

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: P651969

Luminaire Tested: **GALN-SA6A-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651969  
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-SA6A-840-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23242.7 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

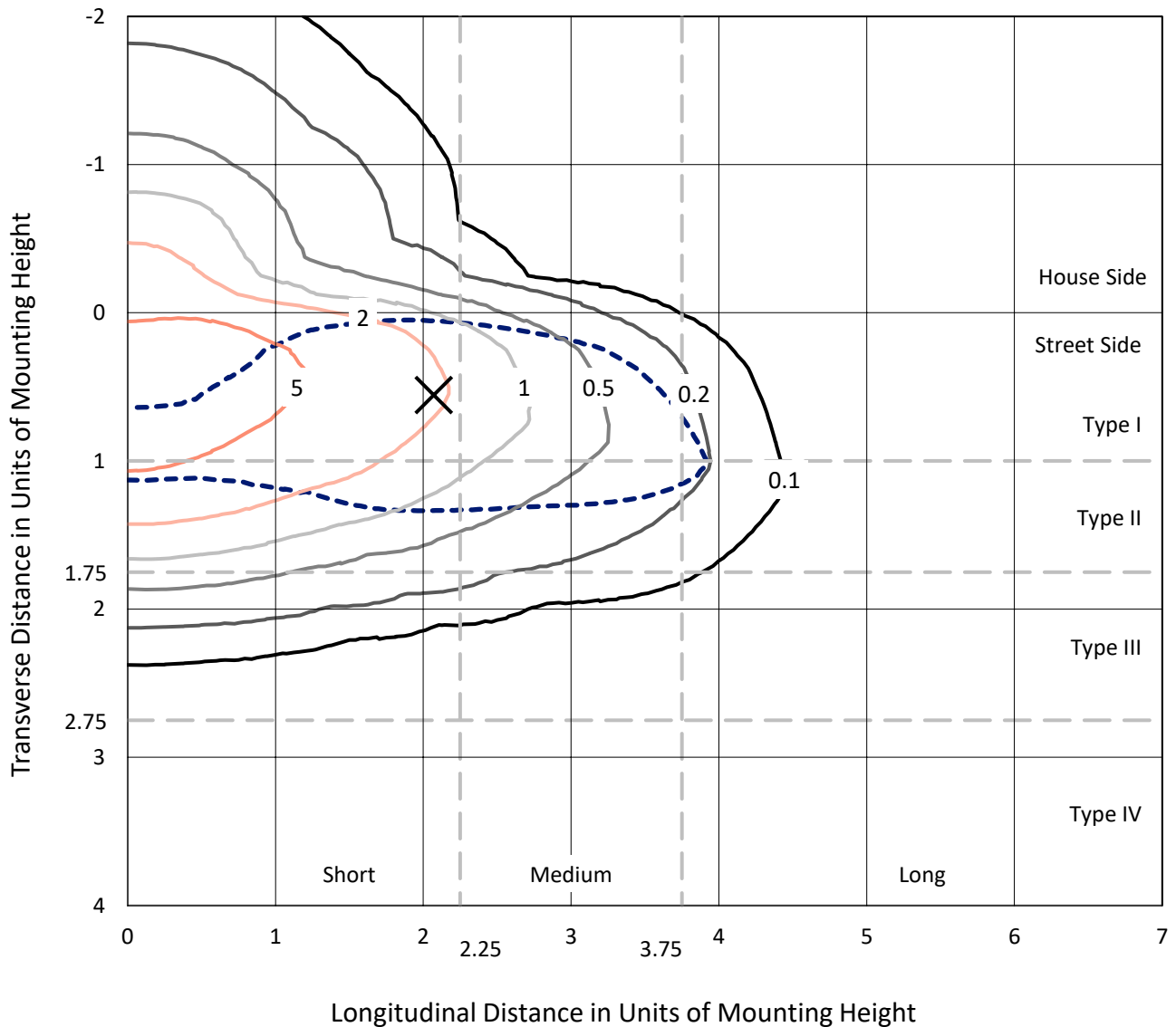
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

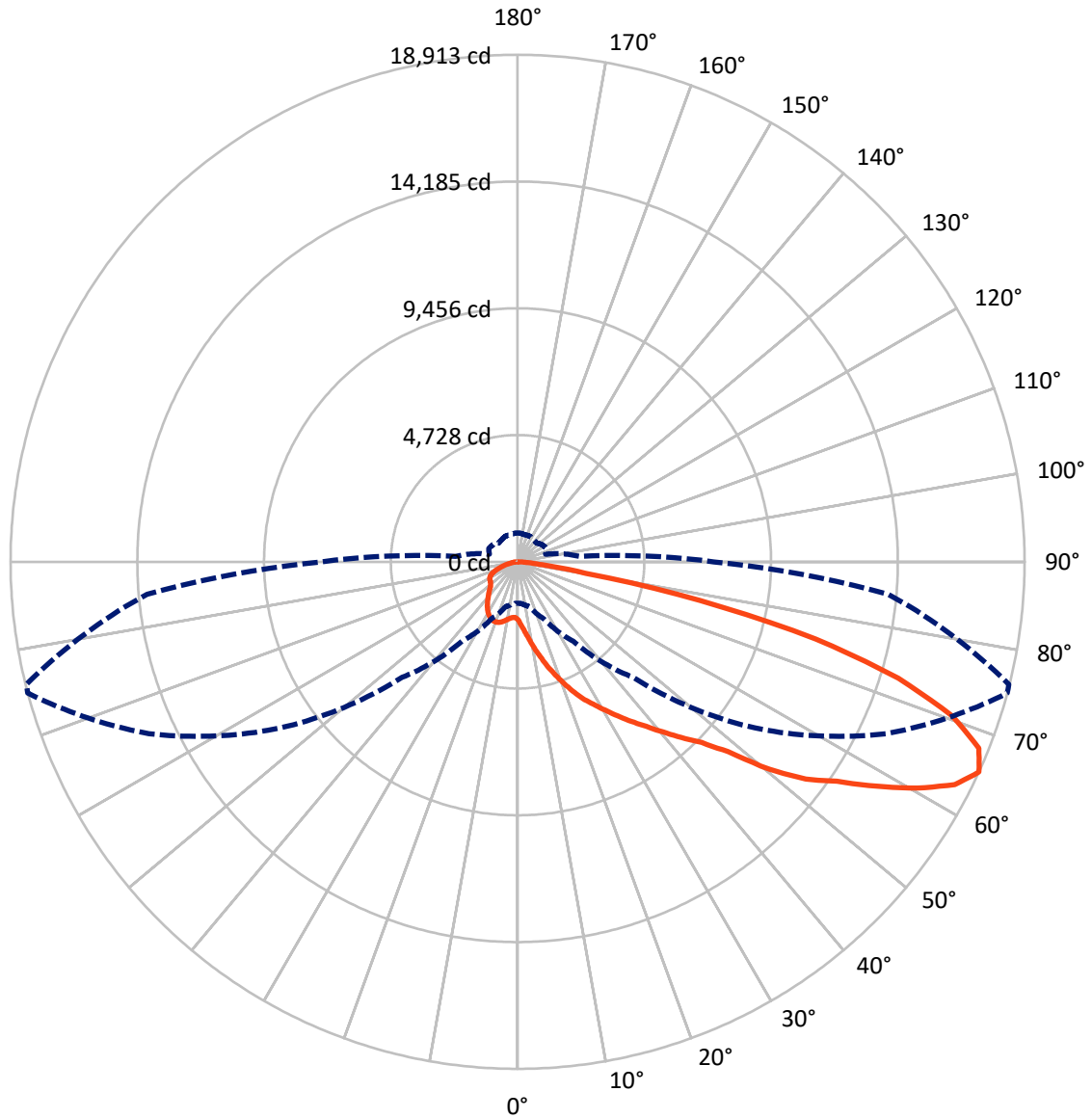
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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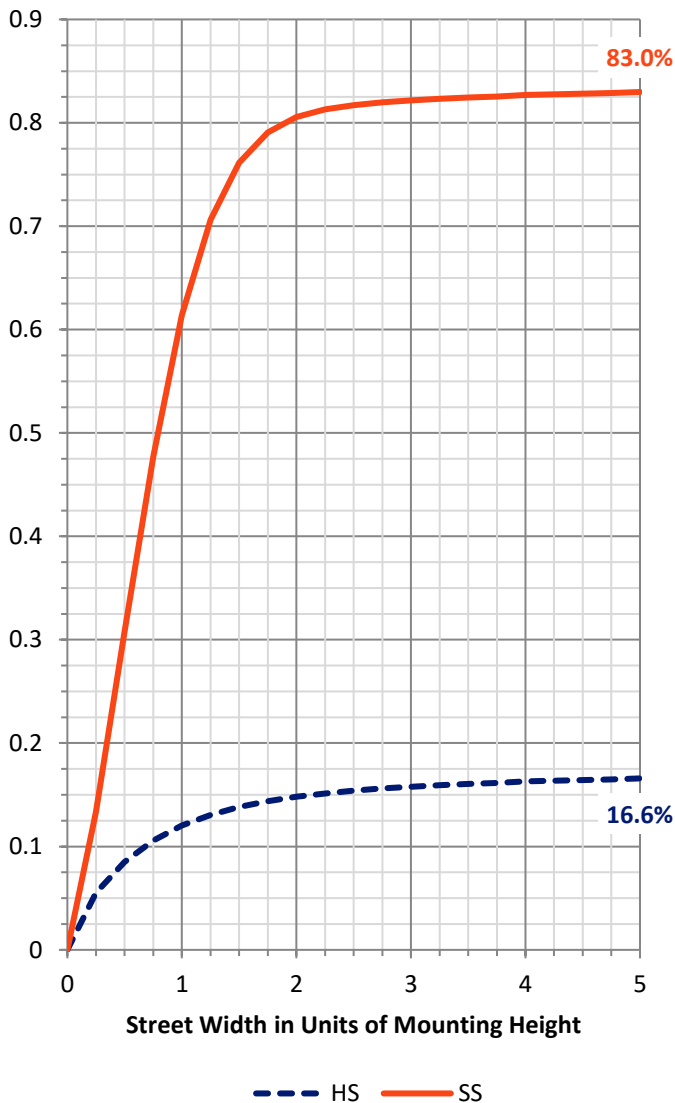
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3907.4	0.0	3907.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	19335.3	0.0	19335.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	23242.7	0.0	23242.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.4	1.1
10°-20°	1027.7	4.4
20°-30°	1985.2	8.5
30°-40°	3224.5	13.9
40°-50°	4435.6	19.1
50°-60°	5236.9	22.5
60°-70°	4588.4	19.7
70°-80°	2190.5	9.4
80°-90°	291.5	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°	23242.7	100.0
0°-180°	23242.7	100.0

**Coefficient of Utilization**



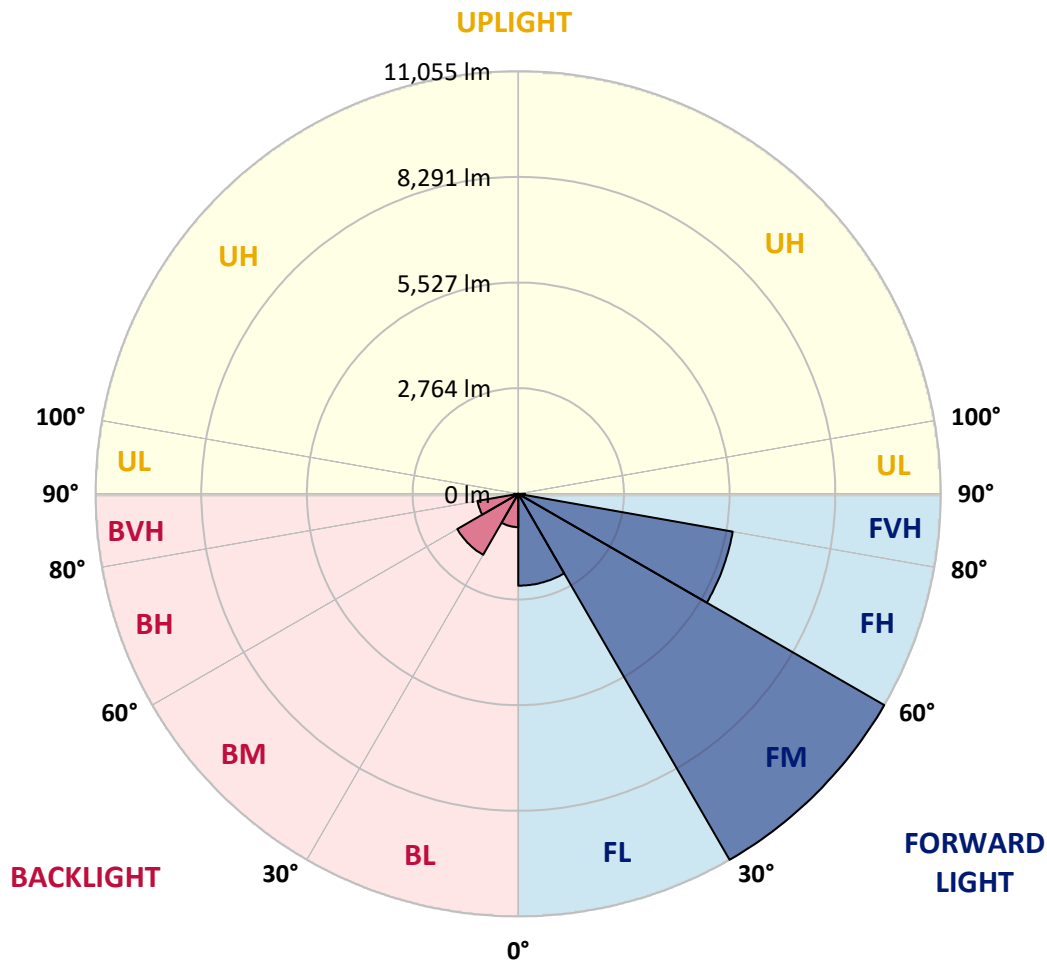
