

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: P652461

Luminaire Tested: **GALN-SA6B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18767.8 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

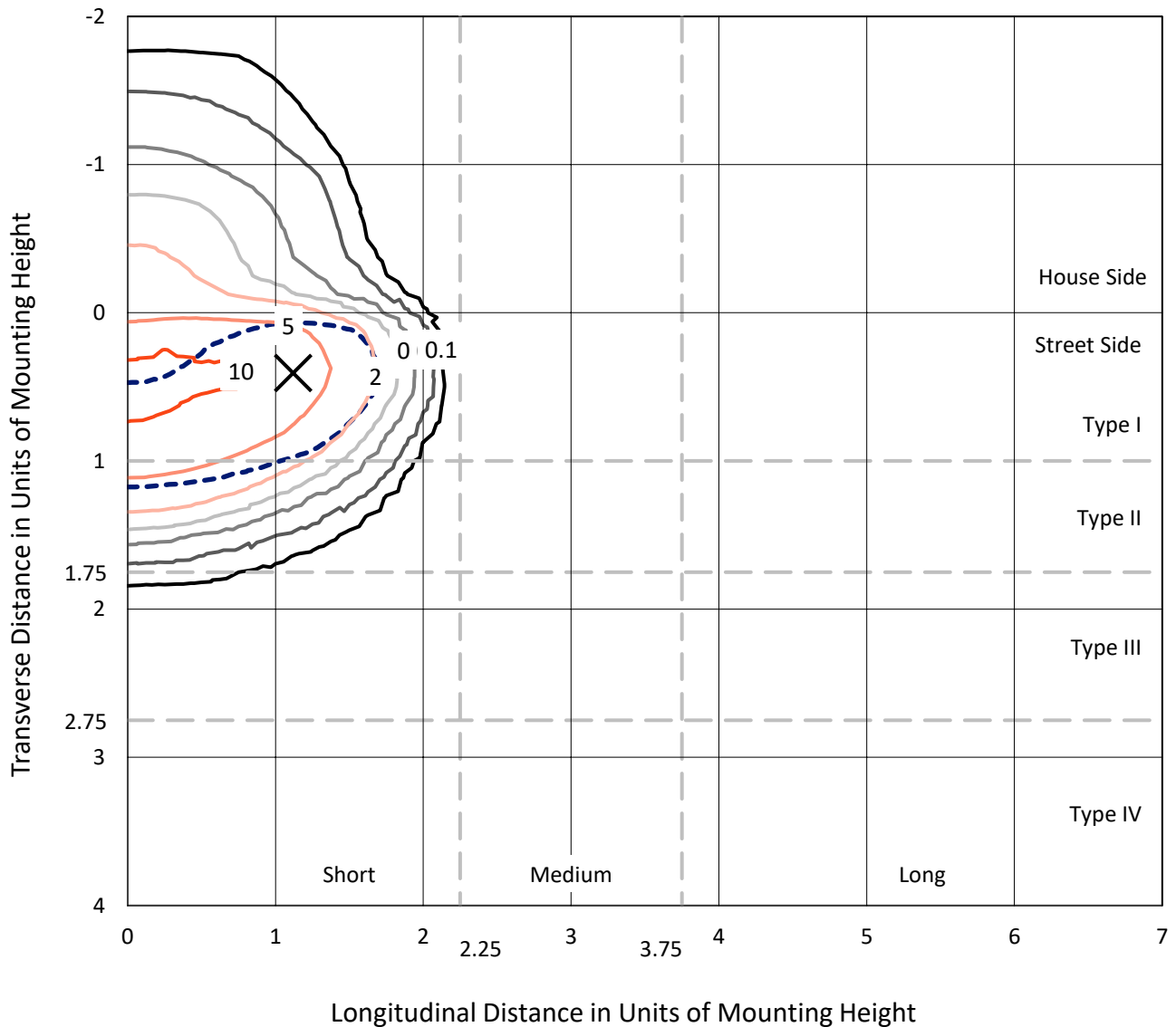
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652461  
 CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

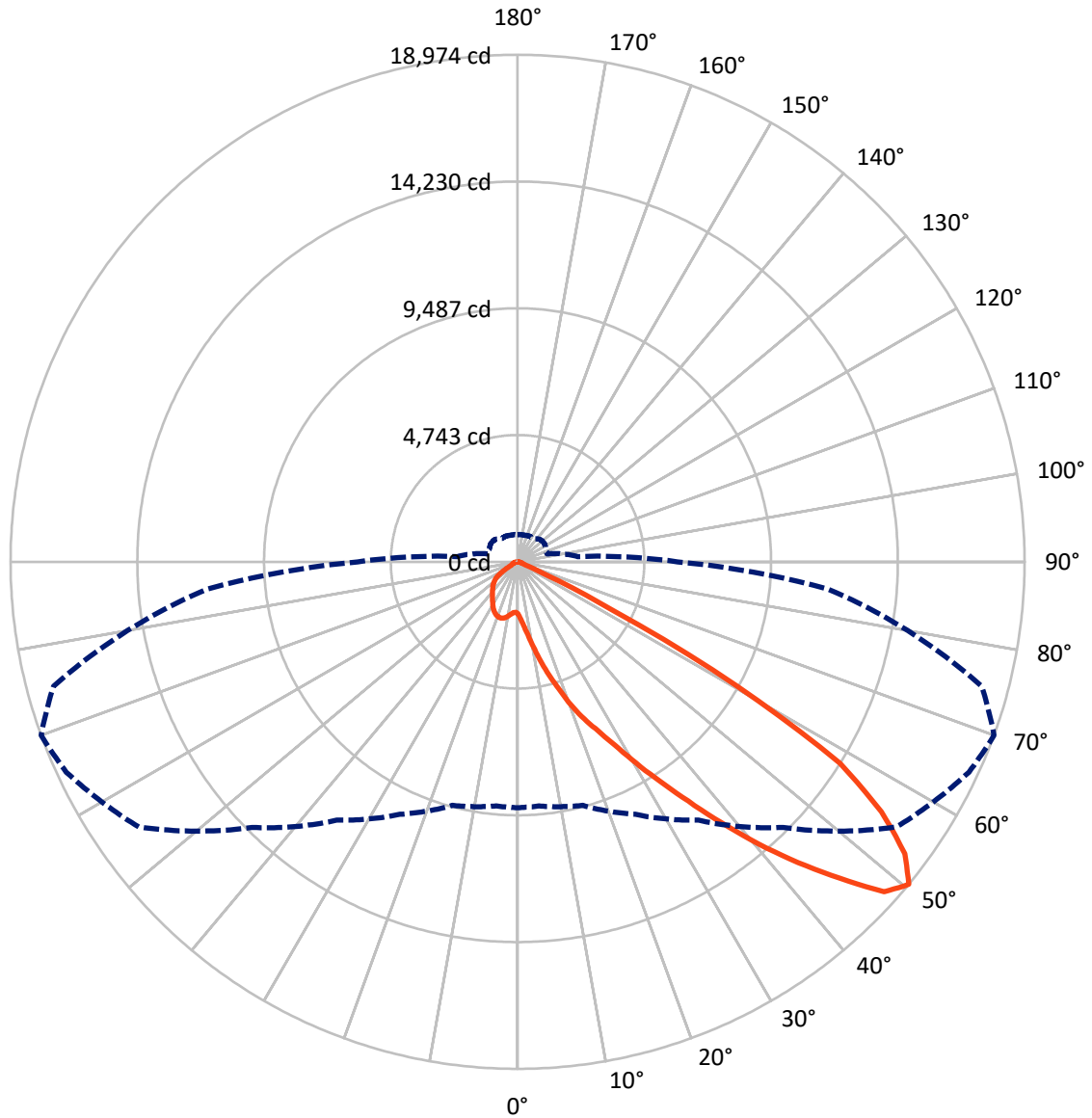
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type I - Short - N/A

REPORT NUMBER: P652461  
CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P652461  
 CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSBK

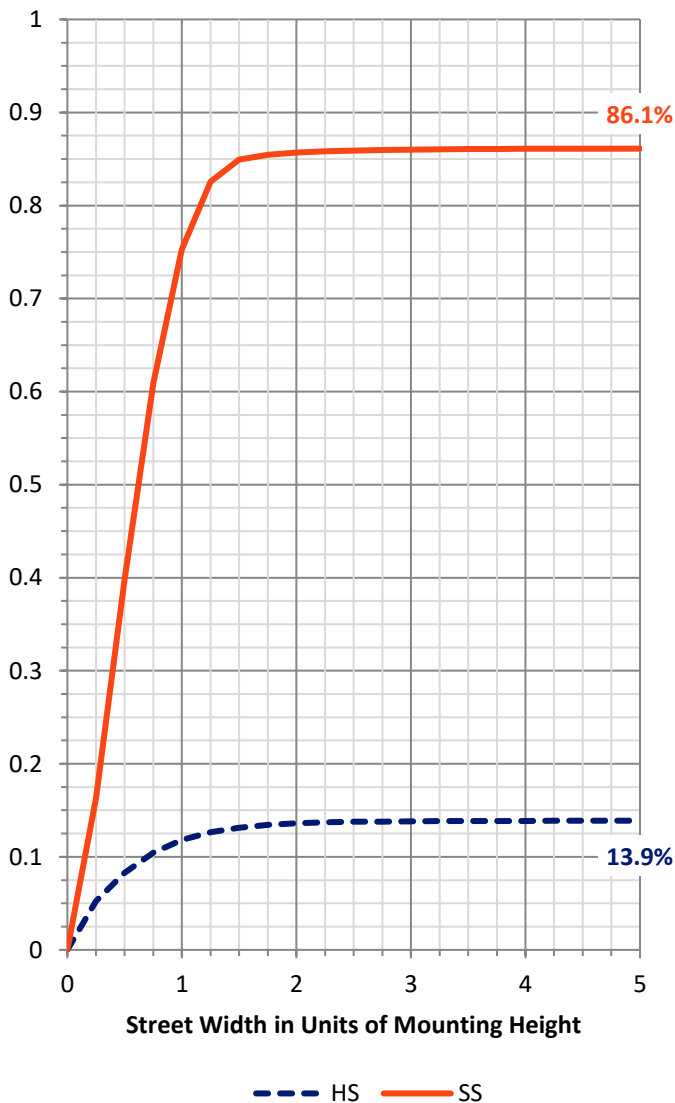
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2621.0	0.0	2621.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	16146.7	0.0	16146.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	18767.8	0.0	18767.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.8	1.3
10°-20°	1093.5	5.8
20°-30°	2293.9	12.2
30°-40°	3953.9	21.1
40°-50°	5778.6	30.8
50°-60°	4500.6	24.0
60°-70°	762.5	4.1
70°-80°	104.8	0.6
80°-90°	27.1	0.1
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°	18767.8	100.0
0°-180°	18767.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P652461

