

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: P459142

Luminaire Tested: **GALN-SA6B-735-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459142  
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-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 32034 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

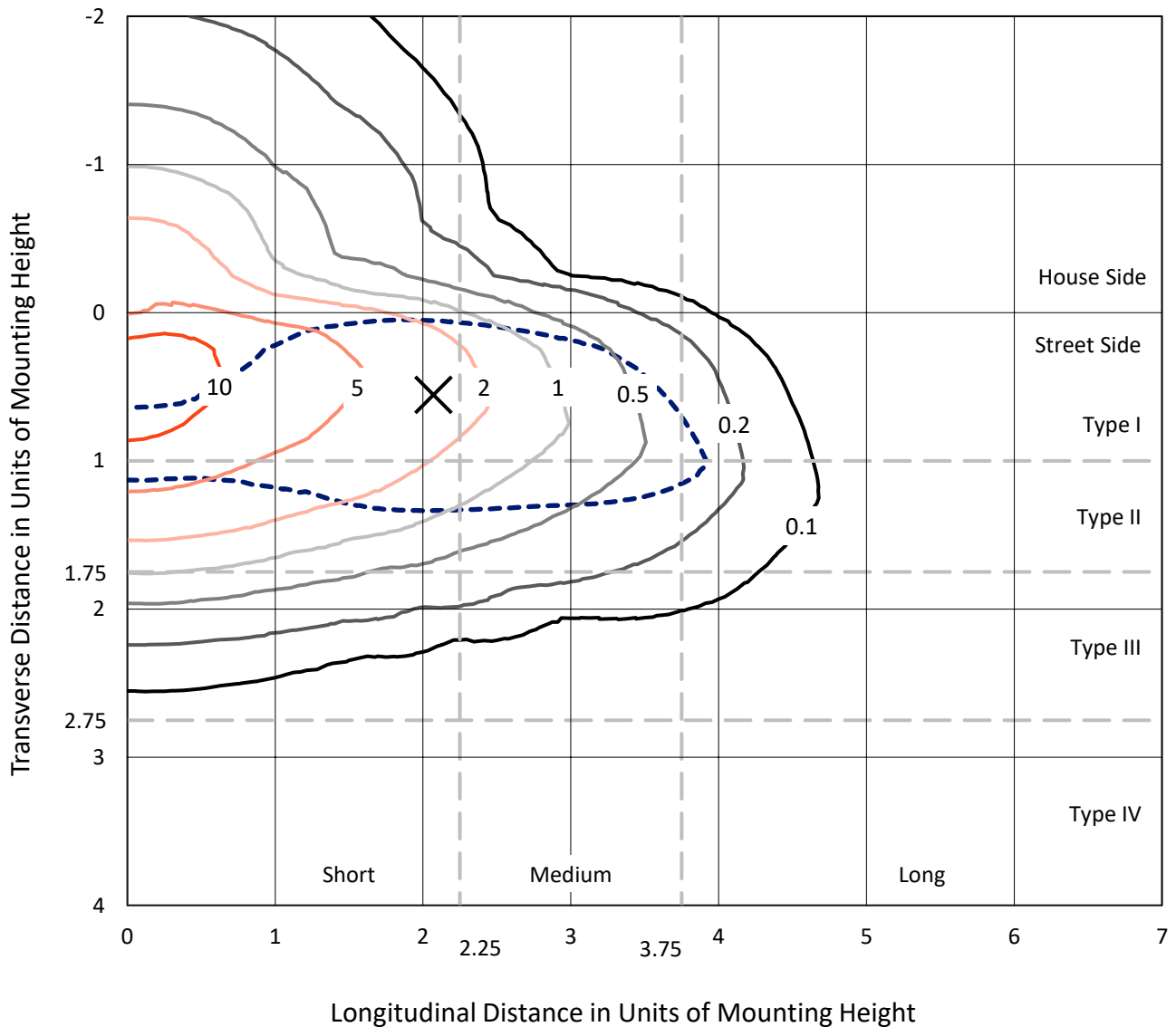
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

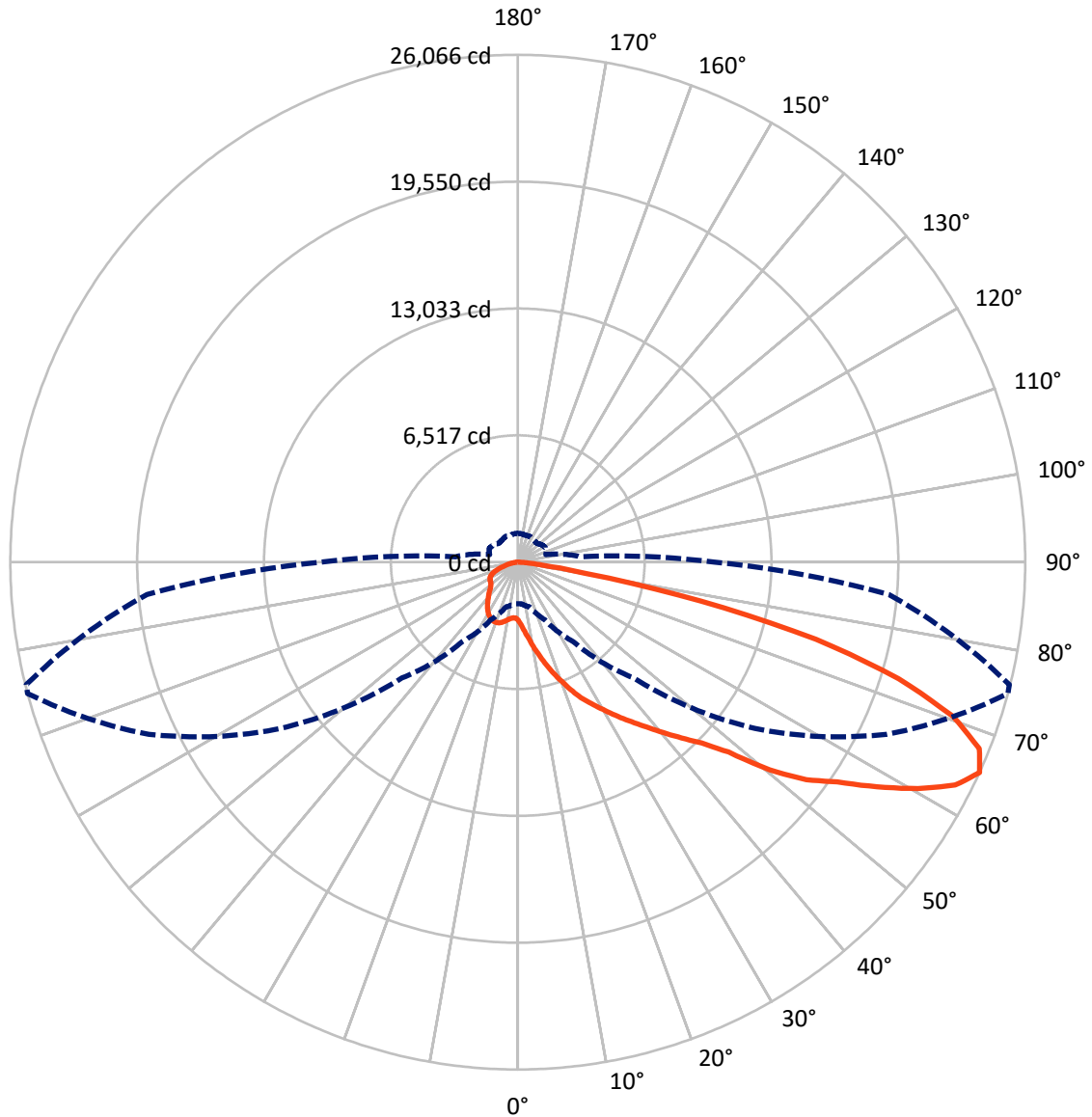
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5385.3	0.0	5385.3
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	26648.7	0.0	26648.7
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	32034.0	0.0	32034.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.6	1.1
10°-20°	1416.4	4.4
20°-30°	2736.0	8.5
30°-40°	4444.1	13.9
40°-50°	6113.3	19.1
50°-60°	7217.7	22.5
60°-70°	6323.9	19.7
70°-80°	3019.1	9.4
80°-90°	401.7	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°	32034.0	100.0
0°-180°	32034.0	100.0

**Coefficient of Utilization**



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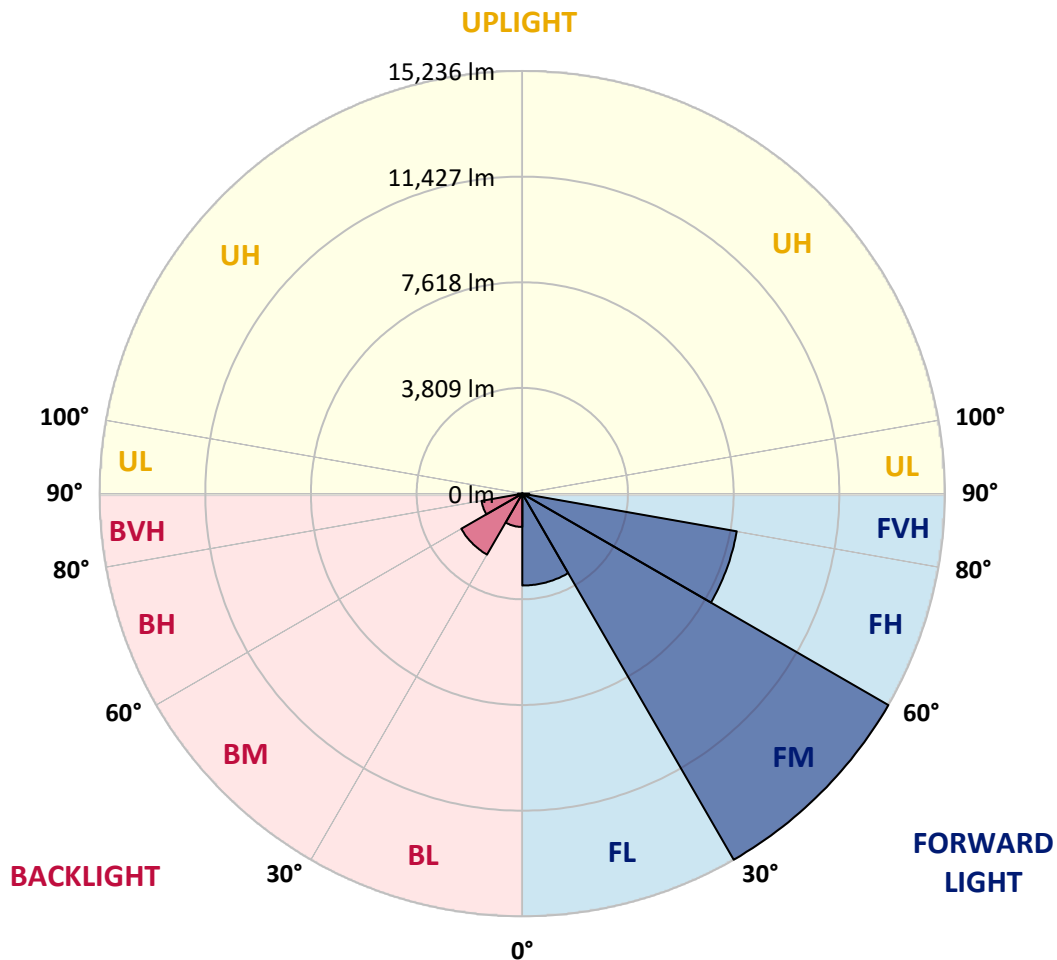
CATALOG NUMBER: GALN-SA6B-735-U-T2R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3311.8	10.3			
FM	(30°-60°)	15236.0	47.6			
FH	(60°-80°)	7849.8	24.5			G4/12000
FVH	(80°-90°)	251.0	0.8			G3/500
BL	(0°-30°)	1202.3	3.8	B3/2500		
BM	(30°-60°)	2539.1	7.9	B3/5000		
BH	(60°-80°)	1493.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	150.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4
