

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: P455804

Luminaire Tested: **GALN-SA7A-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21686 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

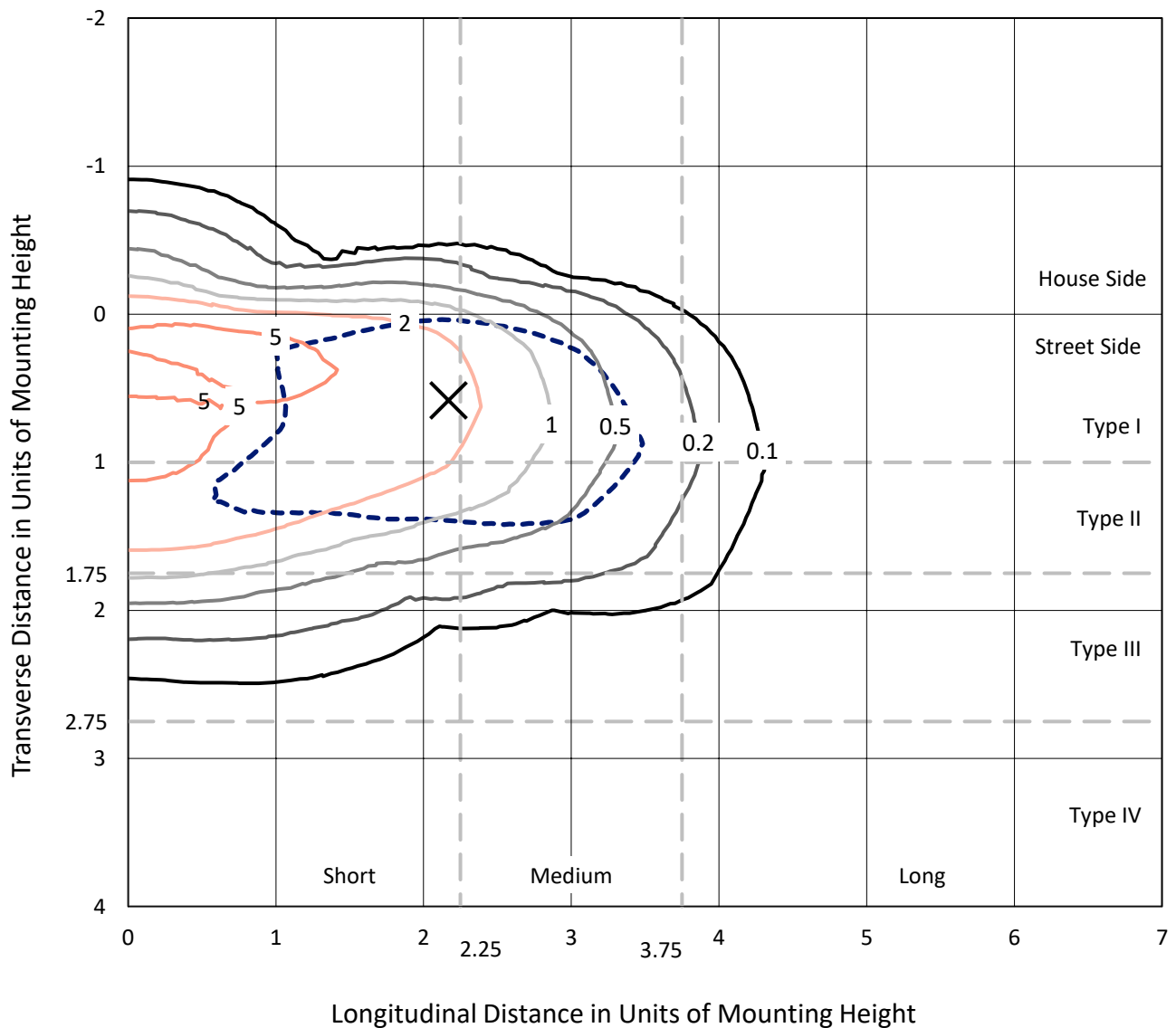
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

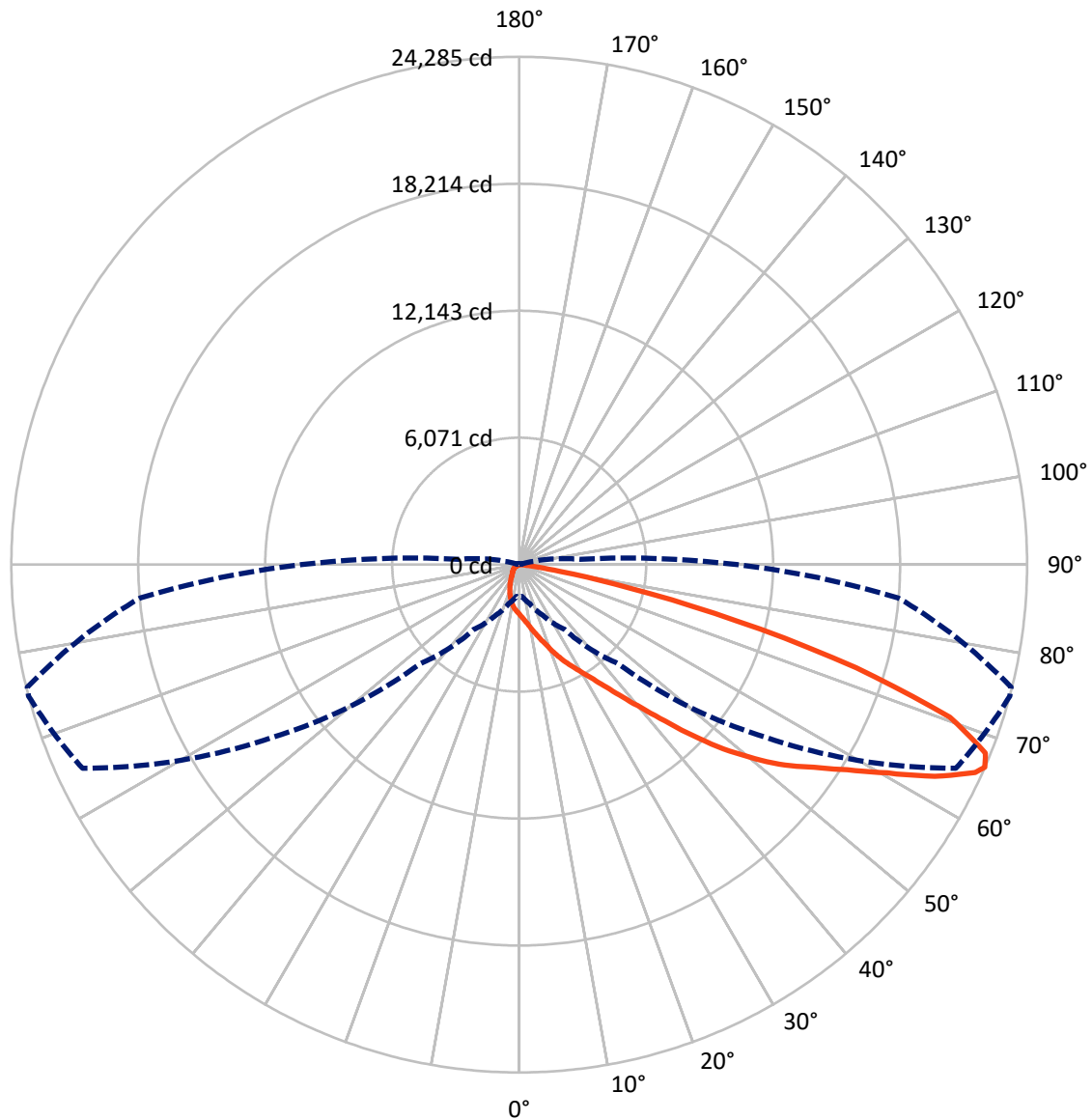
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1338.8	0.0	1338.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	20347.2	0.0	20347.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	21686.0	0.0	21686.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	1.1
10°-20°	673.2	3.1
20°-30°	1162.5	5.4
30°-40°	2096.9	9.7
40°-50°	3788.0	17.5
50°-60°	5905.6	27.2
60°-70°	5610.0	25.9
70°-80°	2102.5	9.7
80°-90°	118.6	0.5
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°	21686.0	100.0
0°-180°	21686.0	100.0



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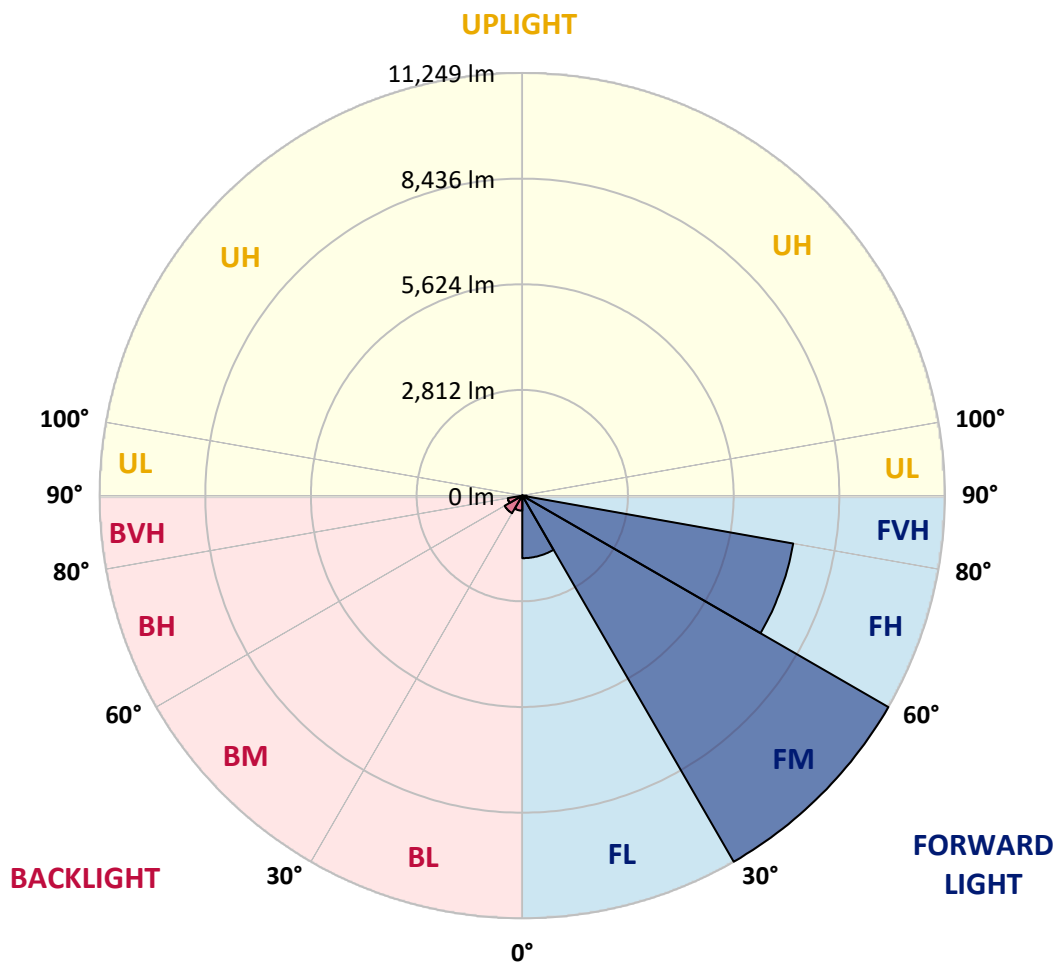
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.6	7.7			
FM (30°-60°)	11248.5	51.9			
FH (60°-80°)	7321.6	33.8			G3/7500
FVH (80°-90°)	112.5	0.5			G2/225
BL (0°-30°)	399.8	1.8	B1/500		
BM (30°-60°)	541.9	2.5	B1/1000		
BH (60°-80°)	390.9	1.8	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6
2.5°	2833.4	2798.1	2809.3	2793.3	2756.4	2701.9	2653.8	2584.8	2515.9	2504.7	2427.7
