

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: P455530

Luminaire Tested: **GALN-SA6D-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38740 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

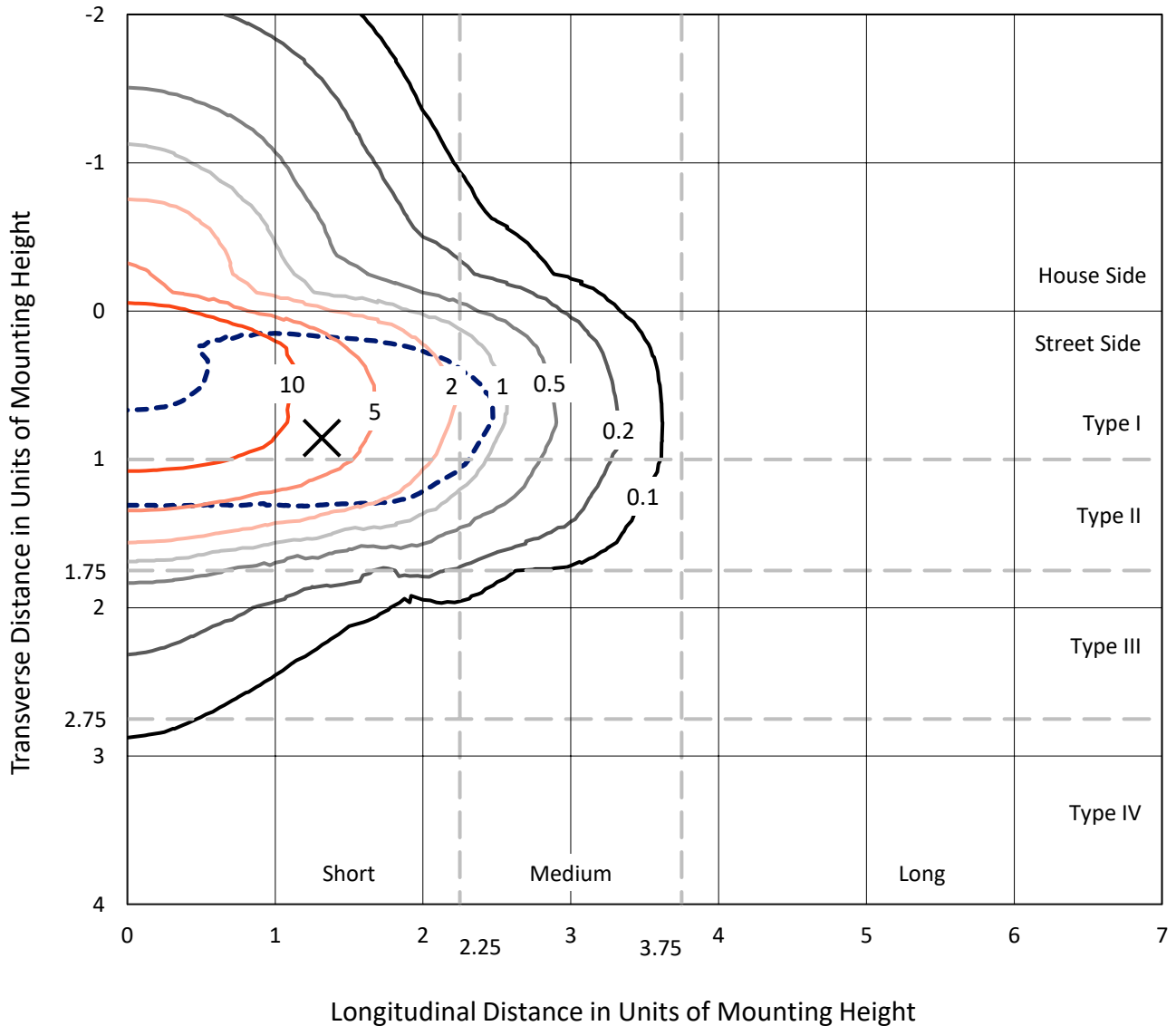
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455530  
 CATALOG NUMBER: GALN-SA6D-727-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

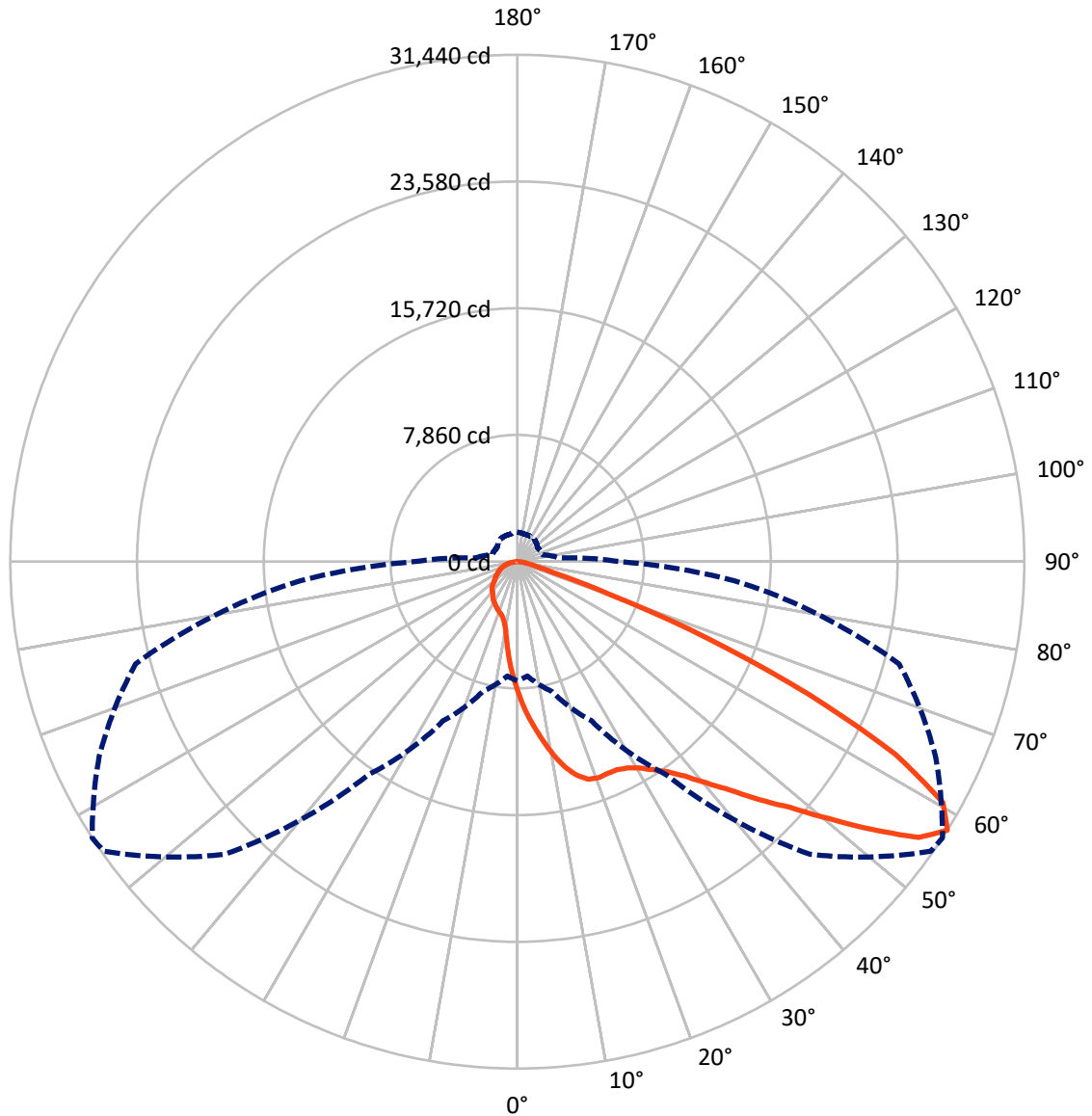
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P455530  
CATALOG NUMBER: GALN-SA6D-727-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P455530

CATALOG NUMBER: GALN-SA6D-727-U-AFL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5891.3	0.0	5891.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	32848.7	0.0	32848.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	38740.0	0.0	38740.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	782.2	2.0
10°-20°	2305.3	6.0
20°-30°	3827.9	9.9
30°-40°	5765.9	14.9
40°-50°	8657.0	22.3
50°-60°	9703.4	25.0
60°-70°	5678.9	14.7
70°-80°	1679.8	4.3
80°-90°	339.5	0.9
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°	38740.0	100.0
0°-180°	38740.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455530

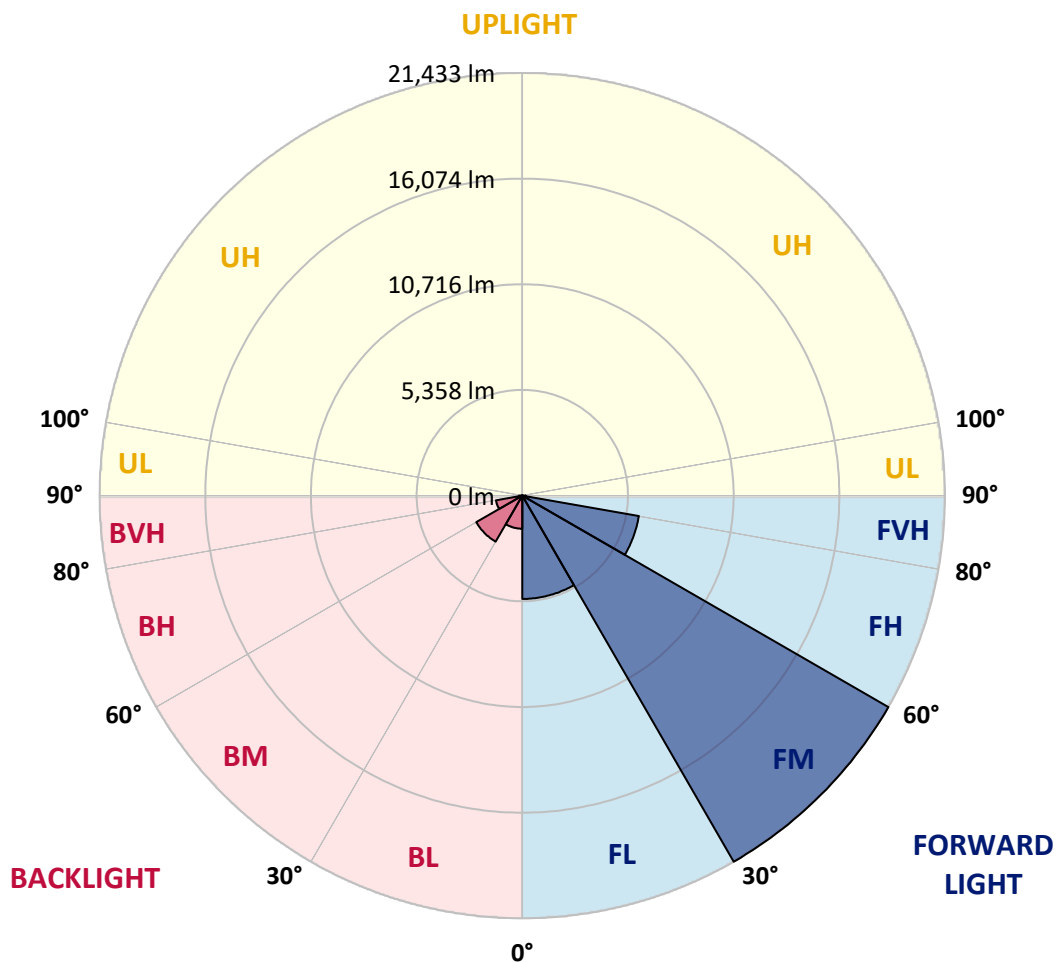
CATALOG NUMBER: GALN-SA6D-727-U-AFL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5236.8	13.5			
FM	(30°-60°)	21432.7	55.3			
FH	(60°-80°)	6003.2	15.5			G3/7500
FVH	(80°-90°)	176.2	0.5			G2/225
BL	(0°-30°)	1678.6	4.3	B3/2500		
BM	(30°-60°)	2693.7	7.0	B3/5000		
