

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: P648559

Luminaire Tested: **GALN-SA7B-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648559  
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-SA7B-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 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: 31626.1 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

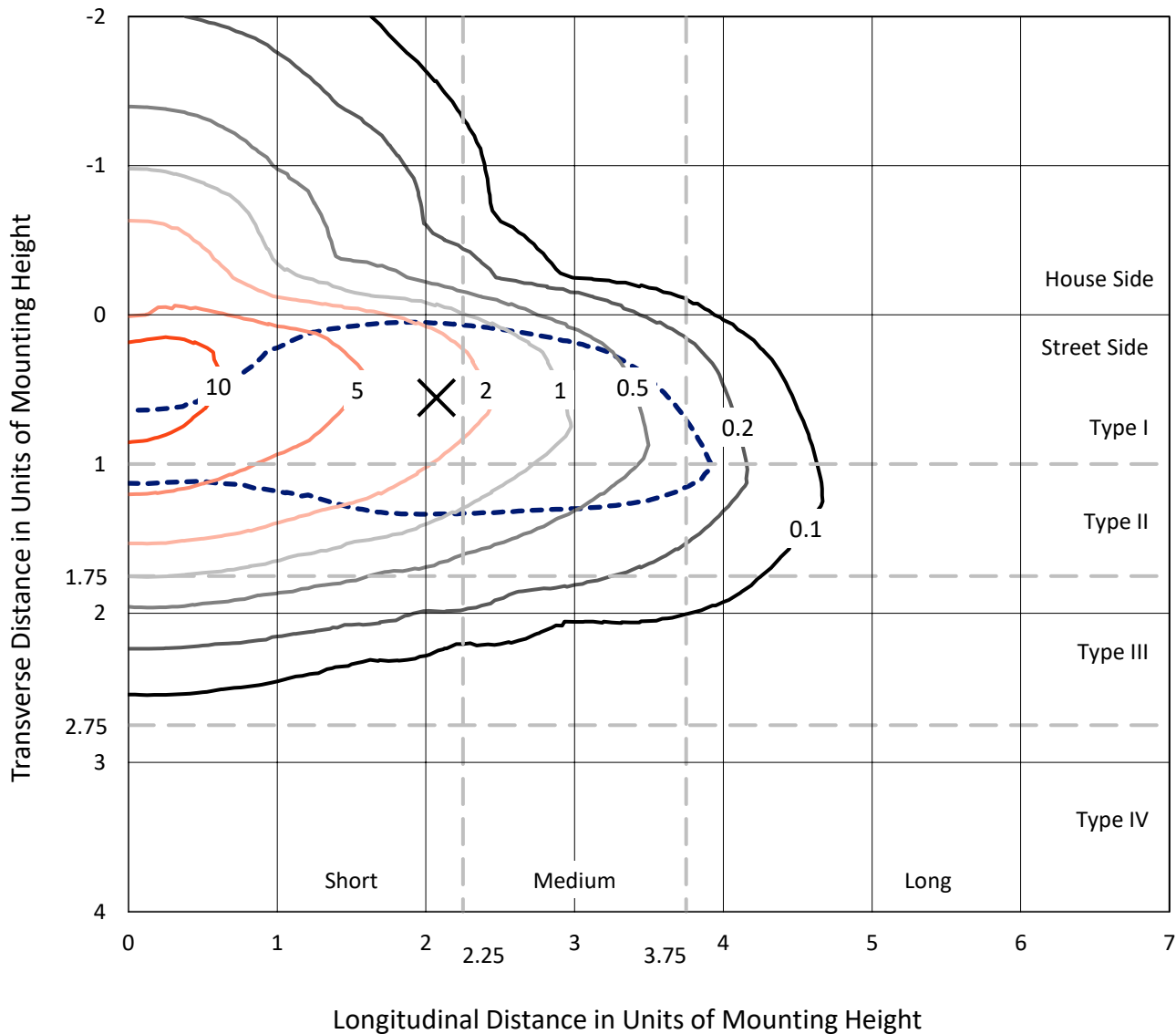
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648559  
 CATALOG NUMBER: GALN-SA7B-835-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

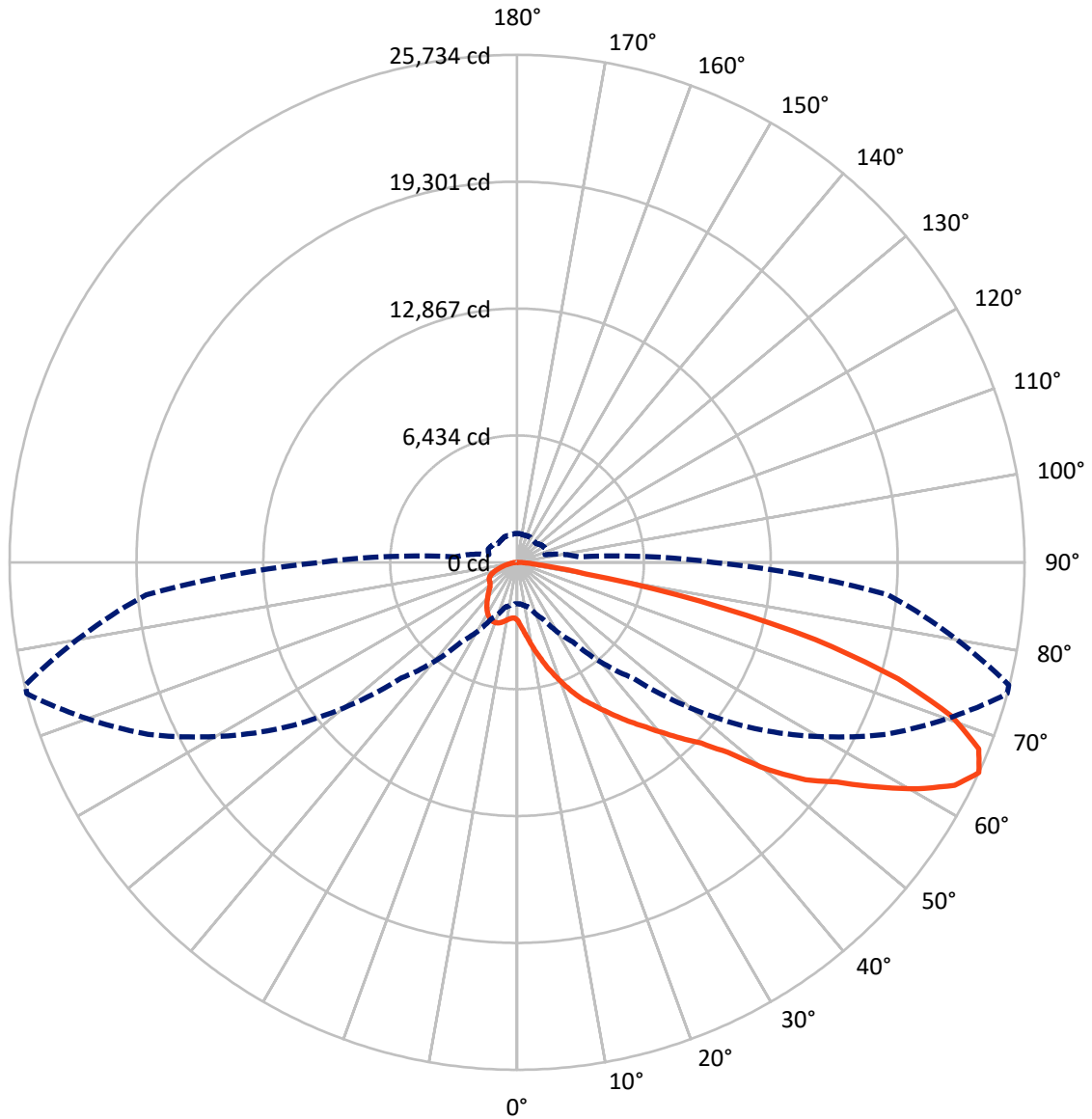
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P648559  
CATALOG NUMBER: GALN-SA7B-835-U-T2R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P648559  
 CATALOG NUMBER: GALN-SA7B-835-U-T2R

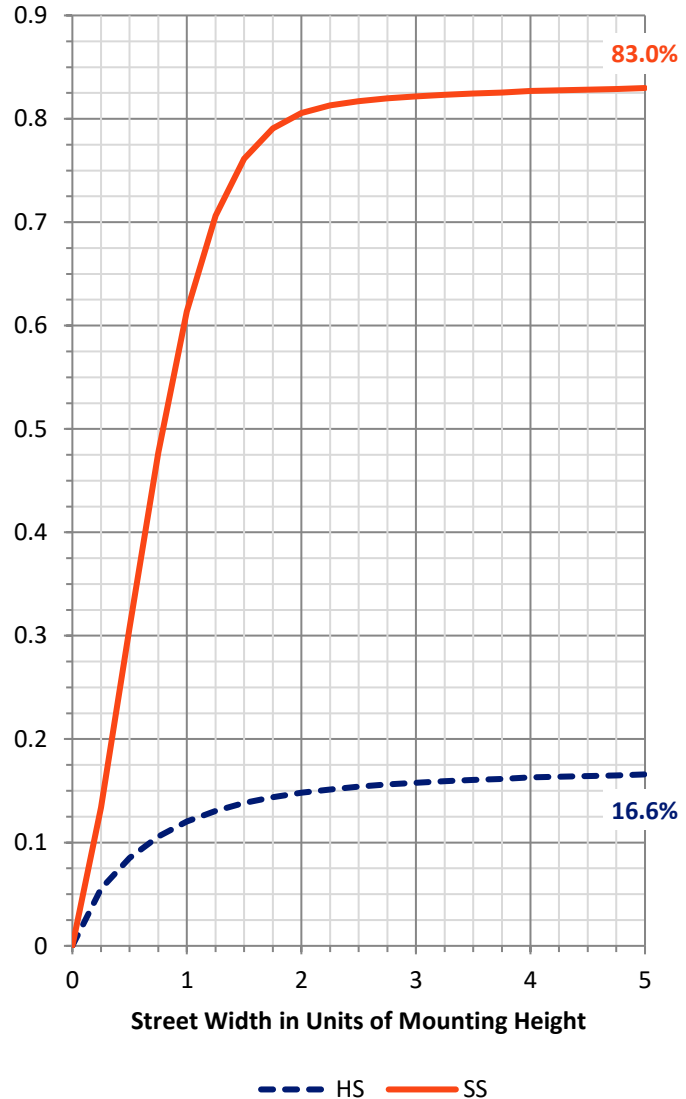
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5316.8	0.0	5316.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	26309.4	0.0	26309.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	31626.1	0.0	31626.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.0	1.1
10°-20°	1398.4	4.4
20°-30°	2701.2	8.5
30°-40°	4387.6	13.9
40°-50°	6035.5	19.1
50°-60°	7125.8	22.5
60°-70°	6243.4	19.7
70°-80°	2980.6	9.4
80°-90°	396.6	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°	31626.1	100.0
