

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: P532114

Luminaire Tested: **GALN-SA7C-722-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-722-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30195 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

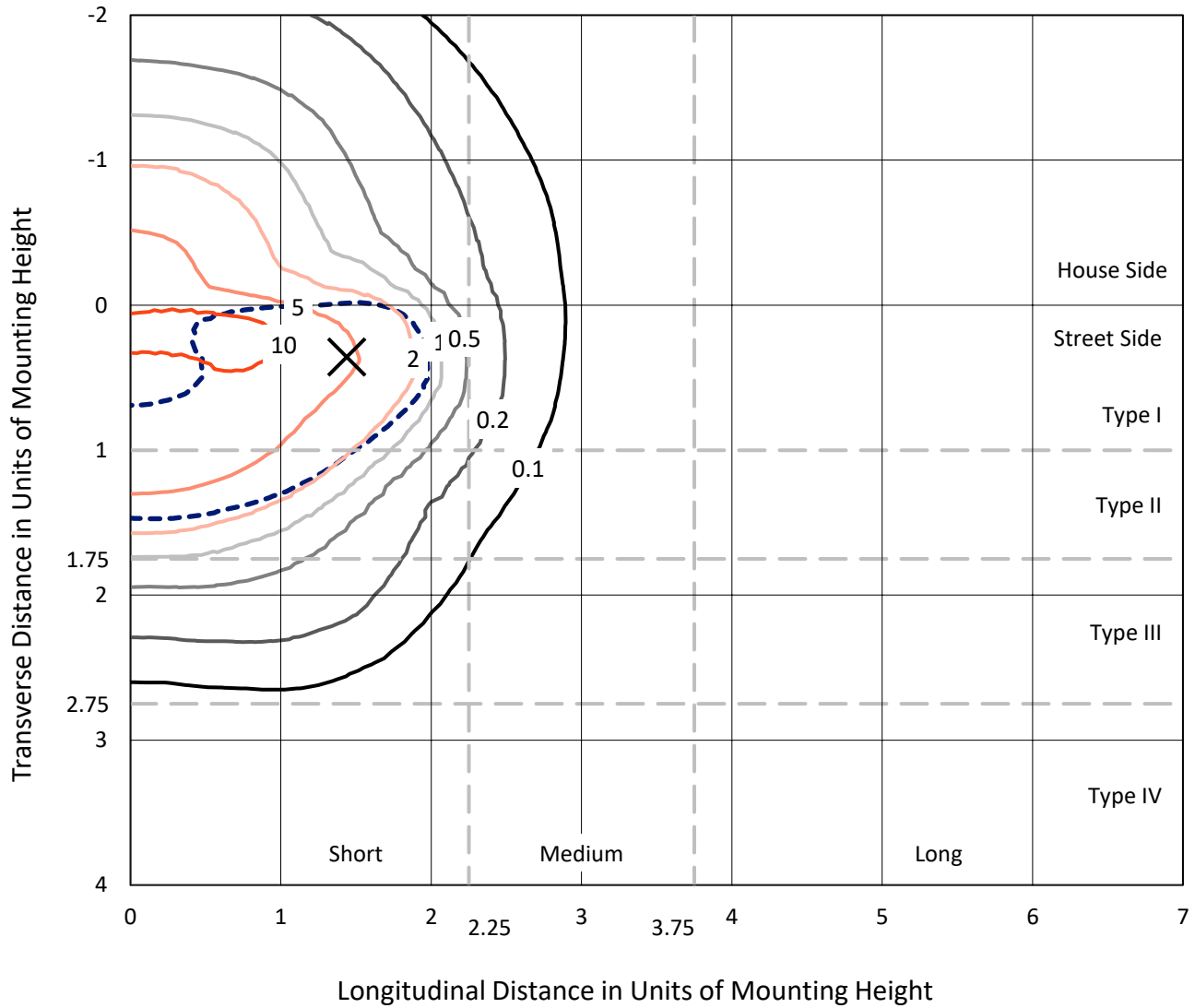
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

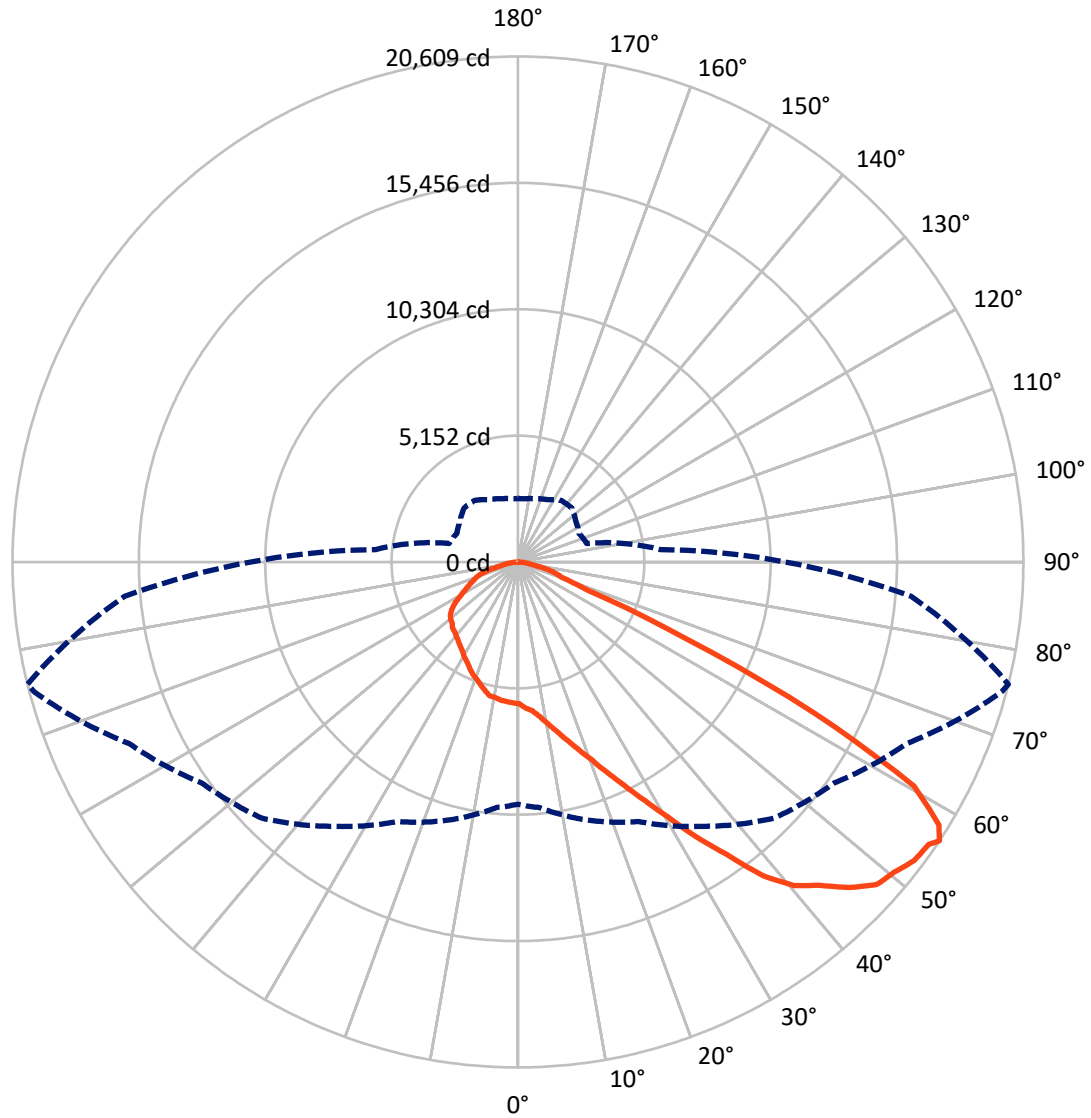
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8118.5	0.0	8118.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22076.5	0.0	22076.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	30195.0	0.0	30195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.9	1.9
10°-20°	1799.8	6.0
20°-30°	3147.6	10.4
30°-40°	4928.3	16.3
40°-50°	7169.2	23.7
50°-60°	7879.4	26.1
60°-70°	3517.0	11.6
70°-80°	1015.9	3.4
80°-90°	164.8	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°	30195.0	100.0
0°-180°	30195.0	100.0

Coefficient of Utilization



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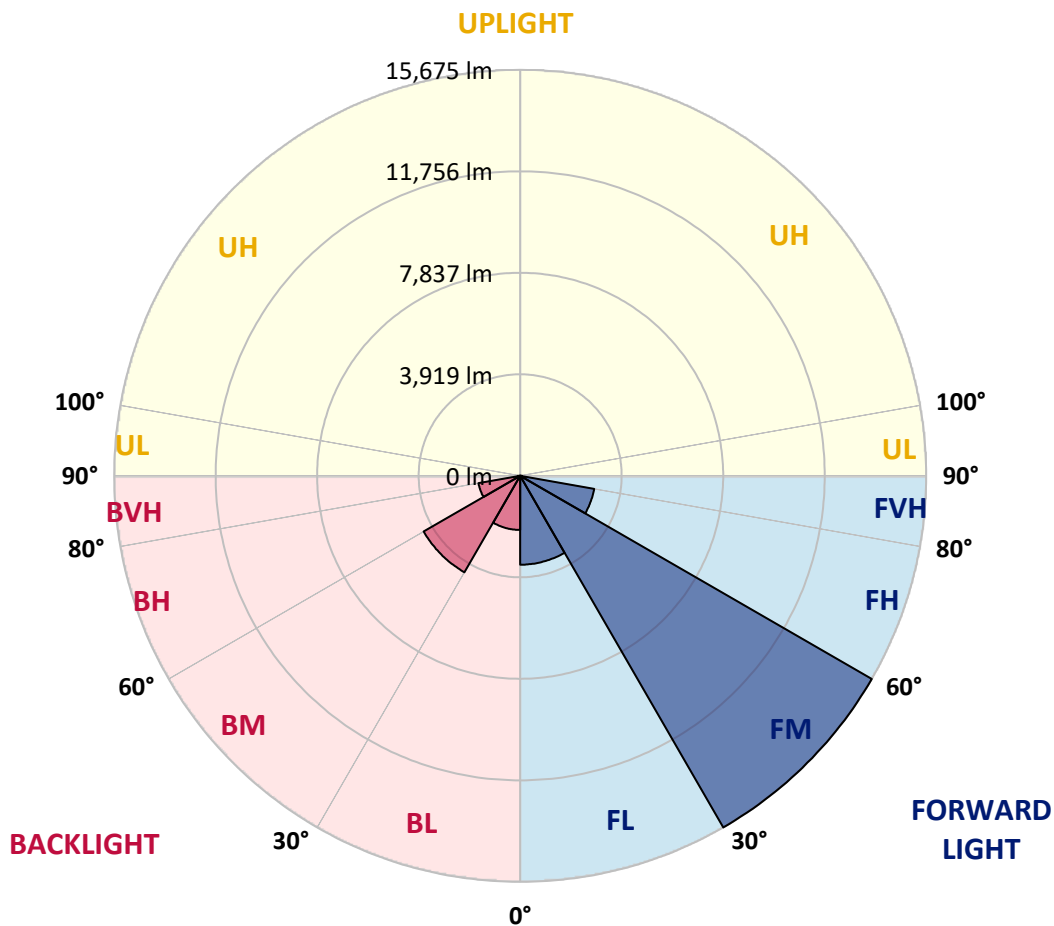
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3431.3	11.4			
FM (30°-60°)	15674.8	51.9			
FH (60°-80°)	2899.4	9.6			G2/5000
FVH (80°-90°)	70.9	0.2			G1/100
BL (0°-30°)	2089.1	6.9	B3/2500		
BM (30°-60°)	4302.2	14.2	B3/5000		
BH (60°-80°)	1633.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	93.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4
2.5°	6364.6	6262.8	6255.0	6227.6	6243.2	6172.8	6098.4	6000.5	5898.8	5961.4	5812.7