BH	(60°-80°)	1355.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	163.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P455530

CATALOG NUMBER: GALN-SA6D-727-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8
2.5°	10113.1	10002.8	9915.9	9839.5	9739.9	9470.6	9201.2	9197.0	8982.8	8652.0	8312.7
5°	11760.8	11612.4	11631.4	11393.9	11156.4	10766.2	10195.8	10166.1	9710.2	9091.0	8461.2
7.5°	12833.8	12835.9	12776.6	12640.8	12384.3	11941.1	11294.3	11148.0	10513.9	9574.5	8630.8
10°	12778.7	12835.9	12935.6	13052.2	13130.7	12912.3	12322.8	12144.6	11319.7	10159.8	8819.5
12.5°	12045.0	12134.0	12276.1	12568.7	13041.6	13402.1	13200.7	13056.5	12252.8	10742.9	9027.4
15°	11586.9	11639.9	11718.4	11915.6	12424.5	13287.6	13809.3	13733.0	13132.8	11402.4	9260.6
17.5°	11447.0	11500.0	11525.4	11646.3	12008.9	12893.2	14048.9	14184.6	13913.2	12008.9	9496.0
20°	11586.9	11612.4	11612.4	11684.5	11968.6	12662.1	14038.3	14311.9	14553.6	12736.3	9716.6
22.5°	11953.8	11964.4	11949.5	11975.0	12187.0	12725.7	13938.6	14277.9	15071.0	13353.4	9888.3
25°	12549.7	12566.6	12469.1	12409.7	12564.5	13005.6	13993.8	14305.5	15476.1	13942.9	10002.8
27.5°	13226.1	13247.3	13128.6	12990.7	13062.8	13351.2	14210.1	14490.0	15779.3	14523.9	10074.9
30°	14055.3	14063.8	13864.4	13699.0	13652.4	13866.5	14579.1	14839.9	16156.8	15208.9	10183.1
32.5°	14903.5	14967.1	14710.5	14477.3	14398.8	14464.6	15124.1	15376.4	16606.4	15944.7	10357.0
35°	16057.1	16067.7	15760.2	15476.1	15217.4	15302.2	15821.7	16004.1	17227.7	16795.1	10603.0
37.5°	17497.0	17594.5	17170.4	16640.3	16322.2	16199.2	16665.7	16865.1	18099.2	17838.4	10974.1