0°-180°	31626.1	100.0

**Coefficient of Utilization**



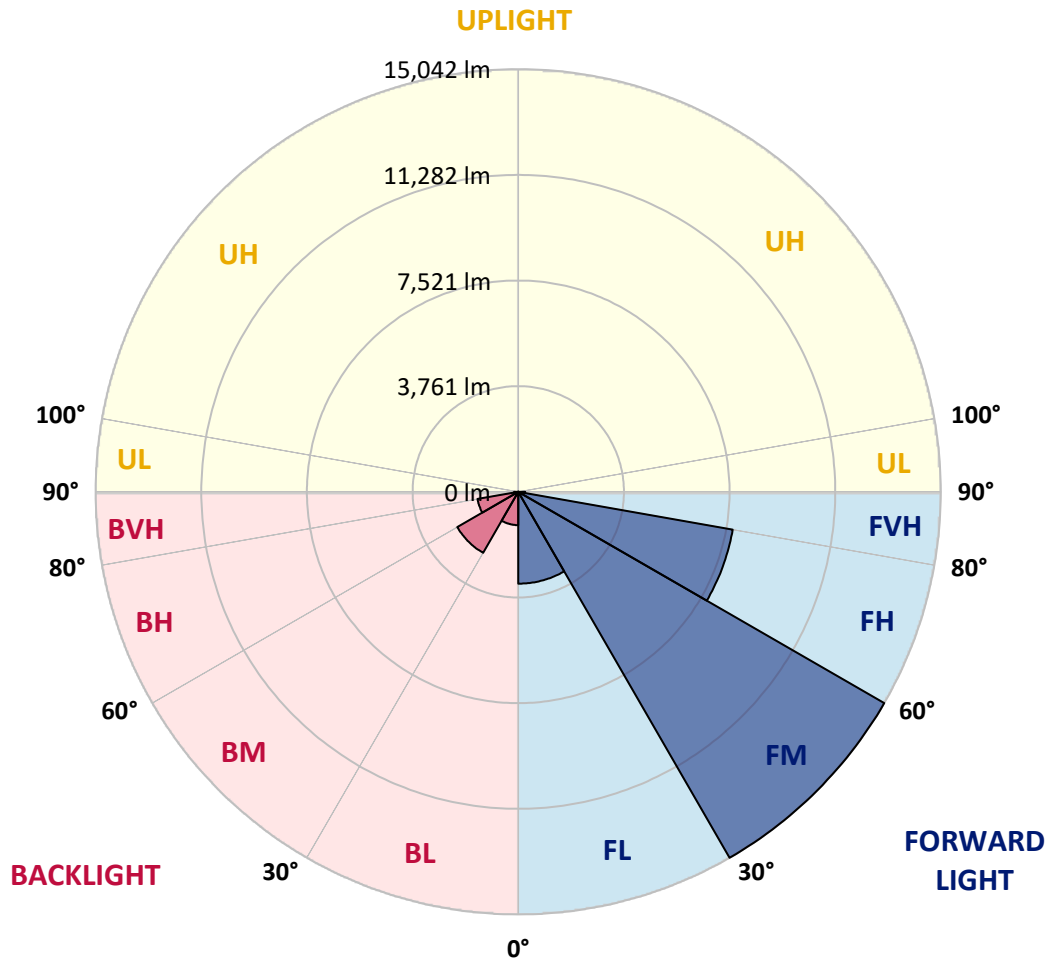
REPORT NUMBER: P648559  
 CATALOG NUMBER: GALN-SA7B-835-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3269.6	10.3			
FM (30°-60°)	15042.1	47.6			
FH (60°-80°)	7749.8	24.5			G4/12000
FVH (80°-90°)	247.9	0.8			G3/500
BL (0°-30°)	1187.0	3.8	B3/2500		
BM (30°-60°)	2506.8	7.9	B3/5000		
BH (60°-80°)	1474.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	148.8	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: P648559

CATALOG NUMBER: GALN-SA7B-835-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4
2.5°	3904.3	3878.5	3851.0	3775.5	3695.0	3604.1	3473.7	3348.4	3182.0	3176.9	3053.4
5°	4986.6	4969.5	4847.7	4777.4	4590.4	4341.7	4130.6	3803.0	3499.4	3463.4	3223.2
7.5°	5981.6	5914.7	5868.4	5741.4	5556.2	5237.1	4828.8	4386.3	3878.5	3830.4	3432.5
10°	6731.2	6724.3	6700.4	6590.5	6451.6	6134.3	5681.4	5046.7	4358.8	4264.5	3686.4
12.5°	7292.2	7297.2	7293.9	7292.2	7192.6	6923.4	6432.7	5763.7	4844.3	4777.4	3979.7
15°	7661.0	7712.4	7733.0	7818.7	7827.3	7647.2	7225.2	6456.8	5391.5	5292.0	4295.4
17.5°	7904.5	7930.3	8026.3	8172.2	8290.5	8257.9	7882.2	7098.3	5950.7	5784.3	4623.0
20°	8137.8	8182.4	8256.2	8455.1	8664.4	8760.5	8496.3	7755.3	6504.8	6398.4	4985.0
