

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: P530898

Luminaire Tested: **GALN-SA6A-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530898  
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-SA6A-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 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: 17402 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

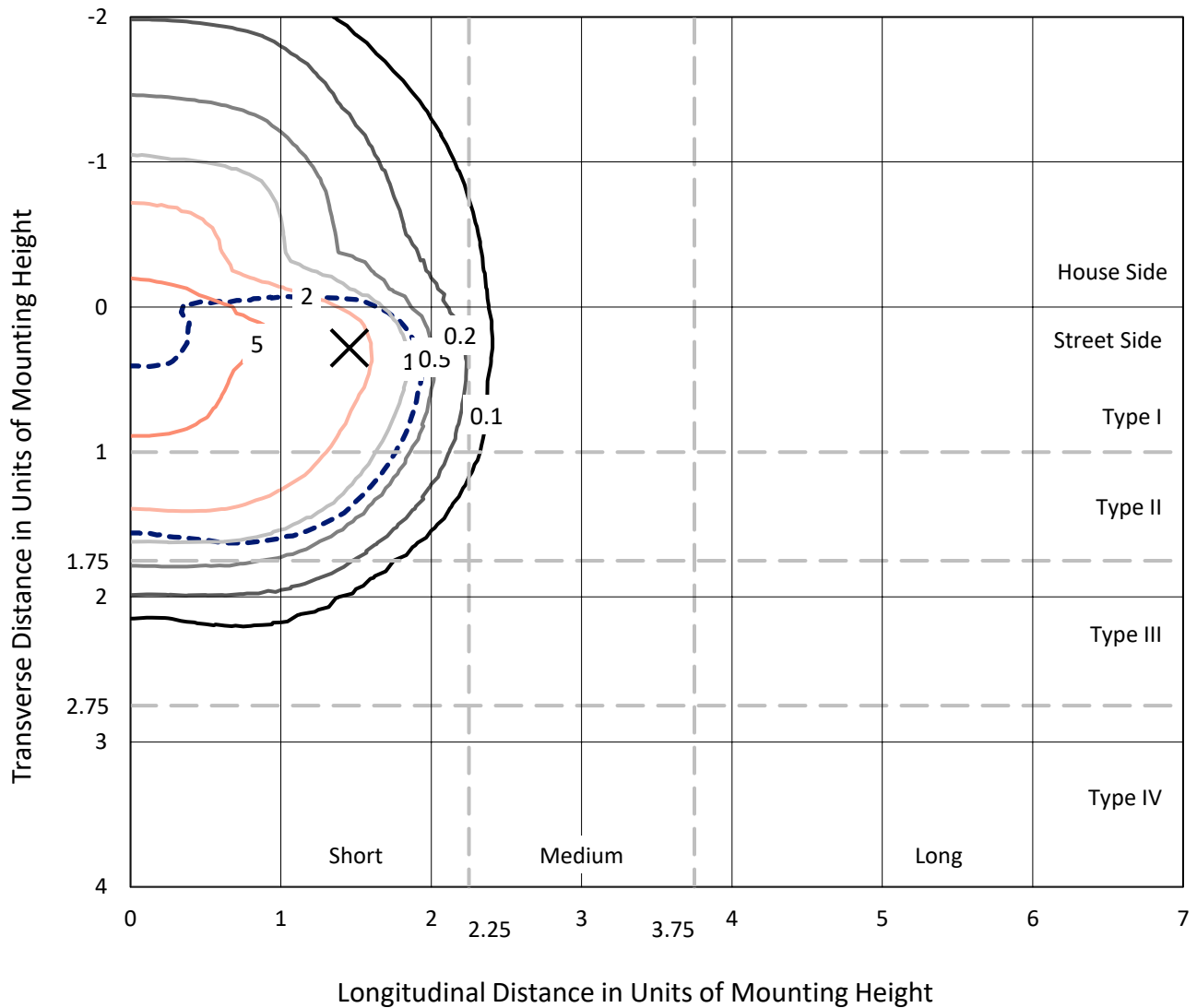
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

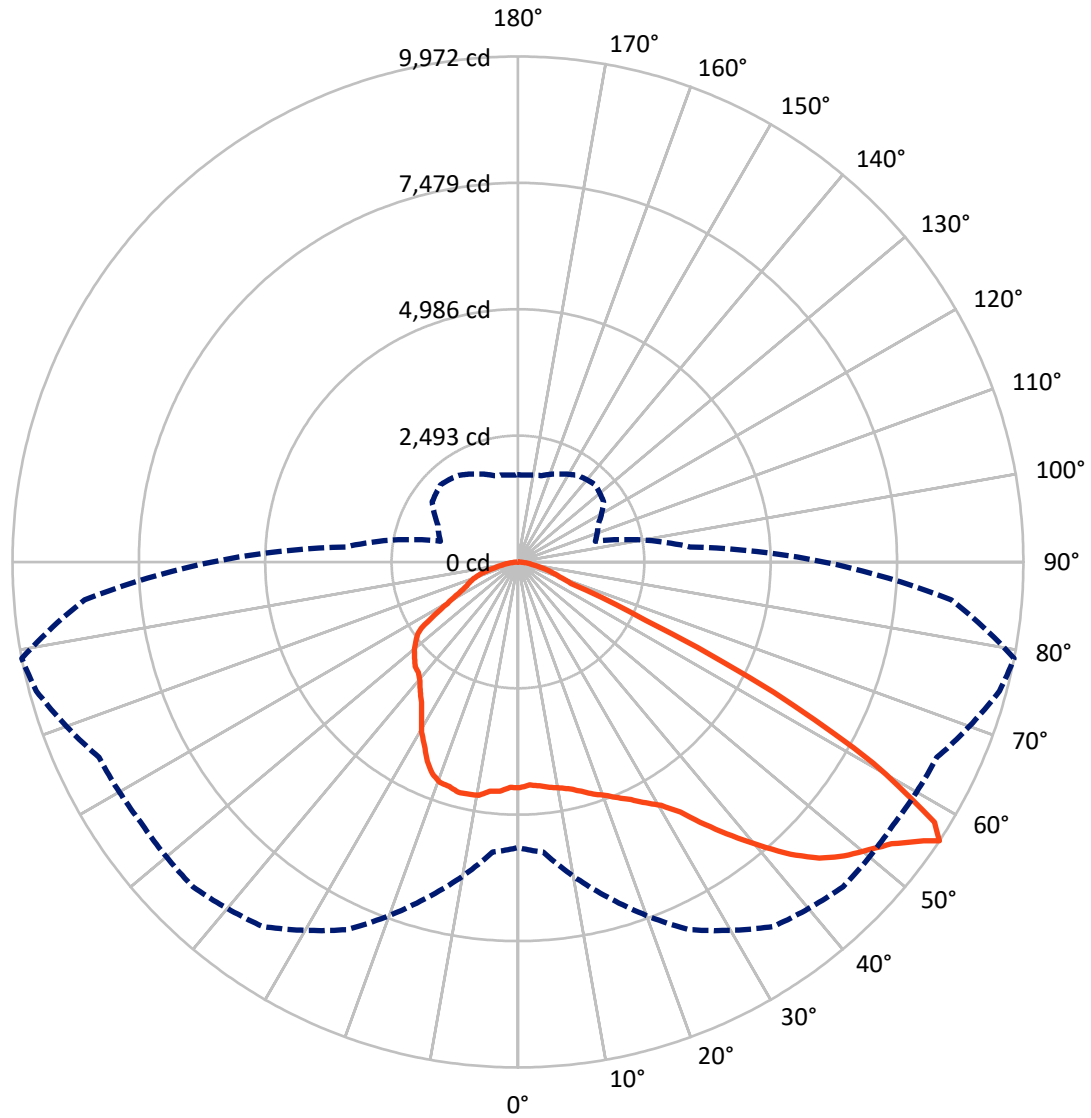
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	5139.2	0.0	5139.2
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	12262.8	0.0	12262.8
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	17402.0	0.0	17402.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.8	2.3
10°-20°	1107.9	6.4
20°-30°	1895.3	10.9
30°-40°	2904.9	16.7
40°-50°	3925.9	22.6
50°-60°	4509.0	25.9
60°-70°	2055.3	11.8
70°-80°	506.7	2.9
80°-90°	92.1	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°	17402.0	100.0
0°-180°	17402.0	100.0

**Coefficient of Utilization**

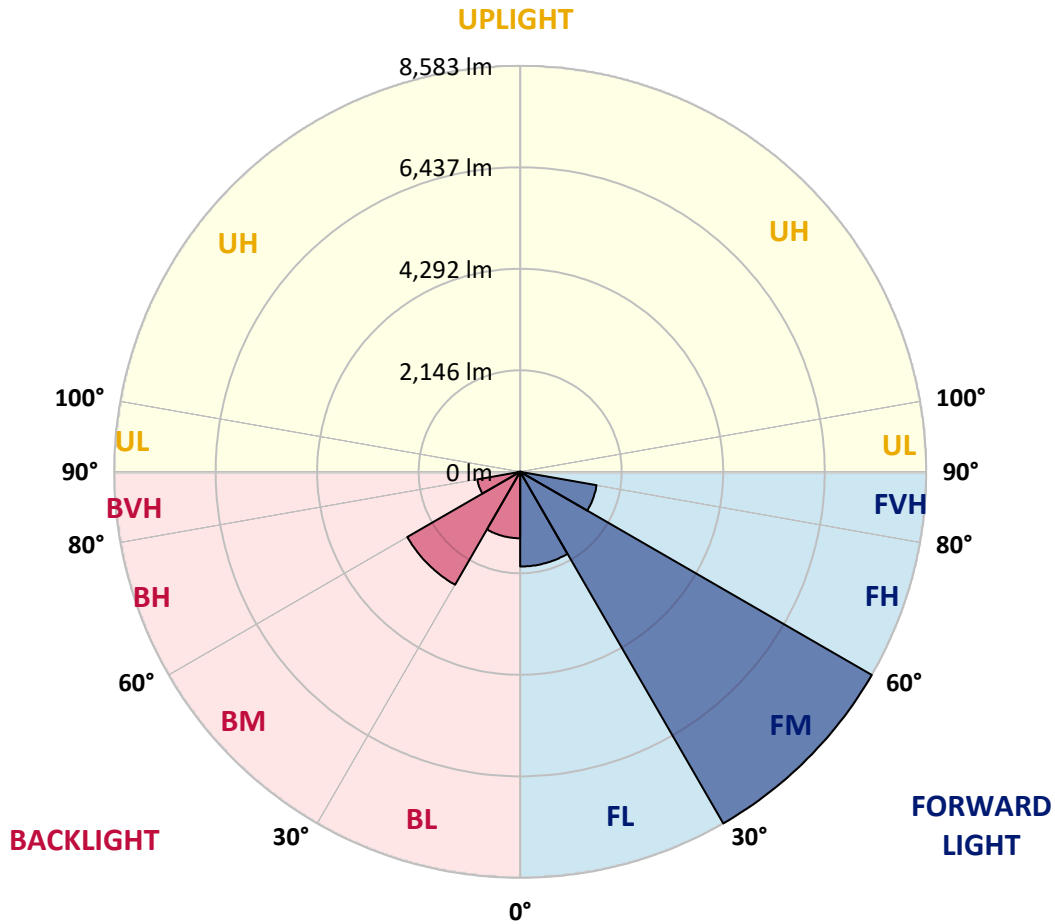


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.2	11.5			
FM (30°-60°)	8583.2	49.3			
FH (60°-80°)	1640.6	9.4			G1/1800
FVH (80°-90°)	36.8	0.2			G1/100
BL (0°-30°)	1405.8	8.1	B3/2500		
BM (30°-60°)	2756.6	15.8	B3/5000		
BH (60°-80°)	921.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	55.3	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5
