

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: P459110

Luminaire Tested: **GALN-SA6A-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459110
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-SA6A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 18885 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

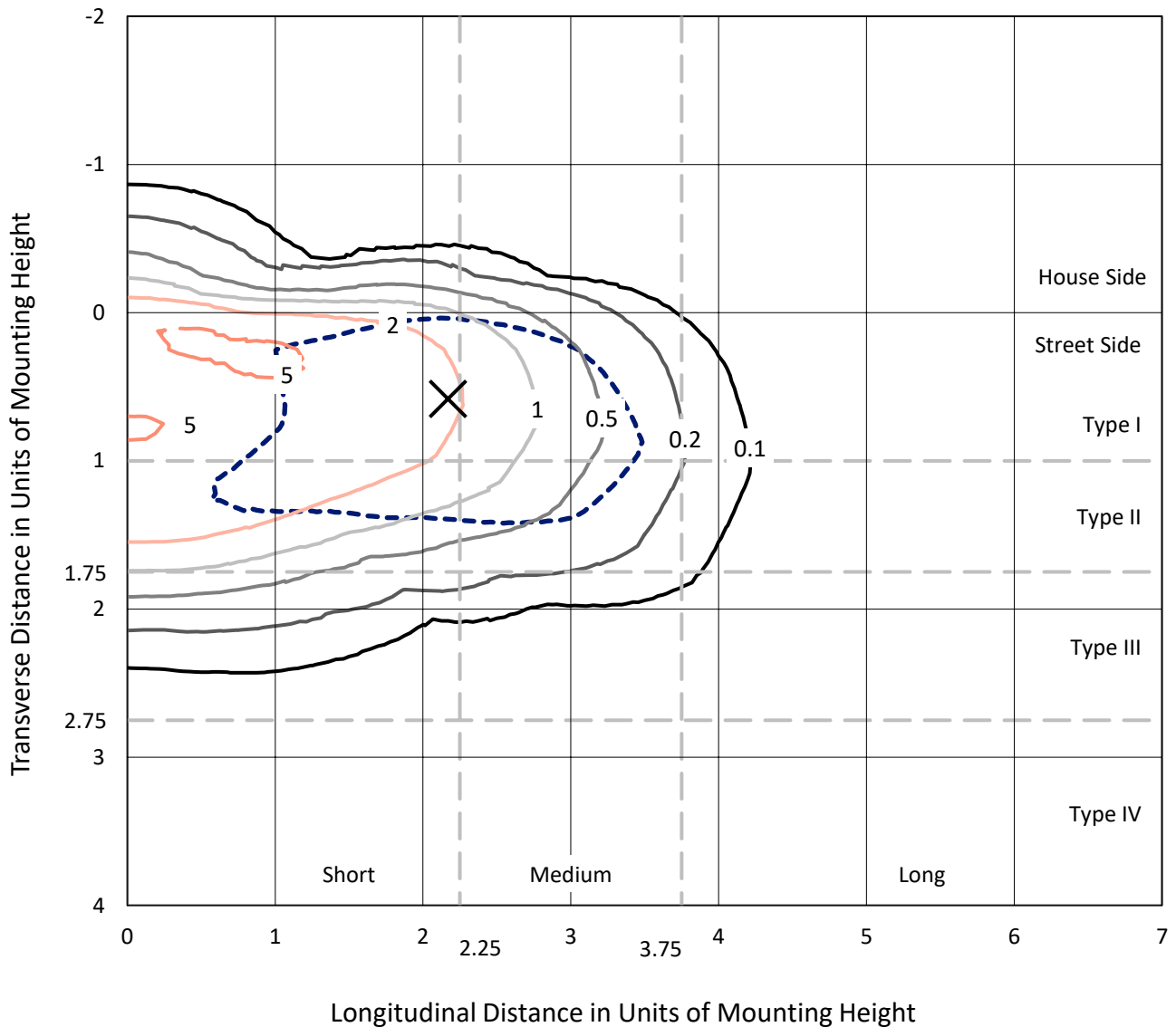
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459110
 CATALOG NUMBER: GALN-SA6A-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

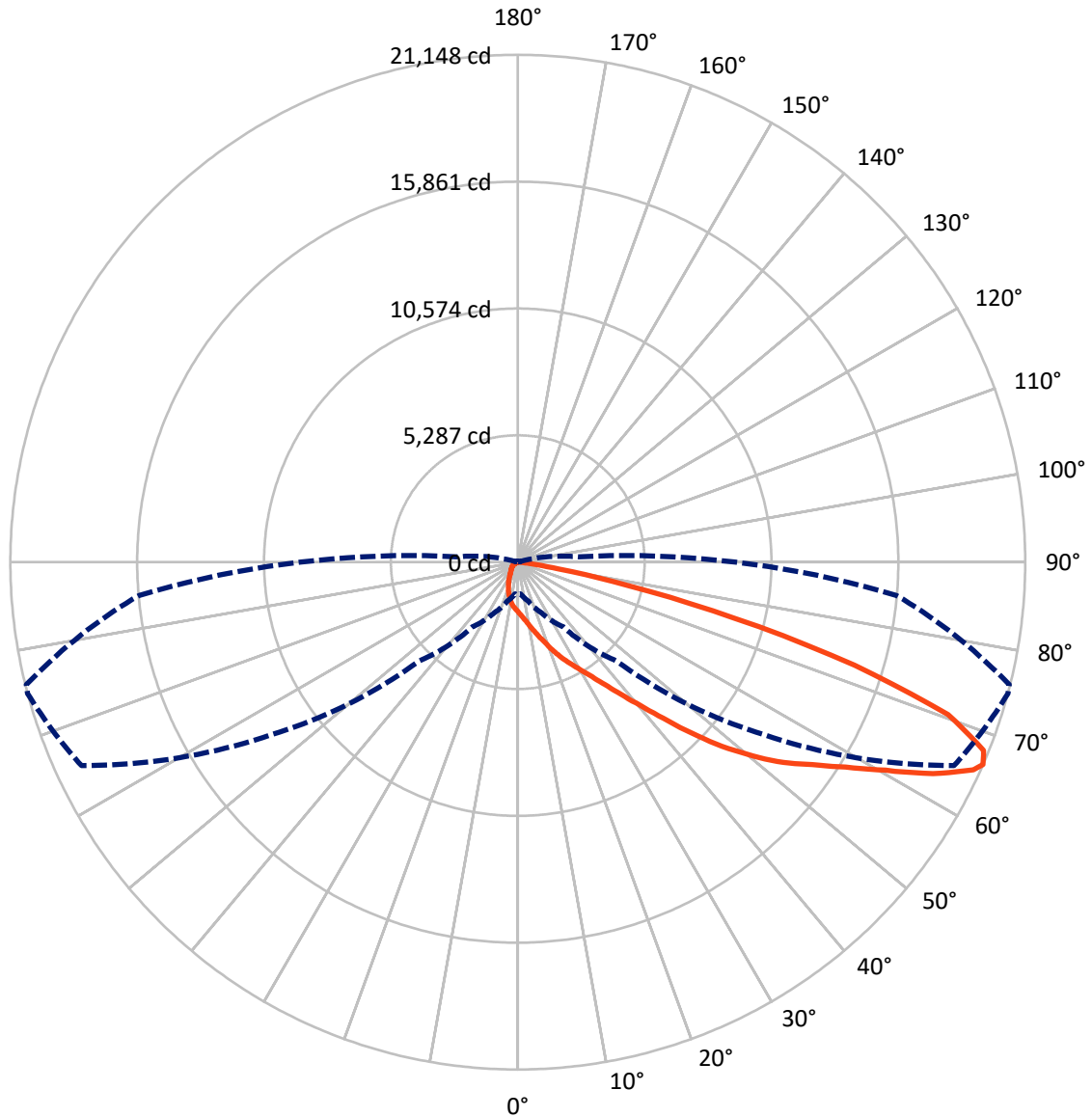
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

REPORT NUMBER: P459110
CATALOG NUMBER: GALN-SA6A-735-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459110

CATALOG NUMBER: GALN-SA6A-735-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1165.9	0.0	1165.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17719.1	0.0	17719.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	18885.0	0.0	18885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	1.1
10°-20°	586.3	3.1
20°-30°	1012.3	5.4
30°-40°	1826.0	9.7
40°-50°	3298.8	17.5
50°-60°	5142.8	27.2
60°-70°	4885.4	25.9
70°-80°	1830.9	9.7
80°-90°	103.3	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°	18885.0	100.0
0°-180°	18885.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459110

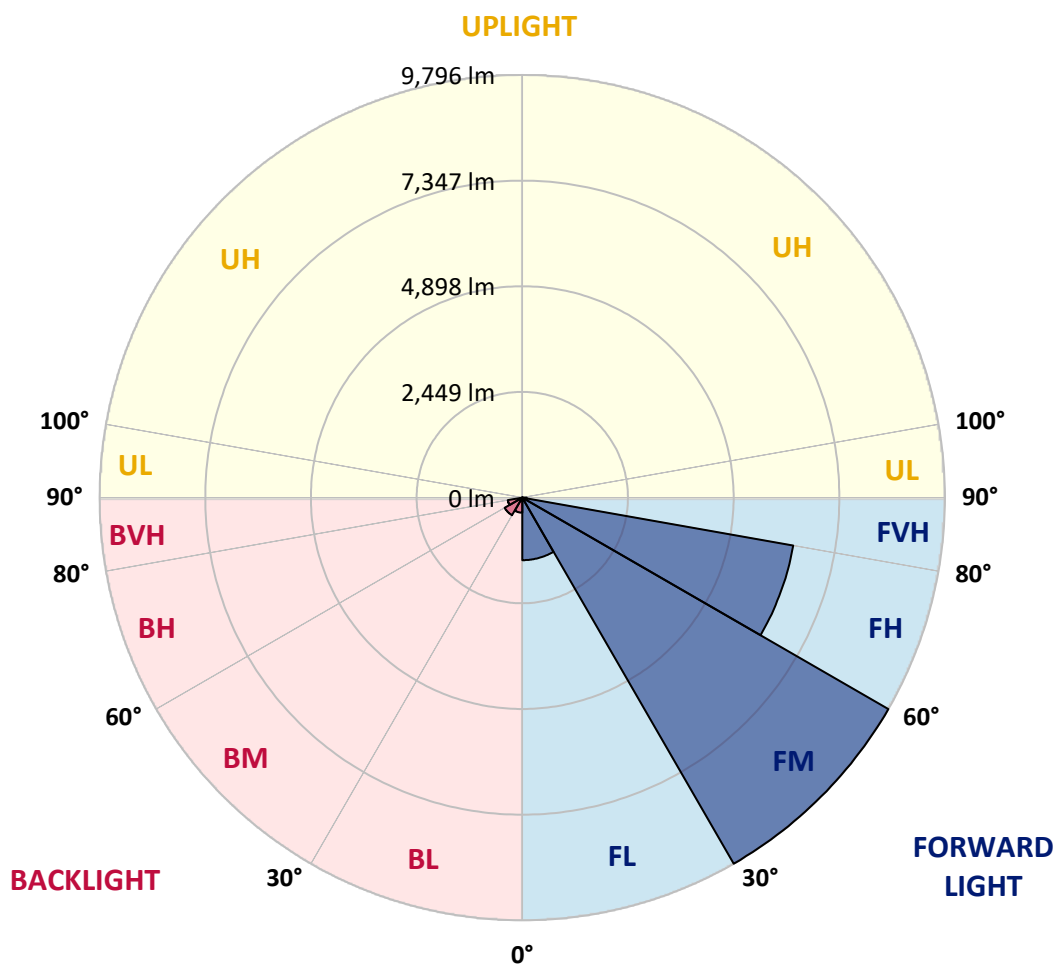
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.6	7.7			
FM (30°-60°)	9795.6	51.9			
FH (60°-80°)	6375.9	33.8			G3/7500