2.5°	3954.6	3928.5	3900.7	3824.3	3742.6	3650.5	3518.5	3391.6	3223.1	3217.9	3092.8
5°	5051.0	5033.6	4910.2	4839.0	4649.6	4397.7	4183.9	3852.1	3544.5	3508.0	3264.8
7.5°	6058.7	5991.0	5944.0	5815.5	5627.8	5304.6	4891.1	4442.8	3928.5	3879.9	3476.8
10°	6818.0	6811.1	6786.7	6675.5	6534.8	6213.4	5754.6	5111.8	4415.0	4319.5	3733.9
12.5°	7386.2	7391.4	7387.9	7386.2	7285.4	7012.6	6515.7	5838.1	4906.7	4839.0	4031.0
15°	7759.7	7811.9	7832.7	7919.6	7928.3	7745.8	7318.4	6540.0	5461.0	5360.2	4350.7
17.5°	8006.5	8032.5	8129.8	8277.5	8397.4	8364.4	7983.9	7189.8	6027.4	5858.9	4682.6
20°	8242.8	8287.9	8362.7	8564.2	8776.2	8873.5	8605.9	7855.3	6588.7	6480.9	5049.2
22.5°	8734.5	8798.8	8824.8	8927.4	9108.1	9280.1	9158.4	8493.0	7203.7	7057.8	5438.4
25°	9566.8	9634.5	9561.5	9537.2	9596.3	9681.4	9655.4	9094.2	7784.1	7575.6	5806.8
27.5°	10651.0	10659.7	10517.2	10381.7	10235.7	10192.3	10112.3	9627.6	8287.9	8114.2	6176.9
30°	11815.1	11773.4	11537.1	11292.1	11045.4	10802.1	10572.8	10141.9	8849.2	8649.3	6540.0
32.5°	12895.8	12873.2	12610.9	12230.4	11813.4	11584.0	11120.1	10661.4	9450.3	9257.5	6913.6
35°	13705.5	13738.5	13450.1	13034.8	12579.6	12376.3	11790.8	11207.0	10072.4	9862.1	7320.2
37.5°	14280.6	14263.3	14007.8	13648.2	13248.6	13071.3	12574.4	11802.9	10741.3	10539.8	7765.0
40°	14485.7	14475.2	14285.8	14023.5	13769.8	13707.3	13394.5	12445.8	11507.6	11271.3	8300.1
42.5°	14355.3	14377.9	14252.8	14181.6	14134.7	14179.9	14209.4	13288.5	12343.3	12126.1	8880.4