2.5°	4235.7	4224.9	4250.9	4270.4	4294.2	4324.6	4339.8	4348.4	4424.3	4404.8	4463.3
5°	4144.7	4116.5	4136.0	4151.2	4192.4	4229.2	4270.4	4335.4	4404.8	4435.1	4506.7
7.5°	4064.5	4049.3	4045.0	4055.8	4112.2	4159.8	4231.4	4326.8	4439.5	4489.3	4530.5
10°	3932.2	3910.6	3943.1	4014.6	4029.8	4129.5	4211.9	4348.4	4446.0	4532.7	4654.1
12.5°	3873.7	3852.0	3858.5	3899.7	4005.9	4101.3	4198.9	4352.8	4558.7	4593.4	4756.0
15°	3966.9	3945.2	3951.7	3940.9	4042.8	4092.6	4246.5	4439.5	4636.7	4695.3	4868.7
17.5°	4179.4	4181.5	4153.3	4129.5	4105.6	4211.9	4318.1	4491.5	4667.1	4814.5	4944.6
20°	4584.7	4513.2	4456.8	4322.4	4285.6	4331.1	4465.5	4632.4	4790.6	4912.0	5059.4
22.5°	4896.9	4903.4	4823.2	4602.1	4521.8	4541.4	4656.2	4792.8	4966.2	5052.9	5222.0
25°	5349.9	5304.4	5217.7	5042.1	4862.2	4877.4	4961.9	5085.5	5133.1	5193.8	5378.1
27.5°	5763.9	5777.0	5605.7	5441.0	5217.7	5174.3	5326.1	5347.7	5267.5	5382.4	5445.3
30°	6184.5	6173.6	6060.9	5868.0	5649.1	5657.7	5724.9	5618.7	5508.2	5571.0	5614.4
32.5°	6620.2	6496.6	6492.3	6318.9	6152.0	6071.8	5989.4	6041.4	5870.2	5883.2	5842.0
35°	6969.2	6986.5	6886.8	6763.3	6680.9	6540.0	6314.5	6407.8	6375.2	6360.1	6182.3
37.5°	7222.8	7155.6	7205.5	7164.3	7086.3	6910.7	6676.6	6765.4	6780.6	6854.3	6648.4
40°	7430.9	7402.7	7535.0	7556.6	7502.5	7123.1	6702.6	6967.0	7194.6	7355.1	7110.1
42.5°	7530.6	7591.3	7730.1	7897.0	7775.6	7370.2	6837.0	7120.9	7628.2	7881.8	7548.0
45°	7665.0	7587.0	7792.9	8098.6	8100.7	7578.3	6967.0	7329.0	7966.3	8334.9	7847.1
