

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: P530776

Luminaire Tested: **GALN-SA6A-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22795 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

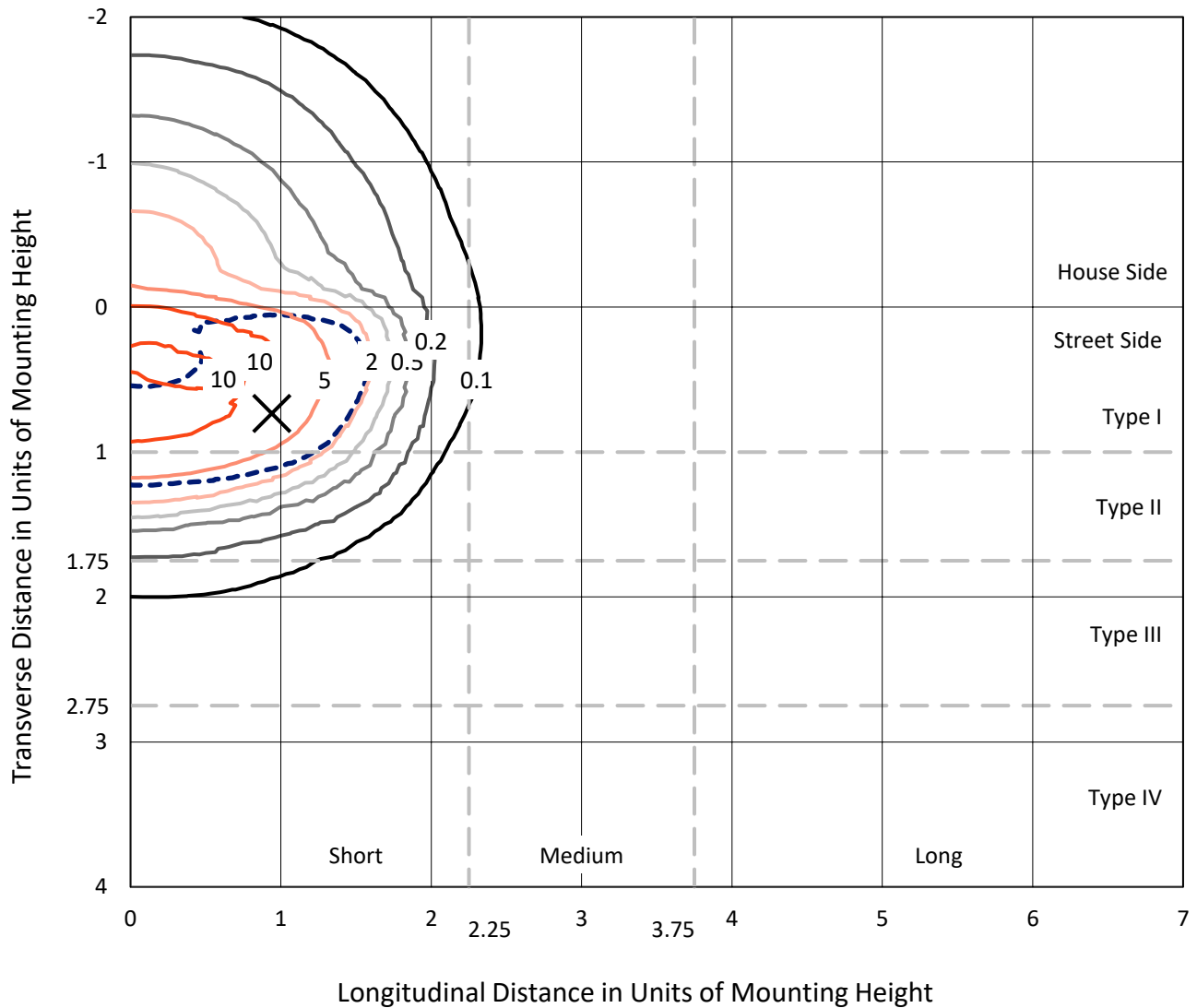
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

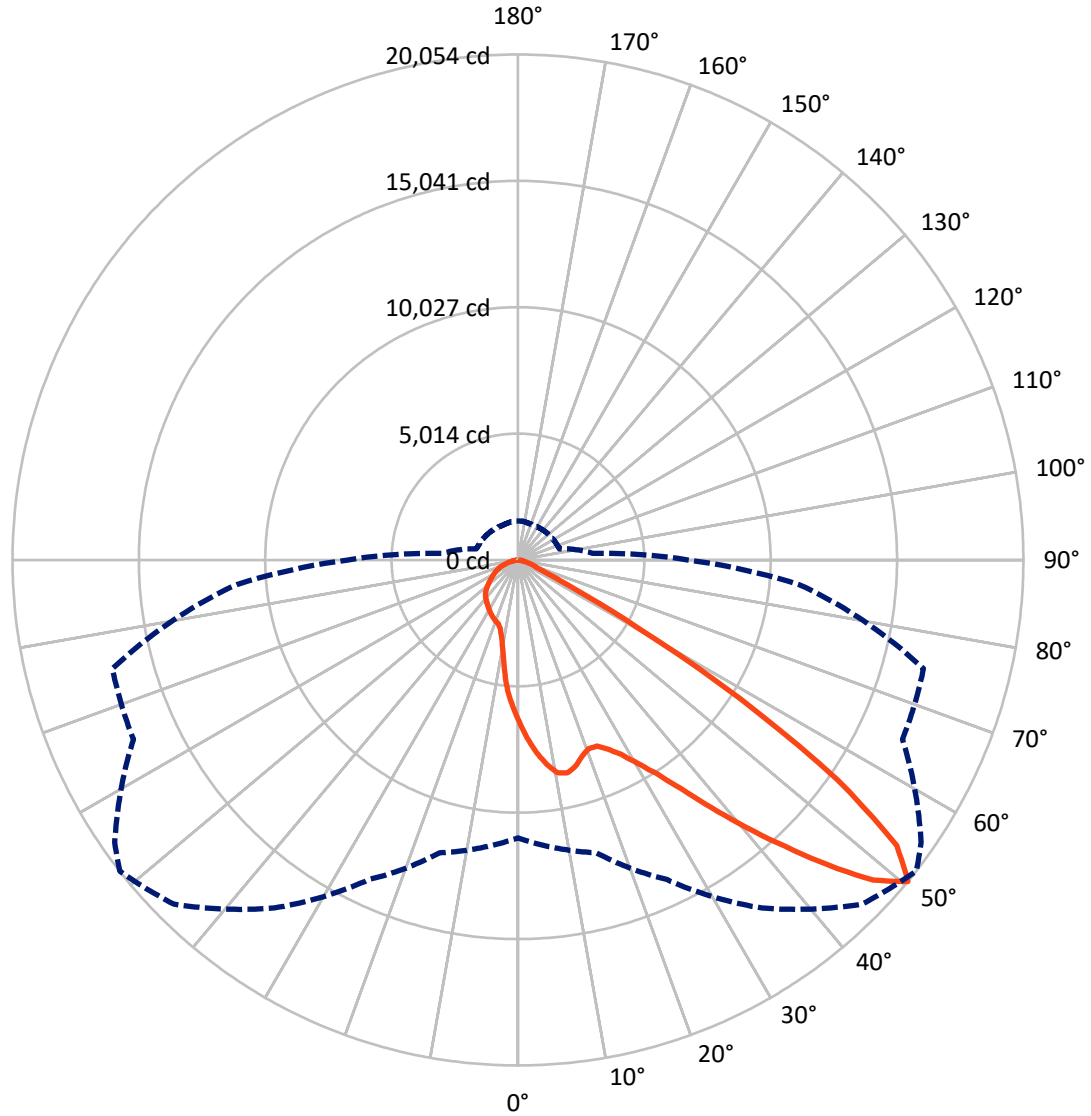
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4284.9	0.0	4284.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	18510.1	0.0	18510.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	22795.0	0.0	22795.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.2	2.6
10°-20°	1587.3	7.0
20°-30°	2673.8	11.7
30°-40°	4486.9	19.7
40°-50°	6863.9	30.1
50°-60°	5004.3	22.0
60°-70°	1113.7	4.9
70°-80°	401.7	1.8
80°-90°	71.1	0.3
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°	22795.0	100.0
0°-180°	22795.0	100.0

**Coefficient of Utilization**



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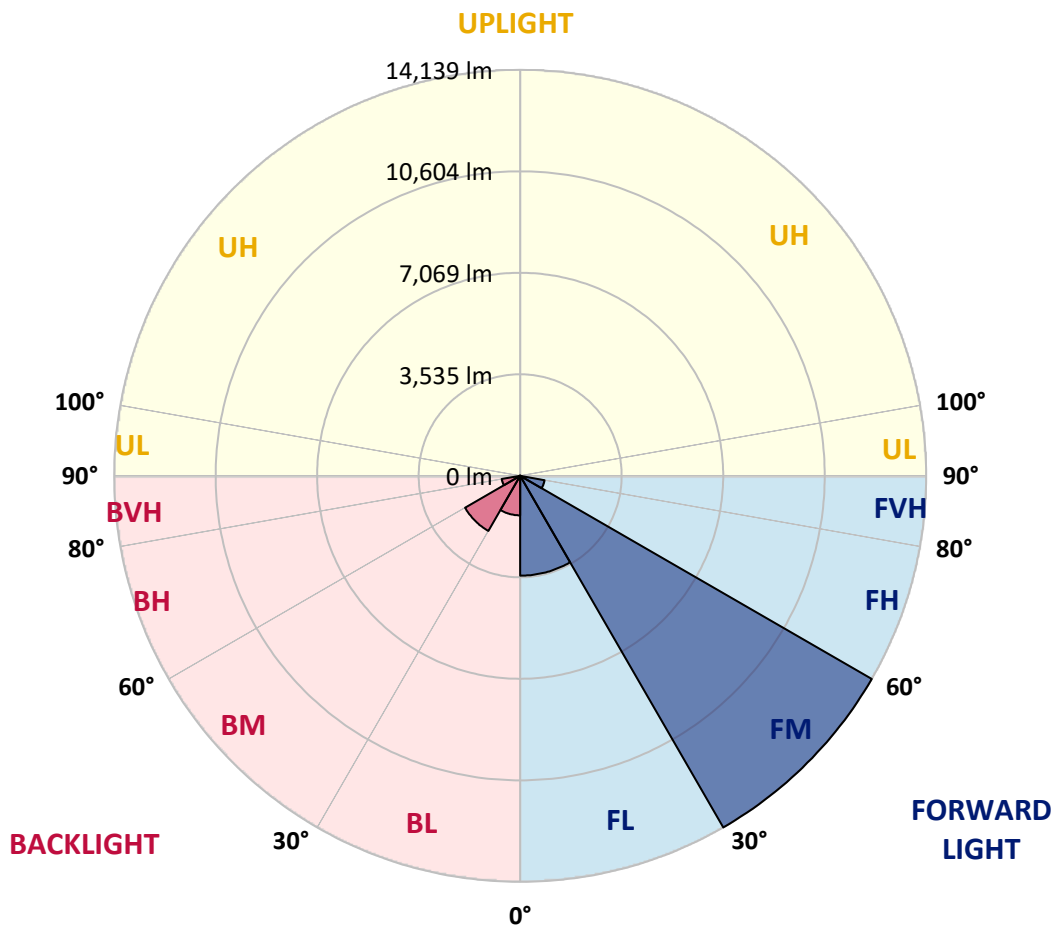
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3477.0	15.3			
FM (30°-60°)	14138.6	62.0			
FH (60°-80°)	862.6	3.8			G1/1800
FVH (80°-90°)	31.9	0.1			G1/100
BL (0°-30°)	1376.4	6.0	B3/2500		
BM (30°-60°)	2216.5	9.7	B2/2500		
BH (60°-80°)	652.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	39.2	0.2			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°	52°	55°	65°	75°	85°
0°	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5