FVH (80°-90°)	98.0	0.5			G1/100
BL (0°-30°)	348.2	1.8	B1/500		
BM (30°-60°)	471.9	2.5	B1/1000		
BH (60°-80°)	340.4	1.8	B1/500		G1/500
BVH (80°-90°)	5.3	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





REPORT NUMBER: P459110
 CATALOG NUMBER: GALN-SA6A-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2467.4	2436.7	2446.5	2432.5	2400.4	2352.9	2311.0	2251.0	2190.9	2181.2	2114.1
5°	2792.8	2784.4	2773.2	2732.7	2710.4	2637.8	2551.2	2447.9	2323.6	2301.3	2179.8
7.5°	3014.8	3010.6	3016.2	2995.3	2975.7	2910.1	2817.9	2676.9	2484.2	2471.6	2269.1
10°	3087.4	3098.6	3119.5	3153.0	3183.8	3162.8	3093.0	2917.1	2692.2	2655.9	2371.1
12.5°	3045.5	3058.1	3108.4	3197.7	3296.9	3354.1	3326.2	3197.7	2912.9	2883.5	2485.6
15°	2938.0	2953.4	3024.6	3162.8	3340.2	3502.1	3572.0	3479.8	3169.8	3122.3	2623.8
17.5°	2778.8	2801.2	2903.1	3086.0	3329.0	3608.3	3805.2	3774.4	3443.5	3398.8	2774.6
20°	2658.7	2675.5	2762.1	2971.5	3281.5	3666.9	4027.2	4113.8	3781.4	3704.6	2952.0
22.5°	2738.3	2743.9	2773.2	2898.9	3196.3	3682.3	4222.7	4467.1	4140.3	4071.9	3136.3
25°	3127.9	3072.1	3042.7	3014.8	3178.2	3668.3	4400.0	4835.7	4497.8	4425.2	3319.2
27.5°	3742.3	3717.2	3569.2	3370.9	3333.2	3686.5	4517.3	5184.8	4834.3	4756.1	3498.0
30°	4411.2	4367.9	4277.1	3986.7	3694.8	3814.9	4602.5	5524.1	5232.3	5128.9	3661.3
32.5°	5025.6	5053.5	4918.1	4619.3	4281.3	4088.6	4712.8	5894.2	5688.9	5560.4	3851.2
35°	5742.0	5797.8	5589.8	5303.5	4908.3	4583.0	4927.9	6311.7	6268.4	6106.4	4144.5