5°	6810.8	6673.8	6728.6	6634.6	6646.4	6552.4	6399.8	6286.3	6161.0	6086.7	5981.0
7.5°	6967.4	6979.1	7018.2	7002.6	6924.3	6924.3	6822.5	6622.9	6403.7	6360.6	6184.5
10°	7178.7	7182.6	7139.6	7151.3	7260.9	7210.0	7120.0	7033.9	6752.1	6701.2	6388.0
12.5°	7253.1	7182.6	7253.1	7315.7	7444.9	7515.4	7495.8	7433.2	7131.8	7096.5	6638.6
15°	7264.8	7221.8	7280.5	7421.4	7534.9	7832.4	7981.1	7938.1	7538.8	7542.8	6920.4
17.5°	7210.0	7268.8	7292.2	7413.6	7675.8	7953.7	8384.3	8443.0	8114.2	8063.3	7276.6
20°	7284.4	7241.4	7272.7	7382.3	7730.6	8165.1	8728.8	9116.3	8654.4	8619.2	7644.5
22.5°	7570.1	7511.4	7503.6	7574.1	7824.6	8274.7	9092.8	9789.5	9312.0	9331.6	8102.5
25°	7793.3	7824.6	7797.2	7793.3	7949.8	8439.1	9574.2	10591.9	10204.4	10090.9	8642.7
27.5°	8176.9	8251.2	8196.4	8270.8	8235.6	8685.7	9918.7	11480.5	11167.3	11014.7	9131.9
30°	8709.2	8748.3	8697.5	8697.5	8591.8	9030.2	10231.8	12408.2	12279.0	12071.5	9707.3
32.5°	9409.8	9468.6	9366.8	9308.1	9292.4	9542.9	10795.5	13324.1	13543.3	13367.1	10470.6
35°	10337.5	10302.3	10181.0	10126.2	9914.8	10329.7	11633.1	14377.0	14952.4	14639.3	11394.4
37.5°	11155.6	11100.8	11093.0	10787.7	10838.5	11179.1	12345.5	15175.5	16318.5	16228.5	12369.0
40°	11918.9	11969.8	12052.0	11879.7	11801.4	12177.2	13175.3	15786.1	17379.2	17344.0	13120.5
42.5°	12737.0	12690.0	12834.8	12690.0	12572.6	13104.9	14075.6	16208.9	18310.8	18021.2	13907.3
45°	13923.0	13774.2	13825.1	13836.9	13750.7	13946.5	14447.5	16514.2	18964.5	18933.2	14482.7