2.5°	7565.6	7420.0	7436.5	7332.1	7219.5	7186.5	7071.1	6961.2	6878.8	6703.0	6540.9
5°	8268.9	8224.9	8159.0	8076.6	7991.4	7782.6	7664.5	7527.1	7224.9	6953.0	6683.8
7.5°	8370.5	8362.3	8398.0	8398.0	8428.2	8348.5	8180.9	8084.8	7763.4	7321.1	6821.1
10°	7656.2	7681.0	7854.0	8079.3	8392.5	8609.5	8582.0	8557.3	8205.7	7601.3	6983.2
12.5°	7087.6	7032.6	7134.3	7326.6	7796.3	8321.1	8675.4	8678.2	8587.5	8049.1	7101.3
15°	6766.2	6804.6	6832.1	6922.8	7277.1	7884.3	8507.9	8691.9	9090.2	8365.0	7288.1
17.5°	6972.2	6843.1	6837.6	6859.6	7040.9	7496.9	8197.4	8513.3	9365.0	8771.6	7518.9
20°	7241.4	7238.7	7161.8	7134.3	7131.5	7538.1	7994.1	8422.7	9510.6	9299.0	7752.4
22.5°	7713.9	7713.9	7587.6	7527.1	7398.0	7730.4	8021.6	8312.8	9752.3	9661.6	7865.0
25°	8505.1	8376.0	8159.0	8010.6	7936.5	8054.6	8312.8	8573.8	9963.8	10046.2	8098.5
27.5°	9235.8	9032.6	8925.4	8669.9	8571.0	8502.4	8738.6	9002.3	10211.1	10645.1	8224.9
30°	10065.5	10029.8	9837.5	9507.8	9263.3	9136.9	9354.0	9614.9	10664.4	11257.7	8516.1
32.5°	11548.9	11224.8	10963.8	10560.0	10161.6	9892.4	10106.7	10279.8	11417.1	11897.8	8834.8
35°	13150.5	13046.1	12595.6	11867.6	11257.7	11016.0	11142.4	11271.5	12293.4	12875.8	9370.5
37.5°	14724.6	14581.8	14210.9	13598.3	12856.6	12364.8	12455.5	12606.6	13276.9	14194.4	10024.3
40°	15856.4	15680.6	15493.8	15403.1	14666.9	13993.9	13941.7	13980.1	14606.5	15430.6	10749.5
42.5°	15938.8	16155.9	16213.5	16578.9	16405.8	15853.7	15532.3	15540.5	15875.7	16653.1	11483.0
