

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: P459158

Luminaire Tested: **GALN-SA6C-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38765 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

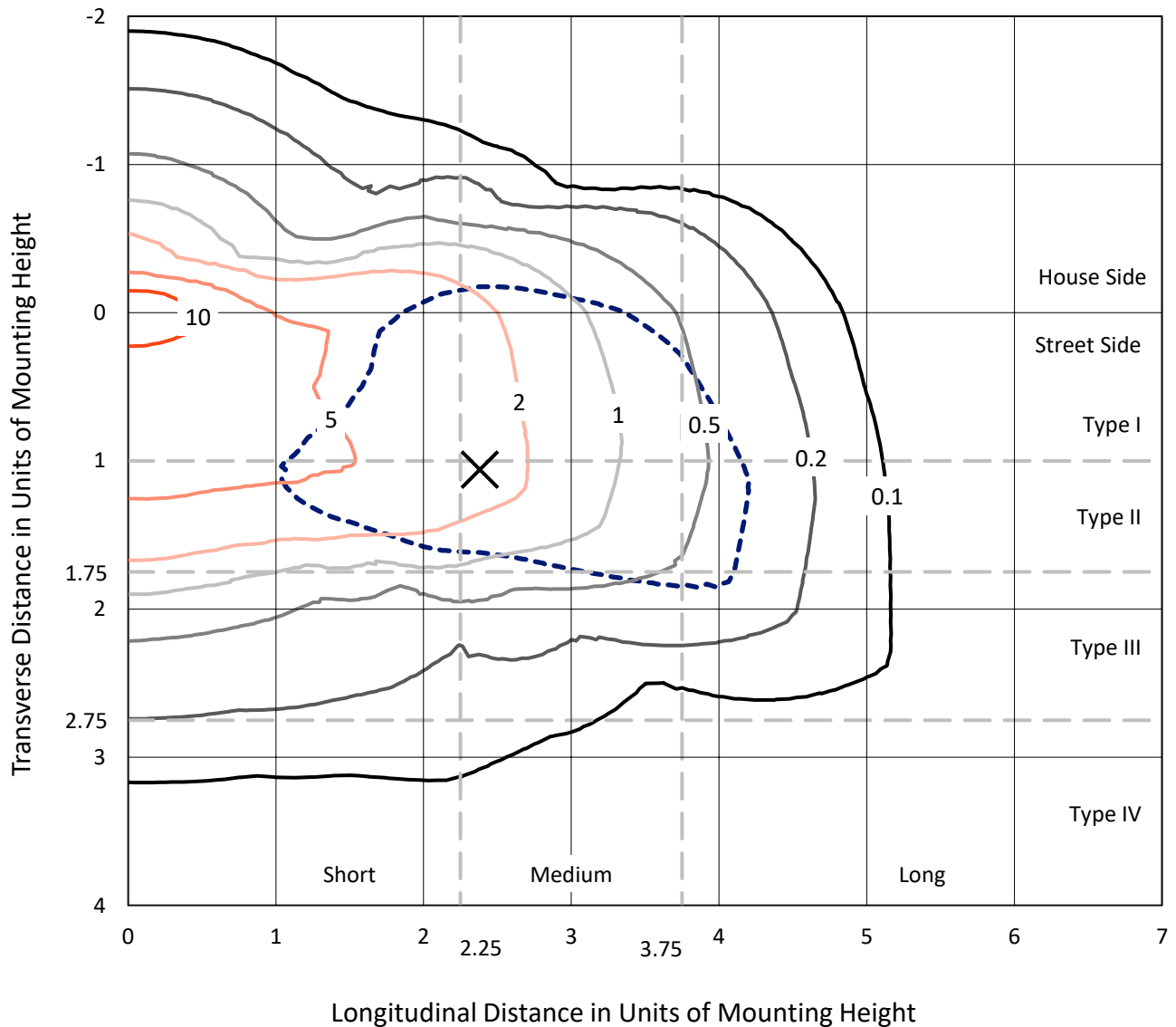
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459158  
 CATALOG NUMBER: GALN-SA6C-735-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

