

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: P455198

Luminaire Tested: **GALN-SA6B-760-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455198  
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-SA6B-760-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34388 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

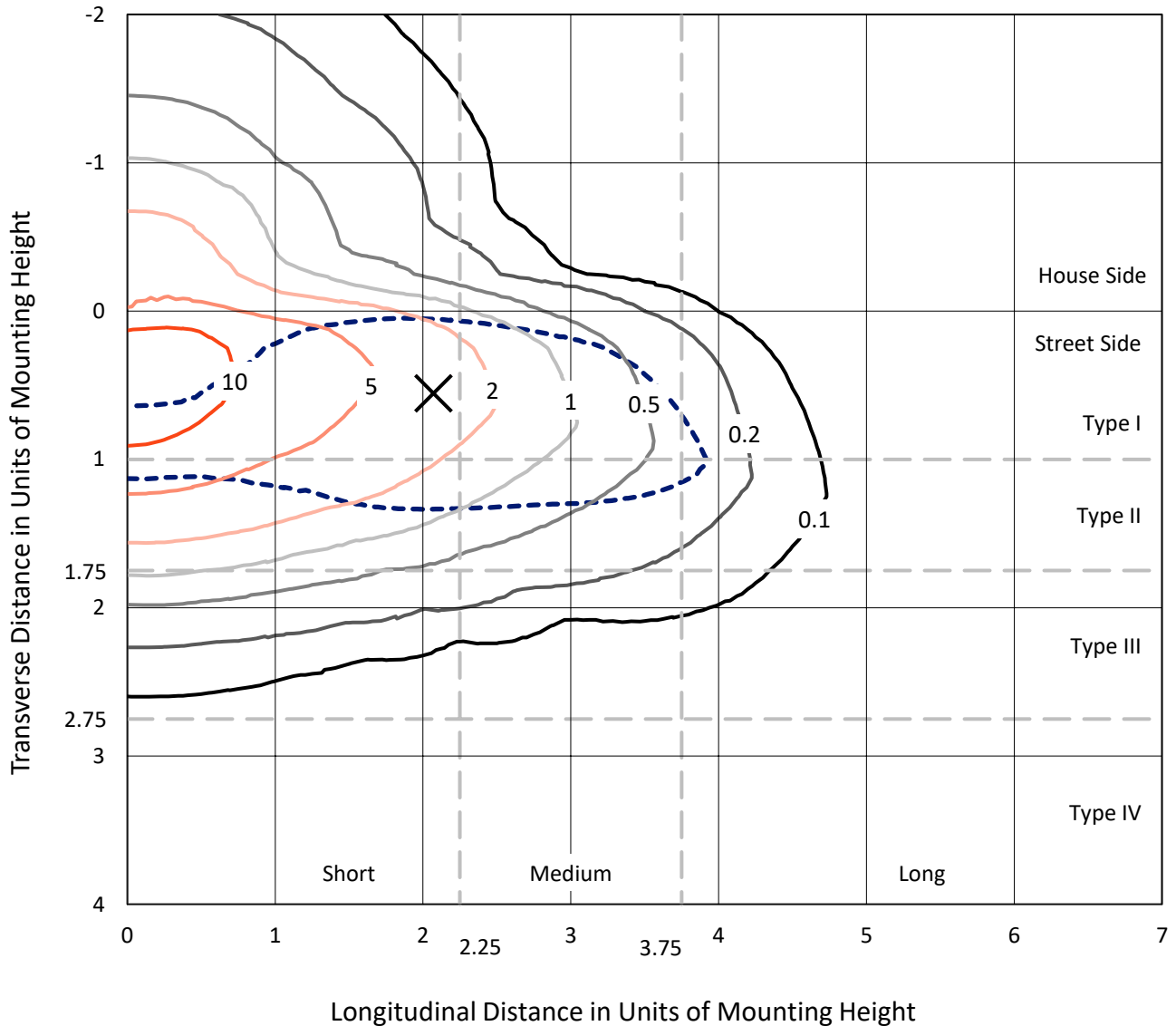
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455198  
 CATALOG NUMBER: GALN-SA6B-760-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

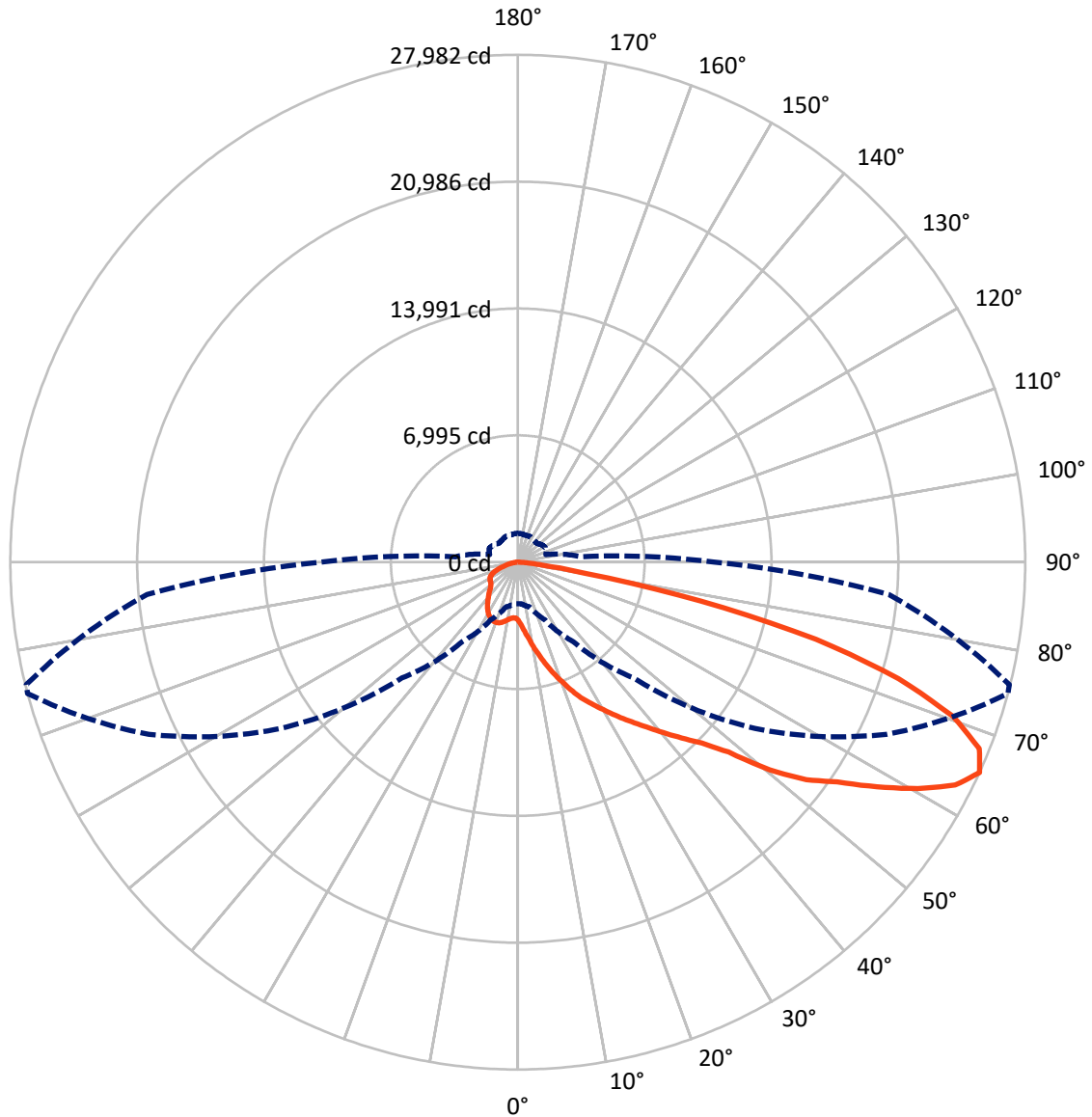
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P455198  
CATALOG NUMBER: GALN-SA6B-760-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-SA6B-760-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5781.1	0.0	5781.1
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	28606.9	0.0	28606.9
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	34388.0	0.0	34388.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.2	1.1
10°-20°	1520.5	4.4
20°-30°	2937.1	8.5
30°-40°	4770.7	13.9
40°-50°	6562.5	19.1
50°-60°	7748.1	22.5
60°-70°	6788.6	19.7
70°-80°	3240.9	9.4
80°-90°	431.2	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°	34388.0	100.0
0°-180°	34388.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455198

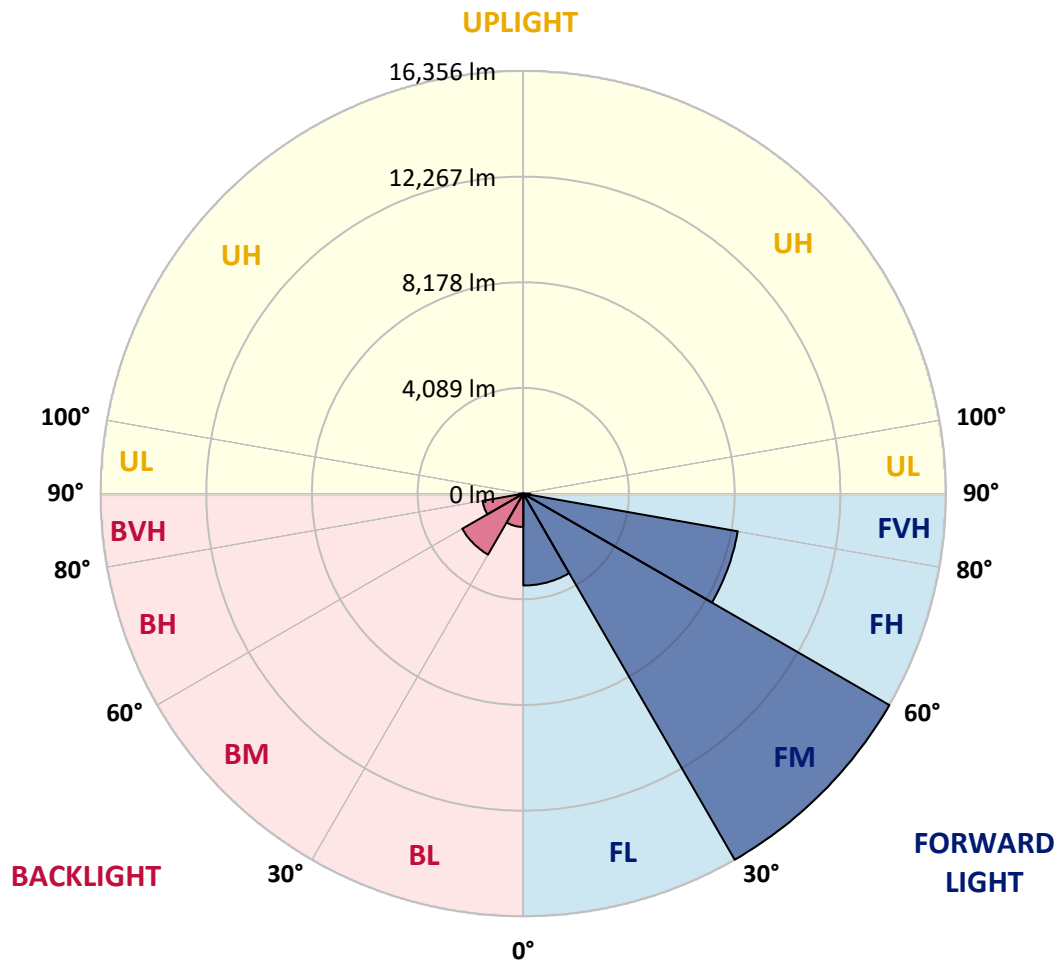
CATALOG NUMBER: GALN-SA6B-760-U-T2R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3555.2	10.3			
FM	(30°-60°)	16355.7	47.6			
FH	(60°-80°)	8426.6	24.5			G4/12000
FVH	(80°-90°)	269.5	0.8			G3/500
BL	(0°-30°)	1290.6	3.8	B3/2500		
