

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: P534408

Luminaire Tested: **GALN-SA9D-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45004 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

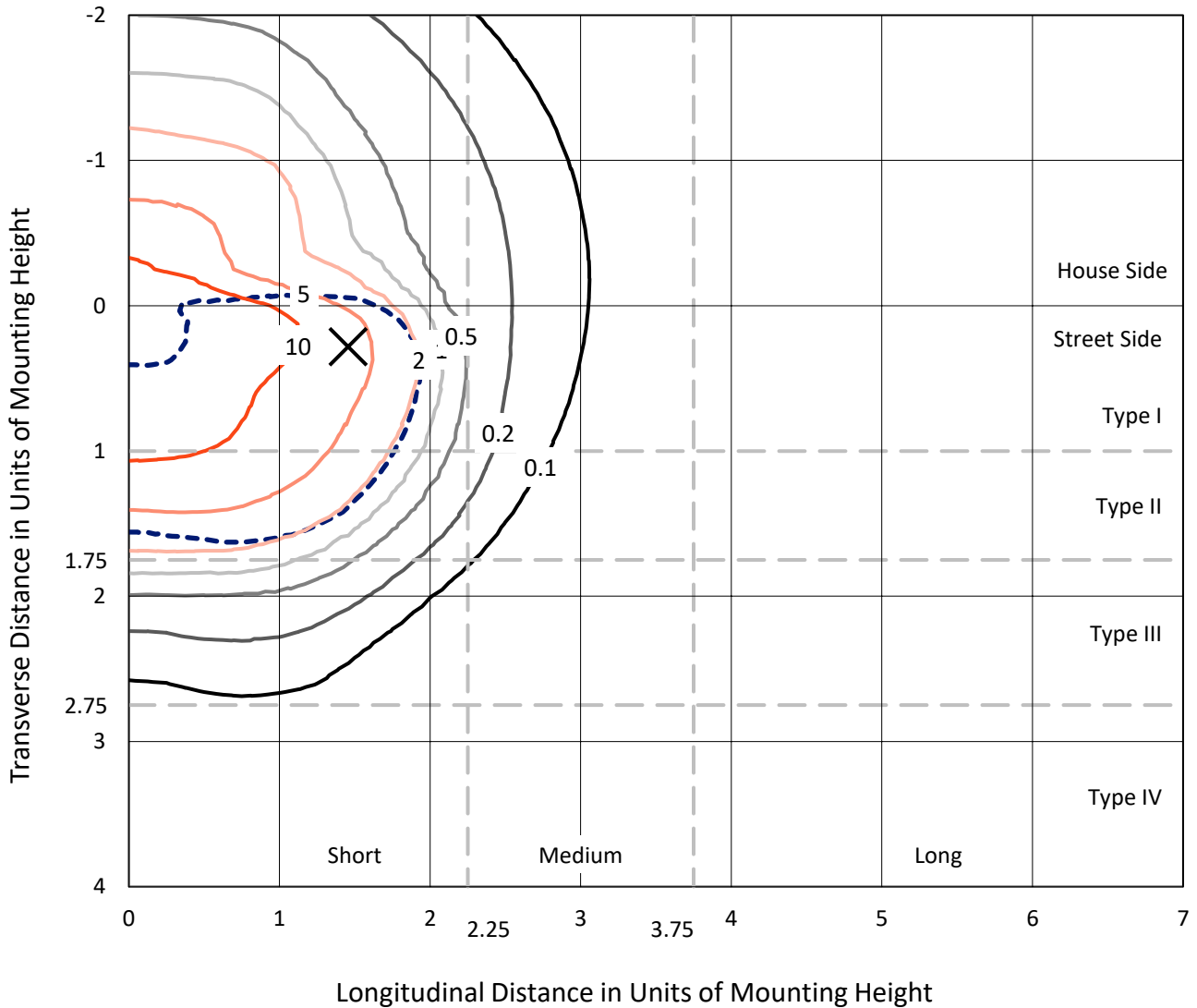
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

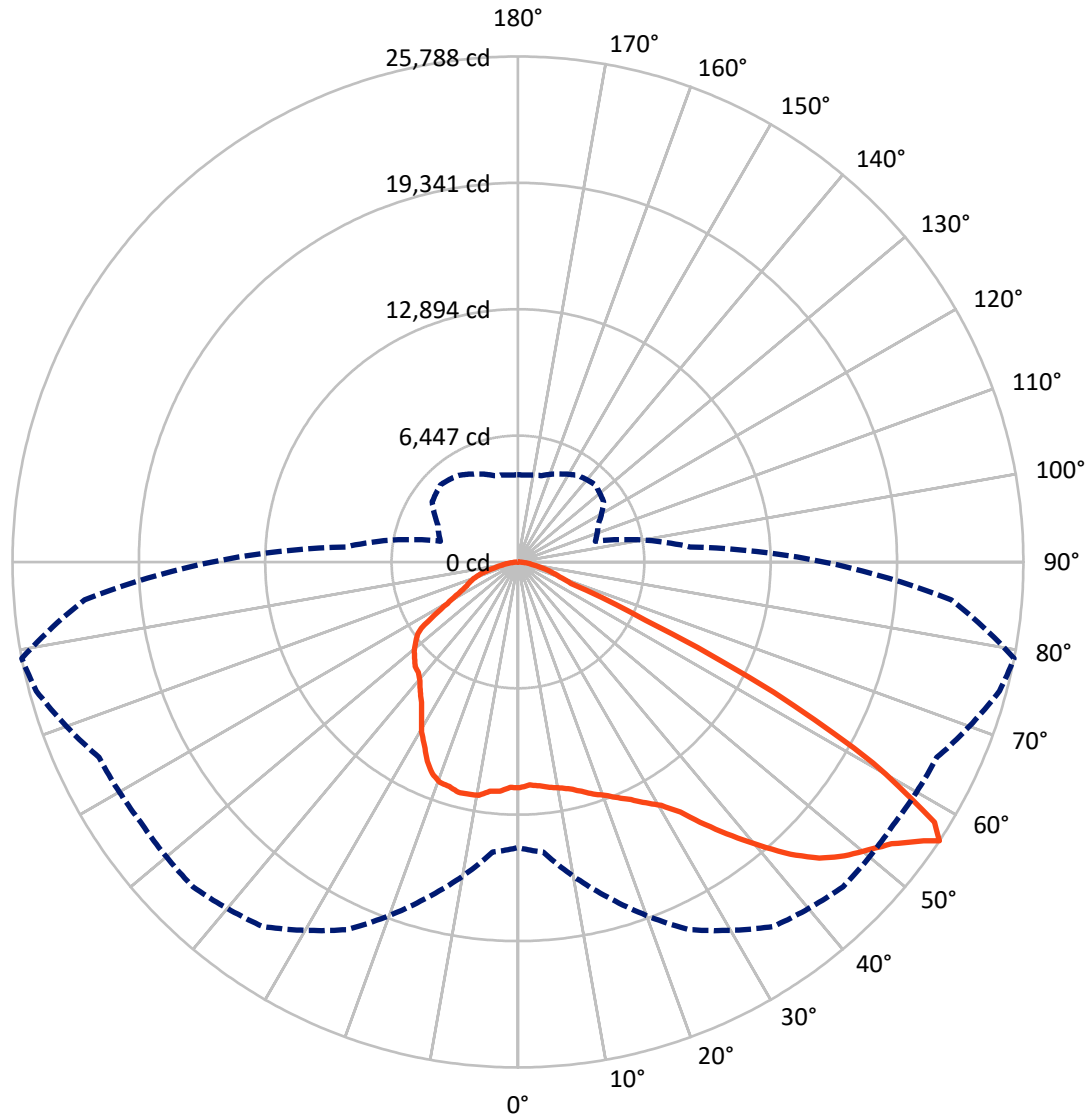
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13290.7	0.0	13290.7
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	31713.3	0.0	31713.3
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	45004.0	0.0	45004.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1046.9	2.3
10°-20°	2865.1	6.4
20°-30°	4901.6	10.9
30°-40°	7512.4	16.7
40°-50°	10152.9	22.6
50°-60°	11661.0	25.9
60°-70°	5315.4	11.8
70°-80°	1310.5	2.9
80°-90°	238.2	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°	45004.0	100.0
0°-180°	45004.0	100.0



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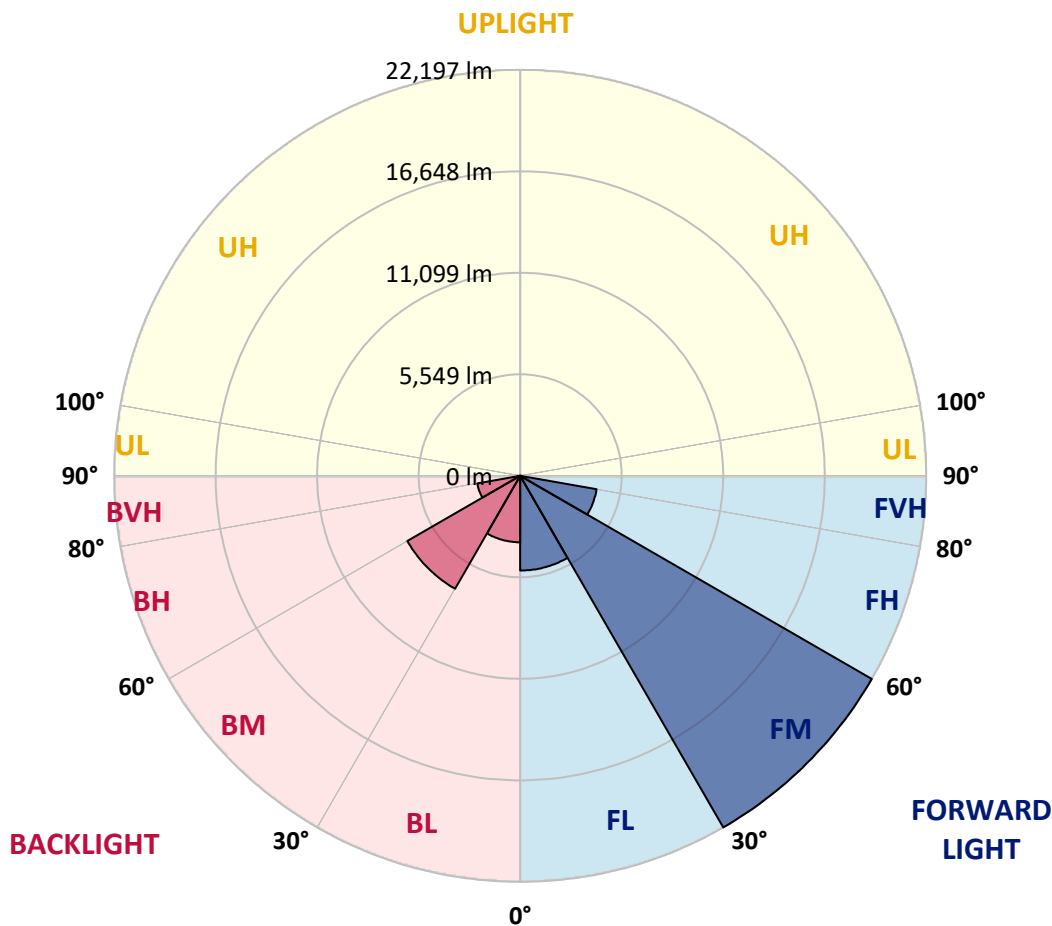
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5178.1	11.5			
FM (30°-60°)	22197.3	49.3			
FH (60°-80°)	4242.9	9.4			G2/5000
FVH (80°-90°)	95.1	0.2			G1/100
BL (0°-30°)	3635.6	8.1	B4/5000		
BM (30°-60°)	7128.9	15.8	B4/8500		
BH (60°-80°)	2383.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	143.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7
2.5°	10954.1	10926.1	10993.4	11043.8	11105.5	11184.0	11223.2	11245.7	11441.9	11391.4	11542.8
5°	10718.7	10645.8	10696.3	10735.5	10842.0	10937.3	11043.8	11212.0	11391.4	11469.9	11654.9