5°	3207.0	3197.4	3184.6	3138.1	3112.4	3029.0	2929.6	2810.9	2668.2	2642.6	2503.1
7.5°	3462.0	3457.1	3463.6	3439.5	3417.1	3341.7	3235.9	3073.9	2852.6	2838.2	2605.7
10°	3545.3	3558.2	3582.2	3620.7	3656.0	3631.9	3551.8	3349.7	3091.6	3049.9	2722.7
12.5°	3497.2	3511.7	3569.4	3672.0	3785.9	3851.6	3819.5	3672.0	3344.9	3311.2	2854.2
15°	3373.8	3391.4	3473.2	3631.9	3835.6	4021.6	4101.8	3995.9	3639.9	3585.4	3013.0
17.5°	3191.0	3216.6	3333.7	3543.7	3822.7	4143.4	4369.5	4334.3	3954.2	3902.9	3186.2
20°	3053.1	3072.3	3171.7	3412.3	3768.2	4210.8	4624.5	4723.9	4342.3	4254.1	3389.8
22.5°	3144.5	3150.9	3184.6	3328.9	3670.4	4228.4	4849.0	5129.6	4754.4	4675.8	3601.5
25°	3591.8	3527.7	3494.0	3462.0	3649.6	4212.4	5052.6	5552.9	5164.9	5081.5	3811.5
27.5°	4297.4	4268.5	4098.5	3870.9	3827.6	4233.2	5187.3	5953.8	5551.3	5461.5	4016.8
30°	5065.5	5015.8	4911.5	4578.0	4242.9	4380.8	5285.1	6343.5	6008.3	5889.7	4204.4
32.5°	5771.0	5803.1	5647.5	5304.4	4916.3	4695.1	5411.8	6768.4	6532.7	6385.1	4422.5
35°	6593.6	6657.7	6418.8	6090.1	5636.3	5262.7	5658.8	7247.8	7198.1	7012.1	4759.2
37.5°	7429.0	7467.5	7321.6	6859.8	6450.9	5984.3	6123.8	7839.5	8017.5	7858.8	5161.7
40°	8131.4	8184.3	8076.8	7666.3	7230.2	6819.7	6798.8	8484.1	8992.4	8828.9	5761.4
42.5°	8668.5	8708.6	8711.8	8421.6	8028.7	7842.7	7659.9	9306.7	10214.3	10025.1	6457.3
45°	9346.8	9404.5	9370.9	9173.6	8880.2	8846.5	8751.9	10300.9	11676.7	11437.8	7360.1