22.5°	8623.3	8686.8	8712.5	8813.7	8992.1	9161.9	9041.8	8384.8	7112.0	6967.9	5369.2
25°	9444.9	9511.9	9439.8	9415.8	9474.1	9558.2	9532.5	8978.3	7685.0	7479.1	5732.8
27.5°	10515.4	10523.9	10383.3	10249.5	10105.4	10062.5	9983.6	9505.0	8182.4	8010.9	6098.2
30°	11664.7	11623.5	11390.2	11148.4	10904.8	10664.6	10438.2	10012.8	8736.5	8539.2	6456.8
32.5°	12731.7	12709.3	12450.3	12074.6	11662.9	11436.5	10978.5	10525.6	9330.0	9139.6	6825.6
35°	13531.0	13563.6	13278.9	12868.9	12419.5	12218.7	11640.6	11064.3	9944.1	9736.6	7226.9
37.5°	14098.9	14081.6	13829.5	13474.4	13079.9	12904.9	12414.3	11652.7	10604.6	10405.6	7666.1
40°	14301.3	14290.9	14103.9	13844.9	13594.5	13532.7	13223.9	12287.4	11361.0	11127.8	8194.4
42.5°	14172.6	14194.9	14071.4	14001.1	13954.7	13999.3	14028.5	13119.3	12186.1	11971.8	8767.4
45°	13778.1	13766.0	13748.9	13863.8	14124.5	14417.8	14824.5	13905.0	13083.3	12911.7	9535.8
47.5°	13073.0	13158.8	13201.7	13519.0	14088.5	14783.3	15740.4	14958.2	14385.3	14236.0	10707.5
50°	12086.7	12155.3	12409.1	12973.5	13822.6	14920.5	16635.9	16680.5	16557.0	16277.4	11980.3
52.5°	10546.2	10652.6	11175.8	12210.2	13277.2	14863.8	17177.9	18157.5	18320.4	18111.1	13234.3
55°	8822.3	8971.5	9523.9	10880.7	12525.8	14555.1	17551.9	19013.4	19663.6	19469.7	14441.9
57.5°	7134.3	7292.2	7859.9	9173.9	11215.2	13872.4	17797.2	19967.2	21492.2	21240.0	15944.6