40°	19095.9	19132.0	18769.4	18438.5	17857.5	17501.2	17823.6	18039.9	19174.4	19083.2	11404.5
42.5°	20101.1	20179.5	20207.1	20173.2	19736.3	19138.3	19261.3	19363.1	20446.7	20251.6	11845.6
45°	20440.4	20557.0	20951.4	21787.0	21833.6	21244.1	20957.8	21055.4	21833.6	21430.7	12267.6
47.5°	19878.4	20077.8	20805.1	22518.6	23801.5	23846.1	22983.0	22768.8	23097.5	22408.3	12573.0
50°	18425.8	18468.2	19581.5	22062.6	24724.0	26333.5	25440.7	25042.1	24297.7	23131.4	12782.9
52.5°	16178.0	16226.8	17159.8	19944.2	24155.7	28072.4	28316.3	27603.7	25517.1	23693.4	12920.8
55°	12008.9	12290.9	13317.3	16008.3	21462.5	27909.1	30602.3	30197.2	26990.9	24138.7	13137.1
57.5°	7383.9	7125.2	8342.4	10891.4	16141.9	25665.5	31308.4	31439.9	28613.1	24511.9	13499.7
60°	3397.2	3448.1	3950.7	5617.4	9839.5	20077.8	29488.9	30320.2	29510.2	24499.2	13590.9
62.5°	2341.1	2294.5	2167.2	2466.2	4487.2	12698.1	24908.5	26316.5	27711.9	23737.9	13228.3
65°	2093.0	2046.4	1800.4	1717.7	2061.2	5534.7	18107.7	19884.8	23332.9	21816.6	12324.9
67.5°	1955.2	1891.6	1637.1	1475.9	1471.7	2203.3	10677.2	12816.9	17306.1	18444.9	10679.3
70°	1811.0	1760.1	1507.7	1329.6	1253.3	1384.7	4692.9	6143.4	11237.0	13291.9	8319.1
72.5°	1666.8	1607.4	1380.5	1189.7	1090.0	1037.0	1798.3	2339.0	6349.1	7969.2	5100.0
75°	1456.8	1427.2	1234.2	1077.3	969.1	837.6	1140.9	1302.0	3036.7	3660.1	2559.6
77.5°	1274.5	1242.7	1096.3	941.5	863.1	680.7	810.1	884.3	1280.8	1484.4	1155.7
80°	933.1	964.9	924.6	831.3	769.8	534.4	545.0	606.5	761.3	841.9	706.2
82.5°	591.6	651.0	712.5	640.4	583.2	422.0	377.5	400.8	519.5	551.4	313.8