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2402.9	10.3			
FM (30°-60°)	11054.7	47.6			
FH (60°-80°)	5695.5	24.5			G3/7500
FVH (80°-90°)	182.2	0.8			G2/225
BL (0°-30°)	872.3	3.8	B2/1000		
BM (30°-60°)	1842.3	7.9	B2/2500		
BH (60°-80°)	1083.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	109.3	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5
2.5°	2869.3	2850.4	2830.2	2774.7	2715.5	2648.6	2552.9	2460.9	2338.6	2334.8	2244.0
5°	3664.8	3652.2	3562.6	3511.0	3373.6	3190.8	3035.7	2794.9	2571.8	2545.3	2368.8
7.5°	4396.0	4346.8	4312.8	4219.5	4083.3	3848.8	3548.8	3223.6	2850.4	2815.1	2522.6
10°	4946.9	4941.9	4924.2	4843.5	4741.4	4508.2	4175.4	3708.9	3203.4	3134.1	2709.2
12.5°	5359.1	5362.9	5360.4	5359.1	5286.0	5088.1	4727.5	4235.9	3560.1	3511.0	2924.7
15°	5630.2	5668.0	5683.1	5746.1	5752.4	5620.1	5310.0	4745.2	3962.3	3889.2	3156.8
17.5°	5809.2	5828.1	5898.7	6005.8	6092.9	6068.9	5792.8	5216.7	4373.3	4251.0	3397.6
20°	5980.7	6013.4	6067.6	6213.9	6367.7	6438.3	6244.2	5699.5	4780.5	4702.4	3663.6
22.5°	6337.4	6384.1	6403.0	6477.4	6608.5	6733.3	6645.1	6162.2	5226.7	5120.8	3945.9
25°	6941.3	6990.5	6937.5	6919.8	6962.7	7024.5	7005.6	6598.4	5647.8	5496.5	4213.2
27.5°	7727.9	7734.3	7630.9	7532.6	7426.6	7395.2	7337.1	6985.4	6013.4	5887.3	4481.7
