

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: P533238

Luminaire Tested: **GALN-SA8C-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533238  
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-SA8C-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA 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: 36431 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

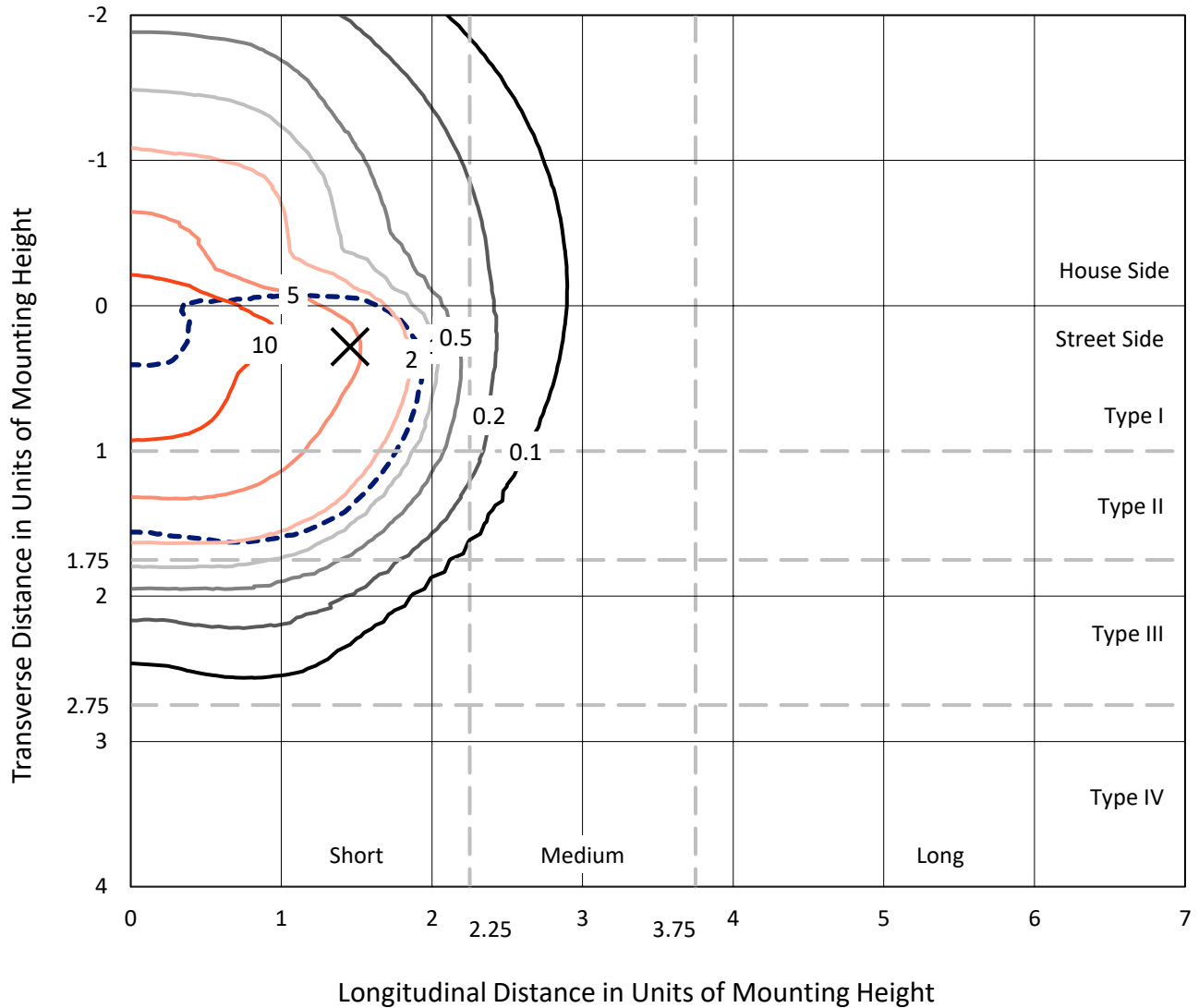
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

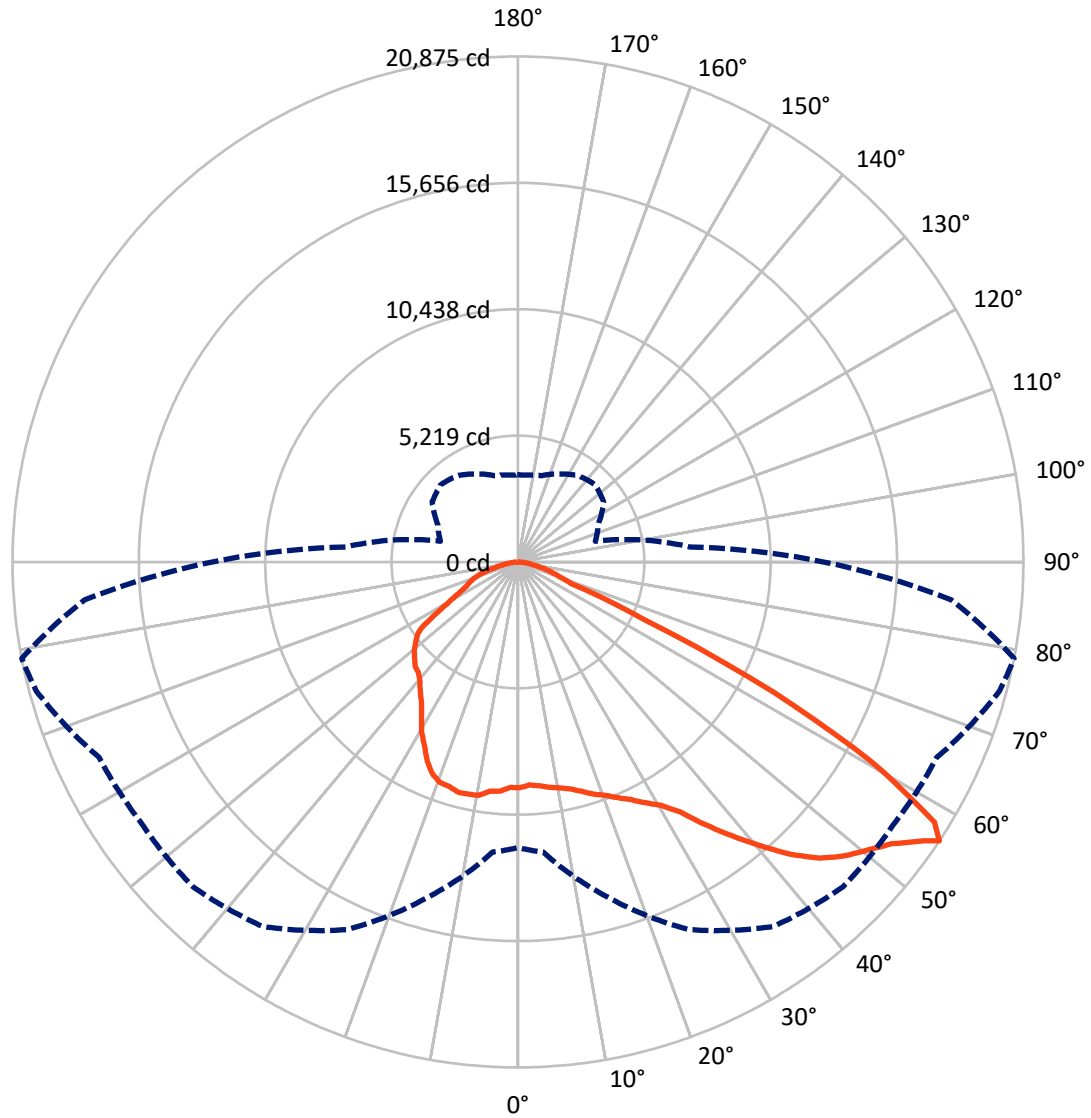
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	10758.9	0.0	10758.9
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	25672.1	0.0	25672.1
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	36431.0	0.0	36431.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	847.5	2.3
10°-20°	2319.3	6.4
20°-30°	3967.9	10.9
30°-40°	6081.3	16.7
40°-50°	8218.8	22.6
50°-60°	9439.6	25.9
60°-70°	4302.9	11.8
70°-80°	1060.9	2.9
80°-90°	192.8	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°	36431.0	100.0
0°-180°	36431.0	100.0

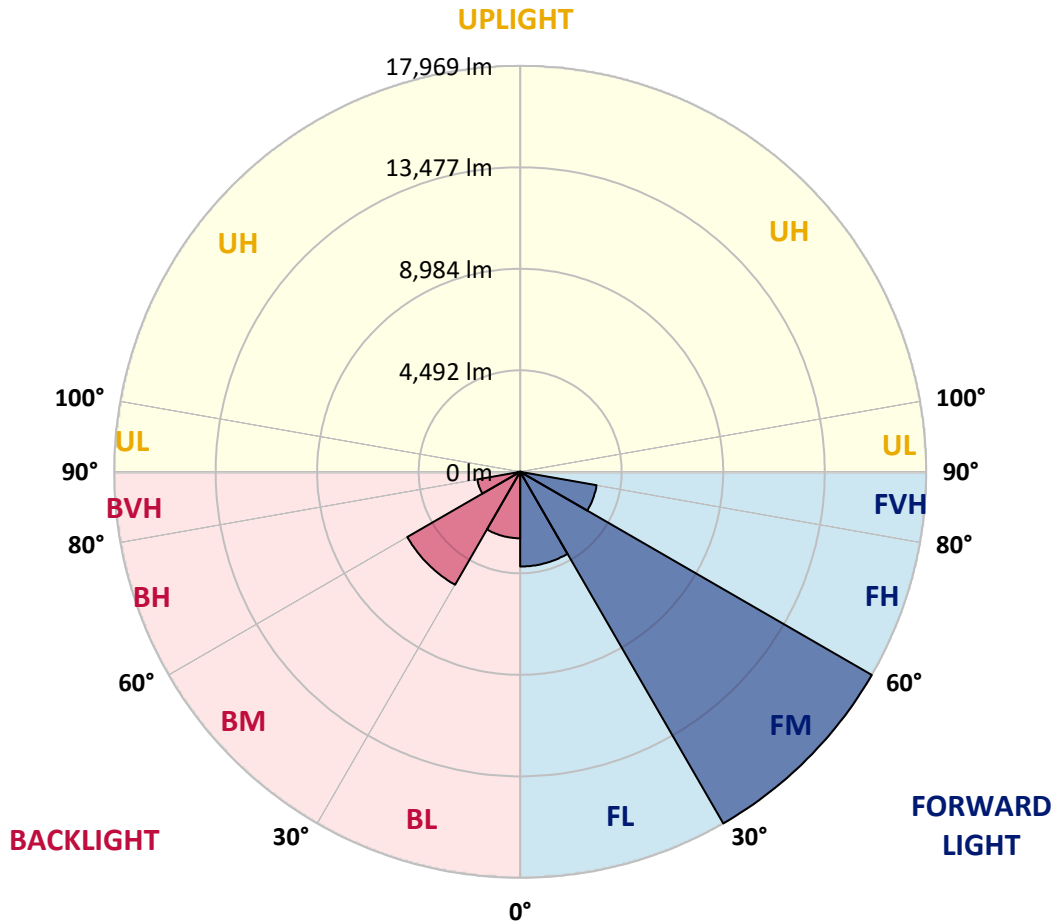


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4191.7	11.5			
FM (30°-60°)	17968.9	49.3			
FH (60°-80°)	3434.6	9.4			G2/5000
FVH (80°-90°)	77.0	0.2			G1/100
BL (0°-30°)	2943.0	8.1	B4/5000		
BM (30°-60°)	5770.9	15.8	B4/8500		
BH (60°-80°)	1929.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	115.8	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°	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3