45°	15765.8	15565.2	15991.0	16988.2	17559.6	17817.9	17276.7	17208.0	16661.3	17361.8	11848.4
47.5°	13949.9	14004.9	14724.6	16301.5	17952.5	19106.3	18979.9	18751.9	17081.6	17337.1	11790.7
50°	11027.0	11359.4	12026.9	13991.1	16853.6	19309.6	20054.0	19526.6	16831.7	16655.8	11202.8
52.5°	7343.1	7480.4	7920.0	10455.6	13551.6	17260.2	18817.8	18938.7	16600.9	15763.0	10458.3
55°	3269.1	3258.1	3876.2	5461.3	8502.4	13134.0	15375.7	16111.9	15713.6	14853.7	9733.1
57.5°	1384.6	1431.3	1684.0	2359.8	4181.1	7925.5	10417.1	11062.7	12084.6	12197.2	7466.7
60°	936.8	942.3	1010.9	1181.3	1749.9	3722.4	5464.0	6238.7	6969.5	6920.0	3961.4
62.5°	736.2	755.5	807.7	876.3	1038.4	1689.5	2444.9	2876.2	2922.9	2458.7	1502.7
65°	629.1	631.8	684.0	741.7	813.1	983.5	1178.5	1200.5	1214.2	1170.3	1104.3
67.5°	519.2	524.7	565.9	631.8	697.8	752.7	807.7	835.1	898.3	1021.9	1005.4
70°	412.1	420.3	456.0	511.0	571.4	604.4	673.0	697.8	755.5	851.6	890.1
72.5°	313.2	315.9	346.1	384.6	439.5	472.5	530.2	557.7	596.1	678.5	714.3
75°	225.3	233.5	255.5	274.7	283.0	304.9	359.9	390.1	445.0	480.7	483.5
77.5°	118.1	123.6	129.1	129.1	156.6	197.8	233.5	250.0	288.4	315.9	302.2
80°	46.7	49.4	63.2	85.2	109.9	142.9	167.6	175.8	208.8	225.3	233.5
82.5°	27.5	30.2	41.2	60.4	79.7	101.6	120.9	129.1	151.1	170.3	175.8
85°	13.7	16.5	24.7	38.5	52.2	63.2	60.4	57.7	57.7	54.9	57.7
87.5°	5.5	5.5	8.2	8.2	8.2	11.0	13.7	13.7	13.7	16.5	16.5