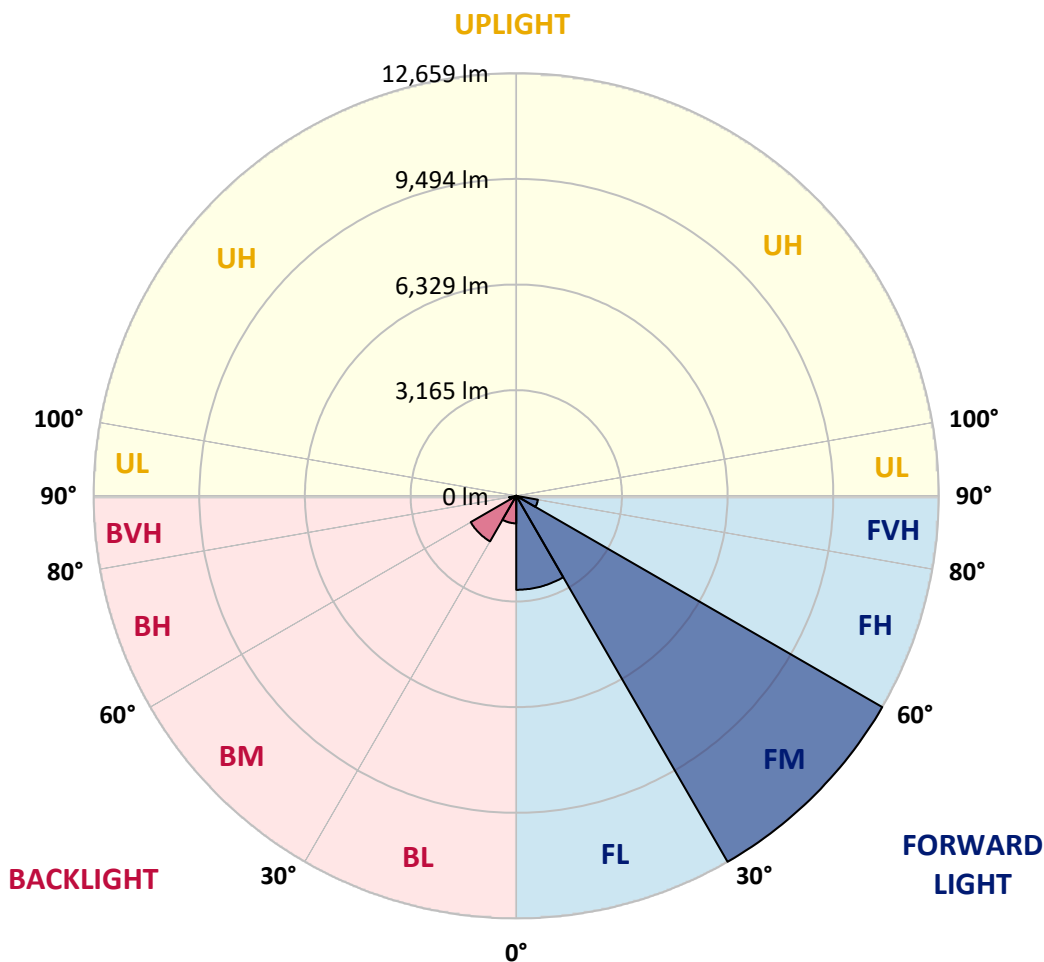
CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2815.4	15.0			
FM (30°-60°)	12658.5	67.4			
FH (60°-80°)	660.3	3.5			G1/1800
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	824.8	4.4	B2/1000		
BM (30°-60°)	1574.6	8.4	B2/2500		
BH (60°-80°)	207.0	1.1	B1/500		G1/500
BVH (80°-90°)	14.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





REPORT NUMBER: P652461

CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	2545.7	2527.1	2487.1	2413.0	2382.1	2308.0	2264.9	2181.6	2129.1	2070.5	2005.7
5°	3585.5	3489.9	3431.3	3347.9	3104.2	2953.0	2703.1	2490.1	2391.4	2283.4	2135.3
7.5°	4659.4	4597.7	4517.4	4338.5	4171.8	3857.1	3428.2	2959.1	2758.6	2573.5	2280.3
10°	5548.0	5375.3	5366.0	5233.3	5051.2	4674.8	4159.5	3576.3	3218.3	2946.8	2487.1
12.5°	6168.2	6010.9	6081.9	6066.4	5896.7	5551.1	4955.6	4184.1	3810.8	3388.1	2699.9
15°	6733.0	6668.1	6646.5	6628.0	6560.1	6304.1	5770.2	4924.7	4384.7	3875.6	2940.6
17.5°	7285.2	7118.6	7198.9	7214.3	7208.1	6976.7	6476.8	5628.2	4992.6	4390.9	3193.7
20°	7775.9	7791.3	7683.3	7661.7	7643.2	7633.9	7146.4	6325.6	5739.3	4930.9	3523.8
22.5°	8405.4	8297.4	8393.0	8331.3	8210.9	8136.9	7763.5	6942.8	6387.3	5582.0	3860.2