60°	5346.9	5511.5	5998.7	7352.2	9348.9	12537.8	17630.8	20794.0	23319.1	23211.0	17449.0
62.5°	3449.7	3631.5	4055.2	5175.3	7185.7	10714.3	16740.5	21250.3	24900.7	24770.3	18546.8
65°	2101.3	2121.9	2355.3	3213.0	4918.0	8295.7	14704.3	20644.7	25734.3	25694.8	18881.3
67.5°	1358.6	1391.2	1497.6	1924.7	2948.8	5762.0	11757.3	18646.4	25247.1	25233.4	18190.0
70°	1147.6	1157.9	1205.9	1298.5	1713.7	3494.3	8256.2	15460.8	23396.3	23396.3	16527.8
72.5°	1025.8	1039.5	1056.7	1085.9	1223.0	1979.6	4926.6	12035.2	20200.5	20334.3	14067.9
75°	931.5	928.0	938.3	943.4	1043.0	1293.4	2547.3	8901.1	15627.3	15359.6	10187.7
77.5°	797.6	802.8	797.6	820.0	921.2	984.6	1293.4	5973.0	9470.7	9124.1	5113.6
80°	655.3	663.8	672.4	686.1	787.4	747.9	777.0	2722.3	3502.8	3429.1	1579.9
82.5°	492.4	504.3	518.0	550.6	619.3	494.0	490.6	1163.1	1264.2	1157.9	581.5
85°	199.0	235.0	355.1	387.7	389.4	271.0	301.9	485.5	516.3	504.3	228.2
87.5°	46.4	54.9	114.9	173.3	159.5	101.2	111.5	157.9	180.1	166.4	77.2
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: P648559  
 CATALOG NUMBER: GALN-SA7B-835-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4
2.5°	2996.8	2936.7	2833.8	2754.9	2698.3	2648.6	2617.7	2598.9	2592.0	2590.2	2592.0
5°	3098.0	2991.6	2828.7	2725.8	2669.2	2636.6	2617.7	2616.0	2617.7	2619.4	2614.3
7.5°	3236.9	3084.3	2871.6	2775.5	2732.6	2708.6	2700.0	2696.6	2698.3	2696.6	2696.6