7.5°	10511.3	10472.0	10460.8	10488.8	10634.6	10757.9	10942.9	11189.6	11481.1	11610.0	11716.6
10°	10169.3	10113.2	10197.3	10382.3	10421.6	10679.4	10892.5	11245.7	11497.9	11722.2	12036.1
12.5°	10017.9	9961.9	9978.7	10085.2	10359.9	10606.6	10858.8	11256.9	11789.4	11879.1	12299.6
15°	10259.0	10202.9	10219.8	10191.7	10455.2	10584.1	10982.2	11481.1	11991.3	12142.6	12591.1
17.5°	10808.4	10814.0	10741.1	10679.4	10617.8	10892.5	11167.2	11615.6	12069.7	12450.9	12787.3
20°	11856.7	11671.7	11526.0	11178.4	11083.1	11200.8	11548.4	11980.0	12389.3	12703.2	13084.4
22.5°	12664.0	12680.8	12473.4	11901.6	11694.1	11744.6	12041.7	12394.9	12843.4	13067.6	13504.9
25°	13835.6	13717.9	13493.7	13039.6	12574.3	12613.5	12832.2	13151.7	13275.0	13432.0	13908.5
27.5°	14906.4	14940.0	14497.1	14071.1	13493.7	13381.5	13774.0	13830.0	13622.6	13919.7	14082.3
30°	15993.9	15965.9	15674.4	15175.5	14609.3	14631.7	14805.5	14530.8	14244.9	14407.4	14519.6
32.5°	17120.7	16801.2	16790.0	16341.5	15909.9	15702.4	15489.4	15623.9	15181.1	15214.7	15108.2
35°	18023.3	18068.2	17810.3	17490.7	17277.7	16913.3	16330.3	16571.4	16487.3	16448.0	15988.3
37.5°	18679.2	18505.4	18634.4	18527.9	18326.0	17872.0	17266.5	17496.4	17535.6	17726.2	17193.6
40°	19217.4	19144.5	19486.5	19542.5	19402.4	18421.3	17333.8	18017.7	18606.3	19021.2	18387.7
42.5°	19475.3	19632.2	19991.0	20422.7	20108.8	19060.4	17681.4	18415.7	19727.5	20383.4	19520.1
45°	19822.8	19621.0	20153.6	20944.0	20949.7	19598.6	18017.7	18953.9	20602.1	21555.1	20293.8
