

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: P533550

Luminaire Tested: **GALN-SA9A-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533550  
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-SA9A-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA 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: 30267 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

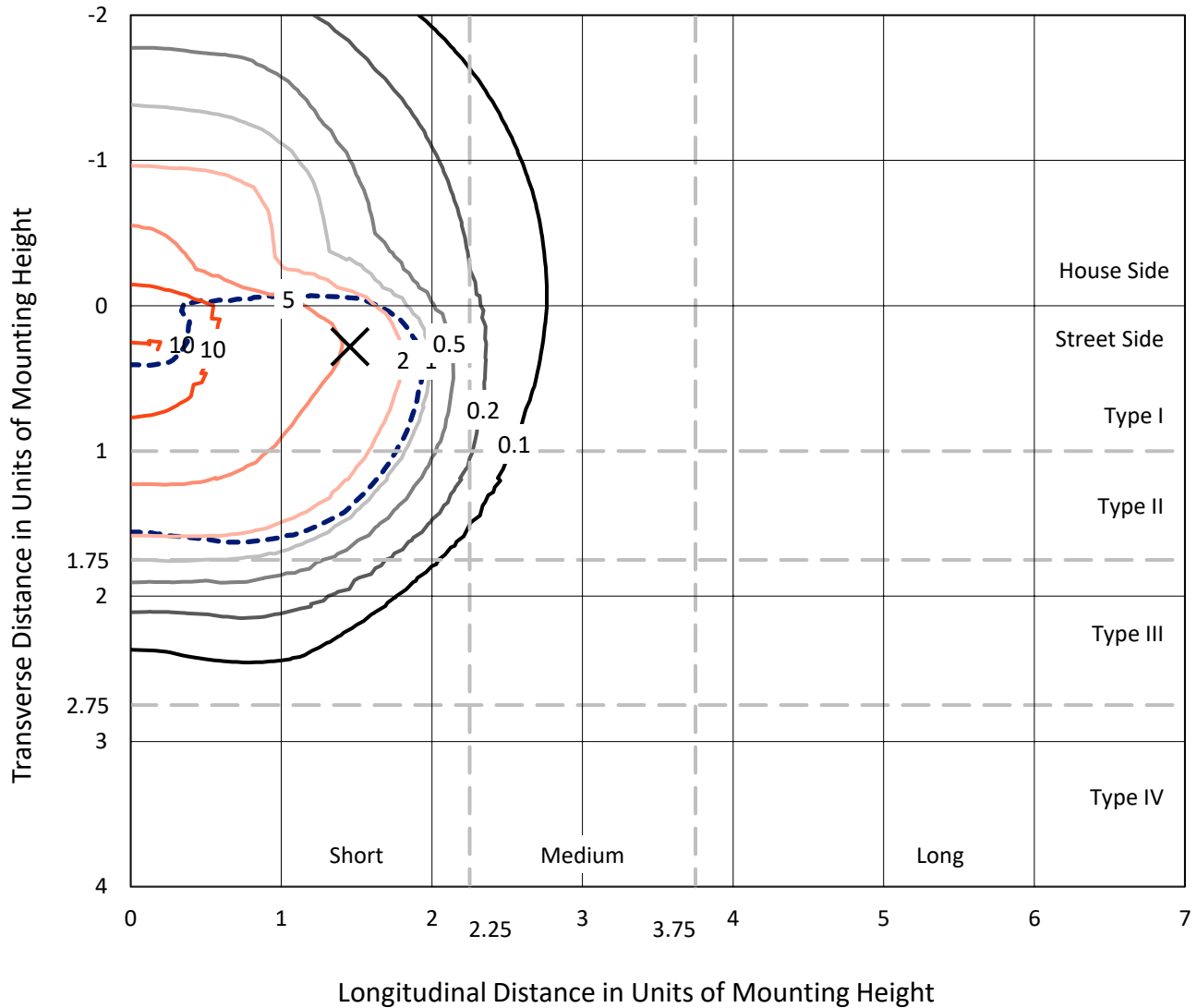
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

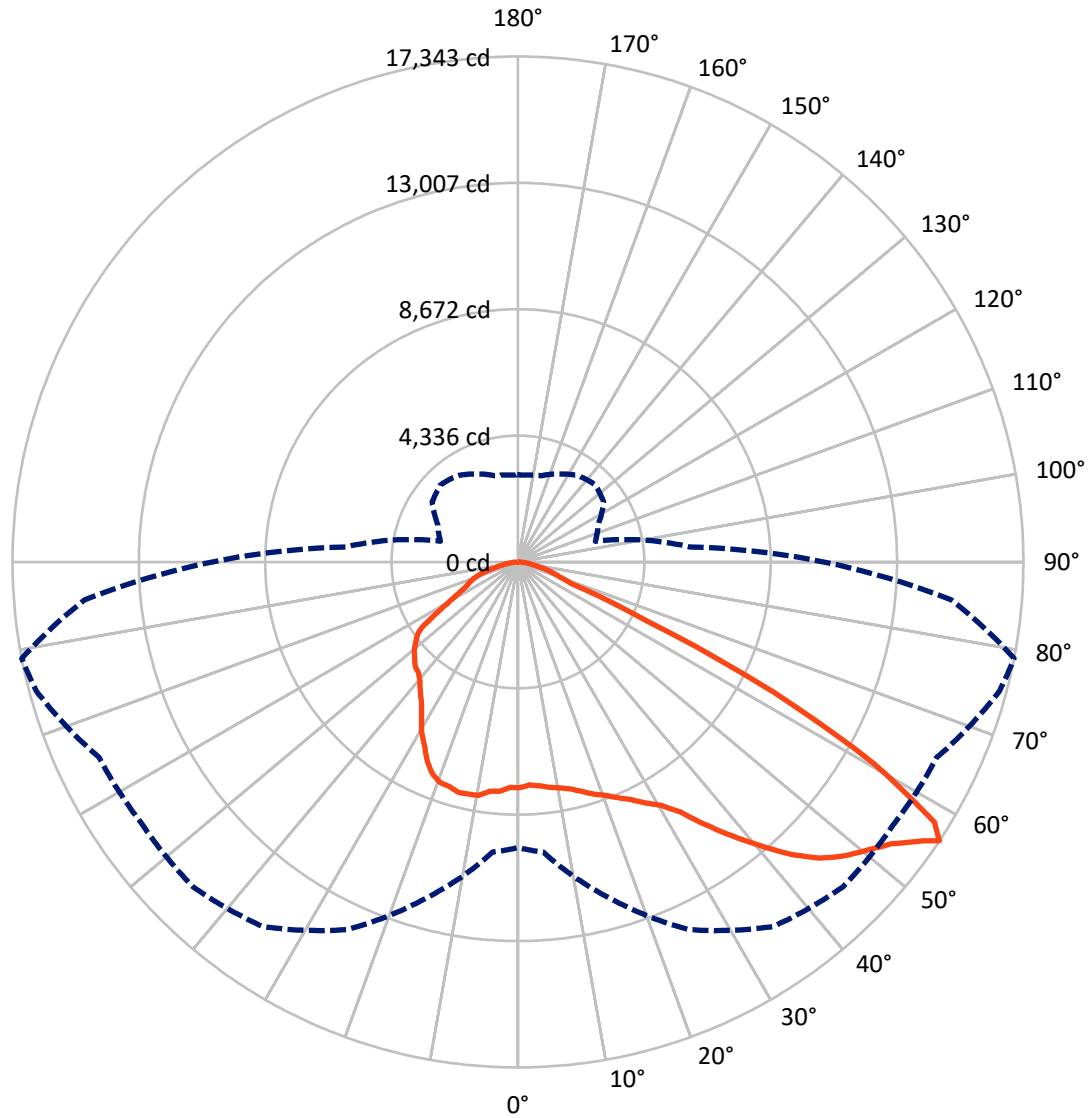
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	8938.5	0.0	8938.5
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	21328.5	0.0	21328.5
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	30267.0	0.0	30267.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	704.1	2.3
10°-20°	1926.9	6.4
20°-30°	3296.5	10.9
30°-40°	5052.4	16.7
40°-50°	6828.2	22.6
50°-60°	7842.5	25.9
60°-70°	3574.8	11.8
70°-80°	881.4	2.9
80°-90°	160.2	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°	30267.0	100.0
0°-180°	30267.0	100.0

**Coefficient of Utilization**

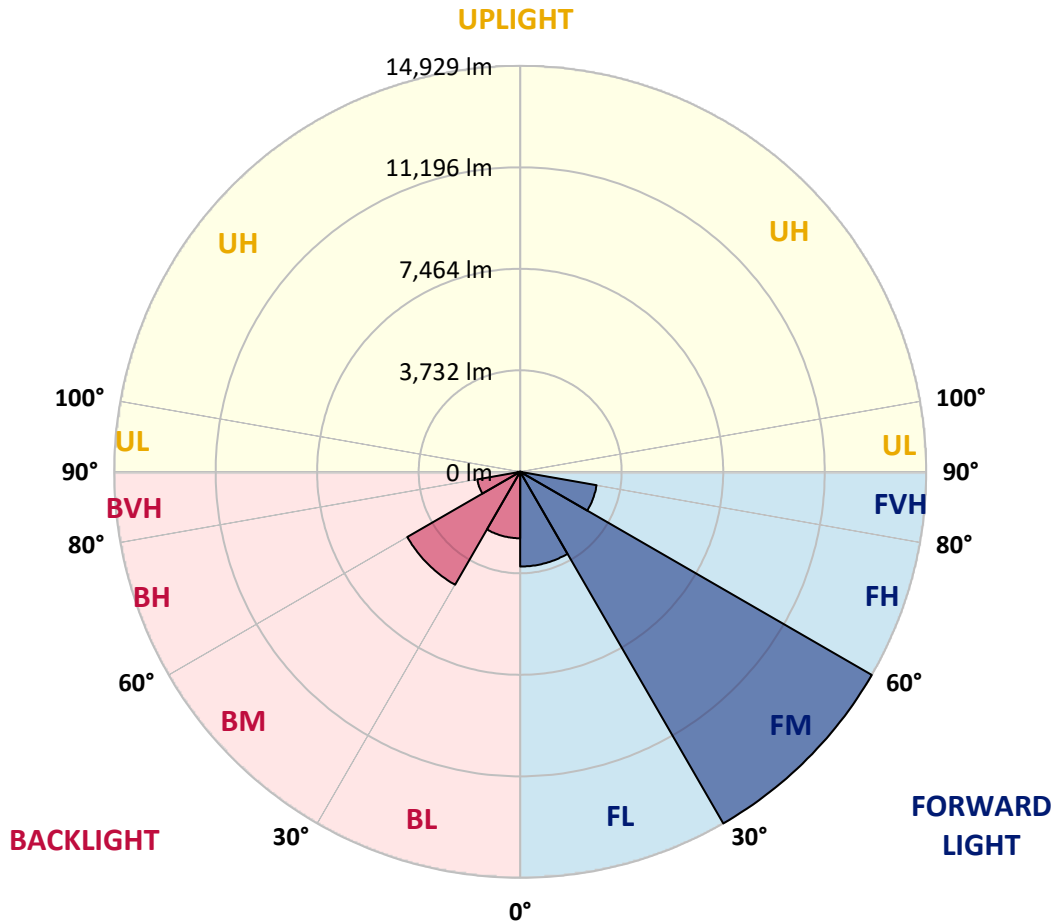


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3482.5	11.5			
FM (30°-60°)	14928.6	49.3			
FH (60°-80°)	2853.5	9.4			G2/5000
FVH (80°-90°)	64.0	0.2			G1/100
BL (0°-30°)	2445.1	8.1	B3/2500		
BM (30°-60°)	4794.5	15.8	B3/5000		
BH (60°-80°)	1602.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	96.2	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°	79°	85°