37.5°	6469.5	6503.0	6375.9	5973.8	5617.7	5211.3	5332.8	6827.0	6982.0	6843.7	4495.0
40°	7081.1	7127.2	7033.6	6676.1	6296.3	5938.8	5920.7	7388.3	7831.0	7688.5	5017.2
42.5°	7548.9	7583.8	7586.6	7333.8	6991.7	6829.7	6670.6	8104.6	8895.0	8730.2	5623.3
45°	8139.6	8189.8	8160.5	7988.7	7733.2	7703.9	7621.5	8970.4	10168.5	9960.5	6409.4
47.5°	9052.8	9086.3	9013.7	8811.2	8551.5	8597.6	8548.7	9940.9	11467.2	11288.4	7223.5
50°	9686.8	9742.6	9845.9	9926.9	9738.4	9568.1	9422.8	10847.2	12700.2	12539.6	8055.8
52.5°	9679.8	9771.9	10098.7	10506.4	10918.4	10866.7	10449.2	11848.4	13877.3	13679.0	8837.8
55°	9027.7	9206.4	9686.8	10410.1	11550.9	12119.3	11929.4	13007.4	14893.9	14759.8	9744.0
57.5°	7681.5	7790.5	8457.9	9468.9	11197.7	12708.5	13644.1	14578.3	16112.9	16050.1	11151.6
60°	5166.6	5215.5	6074.3	7324.1	9533.2	12120.7	14900.9	16478.8	17614.1	17583.3	12795.1
62.5°	2960.3	2981.3	3604.1	4658.4	6783.7	10271.8	15007.0	18823.3	19414.0	19430.8	14697.0
65°	1593.3	1604.5	2107.2	2734.1	4127.7	7321.3	13494.7	20108.0	20869.1	20901.2	15875.6
66°	1375.4	1322.4	1677.1	2330.6	3284.3	5827.1	12538.2	20061.9	21148.3	21113.4	15833.7
67.5°	1045.9	1093.4	1339.1	1791.6	2433.9	4143.1	10351.4	19169.6	20936.1	20827.2	15189.9
70°	748.5	768.0	953.7	1277.7	1657.5	2273.3	6614.7	15921.6	19028.6	18882.0	13233.6
72.5°	483.2	504.1	675.9	924.4	1198.1	1241.4	3703.2	11503.5	14670.5	14649.5	9966.0
75°	344.9	364.5	446.8	661.9	900.7	768.0	1783.2	7752.8	9326.5	9263.7	6165.1