30°	8572.6	8542.4	8370.9	8193.2	8014.1	7837.6	7671.3	7358.6	6420.6	6275.6	4745.2
32.5°	9356.7	9340.4	9150.0	8873.9	8571.4	8405.0	8068.3	7735.5	6856.8	6716.9	5016.2
35°	9944.2	9968.2	9758.9	9457.6	9127.3	8979.8	8555.0	8131.4	7308.1	7155.6	5311.3
37.5°	10361.5	10348.9	10163.6	9902.6	9612.7	9484.0	9123.5	8563.8	7793.5	7647.3	5633.9
40°	10510.3	10502.7	10365.3	10174.9	9990.9	9945.5	9718.6	9030.2	8349.4	8178.1	6022.2
42.5°	10415.7	10432.1	10341.4	10289.6	10255.7	10288.4	10309.8	9641.6	8955.9	8798.3	6443.3
45°	10125.8	10117.0	10104.4	10188.8	10380.5	10596.0	10894.8	10219.1	9615.2	9489.1	7008.1
47.5°	9607.7	9670.7	9702.2	9935.4	10354.0	10864.5	11568.0	10993.1	10572.0	10462.4	7869.2
50°	8882.7	8933.2	9119.7	9534.5	10158.5	10965.4	12226.0	12258.8	12168.1	11962.6	8804.6
52.5°	7750.7	7828.8	8213.3	8973.5	9757.6	10923.7	12624.4	13344.3	13464.1	13310.3	9726.2
55°	6483.7	6593.4	6999.3	7996.5	9205.5	10696.8	12899.3	13973.4	14451.2	14308.7	10613.7
57.5°	5243.1	5359.1	5776.4	6742.1	8242.3	10195.1	13079.6	14674.3	15795.1	15609.7	11718.0
60°	3929.6	4050.6	4408.6	5403.3	6870.7	9214.3	12957.3	15282.0	17137.6	17058.3	12823.7
62.5°	2535.2	2668.8	2980.3	3803.5	5281.0	7874.2	12303.0	15617.3	18300.0	18204.2	13630.4
