

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: P529377

Luminaire Tested: **GALN-SA4C-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15151 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

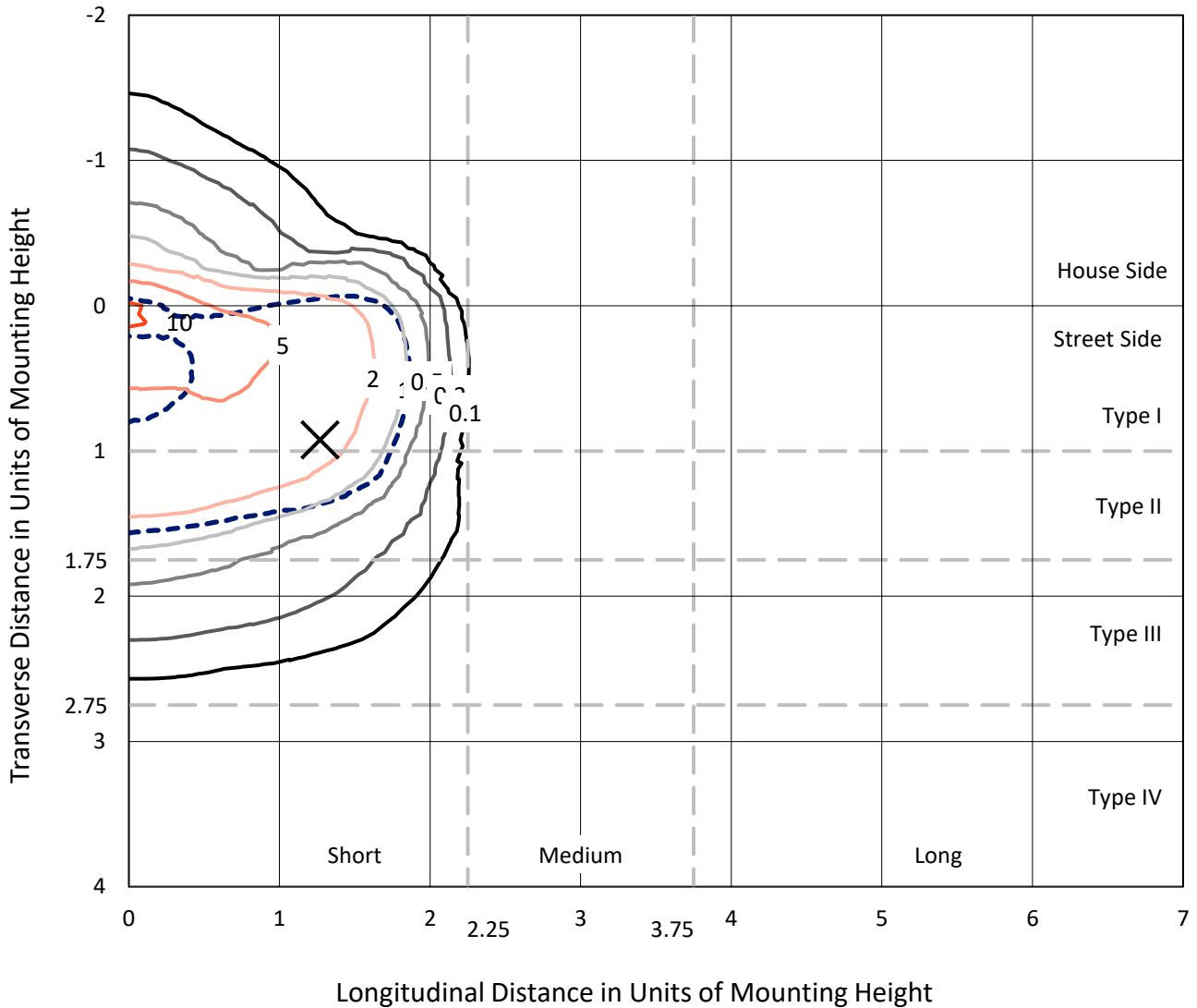
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

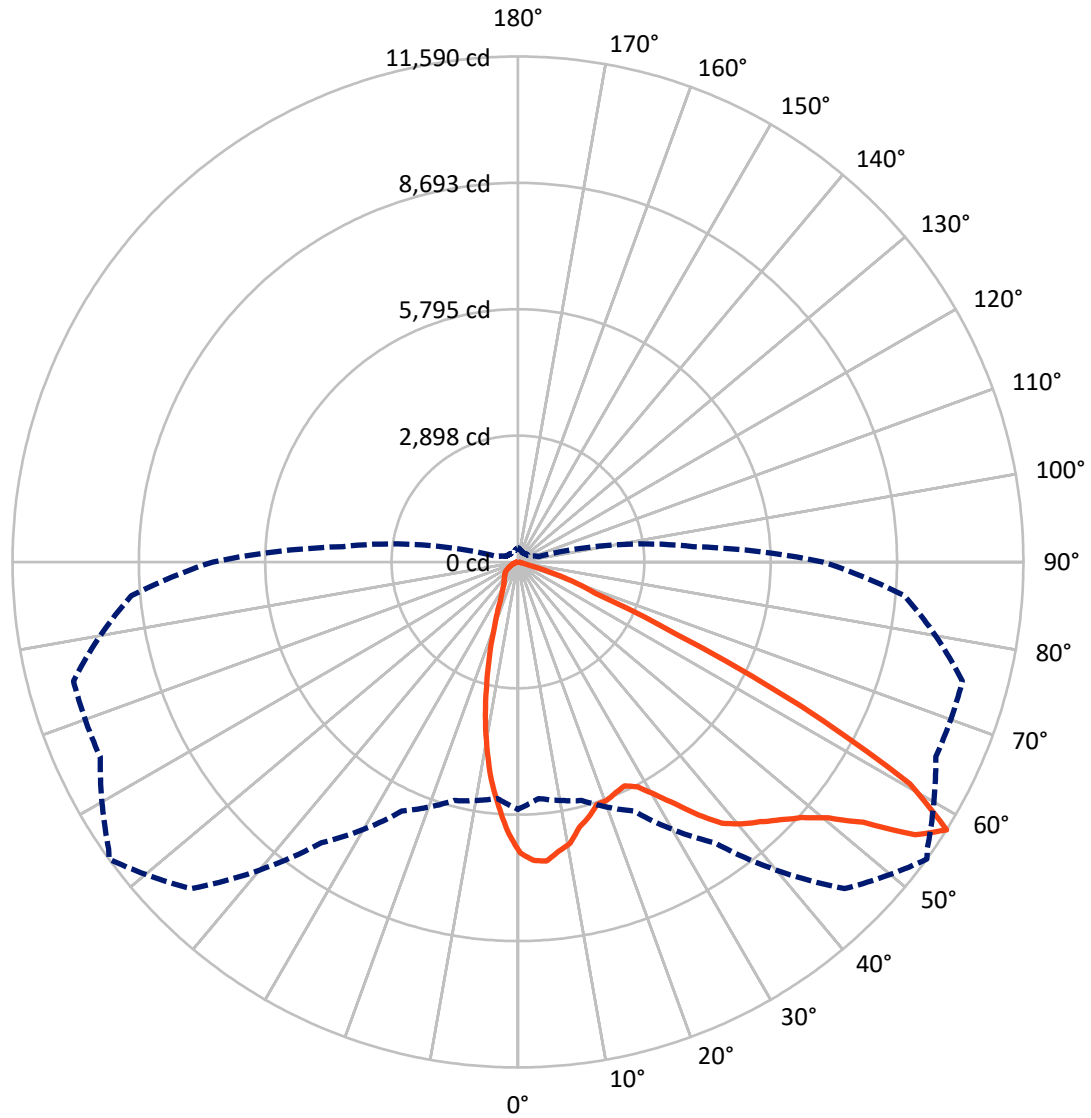
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2141.1	0.0	2141.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	13009.9	0.0	13009.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	15151.0	0.0	15151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.5	3.7
10°-20°	1192.4	7.9
20°-30°	1580.2	10.4
30°-40°	2296.4	15.2
40°-50°	3405.3	22.5
50°-60°	4258.2	28.1
60°-70°	1679.7	11.1
70°-80°	167.2	1.1
80°-90°	13.0	0.1
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°	15151.0	100.0
0°-180°	15151.0	100.0

Coefficient of Utilization

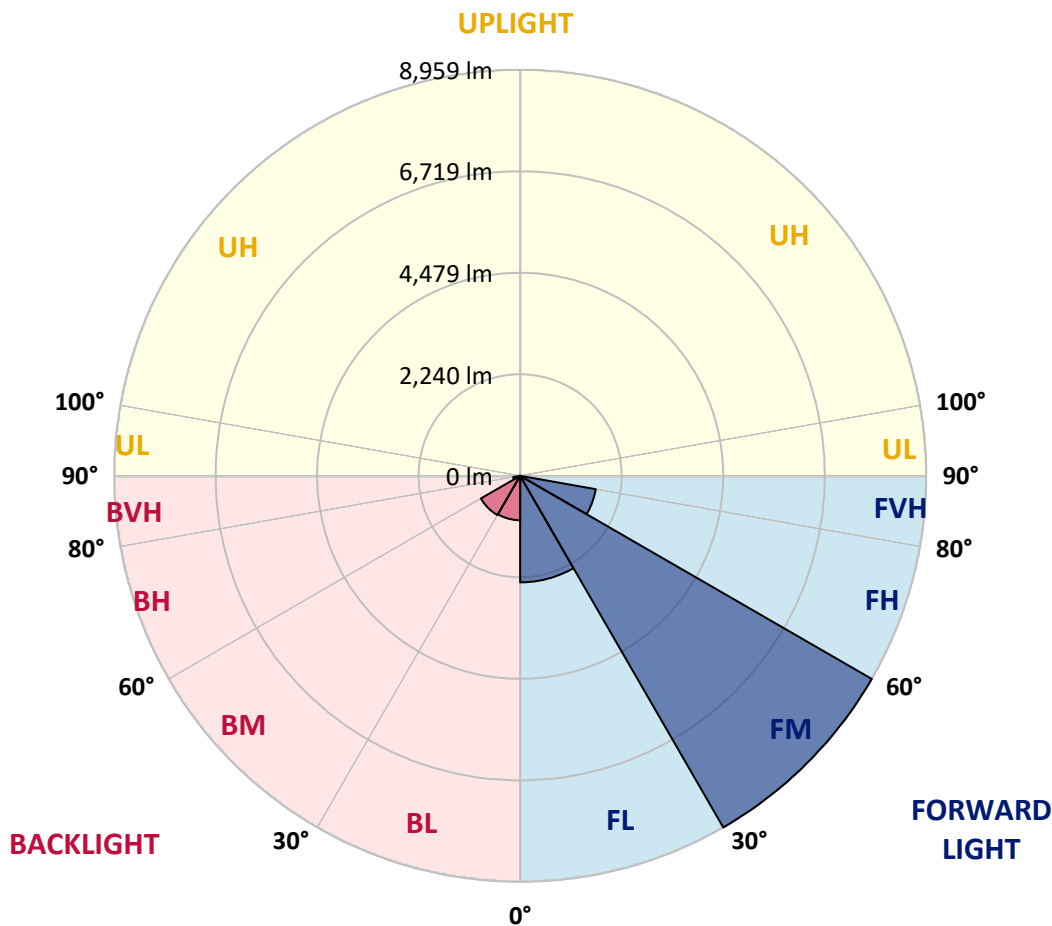


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2351.9	15.5			
FM (30°-60°)	8958.8	59.1			
FH (60°-80°)	1693.4	11.2			G1/1800
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	979.2	6.5	B2/1000		
BM (30°-60°)	1001.2	6.6	B2/2500		
BH (60°-80°)	153.5	1.0	B1/500		G1/500
BVH (80°-90°)	7.1	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2