0°	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1
2.5°	7367.1	7348.2	7393.5	7427.4	7468.9	7521.7	7548.1	7563.2	7695.1	7661.2	7763.0
5°	7208.7	7159.7	7193.7	7220.1	7291.7	7355.8	7427.4	7540.5	7661.2	7714.0	7838.4
7.5°	7069.2	7042.9	7035.3	7054.2	7152.2	7235.1	7359.6	7525.5	7721.5	7808.2	7879.9
10°	6839.3	6801.6	6858.1	6982.5	7008.9	7182.4	7325.6	7563.2	7732.8	7883.6	8094.8
12.5°	6737.5	6699.8	6711.1	6782.7	6967.5	7133.3	7303.0	7570.7	7928.9	7989.2	8272.0
15°	6899.6	6861.9	6873.2	6854.3	7031.5	7118.3	7386.0	7721.5	8064.6	8166.4	8468.0
17.5°	7269.1	7272.8	7223.8	7182.4	7140.9	7325.6	7510.4	7812.0	8117.4	8373.8	8600.0
20°	7974.1	7849.7	7751.7	7517.9	7453.8	7533.0	7766.7	8057.1	8332.3	8543.4	8799.8
22.5°	8517.0	8528.3	8388.8	8004.3	7864.8	7898.7	8098.5	8336.1	8637.7	8788.5	9082.6
25°	9305.0	9225.8	9075.0	8769.6	8456.7	8483.1	8630.1	8845.0	8928.0	9033.6	9354.0
27.5°	10025.1	10047.8	9749.9	9463.4	9075.0	8999.6	9263.5	9301.2	9161.7	9361.6	9470.9
30°	10756.6	10737.7	10541.7	10206.1	9825.3	9840.4	9957.3	9772.5	9580.2	9689.6	9765.0
32.5°	11514.4	11299.5	11291.9	10990.3	10700.0	10560.5	10417.2	10507.7	10209.9	10232.5	10160.9
35°	12121.4	12151.6	11978.1	11763.2	11620.0	11374.9	10982.8	11144.9	11088.4	11062.0	10752.8
37.5°	12562.5	12445.6	12532.4	12460.7	12325.0	12019.6	11612.4	11767.0	11793.4	11921.6	11563.4
40°	12924.5	12875.5	13105.4	13143.1	13048.9	12389.1	11657.7	12117.6	12513.5	12792.5	12366.5
42.5°	13097.9	13203.5	13444.8	13735.1	13523.9	12818.9	11891.4	12385.3	13267.6	13708.7	13128.1