65°	1544.3	1559.5	1730.9	2361.3	3614.4	6096.7	10806.5	15172.2	18912.7	18883.7	13876.2
67.5°	998.4	1022.4	1100.5	1414.5	2167.1	4234.6	8640.7	13703.6	18554.6	18544.6	13368.2
70°	843.4	850.9	886.2	954.4	1259.4	2568.0	6067.6	11362.5	17194.4	17194.4	12146.6
72.5°	753.9	764.0	776.6	798.0	898.9	1454.8	3620.7	8844.9	14845.8	14944.1	10338.8
75°	684.6	682.1	689.6	693.4	766.5	950.6	1872.1	6541.6	11484.8	11288.2	7487.2
77.5°	586.2	590.0	586.2	602.6	677.0	723.6	950.6	4389.7	6960.2	6705.5	3758.1
80°	481.6	487.9	494.2	504.3	578.7	549.7	571.1	2000.7	2574.3	2520.1	1161.1
82.5°	361.8	370.6	380.7	404.7	455.1	363.1	360.5	854.7	929.1	850.9	427.4
85°	146.2	172.7	261.0	284.9	286.2	199.1	221.9	356.8	379.5	370.6	167.7
87.5°	34.1	40.4	84.4	127.3	117.2	74.3	81.9	116.0	132.4	122.3	56.8
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°	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5	2159.5
2.5°	2202.4	2158.3	2082.7	2024.6	1983.1	1946.5	1923.8	1909.9	1904.9	1903.6	1904.9
5°	2276.8	2198.6	2078.9	2003.2	1961.6	1937.7	1923.8	1922.5	1923.8	1925.0	1921.3
7.5°	2378.9	2266.7	2110.4	2039.8	2008.2	1990.6	1984.3	1981.8	1983.1	1981.8	1981.8
10°	2515.1	2361.3	2172.1	2099.1	2072.6	2052.4	2042.3	2036.0	2030.9	2025.9	2023.4