10°	3422.2	3213.0	2955.6	2856.1	2820.1	2792.6	2778.9	2770.3	2763.5	2756.6	2753.2
12.5°	3626.3	3355.3	3046.6	2950.5	2899.0	2856.1	2825.2	2803.0	2787.5	2772.1	2768.6
15°	3854.5	3506.3	3147.7	3013.9	2940.2	2876.7	2823.6	2787.5	2760.1	2737.8	2736.0
17.5°	4072.4	3648.6	3216.3	3043.1	2935.1	2845.8	2775.5	2725.8	2691.5	2662.3	2658.8
20°	4305.6	3784.2	3247.3	3024.3	2883.6	2775.5	2682.9	2622.8	2583.4	2550.8	2545.6
22.5°	4540.6	3899.1	3243.8	2964.2	2794.4	2667.4	2569.6	2506.2	2459.9	2427.3	2415.2
25°	4765.3	3991.7	3200.9	2868.1	2670.9	2538.8	2439.3	2380.9	2339.8	2300.4	2300.4
27.5°	4967.7	4046.6	3120.3	2751.5	2544.0	2405.0	2326.1	2272.9	2235.2	2209.4	2194.0
30°	5166.8	4072.4	3010.5	2603.9	2410.2	2291.8	2228.3	2197.4	2163.1	2134.0	2130.5
32.5°	5345.1	4067.2	2873.3	2459.9	2283.1	2199.1	2173.4	2149.4	2113.4	2072.2	2061.9
35°	5518.4	4032.9	2710.4	2302.0	2176.8	2144.2	2151.1	2116.8	2051.6	2000.2	1991.6
37.5°	5707.1	3971.1	2531.9	2173.4	2087.6	2118.5	2135.6	2060.2	1953.8	1873.2	1854.4
40°	5925.0	3900.8	2346.7	2044.7	2017.3	2094.5	2094.5	1955.5	1809.7	1760.0	1746.2
42.5°	6180.5	3842.5	2192.2	1936.7	1959.0	2036.2	2027.6	1816.6	1756.6	1730.8	1724.0
45°	6585.4	3821.9	2032.7	1842.3	1910.9	1967.5	1897.2	1768.6	1734.3	1713.7	1706.8
47.5°	7225.2	3845.9	1892.0	1772.0	1856.0	1898.9	1751.4	1736.0	1712.0	1682.8	1679.4
