

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: P459285

Luminaire Tested: **GALN-SA7C-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459285  
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-SA7C-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45876 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

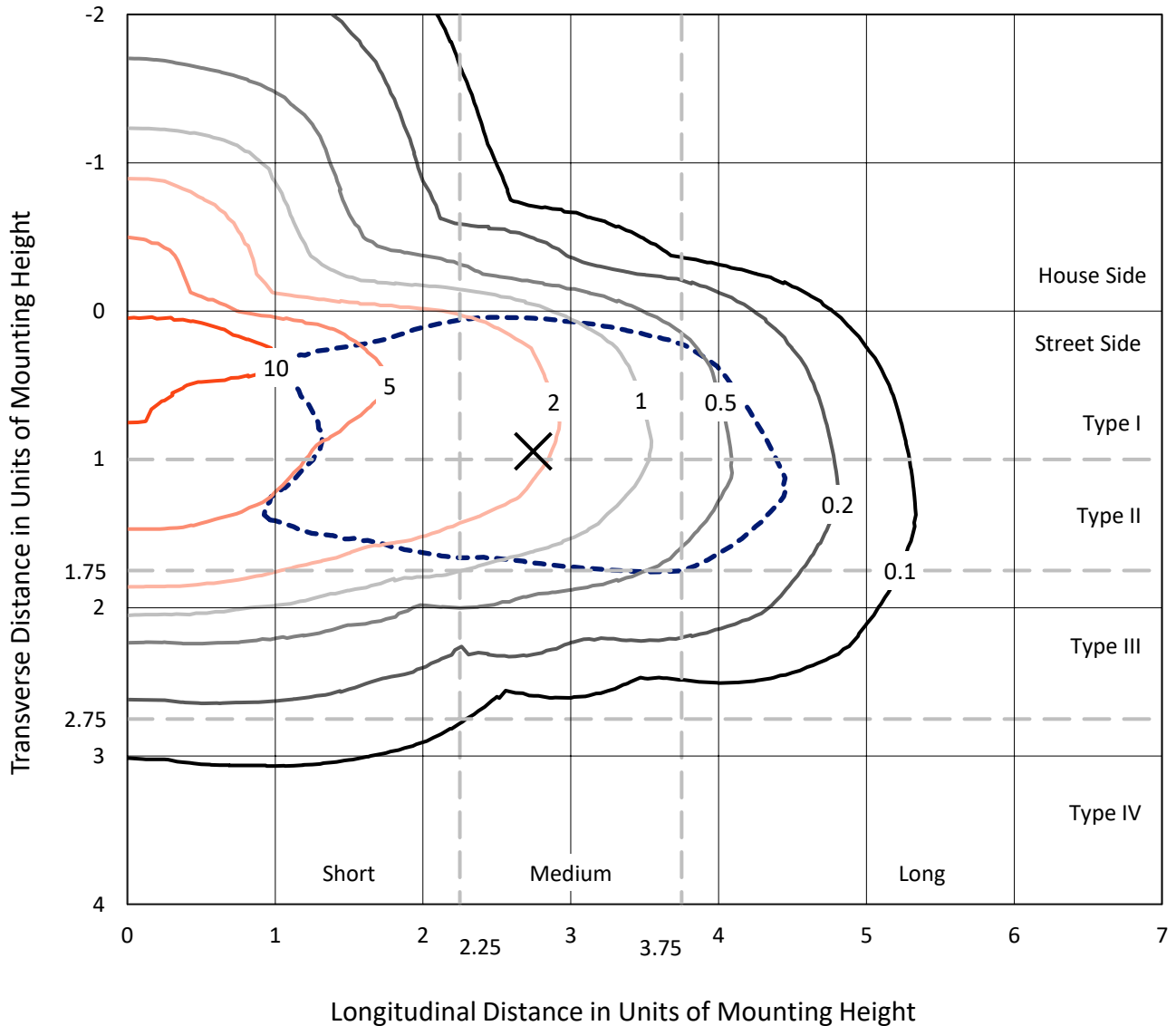
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459285  
 CATALOG NUMBER: GALN-SA7C-735-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

