

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: P455459

Luminaire Tested: **GALN-SA6C-827-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31233 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

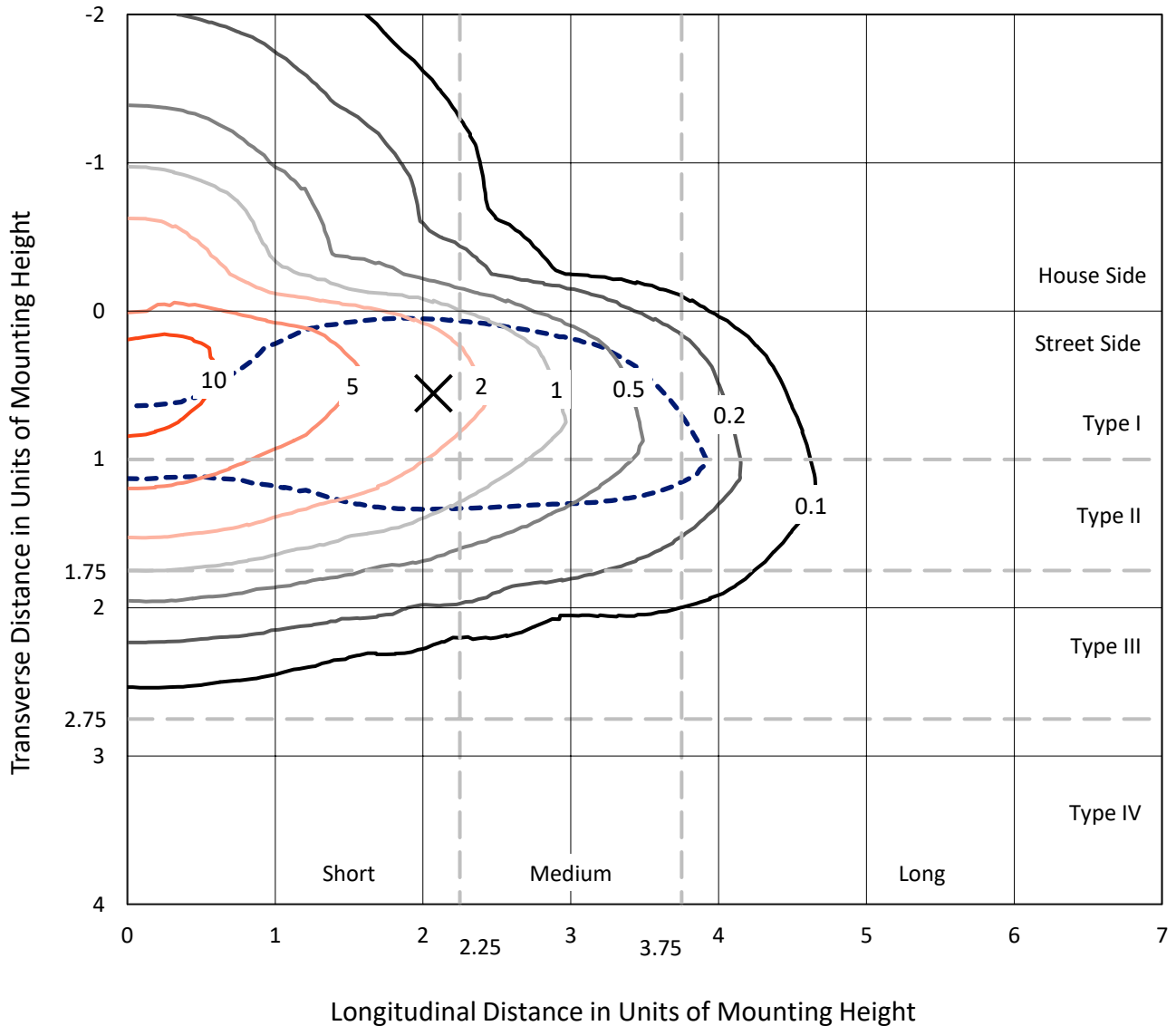
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455459  
 CATALOG NUMBER: GALN-SA6C-827-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

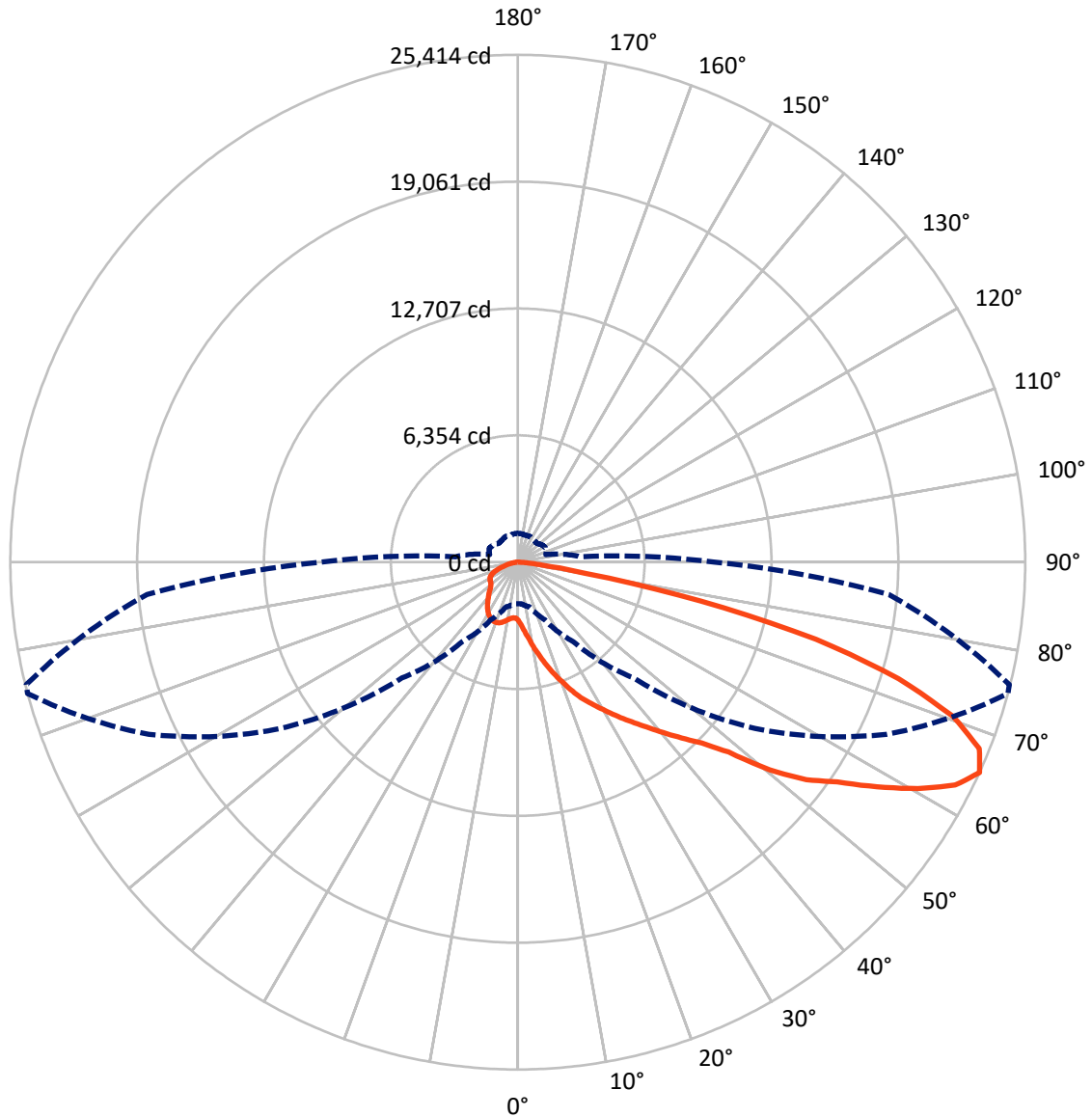
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P455459  
CATALOG NUMBER: GALN-SA6C-827-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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CATALOG NUMBER: GALN-SA6C-827-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5250.7	0.0	5250.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	25982.3	0.0	25982.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	31233.0	0.0	31233.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.6	1.1
10°-20°	1381.0	4.4
20°-30°	2667.6	8.5
30°-40°	4333.0	13.9
40°-50°	5960.4	19.1
50°-60°	7037.3	22.5
60°-70°	6165.8	19.7
70°-80°	2943.6	9.4
80°-90°	391.7	1.3
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°	31233.0	100.0
0°-180°	31233.0	100.0



REPORT NUMBER: P455459

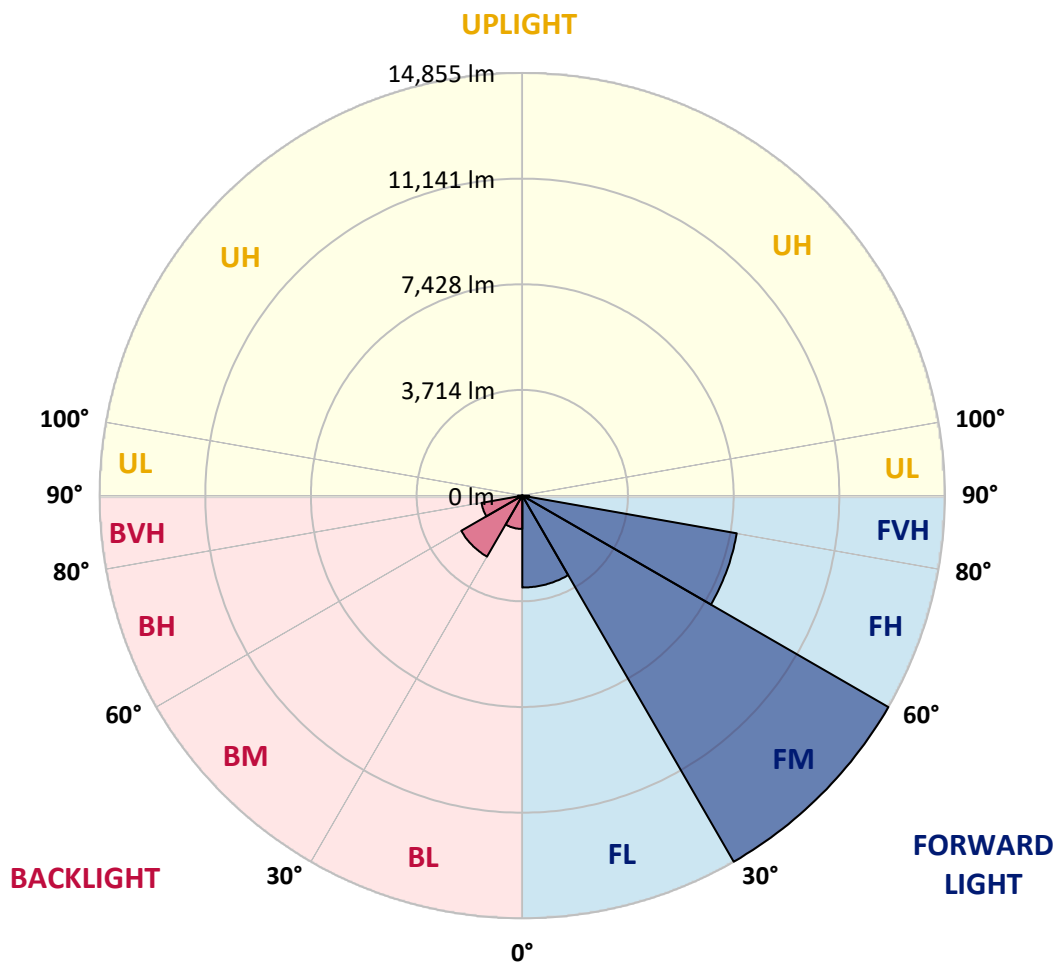
CATALOG NUMBER: GALN-SA6C-827-U-T2R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3229.0	10.3			
FM	(30°-60°)	14855.1	47.6			
FH	(60°-80°)	7653.5	24.5			G4/12000
FVH	(80°-90°)	244.8	0.8			G3/500
BL	(0°-30°)	1172.2	3.8	B3/2500		
BM	(30°-60°)	2475.7	7.9	B2/2500		