25°	9149.0	9235.4	9010.1	8985.5	8852.8	8596.7	8260.3	7633.9	7010.7	6186.7	4224.3
27.5°	10065.4	9914.2	9855.6	9719.9	9479.2	9371.2	8976.2	8346.8	7763.5	6822.4	4576.0
30°	10852.3	10812.1	10519.1	10358.6	10148.8	10145.7	9593.4	9312.6	8744.8	7819.1	5060.5
32.5°	11494.1	11318.3	11210.2	11099.2	10929.5	10975.7	10509.8	10361.7	9790.8	8744.8	5631.3
35°	11923.0	11796.5	11731.7	11562.0	11512.6	11719.3	11525.0	11463.3	10994.2	10046.9	6300.9
37.5°	12058.8	12098.9	12086.5	11873.7	11978.5	12537.0	12787.0	12626.5	12379.7	11420.0	7026.1
40°	12179.1	12206.9	12145.2	12395.2	12694.4	13330.1	14234.2	13968.8	13876.2	12811.7	8035.1
42.5°	12247.0	12225.4	12225.4	12657.4	13111.0	14388.5	15632.0	15456.1	15385.2	14292.8	9201.5
45°	11953.9	11744.1	11969.3	12555.5	13469.0	14909.9	16749.0	16992.7	16891.0	16054.7	10565.3
47.5°	10858.5	10988.1	11114.6	11898.3	13033.8	14749.5	17434.0	18264.1	18452.3	17535.9	11460.1
50°	9201.5	9173.7	9435.9	10423.4	11802.7	14058.3	17301.3	18631.3	18973.8	17980.2	11648.4
52.5°	6692.8	6896.5	7180.4	8161.6	9797.0	12268.6	15588.8	17684.0	18140.6	17434.0	11525.0
55°	3897.2	3672.0	4310.7	5140.7	6683.6	9253.9	13178.9	15675.1	16520.7	16440.5	10901.6
57.5°	1561.3	1511.9	1731.0	2332.8	3486.8	5736.3	9584.1	12879.6	14234.2	15058.0	9581.0
