

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: P454877

Luminaire Tested: **GALN-SA6A-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24838 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

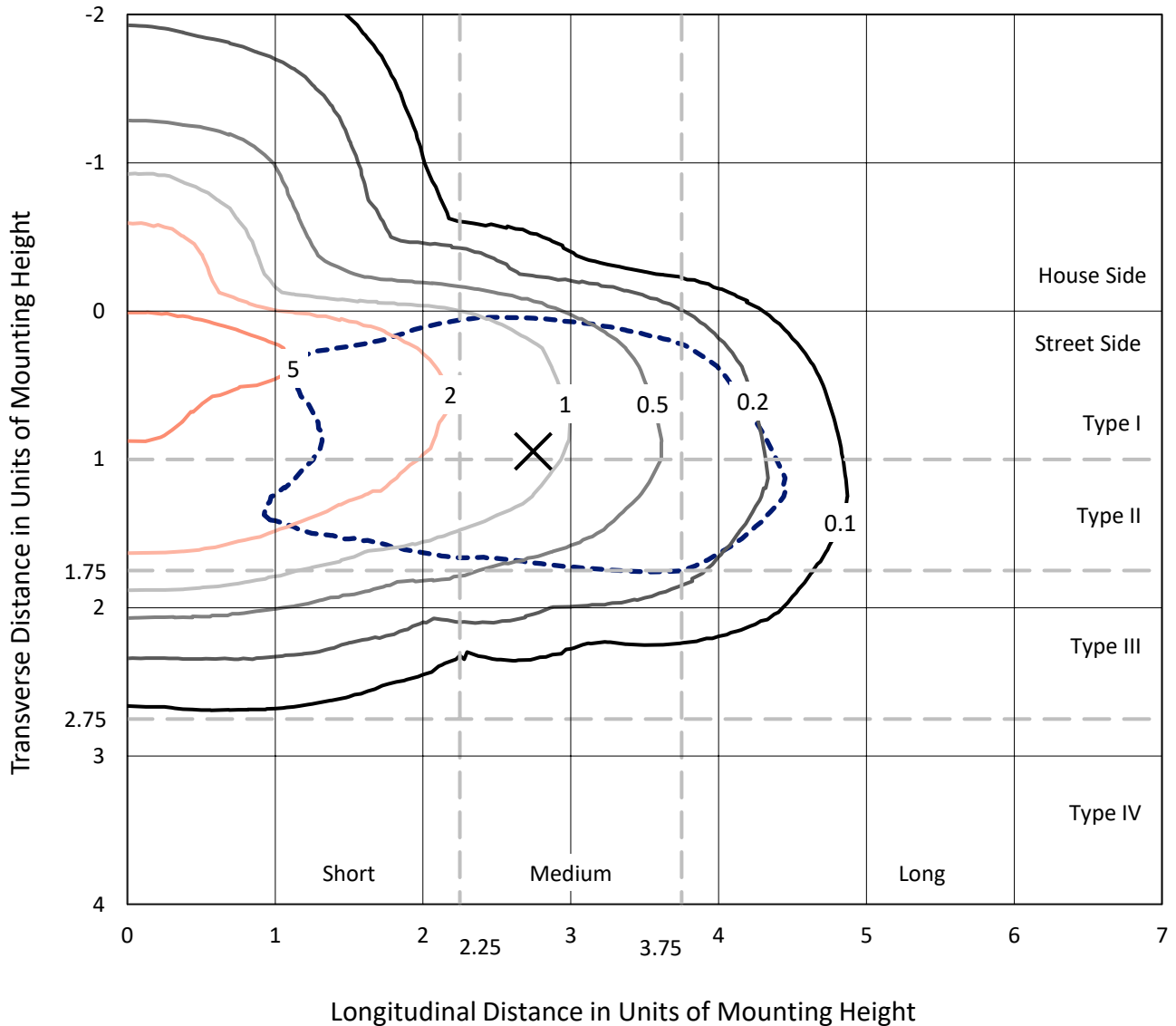
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454877  
 CATALOG NUMBER: GALN-SA6A-730-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