45°	13331.7	13195.9	13554.1	14085.7	14089.5	13180.9	12117.6	12747.3	13855.7	14496.7	13648.4
47.5°	13094.1	13162.0	13531.5	14206.4	14379.8	13561.6	12728.4	13260.0	14504.2	15073.5	14131.0
50°	12562.5	12698.3	13373.1	14074.4	14598.5	13965.1	13429.7	13814.3	15103.7	15537.3	14210.1
52.5°	12008.3	12083.7	13139.4	14176.2	14696.5	14485.4	14368.5	14579.6	15835.1	16061.3	14308.2
55°	10500.2	10858.4	12366.5	14131.0	15175.3	15424.2	15333.7	15642.8	16664.6	16890.8	14843.5
56°	9802.7	9991.2	11902.7	13919.8	15269.6	15767.3	15722.0	15861.5	17105.7	17343.2	14926.5
57.5°	8513.3	8528.3	10149.6	12984.8	14915.2	15869.1	15823.8	15933.1	17019.0	16856.9	14198.8
60°	5327.4	5561.1	6907.1	9987.4	12683.2	14722.9	14979.3	14100.8	14349.6	14006.5	11046.9
62.5°	2759.8	2725.9	3619.5	5840.1	8419.0	10541.7	10779.2	10737.7	10353.2	9851.7	7216.3
65°	1376.1	1383.7	1892.7	2891.8	4313.2	5519.7	6183.2	6254.9	5233.1	4814.6	3423.4
67.5°	999.1	1036.8	1361.1	1768.3	2032.2	2273.5	2786.2	2733.4	2069.9	1968.1	1824.8
70°	776.7	810.6	1104.7	1349.8	1225.3	1225.3	1334.7	1379.9	1474.2	1515.6	1564.7
72.5°	565.5	591.9	844.5	931.3	803.1	863.4	999.1	1104.7	1202.7	1217.8	1274.3
75°	388.3	411.0	554.2	512.8	482.6	595.7	731.4	829.5	901.1	938.8	972.7
77.5°	252.6	260.1	316.7	267.7	309.2	384.6	475.1	558.0	629.6	659.8	667.3
80°	113.1	124.4	135.7	169.7	214.9	275.2	339.3	407.2	452.4	463.7	486.4
82.5°	64.1	64.1	82.9	120.6	158.4	199.8	245.1	294.1	346.9	358.2	354.4
85°	33.9	33.9	49.0	71.6	98.0	116.9	113.1	116.9	124.4	143.3	139.5
87.5°	11.3	11.3	15.1	15.1	18.9	22.6	18.9	26.4	33.9	33.9	33.9