12.5°	2665.0	2465.9	2239.0	2168.4	2130.5	2099.1	2076.3	2059.9	2048.6	2037.2	2034.7
15°	2832.7	2576.8	2313.3	2215.0	2160.8	2114.2	2075.1	2048.6	2028.4	2012.0	2010.7
17.5°	2992.9	2681.4	2363.8	2236.5	2157.0	2091.5	2039.8	2003.2	1978.0	1956.6	1954.1
20°	3164.3	2781.0	2386.5	2222.6	2119.2	2039.8	1971.7	1927.6	1898.6	1874.6	1870.9
22.5°	3337.0	2865.5	2384.0	2178.4	2053.6	1960.4	1888.5	1841.9	1807.8	1783.8	1775.0
25°	3502.2	2933.6	2352.4	2107.9	1962.9	1865.8	1792.7	1749.8	1719.6	1690.6	1690.6
27.5°	3650.9	2973.9	2293.2	2022.1	1869.6	1767.4	1709.5	1670.4	1642.6	1623.7	1612.4
30°	3797.2	2992.9	2212.5	1913.7	1771.2	1684.3	1637.6	1614.9	1589.7	1568.3	1565.8
32.5°	3928.3	2989.1	2111.7	1807.8	1678.0	1616.1	1597.3	1579.7	1553.2	1522.9	1515.3
35°	4055.6	2963.9	1991.9	1691.8	1599.8	1575.9	1580.9	1555.7	1507.7	1470.0	1463.7
37.5°	4194.2	2918.4	1860.8	1597.3	1534.2	1556.9	1569.6	1514.1	1435.9	1376.6	1362.8
40°	4354.4	2866.8	1724.6	1502.7	1482.6	1539.3	1539.3	1437.2	1330.0	1293.5	1283.4
42.5°	4542.2	2823.9	1611.2	1423.3	1439.7	1496.4	1490.1	1335.1	1290.9	1272.0	1267.0
45°	4839.7	2808.8	1493.9	1354.0	1404.4	1446.0	1394.3	1299.8	1274.5	1259.4	1254.4
47.5°	5310.0	2826.4	1390.5	1302.3	1364.0	1395.6	1287.2	1275.8	1258.1	1236.7	1234.2