BM	(30°-60°)	2725.7	7.9	B3/5000		
BH	(60°-80°)	1603.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	161.7	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: P455198

CATALOG NUMBER: GALN-SA6B-760-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1
2.5°	4245.2	4217.2	4187.4	4105.3	4017.6	3918.8	3777.0	3640.9	3459.9	3454.3	3320.0
5°	5422.1	5403.5	5271.0	5194.6	4991.3	4720.8	4491.4	4135.1	3805.0	3765.8	3504.7
7.5°	6503.9	6431.2	6380.8	6242.8	6041.4	5694.4	5250.5	4769.3	4217.2	4165.0	3732.3
10°	7319.0	7311.6	7285.5	7166.1	7015.0	6669.9	6177.5	5487.4	4739.5	4636.9	4008.3
12.5°	7928.9	7934.5	7930.8	7928.9	7820.8	7527.9	6994.5	6267.1	5267.3	5194.6	4327.3
15°	8330.0	8385.9	8408.3	8501.6	8510.9	8315.0	7856.2	7020.6	5862.3	5754.1	4670.4
17.5°	8594.8	8622.8	8727.2	8885.8	9014.5	8979.1	8570.6	7718.2	6470.4	6289.4	5026.7
20°	8848.5	8897.0	8977.2	9193.5	9421.1	9525.6	9238.3	8432.5	7072.8	6957.2	5420.3
22.5°	9376.3	9445.3	9473.3	9583.4	9777.4	9962.0	9831.4	9117.1	7733.1	7576.4	5838.1
25°	10269.8	10342.5	10264.2	10238.1	10301.5	10392.9	10364.9	9762.4	8356.1	8132.3	6233.5
27.5°	11433.6	11443.0	11290.0	11144.5	10987.9	10941.2	10855.4	10335.0	8897.0	8710.5	6630.8
30°	12683.3	12638.6	12384.9	12121.9	11857.0	11595.9	11349.7	10887.1	9499.4	9284.9	7020.6
32.5°	13843.5	13819.2	13537.6	13129.1	12681.5	12435.3	11937.2	11444.8	10144.8	9937.8	7421.6
35°	14712.7	14748.1	14438.5	13992.7	13504.0	13285.8	12657.2	12030.5	10812.5	10586.8	7858.1
37.5°	15330.0	15311.4	15037.2	14651.1	14222.1	14031.9	13498.4	12670.3	11530.6	11314.3	8335.6