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°	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1
2.5°	7732.8	7766.7	7721.5	7819.5	7819.5	7800.7	7706.4	7736.6	7759.2	7759.2	7778.1
5°	7879.9	7868.5	7898.7	7781.8	7710.2	7683.8	7529.2	7453.8	7389.7	7386.0	7329.4
7.5°	7962.8	7932.6	7921.3	7834.6	7517.9	7325.6	6993.8	6801.6	6760.1	6613.0	6669.6
10°	8094.8	8151.3	8094.8	7623.5	7182.4	6741.2	6417.0	6119.1	6002.3	5908.0	5851.5
12.5°	8366.2	8339.8	8011.8	7374.6	6756.3	6232.3	5749.7	5436.7	5319.8	5236.9	5229.4
15°	8596.2	8464.2	7962.8	6982.5	6092.8	5534.8	5138.9	4916.4	4863.6	4871.2	4905.1
17.5°	8675.4	8584.9	7706.4	6575.3	5598.8	4942.8	4758.1	4724.1	4773.2	4829.7	4844.8
20°	8799.8	8656.5	7600.9	6021.1	4988.1	4573.3	4562.0	4682.7	4773.2	4856.1	4867.4
22.5°	9059.9	8698.0	7257.8	5497.0	4569.6	4464.0	4573.3	4675.1	4814.6	4882.5	4822.2
25°	9135.4	8607.5	6775.2	4867.4	4305.6	4396.1	4513.0	4652.5	4750.5	4788.2	4814.6
27.5°	9199.4	8468.0	6122.9	4448.9	4222.7	4392.4	4513.0	4629.9	4682.7	4716.6	4746.8
30°	9380.4	8426.5	5557.4	4169.9	4169.9	4317.0	4471.5	4501.7	4573.3	4614.8	4667.6
32.5°	9470.9	8140.0	4976.8	3992.7	4117.1	4354.7	4366.0	4422.5	4426.3	4460.2	4403.7
35°	9708.4	7936.4	4437.6	3864.5	4139.8	4317.0	4373.5	4339.6	4154.8	4064.3	4083.2
37.5°	9881.9	7834.6	4049.3	3849.4	4143.5	4358.4	4388.6	4132.2	3939.9	3789.1	3826.8
40°	10349.4	7582.0	3755.2	3823.0	4177.5	4403.7	4320.7	4041.7	3694.9	3540.3	3513.9
42.5°	10707.6	7401.0	3570.4	3792.9	4203.8	4467.8	4286.8	3860.8	3506.3	3363.1	3400.8