47.5°	19469.7	19570.6	20120.0	21123.4	21381.3	20164.8	18925.9	19716.3	21566.3	22412.8	21011.3
50°	18679.2	18881.0	19884.5	20927.2	21706.5	20764.7	19968.6	20540.4	22457.7	23102.4	21129.0
52.5°	17855.1	17967.3	19536.9	21078.6	21852.2	21538.3	21364.5	21678.4	23545.2	23881.6	21274.8
55°	15612.7	16145.3	18387.7	21011.3	22564.2	22934.2	22799.6	23259.3	24778.6	25114.9	22070.9
56°	14575.6	14855.9	17698.2	20697.4	22704.3	23444.3	23377.1	23584.5	25434.5	25787.6	22194.2
57.5°	12658.4	12680.8	15091.4	19307.1	22177.4	23595.7	23528.4	23691.0	25305.5	25064.5	21112.2
60°	7921.3	8268.9	10270.2	14850.3	18858.6	21891.5	22272.7	20966.5	21336.5	20826.3	16425.6
62.5°	4103.6	4053.1	5381.8	8683.7	12518.2	15674.4	16027.6	15965.9	15394.1	14648.5	10729.9
65°	2046.2	2057.4	2814.2	4299.8	6413.3	8207.2	9193.9	9300.4	7781.1	7158.9	5090.3
67.5°	1485.6	1541.7	2023.8	2629.2	3021.6	3380.4	4142.8	4064.4	3077.7	2926.3	2713.3
70°	1154.8	1205.3	1642.6	2007.0	1822.0	1822.0	1984.5	2051.8	2191.9	2253.6	2326.5
72.5°	840.9	880.1	1255.7	1384.7	1194.1	1283.8	1485.6	1642.6	1788.3	1810.7	1894.8
75°	577.4	611.1	824.1	762.4	717.6	885.7	1087.6	1233.3	1339.8	1395.9	1446.4
77.5°	375.6	386.8	470.9	398.0	459.7	571.8	706.4	829.7	936.2	981.1	992.3
80°	168.2	185.0	201.8	252.3	319.5	409.2	504.5	605.4	672.7	689.5	723.2
82.5°	95.3	95.3	123.3	179.4	235.5	297.1	364.4	437.3	515.8	532.6	527.0
85°	50.5	50.5	72.9	106.5	145.8	173.8	168.2	173.8	185.0	213.0	207.4
87.5°	16.8	16.8	22.4	22.4	28.0	33.6	28.0	39.2	50.5	50.5	50.5
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°	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7	11514.7