2.5°	8867.4	8844.8	8899.2	8940.1	8990.0	9053.5	9085.3	9103.4	9262.3	9221.4	9343.9
5°	8676.8	8617.8	8658.7	8690.5	8776.7	8853.8	8940.1	9076.2	9221.4	9284.9	9434.7
7.5°	8508.9	8477.2	8468.1	8490.8	8608.8	8708.6	8858.4	9058.0	9294.0	9398.4	9484.6
10°	8232.1	8186.7	8254.8	8404.6	8436.3	8645.1	8817.5	9103.4	9307.6	9489.2	9743.3
12.5°	8109.6	8064.2	8077.8	8164.0	8386.4	8586.1	8790.3	9112.5	9543.6	9616.2	9956.6
15°	8304.7	8259.3	8272.9	8250.3	8463.6	8567.9	8890.1	9294.0	9707.0	9829.5	10192.6
17.5°	8749.5	8754.0	8695.0	8645.1	8595.2	8817.5	9039.9	9402.9	9770.5	10079.1	10351.4
20°	9598.1	9448.3	9330.3	9049.0	8971.8	9067.1	9348.5	9697.9	10029.2	10283.3	10591.9
22.5°	10251.6	10265.2	10097.3	9634.4	9466.5	9507.3	9747.8	10033.7	10396.8	10578.3	10932.3
25°	11200.0	11104.7	10923.2	10555.6	10179.0	10210.7	10387.7	10646.4	10746.2	10873.3	11259.0
27.5°	12066.8	12094.0	11735.5	11390.6	10923.2	10832.4	11150.1	11195.5	11027.6	11268.1	11399.7
30°	12947.2	12924.5	12688.5	12284.6	11826.3	11844.4	11985.1	11762.7	11531.3	11662.9	11753.7
32.5°	13859.3	13600.7	13591.6	13228.6	12879.1	12711.2	12538.8	12647.7	12289.2	12316.4	12230.2
35°	14590.0	14626.3	14417.5	14158.9	13986.4	13691.4	13219.5	13414.6	13346.5	13314.8	12942.7
37.5°	15120.9	14980.3	15084.6	14998.4	14835.0	14467.5	13977.3	14163.4	14195.2	14349.5	13918.3
40°	15556.6	15497.6	15774.4	15819.8	15706.4	14912.2	14031.8	14585.4	15061.9	15397.8	14885.0
42.5°	15765.3	15892.4	16182.9	16532.3	16278.2	15429.5	14313.2	14907.6	15969.6	16500.5	15801.7
45°	16046.7	15883.3	16314.5	16954.3	16958.9	15865.2	14585.4	15343.3	16677.5	17449.0	16427.9