40°	15550.1	15538.9	15335.6	15054.0	14781.7	14714.5	14378.8	13360.4	12353.2	12099.5	8910.0
42.5°	15410.2	15434.5	15300.2	15223.7	15173.4	15221.9	15253.6	14265.0	13250.3	13017.2	9533.0
45°	14981.2	14968.2	14949.5	15074.5	15358.0	15677.0	16119.0	15119.3	14225.8	14039.3	10368.6
47.5°	14214.7	14307.9	14354.5	14699.6	15318.8	16074.3	17115.0	16264.5	15641.5	15479.3	11642.5
50°	13142.2	13216.8	13492.8	14106.5	15029.7	16223.5	18088.7	18137.2	18002.9	17698.8	13026.5
52.5°	11467.2	11582.9	12151.7	13276.5	14436.6	16161.9	18678.1	19743.1	19920.3	19692.7	14390.0
55°	9592.7	9755.0	10355.6	11830.9	13619.7	15826.2	19084.7	20673.8	21380.7	21170.0	15703.1
57.5°	7757.3	7928.9	8546.3	9975.1	12194.6	15083.8	19351.4	21710.9	23369.0	23094.8	17337.0
60°	5813.8	5992.9	6522.6	7994.2	10165.3	13632.7	19170.5	22609.9	25355.5	25238.0	18972.8
62.5°	3750.9	3948.6	4409.3	5627.3	7813.3	11650.0	18202.4	23106.0	27075.2	26933.4	20166.5
65°	2284.9	2307.2	2560.9	3493.5	5347.5	9020.1	15988.5	22447.6	27981.7	27938.8	20530.2
67.5°	1477.2	1512.7	1628.3	2092.7	3206.3	6265.2	12784.0	20274.7	27451.9	27437.0	19778.5
70°	1247.8	1259.0	1311.2	1412.0	1863.3	3799.4	8977.2	16811.0	25439.4	25439.4	17971.2
72.5°	1115.4	1130.3	1149.0	1180.7	1329.9	2152.4	5356.8	13086.2	21964.5	22110.0	15296.5
75°	1012.8	1009.1	1020.3	1025.9	1134.0	1406.4	2769.8	9678.5	16991.9	16701.0	11077.4
77.5°	867.3	872.9	867.3	891.6	1001.6	1070.6	1406.4	6494.6	10297.7	9921.0	5560.1
80°	712.5	721.8	731.2	746.1	856.1	813.2	844.9	2960.1	3808.7	3728.5	1717.8
82.5°	535.3	548.4	563.3	598.7	673.3	537.2	533.4	1264.6	1374.6	1259.0	632.3
85°	216.4	255.5	386.1	421.5	423.4	294.7	328.3	527.9	561.4	548.4	248.1