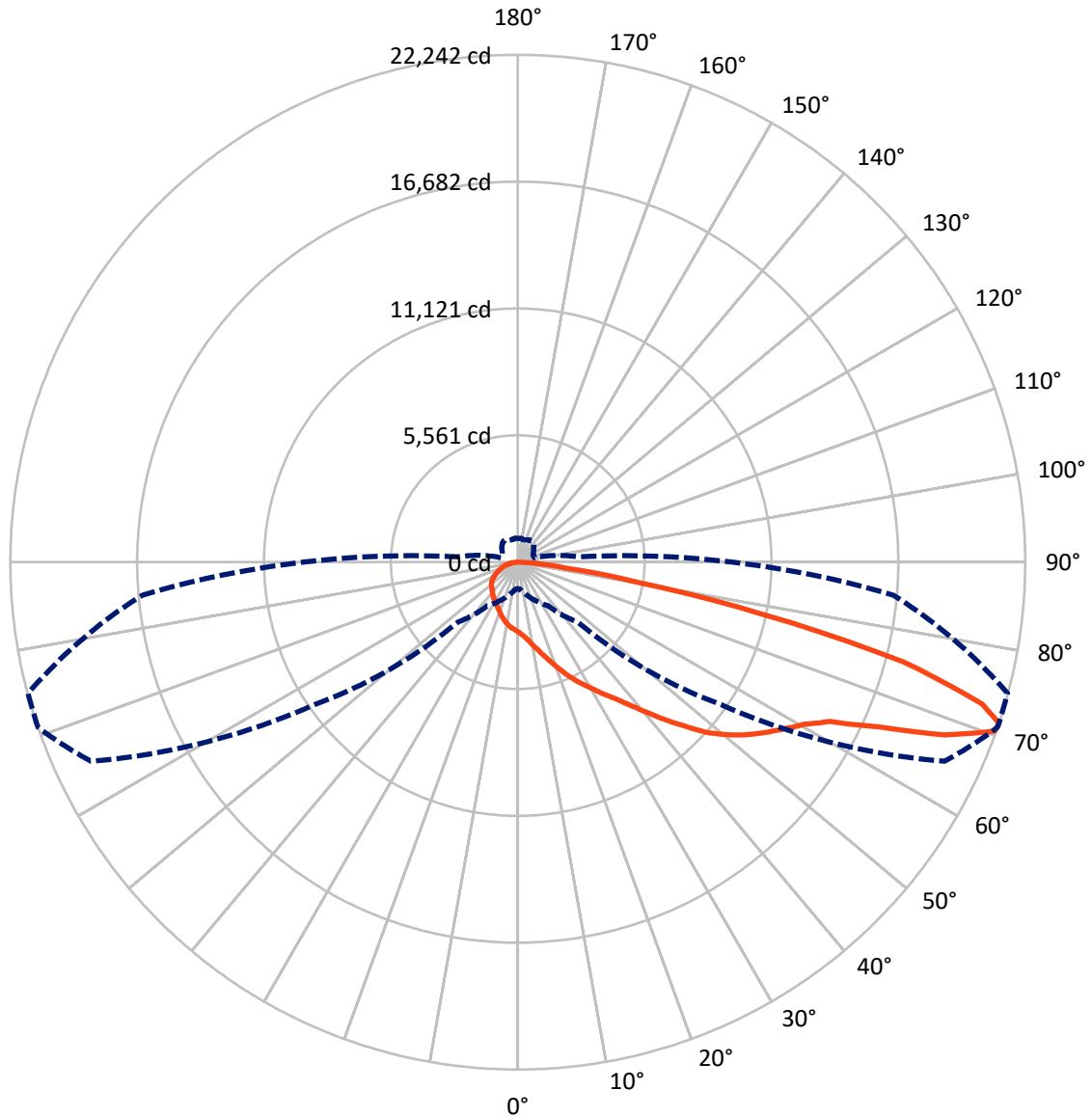
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P454877  
CATALOG NUMBER: GALN-SA6A-730-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P454877

CATALOG NUMBER: GALN-SA6A-730-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4467.1	0.0	4467.1
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	20371.0	0.0	20371.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	24838.0	0.0	24838.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.1	1.2
10°-20°	994.4	4.0
20°-30°	1737.8	7.0
30°-40°	2584.8	10.4
40°-50°	3808.4	15.3
50°-60°	5331.8	21.5
60°-70°	5963.4	24.0
70°-80°	3642.7	14.7
80°-90°	468.6	1.9
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°	24838.0	100.0
0°-180°	24838.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454877

