°	6376.3	6257.6	5926.4	5895.6	5934.1	6038.9	6661.2	7237.4	7206.6	8285.0	9050.6
50°	6981.7	6892.3	6524.1	6582.7	6781.4	6952.4	7966.1	8338.9	7889.1	8901.2	9511.2
52.5°	7696.5	7531.6	7189.6	7348.3	7653.3	7938.3	9351.0	9303.3	8368.2	9364.9	9854.8
55°	8315.8	8198.7	8081.6	8246.5	8702.4	9058.3	10601.9	10025.8	8716.3	9737.7	10005.7
57.5°	9363.3	9335.6	9215.4	9383.4	9936.4	10306.1	11721.9	10586.5	8939.7	9931.8	9828.6
60°	10913.1	10868.4	10645.1	10859.2	11580.2	12160.9	12754.0	11090.3	8990.5	9856.3	9318.7
62.5°	12777.1	12624.6	12433.6	12749.4	13738.4	13994.2	13726.1	11389.1	8801.0	9255.5	8089.3
65°	14517.9	14360.8	14365.4	15030.9	16107.8	16281.9	14859.9	11344.5	8246.5	7750.4	5966.5
67.5°	15850.5	15824.3	16012.3	17310.9	18719.0	18598.8	15873.6	10675.9	6602.7	5023.7	3170.4
70°	15918.3	15969.1	16508.3	18700.5	20130.1	19939.1	15787.3	8677.8	4116.3	2310.8	1249.4
71°	15098.7	15440.7	16186.3	18657.3	20213.3	19965.3	15060.2	7268.2	3019.4	1611.4	901.2
72.5°	12866.5	13046.7	14658.1	17559.0	19555.5	19025.5	13216.2	5094.5	1933.4	985.9	517.6
75°	7086.4	7530.1	9816.3	13775.4	15641.0	15175.8	8613.1	2420.2	964.4	539.2	214.1
77.5°	3373.8	3287.5	4789.5	8192.5	10605.0	10580.4	4339.7	1075.3	562.3	365.1	107.8
80°	964.4	1084.5	1833.2	3894.5	5887.9	5952.6	1666.9	519.2	389.8	285.0	55.5
82.5°	291.2	297.3	673.2	1722.3	2928.5	2760.6	625.5	265.0	280.4	226.5	32.4
85°	50.8	63.2	198.7	607.0	1116.9	847.3	157.1	126.3	184.9	149.4	18.5
87.5°	3.1	4.6	66.2	69.3	98.6	57.0	27.7	18.5	40.1	40.1	10.8
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°	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4	3227.4
2.5°	3238.2	3247.4	3241.3	3227.4	3204.3	3176.6	3139.6	3108.8	3082.6	3068.7	3085.7
5°	3258.2	3270.5	3239.7	3170.4	3065.7	2951.7	2822.2	2722.1	2643.5	2618.9	2609.7
7.5°	3289.0	3296.7	3213.5	3059.5	2837.7	2568.1	2332.4	2133.6	1979.6	1933.4	1865.6
10°	3329.1	3324.5	3167.3	2880.8	2491.0	2085.9	1720.8	1449.6	1244.7	1170.8	1164.6
12.5°	3390.7	3366.1	3108.8	2637.4	2078.2	1548.2	1096.9	858.1	728.7	685.5	676.3
15°	3467.7	3409.2	3016.4	2352.4	1591.4	999.8	676.3	603.9	586.9	583.9	580.8
17.5°	3558.6	3466.2	2894.7	2002.7	1118.4	648.6	565.4	563.8	565.4	562.3	560.8
20°	3681.9	3526.3	2749.8	1588.3	739.5	546.9	539.2	539.2	540.7	539.2	539.2
22.5°	3812.8	3597.1	2571.1	1212.4	557.7	519.2	517.6	520.7	523.8	522.2	522.2
25°	3974.6	3689.6	2335.4	830.3	499.1	496.1	497.6	503.8	509.9	511.5	509.9
27.5°	4208.7	3803.6	2082.8	571.5	457.5	460.6	476.0	491.4	500.7	502.2	502.2
30°	4472.2	3929.9	1753.1	463.7	423.6	423.6	442.1	471.4	491.4	494.5	496.1
32.5°	4811.1	4076.2	1388.0	417.5	391.3	388.2	405.2	440.6	477.6	488.3	488.3
35°	5230.1	4248.8	1032.2	388.2	368.2	360.5	369.7	399.0	446.8	477.6	480.6
37.5°	5721.5	4412.1	754.9	362.0	346.6	335.8	342.0	365.1	403.6	449.8	462.2
40°	6176.0	4556.9	563.8	340.5	325.1	317.3	322.0	332.8	365.1	408.2	415.9
42.5°	6672.0	4669.3	448.3	317.3	303.5	300.4	300.4	305.0	326.6	351.2	352.8
45°	7166.5	4709.4	375.9	289.6	280.4	283.5	281.9	278.8	288.1	285.0	285.0
47.5°	7519.3	4661.6	311.2	263.4	263.4	268.1	260.3	249.6	244.9	226.5	228.0
50°	7761.2	4487.6	255.7	232.6	244.9	251.1	235.7	218.8	201.8	181.8	177.2
52.5°	7861.3	4177.9	209.5	192.6	217.2	224.9	206.4	186.4	160.2	143.3	138.6
55°	7796.6	3795.9	174.1	157.1	183.3	192.6	174.1	151.0	121.7	103.2	100.1
57.5°	7511.6	3339.9	147.9	124.8	146.4	152.5	140.2	115.5	86.3	67.8	67.8
60°	7018.7	2868.5	120.2	98.6	109.4	118.6	106.3	83.2	58.5	41.6	38.5
62.5°	6018.8	2329.3	97.1	77.0	77.0	84.7	73.9	60.1	37.0	21.6	20.0
65°	4345.8	1597.5	77.0	57.0	55.5	55.5	46.2	40.1	21.6	9.2	6.2
67.5°	2361.6	901.2	61.6	43.1	38.5	37.0	29.3	23.1	9.2	1.5	0.0
70°	928.9	346.6	47.8	29.3	24.6	23.1	15.4	10.8	6.2	0.0	0.0
71°	630.1	238.8	41.6	24.6	20.0	16.9	12.3	9.2	4.6	0.0	0.0
72.5°	360.5	147.9	32.4	18.5	15.4	12.3	9.2	6.2	4.6	0.0	0.0
75°	157.1	75.5	20.0	13.9	10.8	7.7	6.2	4.6	1.5	0.0	0.0
77.5°	80.1	41.6	13.9	10.8	6.2	4.6	3.1	1.5	0.0	0.0	0.0
80°	44.7	21.6	9.2	6.2	4.6	3.1	1.5	1.5	0.0	0.0	0.0
82.5°	24.6	12.3	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	3.1	0.0	0.0	0.0	0.0	1.5	1.5	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)