47.5°	7528.5	7567.5	7779.9	8167.9	8267.7	7797.3	7318.2	7623.8	8339.2	8666.5	8124.6
50°	7222.8	7300.9	7688.9	8092.1	8393.4	8029.2	7721.4	7942.5	8683.9	8933.1	8170.1
52.5°	6904.2	6947.5	7554.5	8150.6	8449.7	8328.4	8261.2	8382.5	9104.4	9234.5	8226.5
55°	6037.1	6243.0	7110.1	8124.6	8725.0	8868.1	8816.1	8993.8	9581.3	9711.4	8534.3
56°	5636.1	5744.4	6843.5	8003.2	8779.2	9065.4	9039.4	9119.6	9834.9	9971.5	8582.0
57.5°	4894.7	4903.4	5835.5	7465.6	8575.5	9123.9	9097.9	9160.8	9785.1	9691.8	8163.6
60°	3063.0	3197.4	3971.3	5742.3	7292.2	8464.9	8612.3	8107.2	8250.3	8053.1	6351.4
62.5°	1586.8	1567.3	2081.0	3357.8	4840.5	6060.9	6197.5	6173.6	5952.5	5664.2	4149.0
65°	791.2	795.6	1088.2	1662.6	2479.9	3173.5	3555.0	3596.2	3008.8	2768.2	1968.3
67.5°	574.4	596.1	782.5	1016.7	1168.4	1307.1	1601.9	1571.6	1190.1	1131.5	1049.2
70°	446.5	466.1	635.1	776.0	704.5	704.5	767.4	793.4	847.6	871.4	899.6
72.5°	325.2	340.3	485.6	535.4	461.7	496.4	574.4	635.1	691.5	700.2	732.7
75°	223.3	236.3	318.7	294.8	277.5	342.5	420.5	476.9	518.1	539.8	559.3
77.5°	145.2	149.6	182.1	153.9	177.8	221.1	273.1	320.8	362.0	379.3	383.7
80°	65.0	71.5	78.0	97.5	123.6	158.2	195.1	234.1	260.1	266.6	279.6
82.5°	36.9	36.9	47.7	69.4	91.0	114.9	140.9	169.1	199.4	205.9	203.8
85°	19.5	19.5	28.2	41.2	56.4	67.2	65.0	67.2	71.5	82.4	80.2
87.5°	6.5	6.5	8.7	8.7	10.8	13.0	10.8	15.2	19.5	19.5	19.5
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°	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5	4452.5