45°	13955.7	13943.6	13926.2	14042.6	14306.7	14603.8	15015.6	14084.3	13252.0	13078.3	9658.8
47.5°	13241.6	13328.5	13371.9	13693.4	14270.2	14973.9	15943.4	15151.1	14570.8	14419.6	10845.6
50°	12242.5	12312.0	12569.2	13140.8	14000.9	15112.9	16850.4	16895.6	16770.5	16487.3	12134.8
52.5°	10682.2	10790.0	11319.9	12367.6	13448.4	15055.6	17399.5	18391.6	18556.7	18344.7	13404.9
55°	8936.0	9087.2	9646.7	11021.1	12687.3	14742.8	17778.3	19258.6	19917.1	19720.8	14628.1
57.5°	7226.3	7386.2	7961.3	9292.2	11359.9	14051.3	18026.7	20224.7	21769.3	21513.9	16150.2
60°	5415.8	5582.6	6076.1	7447.0	9469.5	12699.5	17858.2	21062.2	23619.8	23510.3	17674.0
62.5°	3494.1	3678.3	4107.5	5242.1	7278.5	10852.5	16956.4	21524.3	25221.8	25089.7	18786.0
65°	2128.5	2149.3	2385.6	3254.4	4981.5	8402.6	14894.0	20911.0	26066.2	26026.2	19124.8
67.5°	1376.1	1409.1	1516.9	1949.5	2986.8	5836.3	11908.9	18886.8	25572.7	25558.8	18424.6
70°	1162.4	1172.8	1221.5	1315.3	1735.8	3539.3	8362.7	15660.2	23698.0	23698.0	16741.0
72.5°	1039.0	1052.9	1070.3	1099.8	1238.8	2005.1	4990.1	12190.4	20461.0	20596.5	14249.4
75°	943.5	940.0	950.4	955.6	1056.4	1310.1	2580.2	9016.0	15828.8	15557.7	10319.1
77.5°	807.9	813.2	807.9	830.5	933.0	997.3	1310.1	6050.0	9592.8	9241.8	5179.5
80°	663.7	672.4	681.1	695.0	797.5	757.6	787.1	2757.4	3548.0	3473.3	1600.3
82.5°	498.7	510.8	524.7	557.7	627.2	500.4	496.9	1178.0	1280.5	1172.8	589.0
85°	201.6	238.0	359.7	392.7	394.4	274.5	305.8	491.7	523.0	510.8	231.1
87.5°	46.9	55.6	116.4	175.5	161.6	102.5	112.9	159.9	182.4	168.5	78.2