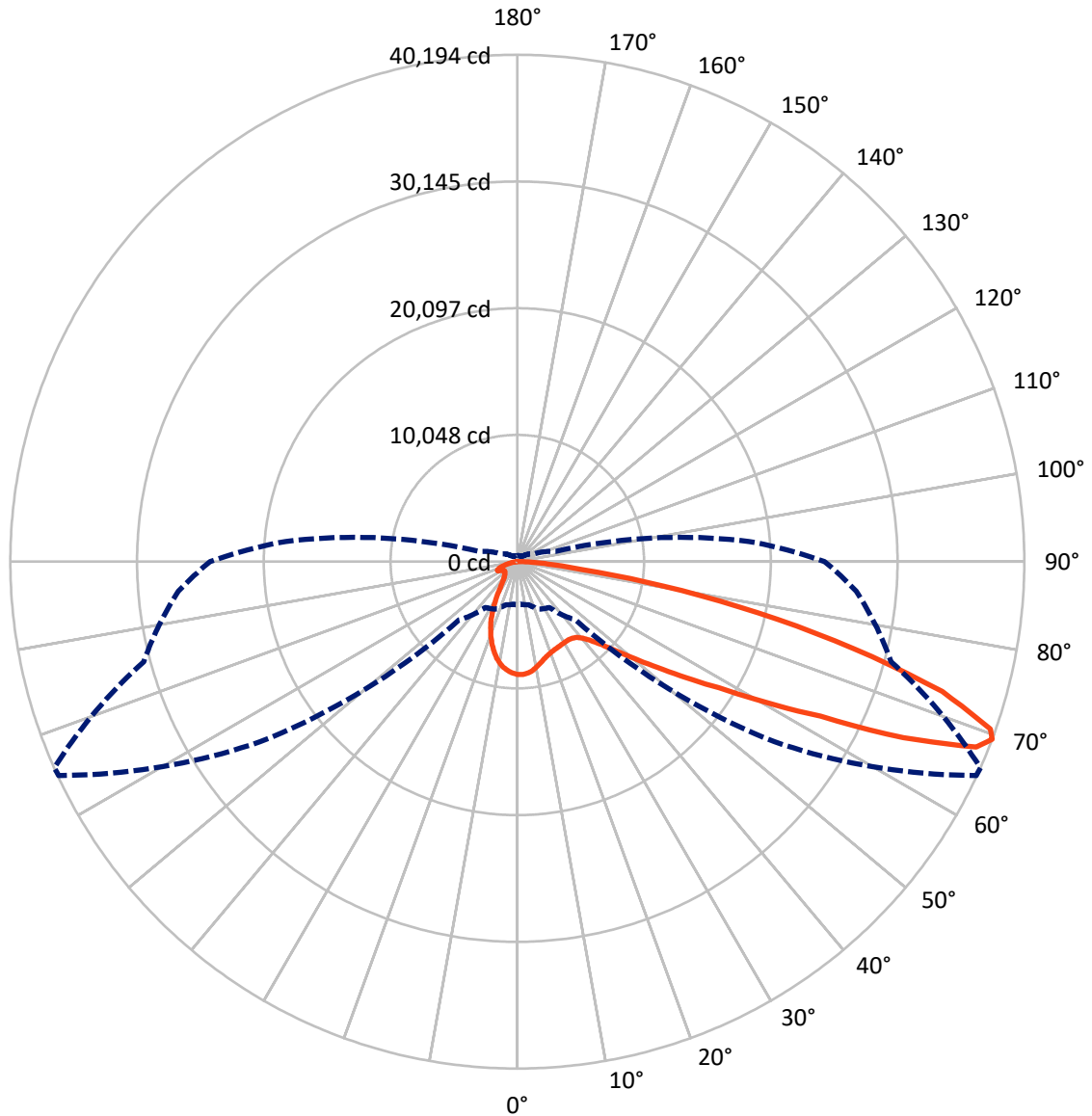
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P459158  
CATALOG NUMBER: GALN-SA6C-735-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P459158

CATALOG NUMBER: GALN-SA6C-735-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7290.2	0.0	7290.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	31474.8	0.0	31474.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	38765.0	0.0	38765.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	777.4	2.0
10°-20°	1843.9	4.8
20°-30°	2510.2	6.5
30°-40°	3373.2	8.7
40°-50°	5036.7	13.0
50°-60°	8011.7	20.7
60°-70°	9853.9	25.4
70°-80°	6411.4	16.5
80°-90°	946.8	2.4
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°	38765.0	100.0
0°-180°	38765.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459158