BH	(60°-80°)	1455.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	146.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P455459

CATALOG NUMBER: GALN-SA6C-827-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9
2.5°	3855.7	3830.3	3803.2	3728.6	3649.0	3559.2	3430.5	3306.8	3142.5	3137.4	3015.4
5°	4924.7	4907.7	4787.4	4718.0	4533.3	4287.7	4079.3	3755.8	3455.9	3420.3	3183.2
7.5°	5907.2	5841.1	5795.4	5670.0	5487.1	5172.0	4768.8	4331.7	3830.3	3782.9	3389.8
10°	6647.5	6640.8	6617.0	6508.6	6371.4	6058.0	5610.8	4984.0	4304.6	4211.5	3640.6
12.5°	7201.5	7206.6	7203.2	7201.5	7103.2	6837.3	6352.8	5692.1	4784.1	4718.0	3930.2
15°	7565.7	7616.5	7636.9	7721.6	7730.0	7552.2	7135.4	6376.5	5324.5	5226.2	4241.9
17.5°	7806.3	7831.7	7926.5	8070.5	8187.4	8155.2	7784.2	7010.1	5876.7	5712.4	4565.5
20°	8036.7	8080.7	8153.6	8350.1	8556.7	8651.6	8390.7	7658.9	6423.9	6318.9	4923.0
22.5°	8516.1	8578.8	8604.2	8704.1	8880.3	9048.0	8929.4	8280.6	7023.6	6881.3	5302.4
25°	9327.5	9393.6	9322.5	9298.7	9356.3	9439.4	9413.9	8866.8	7589.4	7386.1	5661.6
27.5°	10384.6	10393.1	10254.2	10122.1	9979.8	9937.4	9859.5	9386.8	8080.7	7911.3	6022.4
30°	11519.7	11479.0	11248.6	11009.8	10769.2	10532.0	10308.4	9888.3	8627.9	8433.1	6376.5
32.5°	12573.4	12551.4	12295.6	11924.6	11518.0	11294.4	10842.0	10394.8	9214.0	9026.0	6740.7
35°	13362.8	13395.0	13113.8	12708.9	12265.1	12066.9	11496.0	10926.7	9820.5	9615.5	7137.1
37.5°	13923.6	13906.6	13657.6	13306.9	12917.3	12744.5	12260.0	11507.8	10472.7	10276.2	7570.8
40°	14123.5	14113.3	13928.6	13672.8	13425.5	13364.5	13059.6	12134.6	11219.8	10989.4	8092.6