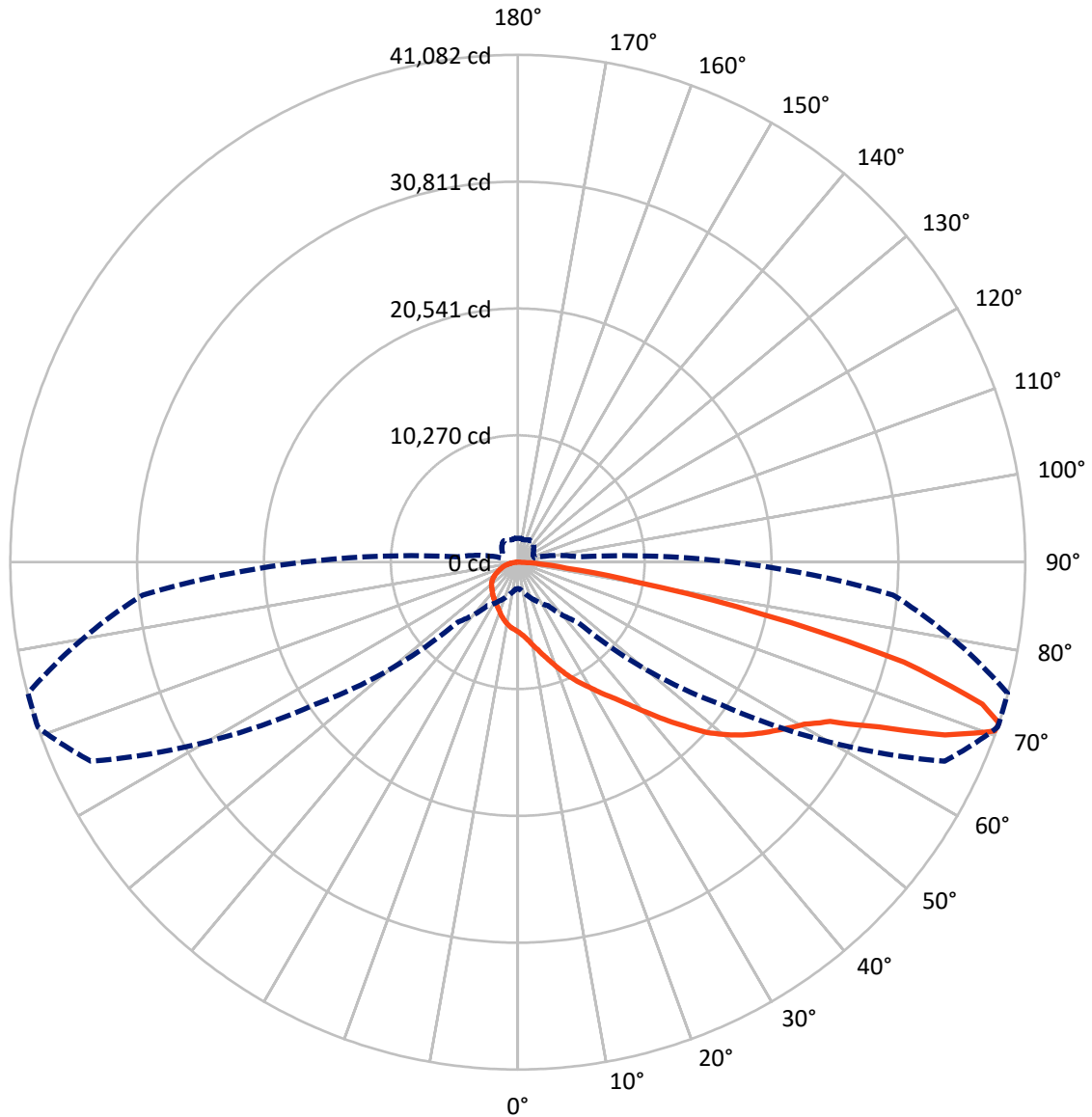
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P459285  
CATALOG NUMBER: GALN-SA7C-735-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P459285

CATALOG NUMBER: GALN-SA7C-735-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8250.7	0.0	8250.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	37625.3	0.0	37625.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	45876.0	0.0	45876.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.3	1.2
10°-20°	1836.7	4.0
20°-30°	3209.8	7.0
30°-40°	4774.2	10.4
40°-50°	7034.1	15.3
50°-60°	9847.8	21.5
60°-70°	11014.5	24.0
70°-80°	6728.1	14.7
80°-90°	865.5	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°	45876.0	100.0
0°-180°	45876.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459285