47.5°	14913.3	14917.2	14831.1	14764.5	14502.3	14698.0	14862.4	16706.0	19716.1	19665.2	14705.8
50°	15281.2	15230.3	15480.8	15625.7	15641.3	15242.1	15187.3	16811.7	20111.4	19888.3	14928.9
52.5°	13958.2	14005.2	14400.5	15261.6	15758.8	15801.8	15567.0	17030.9	20271.9	20224.9	15109.0
55°	11233.9	11460.9	12110.7	13104.9	14283.1	15578.7	15977.9	17257.9	20358.0	20318.8	15907.5
56°	9875.6	10051.8	10897.3	11676.2	13155.8	14768.4	15719.6	17500.6	20424.5	20608.5	16095.4
57.5°	7949.8	8153.4	8760.1	9644.7	11390.5	13226.2	15007.2	17203.1	20166.2	20236.6	16232.4
60°	4971.1	4990.7	5718.7	6301.9	7531.0	9323.7	11453.1	14968.1	18663.1	18561.3	14580.6
62.5°	3260.6	3264.5	3926.0	4403.5	4963.3	5374.3	6740.3	9926.5	13770.3	13590.3	10380.6
65°	2289.8	2340.7	2853.5	3491.5	3718.5	3503.2	3460.2	5233.3	7691.5	7433.2	5577.8
67.5°	1675.3	1679.2	2133.3	2818.3	3147.1	2665.6	2164.6	2556.0	3045.3	3037.5	2583.4
70°	1107.7	1154.7	1503.1	2105.9	2481.6	2141.1	1769.2	1828.0	1937.6	1937.6	1921.9
72.5°	645.9	688.9	919.8	1334.8	1393.5	1338.7	1401.3	1565.7	1636.2	1632.2	1612.7
75°	367.9	387.5	438.4	555.8	692.8	818.1	1029.4	1186.0	1256.5	1299.5	1248.6
77.5°	215.3	227.0	258.3	317.1	360.1	442.3	559.7	669.3	763.3	751.5	759.4
80°	113.5	113.5	144.8	187.9	250.5	313.1	371.9	434.5	485.4	497.1	508.9
82.5°	66.5	70.5	93.9	137.0	180.1	223.1	285.7	328.8	375.8	379.7	387.5
85°	35.2	39.1	58.7	90.0	121.3	137.0	140.9	133.1	144.8	137.0	156.6
87.5°	11.7	11.7	19.6	15.7	15.7	19.6	23.5	23.5	31.3	31.3	31.3
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°	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4	5777.4