42.5°	13996.4	14018.4	13896.4	13827.0	13781.3	13825.3	13854.1	12956.2	12034.7	11822.9	8658.4
45°	13606.8	13594.9	13578.0	13691.5	13949.0	14238.6	14640.1	13732.1	12920.7	12751.3	9417.3
47.5°	12910.5	12995.2	13037.6	13351.0	13913.4	14599.5	15544.8	14772.3	14206.5	14059.1	10574.4
50°	11936.4	12004.2	12254.9	12812.2	13650.8	14735.0	16429.1	16473.1	16351.2	16075.0	11831.4
52.5°	10415.1	10520.2	11036.9	12058.4	13112.1	14679.1	16964.4	17931.7	18092.7	17886.0	13069.7
55°	8712.6	8860.0	9405.5	10745.5	12370.1	14374.2	17333.7	18777.1	19419.1	19227.7	14262.4
57.5°	7045.6	7201.5	7762.2	9059.9	11075.8	13699.9	17576.0	19719.0	21225.0	20976.0	15746.4
60°	5280.4	5443.0	5924.2	7260.8	9232.7	12382.0	17411.6	20535.5	23029.2	22922.4	17232.1
62.5°	3406.8	3586.3	4004.8	5111.0	7096.5	10581.2	16532.4	20986.1	24591.1	24462.4	18316.3
65°	2075.2	2095.6	2326.0	3173.0	4856.9	8192.5	14521.6	20388.1	25414.4	25375.5	18646.6
67.5°	1341.7	1373.9	1478.9	1900.7	2912.1	5690.4	11611.1	18414.5	24933.3	24919.8	17963.9
70°	1133.3	1143.5	1190.9	1282.4	1692.4	3450.8	8153.6	15268.6	23105.4	23105.4	16322.4
72.5°	1013.1	1026.6	1043.5	1072.3	1207.9	1955.0	4865.4	11885.6	19949.4	20081.5	13893.1
75°	919.9	916.5	926.7	931.7	1030.0	1277.3	2515.7	8790.5	15433.0	15168.7	10061.1
77.5°	787.7	792.8	787.7	809.8	909.7	972.4	1277.3	5898.7	9353.0	9010.8	5050.0
80°	647.1	655.6	664.1	677.6	777.6	738.6	767.4	2688.5	3459.3	3386.4	1560.2
82.5°	486.2	498.1	511.6	543.8	611.6	487.9	484.5	1148.6	1248.5	1143.5	574.3
85°	196.5	232.1	350.7	382.9	384.6	267.7	298.2	479.4	509.9	498.1	225.3