2.5°	4446.0	4465.5	4439.5	4495.8	4495.8	4485.0	4430.8	4448.1	4461.2	4461.2	4472.0
5°	4530.5	4524.0	4541.4	4474.2	4433.0	4417.8	4328.9	4285.6	4248.7	4246.5	4214.0
7.5°	4578.2	4560.9	4554.4	4504.5	4322.4	4211.9	4021.1	3910.6	3886.7	3802.2	3834.7
10°	4654.1	4686.6	4654.1	4383.1	4129.5	3875.9	3689.4	3518.2	3451.0	3396.8	3364.3
12.5°	4810.2	4795.0	4606.4	4240.0	3884.5	3583.2	3305.8	3125.8	3058.6	3011.0	3006.6
15°	4942.4	4866.5	4578.2	4014.6	3503.0	3182.2	2954.6	2826.7	2796.3	2800.7	2820.2
17.5°	4987.9	4935.9	4430.8	3780.5	3219.1	2841.9	2735.7	2716.1	2744.3	2776.8	2785.5
20°	5059.4	4977.1	4370.1	3461.8	2867.9	2629.4	2622.9	2692.3	2744.3	2792.0	2798.5
22.5°	5209.0	5000.9	4172.8	3160.5	2627.3	2566.6	2629.4	2688.0	2768.2	2807.2	2772.5
25°	5252.4	4948.9	3895.4	2798.5	2475.5	2527.6	2594.8	2675.0	2731.3	2753.0	2768.2
27.5°	5289.2	4868.7	3520.4	2557.9	2427.8	2525.4	2594.8	2662.0	2692.3	2711.8	2729.2
30°	5393.3	4844.8	3195.2	2397.5	2397.5	2482.0	2570.9	2588.2	2629.4	2653.3	2683.6
32.5°	5445.3	4680.1	2861.4	2295.6	2367.1	2503.7	2510.2	2542.7	2544.9	2564.4	2531.9
35°	5581.9	4563.0	2551.4	2221.9	2380.1	2482.0	2514.5	2495.0	2388.8	2336.8	2347.6
37.5°	5681.6	4504.5	2328.1	2213.2	2382.3	2505.9	2523.2	2375.8	2265.3	2178.6	2200.2
40°	5950.4	4359.3	2159.0	2198.1	2401.8	2531.9	2484.2	2323.8	2124.4	2035.5	2020.3
42.5°	6156.3	4255.2	2052.8	2180.7	2417.0	2568.7	2464.7	2219.7	2016.0	1933.6	1955.3
45°	6394.8	4231.4	1996.5	2185.1	2443.0	2588.2	2440.8	2139.5	1922.8	1890.2	1883.7