2.5°	5808.7	5808.7	5742.2	5616.9	5597.4	5546.5	5499.5	5495.6	5460.4	5429.1	5413.4
5°	5918.3	5797.0	5699.1	5585.6	5452.5	5389.9	5319.5	5241.2	5209.9	5241.2	5237.3
7.5°	6043.6	5941.8	5648.3	5436.9	5284.2	5221.6	5143.3	5061.1	5068.9	5068.9	5014.1
10°	6164.9	6027.9	5558.2	5288.1	5065.0	5018.1	4975.0	5006.3	5045.5	5053.3	5018.1
12.5°	6368.5	6059.3	5515.2	5139.4	4998.5	4896.7	4924.1	5010.2	5092.4	5068.9	5096.3
15°	6521.1	6086.7	5319.5	4986.7	4810.6	4857.6	4955.4	5014.1	5151.1	5135.5	5162.9
17.5°	6669.9	6102.3	5127.7	4783.2	4708.8	4838.0	4912.4	5080.7	5123.7	5217.7	5252.9
20°	6975.2	6133.6	4931.9	4658.0	4634.5	4783.2	4912.4	4990.7	5084.6	5166.8	5166.8
22.5°	7131.8	6118.0	4802.8	4493.6	4567.9	4661.9	4779.3	4912.4	4912.4	4990.7	4994.6
25°	7327.5	6055.3	4599.2	4415.3	4470.1	4560.1	4693.2	4646.2	4697.1	4697.1	4759.7
27.5°	7550.6	5922.3	4423.1	4274.4	4384.0	4481.8	4501.4	4470.1	4411.4	4403.5	4380.0
30°	7730.6	5757.9	4293.9	4227.4	4317.4	4372.2	4309.6	4243.0	4141.3	4133.4	4078.6
32.5°	7977.2	5554.3	4133.4	4110.0	4211.7	4215.6	4196.1	4094.3	3945.6	3882.9	3820.3
35°	8392.1	5436.9	4012.1	4047.3	4078.6	4066.9	4031.7	3922.1	3773.3	3745.9	3722.4
37.5°	8697.5	5350.8	3886.8	3929.9	3957.3	3973.0	3867.3	3745.9	3749.8	3695.0	3679.4
40°	9041.9	5296.0	3785.1	3804.6	3808.6	3859.4	3730.3	3671.6	3699.0	3663.7	3687.2
42.5°	9484.2	5311.6	3679.4	3663.7	3738.1	3718.5	3655.9	3577.6	3593.3	3487.6	3503.2
45°	9719.1	5417.3	3616.8	3546.3	3628.5	3624.6	3542.4	3468.0	3374.1	3170.5	3178.4