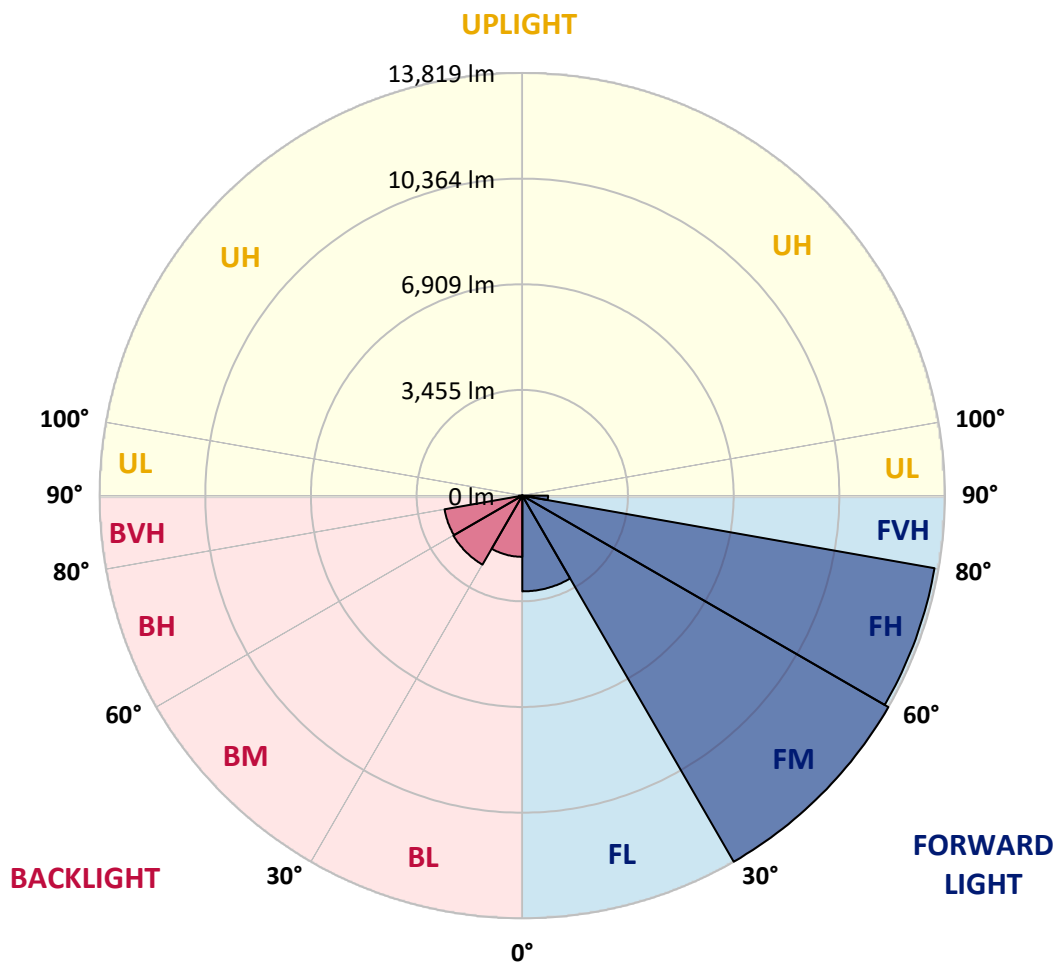
CATALOG NUMBER: GALN-SA6C-735-U-SL2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3130.2	8.1			
FM	(30°-60°)	13818.6	35.6			
FH	(60°-80°)	13684.2	35.3			G5
FVH	(80°-90°)	841.7	2.2			G5
BL	(0°-30°)	2001.2	5.2	B3/2500		
BM	(30°-60°)	2602.9	6.7	B3/5000		
BH	(60°-80°)	2581.1	6.7	B4/5000		G4/5000
BVH	(80°-90°)	105.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