47.5°	10395.5	10434.0	10350.6	10118.1	9819.8	9872.8	9816.6	11415.3	13168.0	12962.7	8294.9
50°	11123.5	11187.6	11306.3	11399.3	11182.8	10987.2	10820.4	12456.0	14583.8	14399.4	9250.6
52.5°	11115.5	11221.3	11596.5	12064.7	12537.8	12478.4	11999.0	13605.7	15935.6	15707.9	10148.6
55°	10366.6	10571.9	11123.5	11954.1	13264.2	13916.8	13698.7	14936.6	17102.9	16949.0	11189.2
57.5°	8820.9	8945.9	9712.4	10873.3	12858.5	14593.5	15667.8	16740.6	18502.8	18430.6	12805.6
60°	5933.0	5989.1	6975.2	8410.4	10947.1	13918.4	17111.0	18922.9	20226.6	20191.3	14692.9
62.5°	3399.4	3423.5	4138.6	5349.3	7789.8	11795.4	17232.8	21615.2	22293.5	22312.7	16876.9
65°	1829.6	1842.4	2419.7	3139.7	4739.9	8407.2	15496.2	23090.4	23964.3	24001.2	18230.2
66°	1579.4	1518.5	1925.8	2676.2	3771.4	6691.4	14397.8	23037.5	24285.0	24244.9	18182.1
67.5°	1201.0	1255.5	1537.8	2057.3	2794.9	4757.6	11886.8	22012.9	24041.3	23916.2	17442.9
70°	859.5	881.9	1095.2	1467.2	1903.4	2610.5	7595.8	18283.1	21850.9	21682.5	15196.4
72.5°	554.8	578.9	776.1	1061.5	1375.8	1425.5	4252.5	13209.6	16846.4	16822.3	11444.2
75°	396.1	418.5	513.1	760.1	1034.3	881.9	2047.7	8902.6	10709.8	10637.6	7079.5
77.5°	287.0	298.3	343.1	497.1	739.2	631.8	949.3	4754.4	5331.6	5583.4	3128.4
80°	165.2	174.8	238.9	303.1	500.3	431.3	453.8	1908.2	1967.5	1872.9	978.1
82.5°	81.8	93.0	142.7	206.9	312.7	290.2	208.5	574.1	606.1	590.1	246.9