47.5°	9875.6	5444.7	3468.0	3421.1	3507.2	3558.0	3464.1	3291.9	3158.8	3014.0	2978.7
50°	10036.1	5495.6	3397.6	3299.7	3334.9	3456.3	3338.9	3174.5	3045.3	2916.1	2935.7
52.5°	10177.0	5593.5	3260.6	3115.7	3178.4	3311.5	3248.8	3049.2	2908.3	2802.6	2771.3
55°	10803.3	5812.7	3029.6	2841.7	2990.5	3158.8	3123.6	2880.9	2728.2	2673.4	2665.6
56°	10901.2	5820.5	2908.3	2747.8	2884.8	3107.9	3064.9	2806.5	2669.5	2583.4	2587.3
57.5°	10916.8	5726.5	2736.1	2661.7	2779.1	3033.5	2978.7	2747.8	2559.9	2481.6	2458.1
60°	9605.6	4470.1	2520.8	2473.8	2610.8	2806.5	2786.9	2587.3	2375.9	2285.9	2329.0
62.5°	6548.5	3276.2	2352.5	2344.6	2415.1	2606.9	2556.0	2375.9	2199.8	2141.1	2113.7
65°	3812.5	2485.5	2188.1	2156.7	2215.5	2317.2	2352.5	2164.6	1980.6	1941.5	1929.7
67.5°	2250.7	2055.0	1976.7	1925.8	1906.2	1968.9	1996.3	1886.7	1702.7	1647.9	1694.9
70°	1882.8	1828.0	1831.9	1745.8	1698.8	1655.7	1632.2	1534.4	1381.7	1311.3	1291.7
72.5°	1624.4	1600.9	1585.3	1507.0	1463.9	1366.1	1264.3	1166.4	1052.9	994.2	998.1
75°	1240.8	1233.0	1240.8	1201.7	1127.3	1049.0	955.1	829.8	743.7	669.3	685.0
77.5°	739.8	763.3	775.0	759.4	728.0	657.6	598.9	516.7	434.5	375.8	367.9
80°	508.9	528.4	548.0	528.4	497.1	446.2	383.6	321.0	262.3	230.9	223.1
82.5°	387.5	407.1	418.8	399.3	360.1	305.3	262.3	219.2	172.2	140.9	133.1
85°	140.9	160.5	156.6	187.9	203.5	195.7	168.3	129.2	97.9	70.5	66.5
87.5°	39.1	35.2	39.1	39.1	39.1	35.2	31.3	31.3	31.3	19.6	15.7
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)