50°	7818.7	3823.6	1792.6	1732.5	1808.0	1816.6	1691.4	1696.5	1682.8	1650.2	1643.4
52.5°	8304.2	3753.3	1729.1	1712.0	1766.8	1672.5	1634.7	1653.6	1648.5	1607.3	1600.5
55°	8837.7	3710.4	1698.2	1712.0	1739.4	1547.3	1581.6	1609.1	1602.2	1573.0	1571.3
57.5°	9484.4	3718.9	1675.9	1717.1	1712.0	1483.8	1528.4	1561.0	1559.3	1550.7	1550.7
60°	10146.6	3722.4	1641.6	1715.4	1679.4	1434.1	1473.5	1519.8	1523.2	1528.4	1528.4
62.5°	10366.1	3573.1	1574.8	1684.5	1607.3	1386.1	1422.1	1485.5	1482.1	1495.8	1497.6
65°	9956.2	3159.7	1475.3	1614.2	1514.7	1351.7	1382.6	1441.0	1422.1	1458.1	1464.9
67.5°	9062.4	2614.3	1320.8	1487.2	1411.7	1315.7	1356.9	1379.2	1344.9	1415.2	1416.9
70°	7832.5	2041.3	1125.3	1307.1	1295.2	1277.9	1336.3	1302.0	1254.0	1339.7	1322.6
72.5°	6549.4	1559.3	898.9	1068.7	1139.0	1221.3	1300.2	1202.5	1135.6	1161.3	1130.4
75°	4919.7	1152.7	722.2	837.1	948.6	1140.8	1267.7	1082.4	979.5	955.5	948.6
77.5°	2507.9	753.1	540.3	626.1	711.9	1031.0	1223.0	941.7	811.3	773.6	756.5
80°	895.4	468.3	380.9	432.3	480.3	886.8	1068.7	778.8	629.5	622.7	629.5
82.5°	415.1	301.9	255.6	283.1	284.8	591.8	814.8	581.5	478.6	727.3	614.1
85°	178.4	151.0	144.1	140.6	130.4	264.2	458.0	312.2	487.2	217.8	200.7
87.5°	53.2	60.1	53.2	39.5	29.1	29.1	46.4	17.1	12.0	8.6	8.6
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)