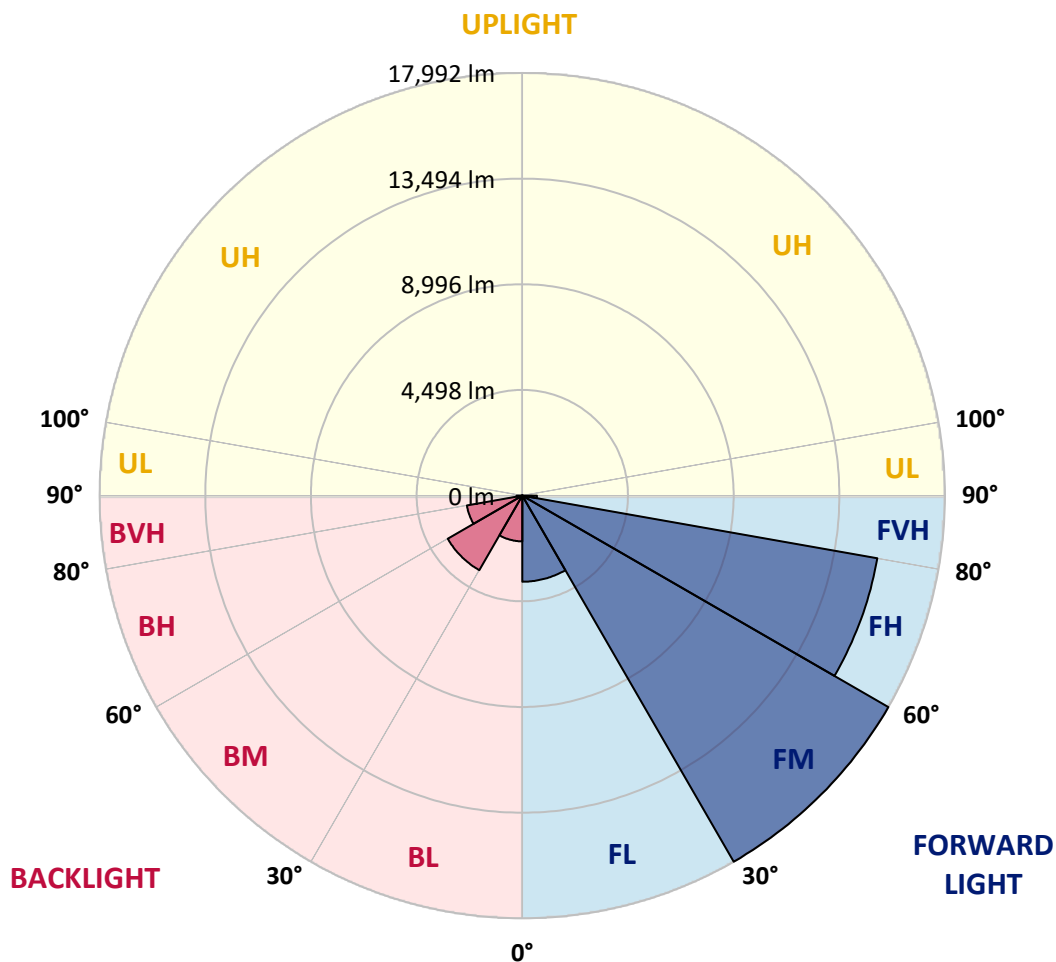
CATALOG NUMBER: GALN-SA7C-735-U-T2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3665.5	8.0			
FM	(30°-60°)	17991.7	39.2			
FH	(60°-80°)	15345.4	33.4			G5
FVH	(80°-90°)	622.8	1.4			G4/750
BL	(0°-30°)	1946.3	4.2	B3/2500		
BM	(30°-60°)	3664.4	8.0	B3/5000		
BH	(60°-80°)	2397.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	242.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