50°	5746.1	2810.0	1317.4	1273.3	1328.8	1335.1	1243.0	1246.8	1236.7	1212.8	1207.8
52.5°	6103.0	2758.4	1270.8	1258.1	1298.5	1229.1	1201.5	1215.3	1211.5	1181.3	1176.2
55°	6495.0	2726.9	1248.0	1258.1	1278.3	1137.1	1162.3	1182.5	1177.5	1156.0	1154.8
57.5°	6970.3	2733.2	1231.6	1261.9	1258.1	1090.5	1123.2	1147.2	1145.9	1139.6	1139.6
60°	7456.9	2735.7	1206.5	1260.7	1234.2	1053.9	1083.0	1116.9	1119.5	1123.2	1123.2
62.5°	7618.3	2626.0	1157.3	1238.0	1181.3	1018.6	1045.1	1091.8	1089.3	1099.3	1100.5
65°	7317.0	2322.2	1084.2	1186.3	1113.1	993.4	1016.1	1059.0	1045.1	1071.6	1076.6
67.5°	6660.1	1921.3	970.7	1093.0	1037.5	967.0	997.2	1013.6	988.3	1040.1	1041.3
70°	5756.2	1500.2	827.0	960.7	951.8	939.2	982.0	956.9	921.6	984.6	971.9
72.5°	4813.3	1145.9	660.6	785.4	837.1	897.6	955.6	883.7	834.6	853.4	830.8
75°	3615.6	847.1	530.8	615.2	697.2	838.4	931.7	795.5	719.8	702.2	697.2
77.5°	1843.1	553.5	397.1	460.1	523.2	757.7	898.9	692.1	596.3	568.6	556.0
80°	658.1	344.1	279.9	317.7	353.0	651.8	785.4	572.4	462.6	457.6	462.6
82.5°	305.1	221.9	187.9	208.0	209.2	435.0	598.8	427.4	351.7	534.5	451.4
85°	131.1	110.9	105.9	103.4	95.8	194.1	336.6	229.4	358.0	160.1	147.5
87.5°	39.1	44.2	39.1	29.0	21.4	21.4	34.1	12.6	8.8	6.3	6.3
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)