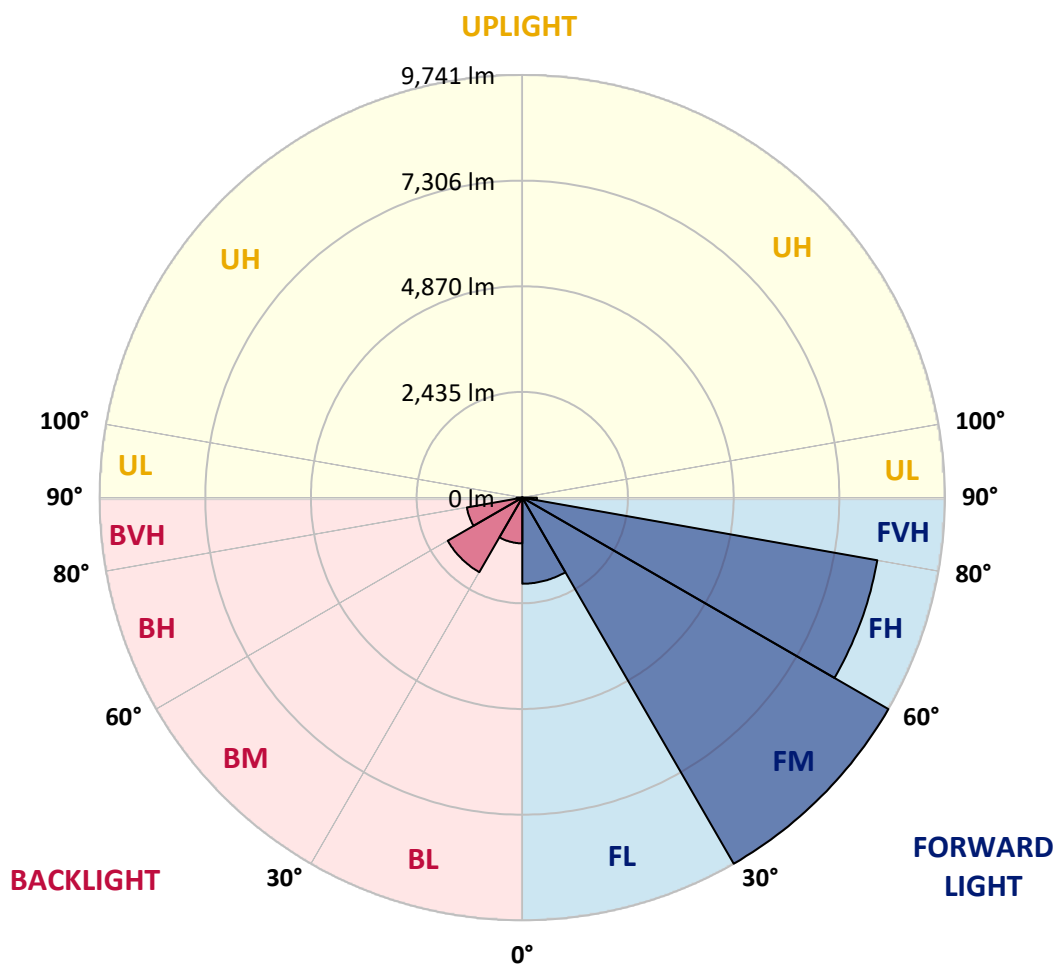
CATALOG NUMBER: GALN-SA6A-730-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.6	8.0			
FM (30°-60°)	9741.0	39.2			
FH (60°-80°)	8308.2	33.4			G4/12000
FVH (80°-90°)	337.2	1.4			G3/500
BL (0°-30°)	1053.8	4.2	B3/2500		
BM (30°-60°)	1984.0	8.0	B2/2500		
BH (60°-80°)	1297.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	131.4	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 Medium