85°	248.1	252.4	413.5	390.2	332.9	250.2	226.9	239.6	277.8	290.5	146.3
87.5°	95.4	93.3	146.3	135.7	103.9	72.1	72.1	80.6	110.3	101.8	46.7
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: P455530  
 CATALOG NUMBER: GALN-SA6D-727-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8	8138.8
2.5°	8166.4	8015.8	7716.8	7345.7	7074.3	6768.9	6499.6	6306.6	6234.5	6200.6	6137.0
5°	8160.0	7863.2	7243.9	6595.0	6073.4	5539.0	5087.3	4794.7	4769.2	4574.1	4555.0
7.5°	8162.2	7708.4	6722.3	5768.0	4972.8	4425.7	4052.5	3954.9	3838.3	3808.6	3823.4
10°	8168.5	7511.1	6162.4	4949.5	4179.7	3821.3	3681.3	3643.2	3647.4	3660.1	3662.3
12.5°	8177.0	7320.3	5581.4	4328.1	3734.4	3585.9	3571.1	3605.0	3641.1	3668.6	3675.0
15°	8187.6	7101.9	5015.2	3827.7	3511.7	3499.0	3547.7	3605.0	3655.9	3696.2	3702.6
17.5°	8174.9	6847.4	4540.2	3520.2	3388.7	3450.2	3530.8	3602.9	3649.5	3687.7	3691.9
20°	8145.2	6563.2	4082.1	3303.9	3312.4	3412.0	3499.0	3566.8	3617.7	3636.8	3651.7
22.5°	8030.7	6223.9	3683.5	3136.4	3221.2	3359.0	3462.9	3503.2	3446.0	3405.7	3416.3
25°	7835.6	5782.9	3312.4	3000.6	3138.5	3284.8	3390.8	3293.3	3246.6	3229.7	3238.1
27.5°	7591.7	5299.4	3032.4	2858.6	3032.4	3202.1	3172.4	3155.4	3134.2	3106.7	3113.0
30°	7328.8	4826.5	2794.9	2748.3	2917.9	3015.5	3028.2	3055.8	3032.4	2990.0	3007.0
32.5°	7084.9	4381.1	2614.7	2655.0	2837.4	2822.5	2917.9	2949.7	2841.6	2699.5	2705.9
35°	6877.1	3967.6	2479.0	2563.8	2699.5	2705.9	2801.3	2691.0	2574.4	2506.5	2510.8
37.5°	6720.2	3645.3	2389.9	2485.3	2523.5	2604.1	2553.2	2495.9	2481.1	2434.4	2436.6
40°	6626.8	3363.3	2332.7	2423.8	2417.5	2472.6	2309.3	2366.6	2387.8	2372.9	2375.1