87.5°	50.4	59.7	125.0	188.4	173.5	110.0	121.2	171.6	195.8	180.9	83.9
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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CATALOG NUMBER: GALN-SA6B-760-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1	3195.1
2.5°	3258.5	3193.2	3081.3	2995.5	2934.0	2879.9	2846.3	2825.8	2818.3	2816.4	2818.3
5°	3368.5	3252.9	3075.7	2963.8	2902.2	2866.8	2846.3	2844.4	2846.3	2848.2	2842.6
7.5°	3519.6	3353.6	3122.3	3017.9	2971.3	2945.1	2935.8	2932.1	2934.0	2932.1	2932.1
10°	3721.1	3493.5	3213.7	3105.6	3066.4	3036.5	3021.6	3012.3	3004.8	2997.4	2993.6
12.5°	3943.0	3648.3	3312.6	3208.1	3152.2	3105.6	3072.0	3047.7	3030.9	3014.2	3010.4
15°	4191.1	3812.5	3422.6	3277.1	3196.9	3127.9	3070.1	3030.9	3001.1	2976.9	2975.0
17.5°	4428.0	3967.3	3497.2	3308.9	3191.3	3094.4	3017.9	2963.8	2926.5	2894.8	2891.1
20°	4681.6	4114.6	3530.8	3288.3	3135.4	3017.9	2917.2	2851.9	2809.0	2773.5	2767.9
22.5°	4937.2	4239.6	3527.1	3223.1	3038.4	2900.4	2794.1	2725.1	2674.7	2639.3	2626.2
25°	5181.5	4340.3	3480.5	3118.6	2904.1	2760.5	2652.3	2588.9	2544.1	2501.2	2501.2
27.5°	5401.6	4400.0	3392.8	2991.8	2766.1	2615.0	2529.2	2471.4	2430.3	2402.4	2385.6
30°	5618.0	4428.0	3273.4	2831.4	2620.6	2491.9	2422.9	2389.3	2352.0	2320.3	2316.6
32.5°	5811.9	4422.4	3124.2	2674.7	2482.6	2391.2	2363.2	2337.1	2297.9	2253.2	2242.0
35°	6000.3	4385.1	2947.0	2503.1	2366.9	2331.5	2339.0	2301.7	2230.8	2174.8	2165.5
37.5°	6205.5	4317.9	2753.0	2363.2	2269.9	2303.5	2322.2	2240.1	2124.5	2036.8	2016.3
40°	6442.4	4241.5	2551.6	2223.3	2193.5	2277.4	2277.4	2126.3	1967.8	1913.7	1898.8