47.5°	15760.8	15842.5	16287.2	17099.5	17308.3	16323.5	15320.6	15960.5	17458.1	18143.3	17008.8
50°	15120.9	15284.3	16096.6	16940.7	17571.5	16809.1	16164.7	16627.6	18179.6	18701.5	17104.1
52.5°	14453.8	14544.6	15815.3	17063.2	17689.5	17435.4	17294.7	17548.8	19060.0	19332.3	17222.1
55°	12638.6	13069.7	14885.0	17008.8	18265.8	18565.4	18456.4	18828.6	20058.4	20330.7	17866.5
56°	11799.1	12026.0	14326.8	16754.7	18379.3	18978.3	18923.9	19091.8	20589.3	20875.2	17966.3
57.5°	10247.0	10265.2	12216.6	15629.2	17952.7	19100.8	19046.4	19178.0	20485.0	20289.8	17090.5
60°	6412.3	6693.7	8313.8	12021.4	15266.2	17721.3	18029.9	16972.5	17272.0	16859.0	13296.6
62.5°	3321.9	3281.0	4356.6	7029.5	10133.6	12688.5	12974.4	12924.5	12461.6	11858.0	8685.9
65°	1656.4	1665.5	2278.1	3480.7	5191.6	6643.8	7442.5	7528.7	6298.9	5795.1	4120.6
67.5°	1202.6	1248.0	1638.3	2128.4	2446.0	2736.5	3353.7	3290.1	2491.4	2368.9	2196.4
70°	934.8	975.7	1329.7	1624.6	1474.9	1474.9	1606.5	1660.9	1774.4	1824.3	1883.3
72.5°	680.7	712.5	1016.5	1120.9	966.6	1039.2	1202.6	1329.7	1447.7	1465.8	1533.9
75°	467.4	494.7	667.1	617.2	580.9	717.0	880.4	998.4	1084.6	1130.0	1170.8
77.5°	304.1	313.1	381.2	322.2	372.1	462.9	571.8	671.6	757.9	794.2	803.2
80°	136.1	149.8	163.4	204.2	258.7	331.3	408.4	490.1	544.6	558.2	585.4
82.5°	77.1	77.1	99.8	145.2	190.6	240.5	295.0	354.0	417.5	431.1	426.6
85°	40.8	40.8	59.0	86.2	118.0	140.7	136.1	140.7	149.8	172.4	167.9
87.5°	13.6	13.6	18.2	18.2	22.7	27.2	22.7	31.8	40.8	40.8	40.8