60°	685.0	669.6	786.8	950.4	1425.6	2644.4	5242.5	8010.4	9423.7	10522.1	6594.0
62.5°	493.7	487.5	546.1	604.8	752.9	1151.0	2203.2	3227.6	4023.7	4859.9	2953.0
65°	398.0	413.5	453.6	484.4	555.4	638.7	777.6	897.9	1101.5	1141.7	651.1
67.5°	324.0	336.3	373.4	407.3	419.7	345.6	357.9	314.7	314.7	280.8	225.2
70°	237.6	240.7	283.9	324.0	259.2	138.8	243.8	243.8	219.1	209.8	191.3
72.5°	175.9	179.0	212.9	200.6	101.8	86.4	179.0	197.5	179.0	169.7	154.3
75°	129.6	132.7	111.1	46.3	43.2	55.5	104.9	135.7	129.6	126.5	117.2
77.5°	24.7	18.5	15.4	21.6	30.9	46.3	67.9	83.3	86.4	92.6	86.4
80°	3.1	3.1	9.3	18.5	34.0	49.4	71.0	80.2	83.3	86.4	80.2
82.5°	0.0	3.1	9.3	18.5	34.0	46.3	61.7	71.0	77.1	80.2	77.1
85°	0.0	3.1	6.1	15.4	27.8	34.0	30.9	21.6	18.5	21.6	15.4
87.5°	0.0	0.0	3.1	3.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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: P652461

CATALOG NUMBER: GALN-SA6B-840-U-T2R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1968.7	1956.3	1913.1	1866.9	1826.7	1845.2	1826.7	1811.3	1817.5	1811.3	1805.1
5°	2076.7	2021.1	1928.6	1888.5	1854.5	1851.4	1842.1	1839.1	1842.1	1842.1	1814.4
7.5°	2178.4	2089.0	1990.2	1947.1	1907.0	1910.0	1888.5	1888.5	1885.4	1869.9	1863.7