77.5°	250.0	259.7	298.8	432.9	643.7	550.2	826.7	4140.3	4643.0	4862.2	2724.4
80°	143.8	152.2	208.1	263.9	435.7	375.6	395.2	1661.7	1713.4	1631.0	851.8
82.5°	71.2	81.0	124.3	180.1	272.3	252.7	181.5	499.9	527.8	513.9	215.0
85°	16.8	20.9	69.8	118.7	132.7	113.1	88.0	146.6	181.5	177.3	82.4
87.5°	1.4	2.8	25.1	20.9	22.3	37.7	30.7	37.7	58.6	54.5	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459110
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2083.4	2056.9	1980.1	1904.7	1841.8	1776.2	1716.2	1681.3	1667.3	1651.9	1658.9
5°	2112.7	2048.5	1893.5	1759.5	1628.2	1516.5	1427.1	1369.9	1341.9	1337.7	1330.8
7.5°	2151.8	2041.5	1801.3	1591.9	1420.1	1295.9	1193.9	1111.5	1086.4	1064.0	1045.9
10°	2199.3	2029.0	1686.8	1415.9	1233.0	1076.6	942.6	844.8	794.5	780.6	790.4
12.5°	2249.6	2005.2	1566.8	1254.0	1043.1	843.4	719.1	670.3	656.3	650.7	652.1
15°	2299.9	1975.9	1441.1	1097.6	830.9	673.1	615.8	603.2	597.7	594.9	592.1
17.5°	2345.9	1928.4	1300.0	945.4	673.1	575.3	554.4	543.2	532.0	527.8	520.9
20°	2400.4	1874.0	1173.0	775.0	569.7	520.9	495.7	474.8	458.0	446.8	445.4
22.5°	2452.1	1804.1	1040.3	642.3	519.5	467.8	427.3	405.0	385.4	371.4	375.6
25°	2480.0	1719.0	921.6	560.0	473.4	414.7	370.0	342.1	321.2	314.2	312.8
27.5°	2480.0	1614.2	805.7	512.5	431.5	367.3	321.2	294.6	280.7	270.9	272.3
30°	2460.4	1498.3	698.2	476.2	395.2	325.4	282.1	258.3	247.2	240.2	238.8
32.5°	2445.1	1388.0	606.0	441.3	357.5	289.1	251.4	233.2	222.0	215.0	215.0
35°	2468.8	1293.1	534.8	406.3	322.6	261.1	227.6	210.9	199.7	194.1	192.7