85°	19.2	24.1	80.2	136.3	152.3	129.9	101.0	168.4	208.5	203.6	94.6
87.5°	1.6	3.2	28.9	24.1	25.7	43.3	35.3	43.3	67.3	62.5	33.7
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°	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6	2371.6
2.5°	2392.4	2362.0	2273.8	2187.2	2115.0	2039.7	1970.7	1930.6	1914.6	1896.9	1905.0
5°	2426.1	2352.3	2174.3	2020.4	1869.7	1741.4	1638.8	1573.0	1541.0	1536.2	1528.1
7.5°	2471.0	2344.3	2068.5	1828.0	1630.8	1488.0	1371.0	1276.4	1247.5	1221.9	1201.0
10°	2525.5	2329.9	1937.0	1626.0	1415.9	1236.3	1082.4	970.1	912.4	896.4	907.6
12.5°	2583.2	2302.6	1799.1	1439.9	1197.8	968.5	825.8	769.7	753.6	747.2	748.8
15°	2641.0	2269.0	1654.8	1260.4	954.1	772.9	707.1	692.7	686.3	683.1	679.9
17.5°	2693.9	2214.4	1492.9	1085.6	772.9	660.6	636.6	623.8	610.9	606.1	598.1
20°	2756.4	2151.9	1346.9	889.9	654.2	598.1	569.2	545.2	525.9	513.1	511.5
22.5°	2815.7	2071.7	1194.6	737.6	596.5	537.2	490.7	465.0	442.6	426.5	431.3
25°	2847.8	1973.9	1058.3	643.0	543.6	476.2	424.9	392.9	368.8	360.8	359.2
27.5°	2847.8	1853.6	925.2	588.5	495.5	421.7	368.8	338.3	322.3	311.1	312.7
30°	2825.4	1720.6	801.8	546.8	453.8	373.6	323.9	296.6	283.8	275.8	274.2
32.5°	2807.7	1593.9	695.9	506.7	410.5	331.9	288.6	267.8	255.0	246.9	246.9
35°	2835.0	1484.8	614.1	466.6	370.4	299.9	261.4	242.1	229.3	222.9	221.3
37.5°	2907.1	1385.4	551.6	423.3	333.5	272.6	242.1	219.7	206.9	198.8	195.6