10°	2332.8	2212.4	2085.9	2008.7	1959.4	1950.1	1928.6	1907.0	1907.0	1907.0	1876.1
12.5°	2502.5	2351.3	2178.4	2089.0	2030.3	1984.1	1950.1	1944.0	1910.0	1903.9	1888.5
15°	2650.6	2459.3	2240.2	2116.8	2042.7	1981.0	1928.6	1894.6	1879.1	1869.9	1857.6
17.5°	2795.7	2551.8	2274.1	2116.8	2036.6	1965.6	1910.0	1879.1	1842.1	1848.3	1823.6
20°	2990.0	2650.6	2283.4	2076.7	1977.9	1910.0	1836.0	1820.5	1799.0	1780.4	1786.6
22.5°	3178.2	2721.6	2255.6	2027.3	1885.4	1805.1	1768.1	1749.5	1740.3	1724.9	1703.3
25°	3347.9	2798.7	2212.4	1937.8	1786.6	1728.0	1694.0	1690.9	1669.4	1669.4	1629.3
27.5°	3520.8	2826.4	2138.3	1832.9	1700.2	1666.3	1650.8	1644.7	1635.4	1613.8	1586.0
30°	3718.2	2835.8	2030.3	1724.9	1623.0	1586.0	1607.7	1623.0	1582.9	1542.8	1555.2
32.5°	3881.8	2814.2	1900.7	1623.0	1567.5	1549.0	1592.2	1607.7	1561.3	1518.2	1496.6
35°	4079.3	2761.7	1774.3	1542.8	1511.9	1549.0	1586.0	1586.0	1493.4	1441.0	1428.7
37.5°	4378.6	2703.1	1657.0	1474.9	1453.3	1530.5	1579.9	1545.9	1400.9	1336.1	1320.7
40°	4699.5	2666.1	1542.8	1407.1	1422.5	1499.7	1527.4	1422.5	1274.4	1234.3	1221.9
42.5°	5165.4	2592.0	1441.0	1348.5	1394.7	1456.4	1456.4	1268.2	1212.6	1191.1	1188.0
45°	5745.5	2539.5	1351.5	1299.1	1354.6	1370.1	1320.7	1188.0	1147.9	1141.7	1144.8