45°	11122.3	7359.6	3472.4	3800.4	4249.1	4501.7	4245.3	3721.3	3344.2	3287.7	3276.4
47.5°	11269.3	7061.7	3366.8	3736.3	4237.8	4490.4	4105.8	3615.7	3283.9	3291.4	3321.6
50°	11024.3	6756.3	3287.7	3604.4	4162.4	4388.6	3887.1	3476.2	3250.0	3344.2	3397.0
52.5°	10711.3	6443.4	3125.6	3427.2	4007.8	4230.2	3785.3	3468.6	3216.0	3185.9	3197.2
55°	10805.6	6187.0	2899.3	3185.9	3759.0	3936.2	3672.2	3397.0	3133.1	3020.0	3057.7
56°	10500.2	5923.1	2752.3	3035.1	3589.3	3747.6	3615.7	3332.9	3065.2	2989.8	2989.8
57.5°	9636.8	5037.1	2560.0	2793.8	3231.1	3419.6	3506.3	3295.2	2989.8	2857.9	2861.6
60°	7107.0	3581.8	2296.1	2462.0	2676.9	2827.7	3231.1	3189.6	2801.3	2710.8	2676.9
62.5°	4381.0	2616.6	2107.6	2171.7	2281.0	2405.4	2820.2	2888.0	2601.5	2503.5	2480.8
65°	2454.4	2002.0	1964.3	1990.7	2043.5	2107.6	2341.3	2492.1	2296.1	2145.3	2137.7
67.5°	1794.6	1790.9	1821.0	1843.7	1866.3	1866.3	1922.8	1983.2	1956.8	1836.1	1824.8
70°	1594.8	1606.1	1628.8	1632.5	1640.1	1613.7	1568.4	1549.6	1579.7	1504.3	1489.3
72.5°	1315.8	1353.5	1379.9	1383.7	1342.2	1308.3	1248.0	1183.9	1161.2	1146.2	1142.4
75°	1010.4	1036.8	1048.1	1044.4	1029.3	980.3	908.6	844.5	803.1	757.8	780.4
77.5°	682.4	720.1	739.0	739.0	716.4	640.9	607.0	558.0	516.5	467.5	475.1
80°	478.8	505.2	535.4	531.6	493.9	456.2	407.2	361.9	328.0	290.3	286.5
82.5°	358.2	373.3	388.3	380.8	354.4	316.7	282.8	241.3	203.6	177.2	177.2
85°	128.2	139.5	169.7	177.2	192.3	192.3	162.1	135.7	109.3	90.5	90.5
87.5°	37.7	37.7	41.5	41.5	37.7	41.5	33.9	37.7	41.5	26.4	26.4
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)