2.5°	7063.0	6989.8	6995.4	6970.0	6936.2	6961.6	6851.7	6877.1	6874.2	6724.9	6626.3
5°	6885.5	6964.4	6882.7	6950.3	6885.5	6956.0	6888.3	6837.6	6755.9	6646.0	6462.9
7.5°	6584.1	6508.0	6530.5	6615.1	6629.1	6786.9	6702.4	6767.2	6733.4	6516.4	6265.7
10°	5978.3	5961.4	6074.1	6186.8	6324.9	6493.9	6558.7	6522.1	6496.7	6415.0	6079.8
12.5°	5513.5	5561.4	5558.6	5744.5	5978.3	6074.1	6243.2	6237.5	6378.4	6226.3	5905.1
15°	5071.2	5096.5	5214.9	5330.4	5589.6	5862.8	6071.3	6099.5	6268.5	6161.5	5769.9
17.5°	4800.7	4764.1	4857.1	4995.1	5259.9	5617.7	5848.7	5916.4	6147.4	6124.8	5614.9
20°	4533.1	4533.1	4609.1	4772.5	5014.8	5417.7	5829.0	5809.3	6147.4	6082.6	5448.7
22.5°	4442.9	4488.0	4507.7	4631.7	4919.0	5265.6	5744.5	5781.1	6195.3	6062.9	5375.4
25°	4566.9	4507.7	4513.3	4611.9	4882.4	5192.3	5682.5	5764.2	6282.6	6161.5	5316.3
27.5°	4586.6	4645.8	4662.7	4730.3	4910.6	5214.9	5837.5	6003.7	6499.5	6392.5	5333.2
30°	4758.4	4817.6	4814.8	4930.3	5054.3	5398.0	6184.0	6217.8	6947.5	6682.7	5437.4
32.5°	4966.9	5028.9	5048.6	5183.9	5282.5	5733.2	6606.6	6693.9	7378.5	7139.1	5710.7
35°	5226.1	5203.6	5293.7	5429.0	5640.3	6223.4	7122.2	7268.7	7843.4	7730.7	5992.4
37.5°	5550.1	5521.9	5609.3	5829.0	6116.4	6803.8	7598.3	7694.1	8181.5	8280.1	6513.6
40°	5778.3	5789.6	6054.4	6350.2	6654.5	7356.0	7899.8	7992.7	8418.1	8792.8	6908.1