REPORT NUMBER: P459285

CATALOG NUMBER: GALN-SA7C-735-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4
2.5°	6250.6	6220.4	6222.9	6180.0	6124.6	6064.1	5978.3	5902.7	5842.2	5806.9	5703.5
5°	6926.4	6896.1	6858.3	6765.0	6724.7	6575.9	6386.8	6215.3	6084.2	6011.1	5804.4
7.5°	7473.5	7466.0	7455.9	7402.9	7299.6	7092.8	6931.4	6633.9	6439.8	6301.1	5948.1
10°	7811.4	7824.0	7831.6	7841.7	7798.8	7690.4	7468.5	7092.8	6845.7	6669.2	6134.7
12.5°	7982.9	7995.5	8038.3	8131.6	8189.6	8177.0	7995.5	7627.4	7287.0	7055.0	6333.9
15°	8088.8	8108.9	8184.6	8308.1	8502.3	8625.8	8537.6	8197.2	7824.0	7549.2	6570.9
17.5°	8204.8	8227.5	8310.7	8487.2	8741.8	9009.1	9104.9	8812.4	8406.5	8078.7	6835.6
20°	8270.3	8300.6	8419.1	8651.1	8948.6	9336.9	9654.6	9500.8	9057.0	8693.9	7140.7
22.5°	8376.2	8401.4	8502.3	8749.4	9104.9	9591.6	10204.3	10171.5	9780.7	9311.7	7476.1
25°	8663.7	8704.0	8754.4	8903.2	9246.1	9851.3	10660.6	10887.6	10481.6	9957.2	7783.7
27.5°	9205.8	9238.6	9236.0	9256.2	9450.4	10075.7	11056.5	11596.1	11177.5	10610.2	8081.2
30°	9823.5	9836.1	9846.2	9800.8	9843.7	10305.1	11419.6	12297.1	11878.5	11280.9	8340.9
32.5°	10574.9	10600.1	10514.4	10398.4	10363.1	10645.5	11719.7	12998.0	12708.1	11961.7	8598.1
35°	11462.5	11528.0	11354.0	11149.8	11006.1	11134.7	12123.1	13714.1	13557.8	12831.6	8938.5
37.5°	12476.1	12556.8	12395.4	11994.5	11790.3	11825.6	12650.1	14599.1	14631.9	13822.5	9445.3
40°	13305.6	13411.5	13416.6	12849.3	12539.1	12579.5	13318.2	15552.2	15927.9	15048.0	10042.9
42.5°	13852.8	13956.2	14064.6	13731.8	13406.5	13635.9	14097.4	16586.0	17385.3	16535.6	10877.5
45°	14452.9	14546.2	14606.7	14455.4	14273.9	14868.9	15037.9	17685.4	18938.5	18197.2	11790.3
47.5°	15148.8	15252.2	15310.2	15166.5	15098.4	15950.6	16051.5	18711.6	20597.6	19810.9	12798.8
50°	16076.7	16154.9	16124.6	16033.8	16018.7	16780.2	17024.8	19672.3	21966.8	21548.2	13845.2
52.5°	17231.5	17324.8	17357.6	17229.0	17171.0	17372.7	17808.9	20547.2	23212.4	23040.9	14962.2
55°	17930.0	18078.7	18578.0	18779.7	18918.4	18139.2	18653.6	21512.9	24329.4	24614.3	16162.4
57.5°	17034.8	17226.5	18343.5	19352.0	20655.6	20055.5	19851.3	22521.5	25446.4	26139.8	17599.6
60°	14851.3	14894.1	16333.9	18192.2	20814.5	22519.0	22350.0	24125.1	26656.7	27677.8	19493.2
62.5°	10302.6	10393.4	12095.3	15060.6	18852.8	23406.5	26601.2	26893.7	28391.4	29979.9	22269.4
65°	5312.7	5194.2	6744.9	9465.5	14213.4	21298.6	30045.5	31984.5	32153.4	33580.5	26177.6
67.5°	3270.3	3323.3	4049.4	5527.0	8404.0	15479.1	29684.9	38204.8	37314.8	38000.6	29805.9
70°	2455.9	2521.4	3020.7	3782.2	5123.6	8850.3	23873.0	39712.7	40955.7	40779.2	30910.3
71°	2135.7	2203.7	2723.2	3441.8	4304.1	6830.6	20113.5	38134.2	41081.8	41051.6	30494.3
72.5°	1820.5	1863.3	2269.3	2914.8	3628.4	4788.2	15111.0	34200.8	39329.4	40335.5	29009.2
75°	1429.7	1462.4	1644.0	2223.9	2856.8	2940.0	8108.9	25640.5	32302.2	34218.5	24150.3
77.5°	1164.9	1187.6	1280.9	1651.5	2203.7	2082.7	4253.7	16689.4	20237.1	22166.0	14226.0
80°	925.4	950.6	1006.1	1119.5	1651.5	1485.1	2029.8	8456.9	9775.6	9755.4	5678.3
82.5°	718.6	726.2	791.7	822.0	1129.6	1054.0	1099.3	3580.4	3966.2	4097.3	2049.9
85°	453.9	476.6	701.0	630.4	675.7	617.8	542.1	1422.1	1752.4	1727.2	819.5
87.5°	138.7	146.2	237.0	267.3	300.1	269.8	199.2	418.6	511.9	554.7	204.2
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: P459285