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°	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4	2976.4
2.5°	3035.4	2974.6	2870.4	2790.4	2733.1	2682.7	2651.4	2632.3	2625.4	2623.6	2625.4
5°	3138.0	3030.2	2865.2	2760.9	2703.6	2670.6	2651.4	2649.7	2651.4	2653.2	2648.0
7.5°	3278.7	3124.1	2908.6	2811.3	2767.9	2743.5	2734.8	2731.4	2733.1	2731.4	2731.4
10°	3466.3	3254.4	2993.7	2893.0	2856.5	2828.7	2814.8	2806.1	2799.1	2792.2	2788.7
12.5°	3673.1	3398.6	3085.8	2988.5	2936.4	2893.0	2861.7	2839.1	2823.5	2807.8	2804.3
15°	3904.2	3551.5	3188.3	3052.8	2978.1	2913.8	2859.9	2823.5	2795.7	2773.1	2771.3
17.5°	4124.9	3695.7	3257.8	3082.4	2972.9	2882.5	2811.3	2760.9	2726.2	2696.6	2693.1
20°	4361.2	3833.0	3289.1	3063.2	2920.8	2811.3	2717.5	2656.7	2616.7	2583.7	2578.5
22.5°	4599.2	3949.4	3285.6	3002.4	2830.4	2701.8	2602.8	2538.5	2491.6	2458.6	2446.4
25°	4826.8	4043.2	3242.2	2905.1	2705.3	2571.5	2470.7	2411.7	2370.0	2330.0	2330.0
27.5°	5031.8	4098.8	3160.5	2787.0	2576.7	2436.0	2356.1	2302.2	2264.0	2237.9	2222.3
30°	5233.4	4124.9	3049.3	2637.5	2441.2	2321.3	2257.0	2225.8	2191.0	2161.5	2158.0
32.5°	5414.1	4119.6	2910.3	2491.6	2312.6	2227.5	2201.4	2177.1	2140.6	2098.9	2088.5
35°	5589.6	4084.9	2745.3	2331.7	2204.9	2171.9	2178.8	2144.1	2078.1	2025.9	2017.3
37.5°	5780.7	4022.3	2564.6	2201.4	2114.6	2145.8	2163.2	2086.8	1979.0	1897.4	1878.3
40°	6001.4	3951.1	2376.9	2071.1	2043.3	2121.5	2121.5	1980.8	1833.1	1782.7	1768.8
42.5°	6260.3	3892.0	2220.5	1961.7	1984.2	2062.4	2053.7	1840.0	1779.2	1753.2	1746.2