42.5°	6158.7	6229.1	6547.4	6908.1	7226.4	7770.2	8144.9	8235.0	8528.0	9204.2	7440.5
45°	6710.8	6679.9	7032.0	7434.9	7787.1	8201.2	8435.0	8404.1	8592.8	9612.7	7775.8
47.5°	7420.8	7426.4	7660.3	8004.0	8370.2	8575.9	8759.0	8649.2	8728.0	10043.7	8223.7
50°	7905.4	7947.6	8136.4	8488.6	8671.7	8987.2	9221.1	9153.5	9128.1	10302.9	8505.5
52.5°	8029.3	8156.1	8257.6	8697.1	9125.3	9623.9	9922.6	10066.3	9615.5	10390.3	8863.3
55°	7094.0	7206.7	7564.5	8167.4	9297.1	10632.5	11043.9	11046.7	10252.2	10779.0	9114.0
57.5°	5671.3	5443.1	5662.8	6302.3	7860.3	10590.3	11590.4	11458.0	10570.6	10550.8	8897.1
60°	3921.7	3865.4	3879.4	4133.0	5440.2	8423.8	10328.3	10500.1	9733.8	9145.0	7043.3
62.5°	3107.5	3059.6	2997.6	2969.5	3378.0	5248.7	7285.6	7527.9	6806.6	5930.4	4175.3
65°	2434.2	2406.0	2414.4	2527.1	2524.3	2977.9	3983.7	3885.1	3110.3	2298.9	1312.9
67.5°	1642.5	1684.8	1718.6	2059.5	2234.1	2073.5	1924.2	1867.9	1011.4	425.4	290.2
70°	924.1	929.7	966.3	1287.5	1696.0	1608.7	1327.0	1327.0	504.3	155.0	166.2
72.5°	504.3	487.4	453.6	555.0	755.0	766.3	591.6	515.6	149.3	101.4	93.0
75°	245.1	242.3	208.5	171.9	163.4	135.2	104.2	95.8	67.6	64.8	56.3
77.5°	50.7	47.9	25.4	25.4	28.2	31.0	39.4	39.4	47.9	47.9	39.4
80°	0.0	0.0	2.8	11.3	19.7	28.2	33.8	33.8	39.4	39.4	31.0
82.5°	0.0	0.0	2.8	8.5	16.9	25.4	31.0	33.8	39.4	42.3	33.8