CATALOG NUMBER: GALN-SA7C-735-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4	5630.4
2.5°	5663.2	5635.4	5537.1	5456.4	5380.8	5297.5	5226.9	5206.8	5189.1	5181.6	5179.0
5°	5716.1	5632.9	5438.7	5279.9	5153.8	5037.8	4964.7	4931.9	4899.2	4899.2	4909.2
7.5°	5791.7	5640.5	5340.4	5103.4	4944.5	4836.1	4783.2	4778.1	4785.7	4793.3	4795.8
10°	5875.0	5635.4	5196.7	4901.7	4760.5	4710.0	4712.6	4755.4	4795.8	4826.0	4831.1
12.5°	5955.6	5605.2	5027.8	4712.6	4621.8	4631.9	4702.5	4798.3	4876.5	4919.3	4921.8
15°	6046.4	5557.3	4823.5	4533.5	4503.3	4581.5	4712.6	4858.8	4977.3	5047.9	5055.5
17.5°	6122.1	5476.6	4609.2	4359.6	4397.4	4541.1	4722.7	4911.8	5055.5	5143.7	5158.9
20°	6207.8	5373.2	4387.3	4193.2	4301.6	4495.7	4702.5	4906.7	5055.5	5141.2	5161.4
22.5°	6275.9	5226.9	4175.5	4057.0	4215.8	4440.3	4634.4	4798.3	4919.3	4964.7	4995.0
25°	6303.6	5042.9	3976.3	3946.1	4147.8	4349.5	4480.6	4573.9	4611.7	4606.7	4619.3
27.5°	6288.5	4831.1	3804.9	3857.8	4062.0	4208.3	4273.8	4266.3	4198.2	4135.2	4165.4
30°	6225.4	4578.9	3661.1	3767.0	3951.1	4031.8	4021.7	3923.4	3794.8	3676.3	3683.8
32.5°	6112.0	4306.6	3527.5	3663.7	3794.8	3830.1	3762.0	3633.4	3449.3	3295.5	3272.8
35°	6016.2	4046.9	3409.0	3545.1	3638.4	3620.8	3555.2	3388.8	3222.4	3086.2	3063.5
37.5°	6001.0	3825.0	3295.5	3411.5	3464.5	3439.2	3358.6	3217.4	3156.8	3053.5	3040.9
40°	6081.7	3668.7	3179.5	3270.3	3295.5	3275.3	3187.1	3106.4	3161.9	3136.7	3136.7
42.5°	6301.1	3585.5	3076.2	3129.1	3149.3	3164.4	3101.4	3033.3	3101.4	2985.4	2947.6
45°	6649.0	3588.0	2982.9	2990.4	3050.9	3103.9	3061.0	2960.2	2924.9	2692.9	2647.5
47.5°	7160.9	3673.7	2907.2	2859.3	2967.7	3056.0	2995.5	2849.2	2692.9	2539.1	2511.4
50°	7758.5	3827.5	2839.1	2723.2	2856.8	2995.5	2950.1	2778.6	2617.3	2524.0	2506.3
52.5°	8421.6	4021.7	2755.9	2571.9	2720.6	2967.7	2960.2	2768.5	2546.7	2483.6	2468.5
55°	9241.1	4213.3	2652.6	2395.4	2599.6	2945.0	2932.4	2685.3	2531.5	2486.1	2481.1
57.5°	10194.2	4490.7	2503.8	2216.3	2460.9	2851.7	2824.0	2634.9	2481.1	2448.3	2445.8
60°	11729.7	4921.8	2292.0	2052.5	2319.7	2687.9	2723.2	2549.2	2400.4	2392.8	2390.3
62.5°	13749.4	5527.0	2072.6	1883.5	2155.8	2476.1	2576.9	2433.2	2314.7	2352.5	2357.5
65°	16538.1	6036.3	1845.7	1739.8	1974.3	2271.8	2438.2	2324.8	2218.9	2292.0	2292.0
67.5°	18356.1	6046.4	1638.9	1591.0	1790.2	2100.4	2292.0	2196.2	2095.3	2218.9	2223.9
70°	17977.9	5297.5	1467.5	1434.7	1611.2	1916.3	2130.6	2055.0	1939.0	2049.9	2009.6
71°	17367.7	4881.5	1399.4	1374.2	1540.6	1828.0	2055.0	1991.9	1876.0	1949.1	1926.4
72.5°	16394.4	4238.5	1288.5	1293.5	1434.7	1717.1	1949.1	1883.5	1767.5	1807.9	1800.3
75°	13857.8	3701.5	1101.9	1124.6	1233.0	1528.0	1737.3	1686.8	1568.3	1568.3	1560.8
77.5°	8663.7	2587.0	915.3	927.9	1046.4	1308.6	1492.7	1449.8	1336.4	1298.5	1288.5
80°	3232.5	1336.4	716.1	731.2	804.3	1031.3	1235.5	1195.2	1079.2	1036.3	996.0
82.5°	1222.9	670.7	527.0	514.4	592.5	786.7	968.2	920.3	829.6	726.2	695.9
85°	461.4	332.8	322.7	312.7	348.0	466.5	600.1	590.0	494.2	421.1	413.5
87.5°	121.0	108.4	126.1	93.3	98.3	88.3	90.8	37.8	17.7	7.6	5.0
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)