REPORT NUMBER: P454877

CATALOG NUMBER: GALN-SA6A-730-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4
2.5°	3384.2	3367.8	3369.2	3346.0	3315.9	3283.2	3236.8	3195.8	3163.0	3143.9	3088.0
5°	3750.1	3733.7	3713.2	3662.7	3640.8	3560.3	3457.9	3365.1	3294.1	3254.5	3142.6
7.5°	4046.3	4042.2	4036.7	4008.1	3952.1	3840.2	3752.8	3591.7	3486.6	3411.5	3220.4
10°	4229.2	4236.1	4240.1	4245.6	4222.4	4163.7	4043.6	3840.2	3706.4	3610.8	3321.4
12.5°	4322.1	4328.9	4352.1	4402.6	4434.0	4427.2	4328.9	4129.6	3945.3	3819.7	3429.3
15°	4379.4	4390.3	4431.3	4498.2	4603.3	4670.2	4622.4	4438.1	4236.1	4087.3	3557.6
17.5°	4442.2	4454.5	4499.5	4595.1	4733.0	4877.7	4929.5	4771.2	4551.4	4373.9	3700.9
20°	4477.7	4494.1	4558.2	4683.8	4844.9	5055.1	5227.2	5143.9	4903.6	4707.0	3866.1
22.5°	4535.0	4548.7	4603.3	4737.1	4929.5	5193.0	5524.8	5507.0	5295.4	5041.5	4047.7
25°	4690.6	4712.5	4739.8	4820.3	5006.0	5333.6	5771.8	5894.7	5674.9	5391.0	4214.2
27.5°	4984.2	5001.9	5000.5	5011.5	5116.6	5455.1	5986.2	6278.3	6051.7	5744.5	4375.3
30°	5318.6	5325.4	5330.9	5306.3	5329.5	5579.4	6182.8	6657.8	6431.2	6107.7	4515.9
32.5°	5725.4	5739.1	5692.7	5629.9	5610.8	5763.7	6345.2	7037.3	6880.3	6476.3	4655.2
35°	6206.0	6241.5	6147.3	6036.7	5958.9	6028.5	6563.6	7425.0	7340.4	6947.2	4839.4
37.5°	6754.8	6798.4	6711.1	6494.0	6383.4	6402.5	6848.9	7904.2	7922.0	7483.7	5113.8
40°	7203.9	7261.2	7264.0	6956.8	6788.9	6810.7	7210.7	8420.2	8623.6	8147.2	5437.4
42.5°	7500.1	7556.1	7614.8	7434.6	7258.5	7382.7	7632.5	8979.9	9412.7	8952.6	5889.2
45°	7825.0	7875.5	7908.3	7826.4	7728.1	8050.3	8141.7	9575.1	10253.6	9852.3	6383.4
47.5°	8201.8	8257.8	8289.2	8211.4	8174.5	8635.9	8690.5	10130.8	11151.9	10726.0	6929.5
50°	8704.2	8746.5	8730.1	8681.0	8672.8	9085.1	9217.5	10650.9	11893.2	11666.6	7496.0
52.5°	9329.4	9379.9	9397.7	9328.1	9296.7	9405.9	9642.0	11124.6	12567.5	12474.7	8100.8
55°	9707.6	9788.1	10058.4	10167.6	10242.7	9820.9	10099.4	11647.4	13172.3	13326.6	8750.6
57.5°	9222.9	9326.7	9931.4	10477.5	11183.3	10858.4	10747.8	12193.5	13777.1	14152.5	9528.7
60°	8040.7	8063.9	8843.4	9849.5	11269.3	12192.1	12100.7	13061.7	14432.3	14985.2	10554.0
62.5°	5578.0	5627.1	6548.6	8154.0	10207.2	12672.7	14402.3	14560.7	15371.6	16231.6	12057.0
65°	2876.4	2812.2	3651.8	5124.8	7695.3	11531.4	16267.1	17316.9	17408.4	18181.0	14173.0
67.5°	1770.6	1799.3	2192.4	2992.4	4550.0	8380.6	16071.9	20684.7	20202.8	20574.1	16137.4
70°	1329.7	1365.1	1635.4	2047.7	2774.0	4791.7	12925.2	21501.1	22174.1	22078.5	16735.3
71°	1156.3	1193.1	1474.4	1863.4	2330.3	3698.2	10889.8	20646.5	22242.3	22226.0	16510.1
72.5°	985.6	1008.8	1228.6	1578.1	1964.4	2592.4	8181.3	18516.9	21293.6	21838.3	15706.0
75°	774.0	791.8	890.1	1204.1	1546.7	1591.8	4390.3	13882.2	17488.9	18526.4	13075.4
77.5°	630.7	643.0	693.5	894.2	1193.1	1127.6	2303.0	9035.9	10956.7	12001.0	7702.2
80°	501.0	514.7	544.7	606.1	894.2	804.1	1098.9	4578.7	5292.7	5281.8	3074.3
82.5°	389.1	393.2	428.7	445.0	611.6	570.6	595.2	1938.5	2147.4	2218.4	1109.9
85°	245.7	258.0	379.5	341.3	365.9	334.5	293.5	769.9	948.8	935.1	443.7
87.5°	75.1	79.2	128.3	144.7	162.5	146.1	107.8	226.6	277.1	300.3	110.6
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: P454877