85°	0.0	0.0	0.0	5.6	14.1	19.7	16.9	16.9	14.1	11.3	5.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2	6674.2
2.5°	6575.6	6570.0	6440.4	6367.1	6234.7	6119.2	6026.2	5958.6	5958.6	5916.4	5876.9
5°	6389.7	6341.8	6065.7	5888.2	5637.4	5451.5	5324.7	5226.1	5071.2	5113.4	4947.2
7.5°	6158.7	6037.5	5671.3	5400.8	5054.3	4789.4	4519.0	4279.5	4048.5	3944.2	4000.6
10°	5910.7	5699.4	5206.4	4778.2	4347.1	3862.5	3547.0	3163.8	2927.2	2913.1	2851.1
12.5°	5648.7	5409.2	4809.2	4217.5	3651.2	3068.1	2586.3	2228.5	2067.9	1890.4	1924.2
15°	5451.5	5096.5	4366.8	3654.1	2901.8	2313.0	1828.4	1552.3	1400.2	1357.9	1343.9
17.5°	5237.4	4857.1	3916.1	3054.0	2276.4	1665.0	1315.7	1183.3	1124.1	1124.1	1115.7
20°	5014.8	4586.6	3468.1	2496.1	1707.3	1242.4	1053.7	1011.4	1008.6	1005.8	1005.8
22.5°	4868.3	4276.7	3062.4	1983.4	1287.5	994.5	915.6	898.7	910.0	943.8	943.8
25°	4713.4	3978.0	2614.5	1529.8	997.3	853.6	808.6	819.8	848.0	879.0	867.7
27.5°	4555.6	3783.7	2191.9	1200.2	817.0	746.6	729.7	755.0	786.0	814.2	805.8
30°	4519.0	3575.2	1791.8	910.0	701.5	650.8	662.1	684.6	715.6	726.9	738.1
32.5°	4575.3	3411.8	1467.8	746.6	611.4	597.3	597.3	608.5	628.3	653.6	645.2
35°	4735.9	3318.8	1160.7	648.0	560.6	546.6	543.7	555.0	566.3	574.7	566.3
37.5°	4981.0	3245.5	949.4	574.7	526.8	504.3	498.7	495.8	507.1	509.9	515.6