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°	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3	9321.3
2.5°	9307.6	9348.5	9294.0	9412.0	9412.0	9389.3	9275.9	9312.2	9339.4	9339.4	9362.1
5°	9484.6	9471.0	9507.3	9366.6	9280.4	9248.6	9062.6	8971.8	8894.7	8890.1	8822.1
7.5°	9584.5	9548.2	9534.5	9430.2	9049.0	8817.5	8418.2	8186.7	8136.8	7959.8	8027.9
10°	9743.3	9811.4	9743.3	9176.0	8645.1	8114.1	7723.8	7365.3	7224.6	7111.2	7043.1
12.5°	10070.0	10038.3	9643.5	8876.5	8132.3	7501.5	6920.6	6543.9	6403.3	6303.4	6294.3
15°	10346.9	10188.0	9584.5	8404.6	7333.6	6661.9	6185.4	5917.7	5854.1	5863.2	5904.1
17.5°	10442.2	10333.2	9275.9	7914.4	6739.1	5949.4	5727.1	5686.2	5745.2	5813.3	5831.5
20°	10591.9	10419.5	9148.8	7247.3	6003.9	5504.7	5491.1	5636.3	5745.2	5845.1	5858.7
22.5°	10905.0	10469.4	8735.8	6616.5	5500.2	5373.1	5504.7	5627.2	5795.1	5876.8	5804.2
25°	10995.8	10360.5	8155.0	5858.7	5182.5	5291.4	5432.1	5600.0	5718.0	5763.4	5795.1
27.5°	11073.0	10192.6	7369.9	5355.0	5082.7	5286.9	5432.1	5572.8	5636.3	5677.2	5713.5
30°	11290.8	10142.6	6689.2	5019.1	5019.1	5196.1	5382.2	5418.5	5504.7	5554.6	5618.2
32.5°	11399.7	9797.8	5990.3	4805.8	4955.6	5241.5	5255.1	5323.2	5327.7	5368.6	5300.5
35°	11685.6	9552.7	5341.3	4651.5	4982.8	5196.1	5264.2	5223.3	5001.0	4892.1	4914.8
37.5°	11894.4	9430.2	4873.9	4633.4	4987.4	5246.0	5282.3	4973.8	4742.3	4560.8	4606.2
40°	12457.1	9126.1	4519.9	4601.6	5028.2	5300.5	5200.7	4864.8	4447.3	4261.3	4229.5
42.5°	12888.2	8908.3	4297.6	4565.3	5060.0	5377.6	5159.8	4647.0	4220.4	4048.0	4093.4