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°	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5	6425.5
2.5°	6433.8	6323.9	6222.2	6035.4	5832.2	5774.5	5538.2	5453.0	5392.6	5321.2	5299.2
5°	6466.7	6321.1	5994.2	5617.9	5318.4	4933.8	4681.1	4409.1	4211.3	4161.9	4148.2
7.5°	6535.4	6285.4	5722.3	5153.6	4541.0	4019.0	3620.7	3406.4	3216.9	3205.9	3186.7
10°	6612.3	6178.3	5425.6	4532.8	3749.8	3266.3	3027.3	2933.9	2887.2	2876.2	2870.7
12.5°	6675.5	6156.3	5093.2	3928.4	3189.4	2898.2	2826.8	2818.6	2837.8	2843.3	2854.3
15°	6703.0	6068.4	4692.1	3387.2	2840.5	2733.4	2763.6	2796.6	2810.3	2846.0	2818.6
17.5°	6755.2	5955.8	4197.6	2958.7	2645.5	2664.7	2716.9	2755.4	2777.3	2802.1	2766.4
20°	6782.7	5854.1	3733.3	2703.2	2576.8	2612.5	2683.9	2714.2	2741.6	2752.6	2711.4
22.5°	6757.9	5645.3	3324.0	2497.1	2510.9	2557.6	2620.8	2653.7	2637.2	2593.3	2568.6
25°	6692.0	5351.4	2898.2	2365.3	2417.5	2499.9	2549.3	2524.6	2494.4	2469.7	2461.4
27.5°	6689.3	4991.5	2590.5	2244.4	2337.8	2450.4	2434.0	2412.0	2425.7	2406.5	2384.5
30°	6703.0	4642.6	2337.8	2175.7	2280.1	2335.1	2354.3	2332.3	2348.8	2313.1	2324.1
32.5°	6631.6	4302.0	2173.0	2096.1	2211.4	2208.7	2271.9	2288.4	2249.9	2175.7	2186.7
35°	6661.8	4027.3	2032.9	2060.3	2134.5	2134.5	2184.0	2164.7	2063.1	2019.1	2030.1
37.5°	6870.6	3758.1	1964.2	2010.9	2060.3	2082.3	2065.8	1983.4	1958.7	1958.7	1964.2
40°	7068.4	3527.3	1923.0	1999.9	1991.7	2005.4	1884.5	1892.8	1892.8	1895.5	1881.8