2.5°	11497.9	11548.4	11481.1	11626.9	11626.9	11598.8	11458.7	11503.5	11537.2	11537.2	11565.2
5°	11716.6	11699.7	11744.6	11570.8	11464.3	11425.0	11195.2	11083.1	10987.8	10982.2	10898.1
7.5°	11839.9	11795.0	11778.2	11649.3	11178.4	10892.5	10399.1	10113.2	10051.6	9832.9	9917.0
10°	12036.1	12120.2	12036.1	11335.3	10679.4	10023.5	9541.4	9098.6	8924.8	8784.6	8700.5
12.5°	12439.7	12400.5	11912.8	10965.4	10046.0	9266.7	8549.2	8083.9	7910.1	7786.7	7775.5
15°	12781.7	12585.5	11839.9	10382.3	9059.3	8229.6	7641.0	7310.2	7231.8	7243.0	7293.4
17.5°	12899.4	12764.9	11458.7	9776.9	8324.9	7349.5	7074.8	7024.3	7097.2	7181.3	7203.7
20°	13084.4	12871.4	11301.7	8952.8	7416.7	6800.1	6783.3	6962.7	7097.2	7220.5	7237.4
22.5°	13471.2	12933.1	10791.6	8173.6	6794.5	6637.5	6800.1	6951.5	7158.9	7259.8	7170.1
25°	13583.4	12798.5	10074.0	7237.4	6402.1	6536.6	6710.4	6917.8	7063.6	7119.6	7158.9
27.5°	13678.7	12591.1	9104.2	6615.1	6278.7	6531.0	6710.4	6884.2	6962.7	7013.1	7058.0
30°	13947.7	12529.4	8263.3	6200.2	6200.2	6418.9	6648.7	6693.6	6800.1	6861.8	6940.2
32.5°	14082.3	12103.4	7399.9	5936.8	6121.8	6474.9	6491.8	6575.8	6581.5	6631.9	6547.8
35°	14435.5	11800.6	6598.3	5746.2	6155.4	6418.9	6503.0	6452.5	6177.8	6043.3	6071.3
37.5°	14693.3	11649.3	6020.9	5723.7	6161.0	6480.5	6525.4	6144.2	5858.3	5634.0	5690.1
40°	15388.5	11273.7	5583.6	5684.5	6211.5	6547.8	6424.5	6009.6	5493.9	5264.0	5224.8
42.5°	15921.1	11004.6	5308.9	5639.6	6250.7	6643.1	6374.0	5740.6	5213.6	5000.6	5056.6