REPORT NUMBER: P459158

CATALOG NUMBER: GALN-SA6C-735-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9
2.5°	8638.5	8672.8	8711.5	8754.4	8836.0	8881.1	8913.3	8949.8	8954.1	8973.4	8958.4
5°	8000.9	8041.7	8099.7	8181.2	8303.6	8494.7	8692.2	8853.2	8872.5	8962.6	8988.4
7.5°	7468.5	7492.1	7539.4	7670.3	7844.2	8056.7	8344.4	8670.7	8717.9	8932.6	9007.7
10°	7034.9	7058.5	7114.3	7249.5	7421.3	7687.5	8003.1	8432.4	8471.0	8840.3	9012.0
12.5°	6710.7	6732.2	6792.3	6925.4	7122.9	7371.9	7719.7	8174.8	8230.6	8717.9	8971.2
15°	6463.8	6504.6	6554.0	6663.5	6871.7	7112.2	7449.2	7938.7	7983.7	8589.1	8943.3
17.5°	6358.7	6378.0	6412.3	6513.2	6665.6	6901.8	7241.0	7754.0	7807.7	8499.0	8936.9
20°	6362.9	6382.3	6388.7	6444.5	6554.0	6757.9	7092.8	7608.1	7672.5	8419.5	8947.6
22.5°	6508.9	6511.1	6487.5	6468.1	6511.1	6680.7	6987.6	7498.6	7573.7	8385.2	8956.2
25°	6734.3	6773.0	6738.6	6648.5	6569.0	6650.6	6946.9	7438.5	7509.3	8335.8	8945.5
27.5°	7099.3	7105.7	7077.8	6955.4	6749.4	6689.2	6929.7	7393.4	7453.5	8299.3	8891.8
30°	7588.7	7569.4	7543.7	7408.4	7084.2	6837.4	6966.2	7352.6	7414.8	8245.6	8827.4
32.5°	8084.6	8144.7	8121.1	7962.3	7541.5	7125.0	7084.2	7348.3	7399.8	8204.8	8756.6
35°	8610.6	8638.5	8750.1	8668.5	8237.1	7590.9	7305.4	7414.8	7455.6	8207.0	8707.2
37.5°	9022.8	9097.9	9359.8	9430.6	9024.9	8207.0	7663.9	7603.8	7620.9	8312.2	8726.5
40°	9520.8	9649.6	9986.6	10276.5	10010.3	9007.7	8273.5	7953.7	7975.1	8565.5	8853.2
42.5°	10151.9	10242.1	10695.1	11087.9	11045.0	10066.1	9012.0	8526.9	8537.6	9070.0	9207.4
45°	10890.4	11019.2	11528.0	12118.4	12219.3	11264.0	10079.0	9394.1	9387.7	9853.5	9868.6
47.5°	11835.0	11914.4	12418.9	13062.9	13470.8	12768.8	11373.4	10639.3	10570.6	10995.6	10873.2
50°	12704.4	12828.9	13211.1	13915.2	14930.6	14531.3	13075.8	12253.6	12092.6	12489.7	12283.7
52.5°	13069.4	13200.3	13522.3	14396.1	16182.1	16811.1	15237.6	14179.2	13910.9	14215.7	14140.6
55°	12436.1	12605.7	12906.2	13968.9	16731.7	19440.9	18152.9	16405.4	16210.1	16079.1	16100.6
57.5°	10733.7	10894.7	11300.5	12472.6	16074.8	21349.4	22315.4	19267.0	18848.4	18245.2	18348.2
60°	8170.5	8271.4	8481.8	9780.6	14127.7	21845.3	27042.5	22884.3	22618.1	20402.6	20475.6
62.5°	5802.6	5916.4	6062.4	6710.7	10343.0	20447.7	30743.5	27935.6	26984.6	22637.4	22566.6
65°	4712.1	4634.8	4810.8	5113.5	6068.8	15847.3	31576.4	34946.8	33637.3	25580.6	24597.4
67.5°	3874.9	3793.3	3967.2	4506.0	4615.5	9198.8	28575.3	39497.9	39236.0	28781.4	26660.4
69°	3430.5	3387.6	3540.0	4153.9	4430.9	6532.5	24893.6	40131.2	40193.5	30668.4	26978.1
70°	3091.3	3108.5	3256.6	3975.8	4347.2	5386.2	21276.4	39257.5	39785.6	31610.8	26634.6
72.5°	2275.5	2312.0	2518.1	3293.1	4267.7	4570.4	12661.5	34289.9	35223.7	31666.6	24365.5
75°	1590.7	1573.6	1756.0	2479.5	4031.6	4529.6	7436.3	26518.7	27577.1	27371.0	20473.5
77.5°	1041.2	1069.1	1215.1	1751.7	3391.9	4495.3	4847.3	18814.0	19501.0	18305.3	12109.8
80°	734.2	732.0	813.6	1195.7	2516.0	4319.2	3969.3	11858.6	11684.7	7193.7	3591.5
82.5°	420.8	450.8	545.3	841.5	1683.0	3801.9	3651.6	5671.7	5177.9	2050.1	1212.9
85°	234.0	244.7	324.2	508.8	983.2	2863.8	3187.9	2580.4	2434.4	856.6	521.7
87.5°	75.1	81.6	135.2	257.6	446.5	1352.4	1805.4	1191.4	1099.1	309.1	210.4
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: P459158