42.5°	6720.3	4178.0	2383.7	2105.8	2130.1	2214.0	2204.7	1975.2	1910.0	1882.0	1874.5
45°	7160.5	4155.7	2210.3	2003.2	2077.8	2139.4	2062.9	1923.0	1885.7	1863.3	1855.9
47.5°	7856.2	4181.8	2057.3	1926.7	2018.1	2064.8	1904.4	1887.6	1861.5	1829.8	1826.0
50°	8501.6	4157.5	1949.1	1883.8	1965.9	1975.2	1839.1	1844.7	1829.8	1794.3	1786.9
52.5°	9029.4	4081.0	1880.1	1861.5	1921.2	1818.6	1777.5	1798.0	1792.5	1747.7	1740.2
55°	9609.5	4034.4	1846.5	1861.5	1891.3	1682.4	1719.7	1749.6	1742.1	1710.4	1708.5
57.5°	10312.7	4043.7	1822.3	1867.1	1861.5	1613.4	1661.9	1697.3	1695.5	1686.1	1686.1
60°	11032.6	4047.5	1785.0	1865.2	1826.0	1559.3	1602.2	1652.6	1656.3	1661.9	1661.9
62.5°	11271.4	3885.2	1712.2	1831.6	1747.7	1507.1	1546.2	1615.3	1611.5	1626.5	1628.3
65°	10825.6	3435.7	1604.1	1755.1	1647.0	1469.8	1503.3	1566.8	1546.2	1585.4	1592.9
67.5°	9853.8	2842.6	1436.2	1617.1	1535.1	1430.6	1475.4	1499.6	1462.3	1538.8	1540.7
70°	8516.5	2219.6	1223.6	1421.3	1408.2	1389.6	1453.0	1415.7	1363.5	1456.7	1438.1
72.5°	7121.3	1695.5	977.4	1162.0	1238.5	1328.0	1413.8	1307.5	1234.8	1262.7	1229.2
75°	5349.4	1253.4	785.2	910.2	1031.5	1240.4	1378.4	1176.9	1065.0	1038.9	1031.5
77.5°	2726.9	818.8	587.5	680.8	774.1	1121.0	1329.9	1024.0	882.2	841.2	822.6
80°	973.6	509.2	414.1	470.0	522.3	964.3	1162.0	846.8	684.5	677.1	684.5
82.5°	451.4	328.3	277.9	307.8	309.6	643.5	886.0	632.3	520.4	790.8	667.7
85°	194.0	164.1	156.7	152.9	141.8	287.2	498.0	339.5	529.7	236.9	218.2
87.5°	57.8	65.3	57.8	42.9	31.7	31.7	50.4	18.7	13.1	9.3	9.3
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)