45°	6670.3	3871.2	2059.0	1866.1	1935.6	1992.9	1921.7	1791.4	1756.6	1735.8	1728.8
47.5°	7318.4	3895.5	1916.5	1794.9	1880.0	1923.4	1774.0	1758.4	1734.0	1704.5	1701.0
50°	7919.6	3872.9	1815.7	1754.9	1831.3	1840.0	1713.2	1718.4	1704.5	1671.5	1664.5
52.5°	8411.3	3801.7	1751.4	1734.0	1789.6	1694.1	1655.9	1675.0	1669.8	1628.1	1621.1
55°	8951.7	3758.2	1720.1	1734.0	1761.8	1567.2	1602.0	1629.8	1622.8	1593.3	1591.6
57.5°	9606.7	3766.9	1697.6	1739.3	1734.0	1503.0	1548.1	1581.1	1579.4	1570.7	1570.7
60°	10277.4	3770.4	1662.8	1737.5	1701.0	1452.6	1492.5	1539.4	1542.9	1548.1	1548.1
62.5°	10499.8	3619.2	1595.0	1706.2	1628.1	1403.9	1440.4	1504.7	1501.2	1515.1	1516.9
65°	10084.5	3200.5	1494.3	1635.0	1534.2	1369.2	1400.4	1459.5	1440.4	1476.9	1483.8
67.5°	9179.3	2648.0	1337.9	1506.4	1430.0	1332.7	1374.4	1397.0	1362.2	1433.4	1435.2
70°	7933.5	2067.6	1139.8	1324.0	1311.8	1294.4	1353.5	1318.8	1270.1	1357.0	1339.6
72.5°	6633.8	1579.4	910.5	1082.5	1153.7	1237.1	1317.0	1218.0	1150.2	1176.3	1145.0
75°	4983.2	1167.6	731.5	847.9	960.8	1155.4	1284.0	1096.4	992.1	967.8	960.8
77.5°	2540.2	762.8	547.3	634.2	721.1	1044.2	1238.8	953.9	821.8	783.6	766.2
80°	907.0	474.3	385.7	437.9	486.5	898.3	1082.5	788.8	637.7	630.7	637.7
82.5°	420.5	305.8	258.9	286.7	288.4	599.4	825.3	589.0	484.8	736.7	622.0
85°	180.7	152.9	146.0	142.5	132.1	267.6	463.9	316.2	493.5	220.7	203.3
87.5°	53.9	60.8	53.9	40.0	29.5	29.5	46.9	17.4	12.2	8.7	8.7
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)