47.5°	6479.3	4060.1	1935.8	2148.2	2436.5	2581.7	2360.6	2078.8	1888.1	1892.4	1909.8
50°	6338.4	3884.5	1890.2	2072.3	2393.2	2523.2	2234.9	1998.6	1868.6	1922.8	1953.1
52.5°	6158.5	3704.6	1797.0	1970.5	2304.3	2432.2	2176.4	1994.3	1849.1	1831.7	1838.2
55°	6212.7	3557.2	1667.0	1831.7	2161.2	2263.1	2111.4	1953.1	1801.4	1736.3	1758.0
56°	6037.1	3405.5	1582.4	1745.0	2063.7	2154.7	2078.8	1916.3	1762.4	1719.0	1719.0
57.5°	5540.7	2896.1	1471.9	1606.3	1857.7	1966.1	2016.0	1894.6	1719.0	1643.1	1645.3
60°	4086.1	2059.3	1320.1	1415.5	1539.1	1625.8	1857.7	1833.9	1610.6	1558.6	1539.1
62.5°	2518.9	1504.4	1211.8	1248.6	1311.5	1383.0	1621.4	1660.5	1495.7	1439.4	1426.4
65°	1411.2	1151.1	1129.4	1144.6	1174.9	1211.8	1346.1	1432.9	1320.1	1233.4	1229.1
67.5°	1031.8	1029.7	1047.0	1060.0	1073.0	1073.0	1105.5	1140.2	1125.0	1055.7	1049.2
70°	916.9	923.4	936.5	938.6	943.0	927.8	901.8	890.9	908.3	864.9	856.2
72.5°	756.5	778.2	793.4	795.6	771.7	752.2	717.5	680.7	667.7	659.0	656.8
75°	580.9	596.1	602.6	600.5	591.8	563.6	522.4	485.6	461.7	435.7	448.7
77.5°	392.4	414.0	424.9	424.9	411.9	368.5	349.0	320.8	297.0	268.8	273.1
80°	275.3	290.5	307.8	305.6	284.0	262.3	234.1	208.1	188.6	166.9	164.7
82.5°	205.9	214.6	223.3	218.9	203.8	182.1	162.6	138.7	117.1	101.9	101.9
85°	73.7	80.2	97.5	101.9	110.6	110.6	93.2	78.0	62.9	52.0	52.0
87.5°	21.7	21.7	23.8	23.8	21.7	23.8	19.5	21.7	23.8	15.2	15.2
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)