45°	13387.4	8858.4	4179.6	4574.4	5114.4	5418.5	5109.9	4479.1	4025.3	3957.2	3943.6
47.5°	13564.4	8499.9	4052.5	4497.3	5100.8	5404.9	4942.0	4352.0	3952.7	3961.8	3998.1
50°	13269.4	8132.3	3957.2	4338.4	5010.1	5282.3	4678.8	4184.1	3911.8	4025.3	4088.8
52.5°	12892.7	7755.6	3762.1	4125.1	4824.0	5091.7	4556.2	4175.0	3871.0	3834.7	3848.3
55°	13006.2	7447.0	3489.8	3834.7	4524.5	4737.8	4420.1	4088.8	3771.2	3635.0	3680.4
56°	12638.6	7129.3	3312.8	3653.2	4320.3	4510.9	4352.0	4011.7	3689.5	3598.7	3598.7
57.5°	11599.4	6062.9	3081.4	3362.7	3889.1	4116.1	4220.4	3966.3	3598.7	3439.9	3444.4
60°	8554.3	4311.2	2763.7	2963.4	3222.0	3403.6	3889.1	3839.2	3371.8	3262.9	3222.0
62.5°	5273.3	3149.4	2536.8	2613.9	2745.5	2895.3	3394.5	3476.2	3131.3	3013.3	2986.1
65°	2954.3	2409.7	2364.3	2396.1	2459.6	2536.8	2818.2	2999.7	2763.7	2582.2	2573.1
67.5°	2160.1	2155.6	2191.9	2219.1	2246.4	2246.4	2314.4	2387.0	2355.3	2210.1	2196.4
70°	1919.6	1933.2	1960.5	1965.0	1974.1	1942.3	1887.8	1865.2	1901.5	1810.7	1792.5
72.5°	1583.8	1629.2	1660.9	1665.5	1615.6	1574.7	1502.1	1425.0	1397.7	1379.6	1375.0
75°	1216.2	1248.0	1261.6	1257.1	1238.9	1179.9	1093.7	1016.5	966.6	912.2	939.4
77.5°	821.4	866.8	889.5	889.5	862.2	771.5	730.6	671.6	621.7	562.7	571.8
80°	576.3	608.1	644.4	639.9	594.5	549.1	490.1	435.7	394.8	349.4	344.9
82.5°	431.1	449.3	467.4	458.3	426.6	381.2	340.4	290.4	245.1	213.3	213.3
85°	154.3	167.9	204.2	213.3	231.4	231.4	195.1	163.4	131.6	108.9	108.9
87.5°	45.4	45.4	49.9	49.9	45.4	49.9	40.8	45.4	49.9	31.8	31.8
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)