87.5°	45.7	54.2	113.5	171.1	157.5	100.0	110.1	155.9	177.9	164.3	76.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455459

CATALOG NUMBER: GALN-SA6C-827-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9
2.5°	2959.5	2900.2	2798.6	2720.7	2664.8	2615.6	2585.1	2566.5	2559.7	2558.0	2559.7
5°	3059.5	2954.5	2793.5	2691.9	2636.0	2603.8	2585.1	2583.5	2585.1	2586.8	2581.8
7.5°	3196.7	3045.9	2835.9	2741.0	2698.7	2674.9	2666.5	2663.1	2664.8	2663.1	2663.1
10°	3379.7	3173.0	2918.9	2820.6	2785.0	2757.9	2744.4	2735.9	2729.1	2722.4	2719.0
12.5°	3581.3	3313.6	3008.7	2913.8	2863.0	2820.6	2790.1	2768.1	2752.9	2737.6	2734.2
15°	3806.6	3462.7	3108.6	2976.5	2903.6	2841.0	2788.4	2752.9	2725.8	2703.7	2702.0
17.5°	4021.7	3603.3	3176.4	3005.3	2898.6	2810.5	2741.0	2691.9	2658.0	2629.2	2625.8
20°	4252.1	3737.1	3206.9	2986.6	2847.7	2741.0	2649.5	2590.2	2551.3	2519.1	2514.0
22.5°	4484.2	3850.6	3203.5	2927.4	2759.6	2634.3	2537.7	2475.0	2429.3	2397.1	2385.2
25°	4706.1	3942.1	3161.1	2832.5	2637.7	2507.2	2409.0	2351.4	2310.7	2271.7	2271.7
27.5°	4906.0	3996.3	3081.5	2717.3	2512.3	2375.1	2297.2	2244.6	2207.4	2182.0	2166.7
30°	5102.5	4021.7	2973.1	2571.6	2380.2	2263.3	2200.6	2170.1	2136.2	2107.4	2104.0
32.5°	5278.7	4016.6	2837.6	2429.3	2254.8	2171.8	2146.4	2122.7	2087.1	2046.4	2036.3
35°	5449.8	3982.8	2676.6	2273.4	2149.8	2117.6	2124.4	2090.5	2026.1	1975.3	1966.8
37.5°	5636.2	3921.8	2500.4	2146.4	2061.7	2092.2	2109.1	2034.6	1929.5	1849.9	1831.3
40°	5851.3	3852.3	2317.5	2019.3	1992.2	2068.5	2068.5	1931.2	1787.2	1738.1	1724.6