CATALOG NUMBER: GALN-SA6C-735-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9	8951.9
2.5°	8964.8	8990.6	8921.9	8855.3	8795.2	8711.5	8636.3	8574.1	8531.2	8524.7	8503.2
5°	8994.9	8997.0	8866.0	8690.0	8518.3	8329.4	8134.0	7994.5	7863.5	7790.5	7754.0
7.5°	9016.3	8997.0	8760.9	8475.3	8144.7	7801.3	7457.8	7183.0	6970.5	6886.7	6919.0
10°	9007.7	8947.6	8602.0	8144.7	7663.9	7150.8	6657.0	6270.6	5916.4	5733.9	5738.2
12.5°	8960.5	8861.8	8365.9	7773.4	7067.1	6380.1	5624.5	5102.8	4692.8	4450.2	4375.1
15°	8919.7	8748.0	8088.9	7268.9	6390.9	5409.8	4488.8	3844.8	3501.3	3310.3	3308.1
17.5°	8876.8	8638.5	7786.2	6734.3	5613.7	4351.4	3385.4	2893.8	2732.8	2752.1	2719.9
20°	8831.7	8509.7	7470.7	6139.7	4667.0	3245.9	2535.3	2335.7	2380.7	2468.8	2481.6
22.5°	8780.2	8372.3	7131.5	5484.9	3670.9	2443.0	2056.6	2026.5	2142.4	2279.8	2299.2
25°	8700.7	8200.6	6704.3	4800.1	2831.6	1968.6	1801.1	1822.6	1936.4	2052.3	2065.2
27.5°	8589.1	7988.0	6272.8	3945.7	2127.4	1689.5	1646.6	1674.5	1730.3	1801.1	1818.3
30°	8438.8	7747.6	5776.9	3207.2	1704.5	1549.9	1532.8	1547.8	1580.0	1610.1	1618.6
32.5°	8288.6	7515.7	5276.7	2455.9	1519.9	1457.6	1440.5	1440.5	1440.5	1444.8	1446.9
35°	8149.0	7296.8	4740.0	1912.7	1423.3	1384.6	1361.0	1335.3	1331.0	1316.0	1316.0
37.5°	8071.8	7097.1	4169.0	1601.5	1352.4	1324.5	1292.3	1249.4	1225.8	1227.9	1223.6
40°	8086.8	6966.2	3649.5	1425.4	1294.5	1264.4	1215.1	1165.7	1150.7	1150.7	1146.4
42.5°	8256.4	6923.2	3151.4	1333.1	1238.7	1204.3	1142.1	1097.0	1088.4	1086.3	1090.5
45°	8647.1	7028.4	2704.9	1273.0	1191.4	1139.9	1077.7	1036.9	1028.3	1028.3	1026.1
47.5°	9409.2	7369.8	2385.0	1234.4	1157.1	1090.5	1026.1	985.4	970.3	966.0	966.0
50°	10594.2	8110.4	2146.7	1200.0	1114.2	1045.5	978.9	931.7	908.1	905.9	903.8
52.5°	12240.7	9265.3	2054.4	1174.3	1066.9	998.2	925.2	880.2	850.1	843.7	839.4
55°	14166.4	10877.5	2181.1	1154.9	1017.6	944.6	869.4	822.2	794.3	781.4	779.3
57.5°	16396.8	12813.9	2662.0	1129.2	972.5	886.6	813.6	766.4	736.3	721.3	717.0
60°	18399.7	14803.9	3501.3	1114.2	933.8	824.3	749.2	706.3	678.4	663.3	661.2
62.5°	20600.1	16701.7	4503.9	1154.9	916.7	764.2	689.1	650.5	626.8	611.8	611.8
65°	22950.8	18601.5	5167.2	1292.3	942.4	717.0	624.7	592.5	571.0	560.3	558.2
67.5°	24535.1	19258.4	4257.0	1434.0	1006.8	665.5	562.4	536.7	523.8	513.1	513.1
69°	24363.4	18427.6	3140.7	1470.5	1026.1	639.7	528.1	508.8	491.6	487.3	483.0
70°	23820.3	17480.9	2631.9	1446.9	1011.1	616.1	506.6	483.0	468.0	463.7	461.5
72.5°	21216.3	15160.3	1960.0	1258.0	860.8	534.5	448.7	427.2	414.3	407.9	407.9
75°	17626.9	12391.0	1530.6	1000.4	674.1	450.8	384.3	367.1	356.4	352.1	349.9
77.5°	9879.3	6919.0	1099.1	783.6	510.9	364.9	322.0	307.0	296.3	292.0	292.0
80°	2752.1	1977.1	646.2	517.4	347.8	276.9	255.5	244.7	229.7	219.0	225.4
82.5°	1036.9	856.6	369.2	311.3	221.1	184.6	178.2	169.6	163.2	148.1	148.1
85°	504.5	416.5	236.1	165.3	122.4	96.6	92.3	88.0	83.7	73.0	75.1
87.5°	173.9	184.6	103.0	60.1	36.5	23.6	19.3	10.7	10.7	10.7	10.7
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)