CATALOG NUMBER: GALN-SA6A-730-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4
2.5°	3066.1	3051.1	2997.9	2954.2	2913.2	2868.2	2830.0	2819.0	2809.5	2805.4	2804.0
5°	3094.8	3049.7	2944.6	2858.6	2790.4	2727.6	2688.0	2670.2	2652.5	2652.5	2657.9
7.5°	3135.7	3053.8	2891.4	2763.1	2677.1	2618.4	2589.7	2587.0	2591.1	2595.1	2596.5
10°	3180.8	3051.1	2813.6	2653.8	2577.4	2550.1	2551.5	2574.7	2596.5	2612.9	2615.6
12.5°	3224.5	3034.7	2722.1	2551.5	2502.3	2507.8	2546.0	2597.9	2640.2	2663.4	2664.8
15°	3273.6	3008.8	2611.5	2454.5	2438.2	2480.5	2551.5	2630.6	2694.8	2733.0	2737.1
17.5°	3314.6	2965.1	2495.5	2360.3	2380.8	2458.6	2556.9	2659.3	2737.1	2784.9	2793.1
20°	3361.0	2909.1	2375.4	2270.2	2328.9	2434.1	2546.0	2656.6	2737.1	2783.5	2794.5
22.5°	3397.9	2830.0	2260.7	2196.5	2282.5	2404.0	2509.1	2597.9	2663.4	2688.0	2704.4
25°	3412.9	2730.3	2152.8	2136.5	2245.7	2354.9	2425.9	2476.4	2496.9	2494.1	2501.0
27.5°	3404.7	2615.6	2060.0	2088.7	2199.3	2278.4	2313.9	2309.8	2273.0	2238.8	2255.2
30°	3370.5	2479.1	1982.2	2039.5	2139.2	2182.9	2177.4	2124.2	2054.5	1990.4	1994.5
32.5°	3309.1	2331.7	1909.8	1983.6	2054.5	2073.7	2036.8	1967.2	1867.5	1784.2	1772.0
35°	3257.2	2191.1	1845.7	1919.4	1969.9	1960.4	1924.9	1834.8	1744.7	1670.9	1658.7
37.5°	3249.1	2070.9	1784.2	1847.0	1875.7	1862.1	1818.4	1741.9	1709.2	1653.2	1646.4
40°	3292.7	1986.3	1721.5	1770.6	1784.2	1773.3	1725.5	1681.9	1711.9	1698.2	1698.2
42.5°	3411.5	1941.2	1665.5	1694.1	1705.1	1713.3	1679.1	1642.3	1679.1	1616.3	1595.9
45°	3599.9	1942.6	1615.0	1619.1	1651.8	1680.5	1657.3	1602.7	1583.6	1458.0	1433.4
47.5°	3877.0	1989.0	1574.0	1548.1	1606.8	1654.6	1621.8	1542.6	1458.0	1374.7	1359.7
50°	4200.6	2072.3	1537.2	1474.4	1546.7	1621.8	1597.2	1504.4	1417.0	1366.5	1357.0
52.5°	4559.6	2177.4	1492.1	1392.5	1473.0	1606.8	1602.7	1498.9	1378.8	1344.7	1336.5
55°	5003.3	2281.2	1436.1	1296.9	1407.5	1594.5	1587.7	1453.9	1370.6	1346.0	1343.3
57.5°	5519.3	2431.3	1355.6	1200.0	1332.4	1544.0	1529.0	1426.6	1343.3	1325.6	1324.2
60°	6350.7	2664.8	1240.9	1111.2	1255.9	1455.2	1474.4	1380.2	1299.6	1295.5	1294.2
62.5°	7444.1	2992.4	1122.2	1019.8	1167.2	1340.6	1395.2	1317.4	1253.2	1273.7	1276.4
65°	8954.0	3268.2	999.3	942.0	1068.9	1230.0	1320.1	1258.7	1201.3	1240.9	1240.9
67.5°	9938.3	3273.6	887.3	861.4	969.3	1137.2	1240.9	1189.0	1134.4	1201.3	1204.1
70°	9733.5	2868.2	794.5	776.8	872.3	1037.5	1153.5	1112.6	1049.8	1109.9	1088.0
71°	9403.1	2642.9	757.7	744.0	834.1	989.7	1112.6	1078.5	1015.7	1055.3	1043.0
72.5°	8876.2	2294.8	697.6	700.3	776.8	929.7	1055.3	1019.8	957.0	978.8	974.7
75°	7502.9	2004.0	596.6	608.9	667.6	827.3	940.6	913.3	849.1	849.1	845.0
77.5°	4690.6	1400.6	495.5	502.4	566.5	708.5	808.2	785.0	723.5	703.1	697.6
80°	1750.1	723.5	387.7	395.9	435.5	558.3	668.9	647.1	584.3	561.1	539.2
82.5°	662.1	363.1	285.3	278.5	320.8	425.9	524.2	498.3	449.1	393.2	376.8
85°	249.8	180.2	174.7	169.3	188.4	252.6	324.9	319.4	267.6	228.0	223.9
87.5°	65.5	58.7	68.3	50.5	53.2	47.8	49.1	20.5	9.6	4.1	2.7
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)