42.5°	6103.7	3794.7	2165.0	1912.6	1934.6	2010.9	2002.4	1794.0	1734.7	1709.3	1702.5
45°	6503.5	3774.4	2007.5	1819.4	1887.2	1943.1	1873.6	1746.6	1712.7	1692.4	1685.6
47.5°	7135.4	3798.1	1868.6	1750.0	1833.0	1875.3	1729.6	1714.4	1690.7	1661.9	1658.5
50°	7721.6	3776.1	1770.3	1711.0	1785.5	1794.0	1670.4	1675.4	1661.9	1629.7	1622.9
52.5°	8201.0	3706.6	1707.6	1690.7	1744.9	1651.7	1614.4	1633.1	1628.0	1587.3	1580.6
55°	8727.8	3664.3	1677.1	1690.7	1717.8	1528.1	1561.9	1589.0	1582.3	1553.5	1551.8
57.5°	9366.5	3672.7	1655.1	1695.8	1690.7	1465.4	1509.4	1541.6	1539.9	1531.4	1531.4
60°	10020.4	3676.1	1621.2	1694.1	1658.5	1416.2	1455.2	1500.9	1504.3	1509.4	1509.4
62.5°	10237.3	3528.7	1555.2	1663.6	1587.3	1368.8	1404.4	1467.1	1463.7	1477.2	1478.9
65°	9832.4	3120.5	1456.9	1594.1	1495.9	1334.9	1365.4	1423.0	1404.4	1440.0	1446.7
67.5°	8949.8	2581.8	1304.4	1468.8	1394.2	1299.4	1340.0	1362.0	1328.2	1397.6	1399.3
70°	7735.1	2015.9	1111.3	1290.9	1279.0	1262.1	1319.7	1285.8	1238.4	1323.1	1306.1
72.5°	6468.0	1539.9	887.7	1055.4	1124.9	1206.2	1284.1	1187.5	1121.5	1146.9	1116.4
75°	4858.6	1138.4	713.2	826.7	936.8	1126.6	1251.9	1069.0	967.3	943.6	936.8
77.5°	2476.7	743.7	533.6	618.3	703.0	1018.1	1207.9	930.0	801.3	764.0	747.1
80°	884.3	462.5	376.1	426.9	474.3	875.8	1055.4	769.1	621.7	614.9	621.7
82.5°	410.0	298.2	252.4	279.5	281.2	584.5	804.7	574.3	472.6	718.3	606.5
85°	176.2	149.1	142.3	138.9	128.7	260.9	452.3	308.3	481.1	215.1	198.2
87.5°	52.5	59.3	52.5	39.0	28.8	28.8	45.7	16.9	11.9	8.5	8.5
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)