45°	16537.7	10942.9	5163.1	5650.9	6318.0	6693.6	6312.4	5533.1	4972.5	4888.4	4871.6
47.5°	16756.4	10500.1	5006.2	5555.6	6301.2	6676.8	6104.9	5376.2	4882.8	4894.0	4938.9
50°	16392.0	10046.0	4888.4	5359.3	6189.0	6525.4	5779.8	5168.7	4832.4	4972.5	5051.0
52.5°	15926.7	9580.7	4647.4	5095.9	5959.2	6289.9	5628.4	5157.5	4781.9	4737.1	4753.9
55°	16066.8	9199.5	4311.0	4737.1	5589.2	5852.7	5460.3	5051.0	4658.6	4490.4	4546.5
56°	15612.7	8807.0	4092.4	4512.8	5336.9	5572.4	5376.2	4955.7	4557.7	4445.6	4445.6
57.5°	14329.0	7489.6	3806.5	4154.1	4804.3	5084.6	5213.6	4899.7	4445.6	4249.4	4255.0
60°	10567.3	5325.7	3414.1	3660.7	3980.3	4204.5	4804.3	4742.7	4165.3	4030.7	3980.3
62.5°	6514.2	3890.6	3133.8	3229.1	3391.6	3576.6	4193.3	4294.2	3868.1	3722.4	3688.8
65°	3649.5	2976.8	2920.7	2960.0	3038.5	3133.8	3481.3	3705.6	3414.1	3189.8	3178.6
67.5°	2668.5	2662.9	2707.7	2741.3	2775.0	2775.0	2859.1	2948.8	2909.5	2730.1	2713.3
70°	2371.3	2388.2	2421.8	2427.4	2438.6	2399.4	2332.1	2304.1	2348.9	2236.8	2214.4
72.5°	1956.5	2012.6	2051.8	2057.4	1995.7	1945.3	1855.6	1760.3	1726.7	1704.2	1698.6
75°	1502.4	1541.7	1558.5	1552.9	1530.4	1457.6	1351.0	1255.7	1194.1	1126.8	1160.4
77.5°	1014.7	1070.7	1098.8	1098.8	1065.1	953.0	902.6	829.7	768.0	695.1	706.4
80°	712.0	751.2	796.1	790.4	734.4	678.3	605.4	538.2	487.7	431.7	426.1
82.5°	532.6	555.0	577.4	566.2	527.0	470.9	420.5	358.8	302.7	263.5	263.5
85°	190.6	207.4	252.3	263.5	285.9	285.9	241.1	201.8	162.6	134.5	134.5
87.5°	56.1	56.1	61.7	61.7	56.1	61.7	50.5	56.1	61.7	39.2	39.2
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)