37.5°	2531.7	1206.5	480.4	368.6	290.4	237.4	210.9	191.3	180.1	173.2	170.4
40°	2686.7	1157.6	439.9	333.7	259.7	217.8	191.3	173.2	159.2	152.2	150.8
42.5°	2935.2	1159.0	400.8	301.6	236.0	201.1	174.5	153.6	138.2	131.3	129.9
45°	3309.4	1212.1	370.0	270.9	215.0	182.9	156.4	134.1	120.1	113.1	113.1
47.5°	3757.7	1315.4	343.5	244.4	195.5	166.2	138.2	115.9	101.9	96.4	96.4
50°	4243.6	1449.5	317.0	216.4	178.7	148.0	118.7	100.5	89.4	85.2	85.2
52.5°	4739.3	1611.4	290.4	194.1	160.6	128.5	101.9	89.4	79.6	76.8	75.4
55°	5390.1	1818.1	262.5	170.4	141.0	110.3	90.8	78.2	67.0	62.8	61.4
57.5°	6391.3	2129.5	231.8	149.4	115.9	92.2	78.2	65.6	53.1	46.1	44.7
60°	7599.2	2509.3	199.7	131.3	93.6	75.4	62.8	50.3	39.1	30.7	29.3
62.5°	8730.2	2750.9	169.0	110.3	74.0	57.3	44.7	37.7	27.9	19.5	18.2
65°	9230.1	2669.9	139.6	89.4	58.6	40.5	29.3	26.5	16.8	8.4	7.0
66°	9064.0	2549.8	128.5	81.0	53.1	34.9	25.1	22.3	12.6	4.2	4.2
67.5°	8573.8	2266.3	111.7	69.8	46.1	27.9	19.5	16.8	7.0	1.4	0.0
70°	7346.4	1833.5	88.0	51.7	33.5	19.5	11.2	8.4	4.2	0.0	0.0
72.5°	5642.8	1365.7	69.8	39.1	23.7	11.2	5.6	2.8	4.2	0.0	0.0
75°	3457.5	780.6	54.5	29.3	15.4	7.0	4.2	0.0	4.2	1.4	0.0
77.5°	1534.6	350.5	36.3	19.5	11.2	5.6	2.8	0.0	2.8	1.4	0.0
80°	388.2	114.5	20.9	14.0	8.4	4.2	1.4	0.0	2.8	2.8	1.4
82.5°	106.1	41.9	15.4	11.2	7.0	4.2	1.4	0.0	2.8	2.8	2.8
85°	41.9	19.5	14.0	11.2	8.4	4.2	1.4	0.0	2.8	2.8	2.8
87.5°	19.5	14.0	14.0	12.6	9.8	4.2	1.4	0.0	2.8	1.4	2.8
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)