47.5°	6029.4	2437.6	1259.0	1240.5	1280.6	1283.6	1154.0	1123.2	1089.3	1080.0	1073.8
50°	5986.2	2255.6	1138.6	1163.3	1218.9	1188.0	1052.2	1058.4	1027.5	1024.4	1009.0
52.5°	5683.8	1968.7	1018.3	1076.9	1138.6	1049.1	968.9	962.7	962.7	922.6	907.2
55°	5038.9	1586.0	873.2	947.3	1021.4	882.5	860.9	854.7	839.3	802.3	793.0
57.5°	3989.8	1163.3	657.2	737.5	867.1	749.8	746.7	719.0	678.9	651.1	651.1
60°	2372.9	669.6	413.5	450.5	573.9	607.9	675.7	663.4	595.5	552.4	540.0
62.5°	1083.0	345.6	262.3	268.4	308.6	394.9	530.8	614.0	518.4	444.3	438.2
65°	364.1	256.1	216.0	206.7	212.9	237.6	317.8	435.0	413.5	342.5	330.2
67.5°	222.2	228.3	203.7	188.2	188.2	185.1	182.1	197.5	243.8	237.6	240.7
70°	191.3	209.8	188.2	169.7	163.6	154.3	129.6	108.0	92.6	108.0	114.2
72.5°	154.3	166.6	160.5	145.0	129.6	117.2	92.6	71.0	52.5	46.3	46.3
75°	114.2	123.5	129.6	111.1	98.7	83.3	67.9	46.3	27.8	18.5	18.5
77.5°	83.3	92.6	95.6	86.4	74.1	58.6	43.2	30.9	15.4	6.1	6.1
80°	71.0	83.3	92.6	86.4	77.1	55.5	40.1	21.6	12.4	3.1	3.1
82.5°	67.9	83.3	92.6	83.3	74.1	52.5	40.1	24.7	9.3	3.1	3.1
85°	15.4	21.6	27.8	34.0	40.1	40.1	30.9	18.5	9.3	3.1	3.1
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	3.1	3.1	0.0
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)