42.5°	7244.2	3370.7	1890.0	1934.0	1947.7	1876.3	1802.1	1793.9	1813.1	1810.4	1799.4
45°	7307.4	3241.6	1843.3	1859.8	1870.8	1752.7	1717.0	1700.5	1722.4	1730.7	1741.7
47.5°	7065.6	3134.5	1791.1	1758.2	1736.2	1659.3	1612.6	1582.3	1609.8	1656.5	1667.5
50°	6755.2	2994.4	1708.7	1645.5	1598.8	1565.9	1532.9	1502.7	1521.9	1554.9	1546.6
52.5°	6296.4	2774.6	1604.3	1538.4	1458.7	1467.0	1436.7	1420.3	1431.3	1431.3	1423.0
55°	5642.6	2280.1	1428.5	1381.8	1315.9	1337.9	1343.3	1321.4	1299.4	1318.6	1302.1
57.5°	3851.5	1609.8	1274.7	1274.7	1208.7	1239.0	1236.2	1184.0	1131.8	1137.3	1126.3
60°	2227.9	1282.9	1175.8	1164.8	1096.1	1120.8	1126.3	1090.6	1010.9	1016.4	1005.4
62.5°	1266.4	1096.1	1027.4	1010.9	997.2	1019.2	1019.2	972.5	903.8	909.3	898.3
65°	1076.9	1016.4	917.5	914.8	909.3	914.8	892.8	843.4	782.9	758.2	761.0
67.5°	978.0	939.5	843.4	818.6	802.2	799.4	758.2	711.5	684.0	662.1	659.3
70°	857.1	826.9	755.5	722.5	706.0	667.6	626.3	596.1	557.7	546.7	557.7
72.5°	678.5	675.8	648.3	612.6	576.9	546.7	511.0	469.8	434.0	425.8	406.6
75°	469.8	475.3	480.7	475.3	445.0	406.6	365.4	332.4	288.4	263.7	258.2
77.5°	307.7	315.9	324.2	313.2	293.9	258.2	230.8	189.6	156.6	137.4	134.6
80°	225.3	236.3	241.7	233.5	211.5	184.1	153.8	120.9	96.1	79.7	79.7
82.5°	173.1	184.1	189.6	175.8	153.8	131.9	109.9	85.2	65.9	52.2	49.4
85°	60.4	57.7	68.7	71.4	85.2	79.7	65.9	49.4	38.5	27.5	24.7
87.5°	16.5	16.5	19.2	19.2	16.5	13.7	13.7	13.7	11.0	8.2	8.2
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)