40°	5293.7	3285.0	805.8	529.7	493.0	467.7	450.8	450.8	450.8	459.2	462.0
42.5°	5631.8	3338.5	695.9	504.3	462.0	431.0	414.1	408.5	414.1	425.4	422.6
45°	5986.8	3442.8	625.4	464.9	433.9	394.4	371.9	366.3	380.3	402.9	400.1
47.5°	6319.2	3592.1	571.9	439.5	405.7	369.1	340.9	335.3	360.6	391.6	394.4
50°	6651.7	3851.3	552.2	419.8	386.0	343.7	318.4	312.7	340.9	380.3	388.8
52.5°	7034.8	4130.2	538.1	394.4	363.4	324.0	295.8	290.2	321.2	371.9	374.7
55°	7285.6	4366.8	526.8	349.3	321.2	293.0	270.5	267.6	301.5	346.5	357.8
57.5°	6992.6	4037.2	487.4	304.3	273.3	259.2	239.5	239.5	267.6	309.9	318.4
60°	5302.2	2656.7	346.5	245.1	231.0	222.6	214.1	214.1	236.7	267.6	270.5
62.5°	3104.7	1431.2	222.6	197.2	197.2	188.8	174.7	174.7	197.2	214.1	216.9
65°	921.3	459.2	180.3	169.0	166.2	152.1	138.0	135.2	152.1	160.6	157.8
67.5°	264.8	211.3	149.3	140.9	138.0	115.5	107.1	104.2	107.1	101.4	98.6
70°	157.8	143.7	115.5	118.3	104.2	84.5	76.1	73.3	67.6	59.2	53.5
72.5°	87.3	87.3	84.5	90.2	73.3	56.3	47.9	39.4	31.0	25.4	22.5
75°	53.5	56.3	59.2	62.0	47.9	36.6	31.0	19.7	11.3	5.6	5.6
77.5°	36.6	39.4	42.3	45.1	39.4	33.8	25.4	14.1	2.8	0.0	0.0
80°	28.2	31.0	36.6	39.4	42.3	45.1	33.8	14.1	2.8	0.0	0.0
82.5°	31.0	33.8	42.3	39.4	39.4	39.4	31.0	14.1	2.8	0.0	0.0
85°	5.6	8.5	14.1	14.1	19.7	25.4	19.7	5.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)