40°	3085.1	1329.3	505.1	383.2	298.3	250.1	219.7	198.8	182.8	174.8	173.2
42.5°	3370.6	1330.9	460.2	346.4	271.0	230.9	200.4	176.4	158.7	150.7	149.1
45°	3800.3	1391.8	424.9	311.1	246.9	210.1	179.6	153.9	137.9	129.9	129.9
47.5°	4315.0	1510.5	394.5	280.6	224.5	190.8	158.7	133.1	117.1	110.6	110.6
50°	4873.0	1664.4	364.0	248.5	205.2	170.0	136.3	115.5	102.6	97.8	97.8
52.5°	5442.3	1850.4	333.5	222.9	184.4	147.5	117.1	102.6	91.4	88.2	86.6
55°	6189.5	2087.8	301.5	195.6	162.0	126.7	104.2	89.8	77.0	72.2	70.6
57.5°	7339.2	2445.3	266.2	171.6	133.1	105.8	89.8	75.4	60.9	52.9	51.3
60°	8726.3	2881.5	229.3	150.7	107.4	86.6	72.2	57.7	44.9	35.3	33.7
62.5°	10025.1	3158.9	194.0	126.7	85.0	65.7	51.3	43.3	32.1	22.4	20.8
65°	10599.1	3065.9	160.4	102.6	67.3	46.5	33.7	30.5	19.2	9.6	8.0
66°	10408.3	2928.0	147.5	93.0	60.9	40.1	28.9	25.7	14.4	4.8	4.8
67.5°	9845.5	2602.5	128.3	80.2	52.9	32.1	22.4	19.2	8.0	1.6	0.0
70°	8436.0	2105.4	101.0	59.3	38.5	22.4	12.8	9.6	4.8	0.0	0.0
72.5°	6479.7	1568.2	80.2	44.9	27.3	12.8	6.4	3.2	4.8	0.0	0.0
75°	3970.3	896.4	62.5	33.7	17.6	8.0	4.8	0.0	4.8	1.6	0.0
77.5°	1762.2	402.5	41.7	22.4	12.8	6.4	3.2	0.0	3.2	1.6	0.0
80°	445.8	131.5	24.1	16.0	9.6	4.8	1.6	0.0	3.2	3.2	1.6
82.5°	121.9	48.1	17.6	12.8	8.0	4.8	1.6	0.0	3.2	3.2	3.2
85°	48.1	22.4	16.0	12.8	9.6	4.8	1.6	0.0	3.2	3.2	3.2
87.5°	22.4	16.0	16.0	14.4	11.2	4.8	1.6	0.0	3.2	1.6	3.2
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)