42.5°	6533.5	3163.9	2273.3	2339.0	2336.9	2228.7	2192.7	2241.5	2296.6	2303.0	2298.7
45°	6459.3	3009.1	2211.8	2209.7	2252.1	2082.4	2071.8	2101.5	2180.0	2218.1	2216.0
47.5°	6376.6	2879.8	2118.5	2059.1	2071.8	1991.2	1974.3	1987.0	2082.4	2143.9	2160.9
50°	6272.7	2750.4	2001.8	1921.3	1868.2	1906.4	1910.7	1912.8	2008.2	2078.2	2093.0
52.5°	6190.0	2652.9	1868.2	1808.9	1745.2	1830.1	1861.9	1866.1	1923.4	1980.6	1991.2
55°	6238.8	2597.7	1736.8	1694.4	1637.1	1751.6	1813.1	1821.6	1834.3	1876.7	1883.1
57.5°	6385.1	2610.4	1630.7	1575.6	1533.2	1658.3	1762.2	1768.6	1760.1	1811.0	1819.5
60°	6429.6	2604.1	1552.3	1444.1	1418.7	1558.6	1688.0	1700.7	1698.6	1772.8	1787.7
62.5°	6243.0	2523.5	1473.8	1333.9	1316.9	1456.8	1584.1	1635.0	1645.6	1751.6	1770.7
65°	5804.1	2358.1	1369.9	1217.2	1217.2	1348.7	1484.4	1554.4	1584.1	1726.2	1747.4
67.5°	5225.1	2163.0	1263.9	1117.6	1113.3	1244.8	1378.4	1450.5	1497.1	1690.1	1702.8
70°	4336.6	1900.1	1132.4	1009.4	1009.4	1128.2	1249.0	1336.0	1403.8	1622.3	1622.3
72.5°	2970.9	1579.8	973.4	886.4	888.5	998.8	1121.8	1219.3	1299.9	1486.5	1490.8
75°	1878.8	1234.2	799.5	754.9	763.4	867.3	994.6	1096.3	1257.5	1469.6	1475.9
77.5°	998.8	867.3	636.2	625.6	636.2	731.6	873.7	1013.6	1261.8	1274.5	1253.3
80°	646.8	615.0	502.6	481.4	485.6	589.5	778.3	962.7	1013.6	1026.4	979.7
82.5°	352.0	390.2	356.3	335.1	335.1	460.2	663.7	765.5	727.4	604.4	576.8
85°	150.6	182.4	184.5	161.2	154.8	284.2	445.3	417.8	388.1	371.1	366.9
87.5°	42.4	59.4	59.4	44.5	33.9	78.5	89.1	25.4	0.0	2.1	4.2
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)