

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: P651914

Luminaire Tested: **GALN-SA5A-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651914  
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-SA5A-840-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 19628.9 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

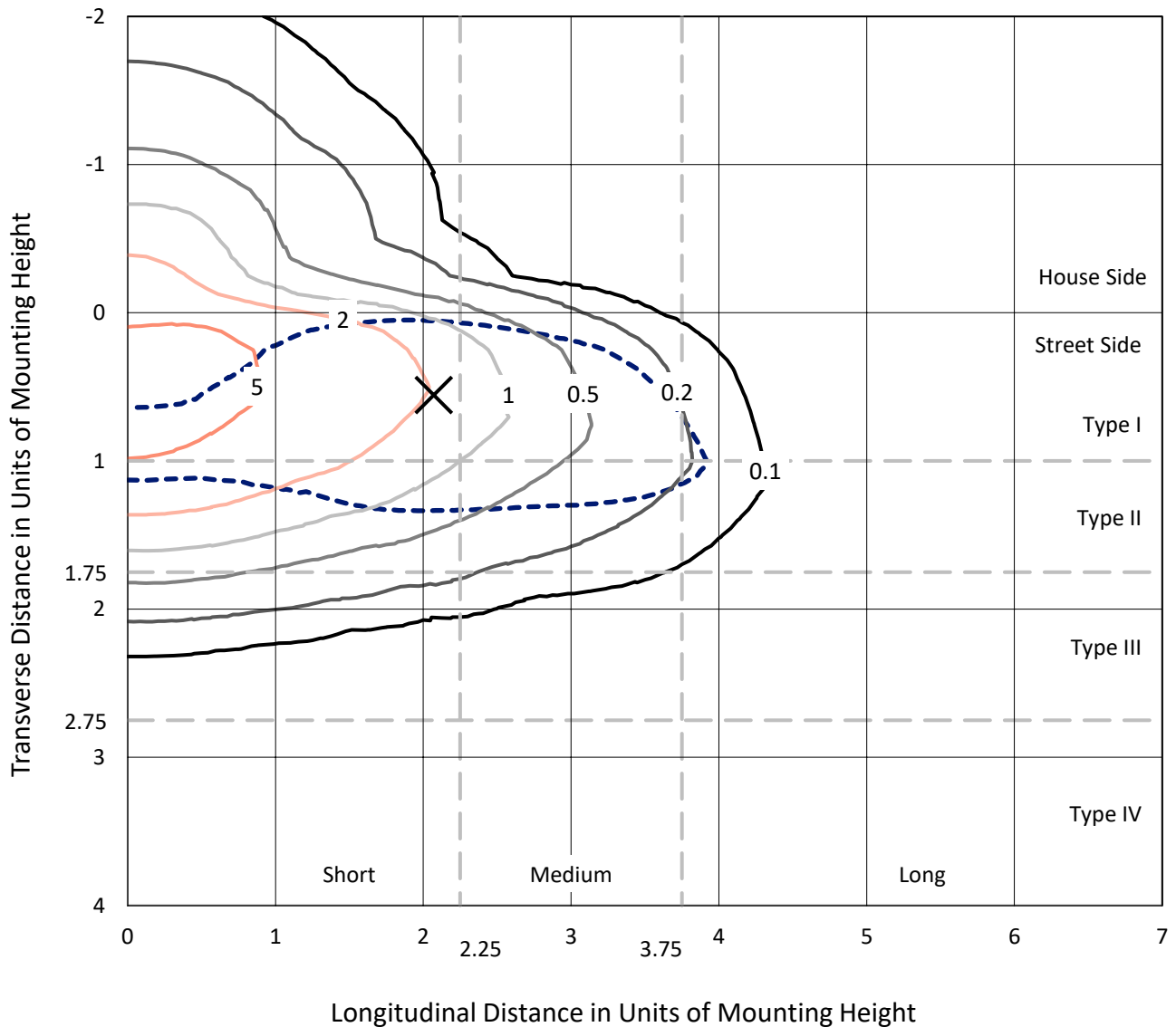
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

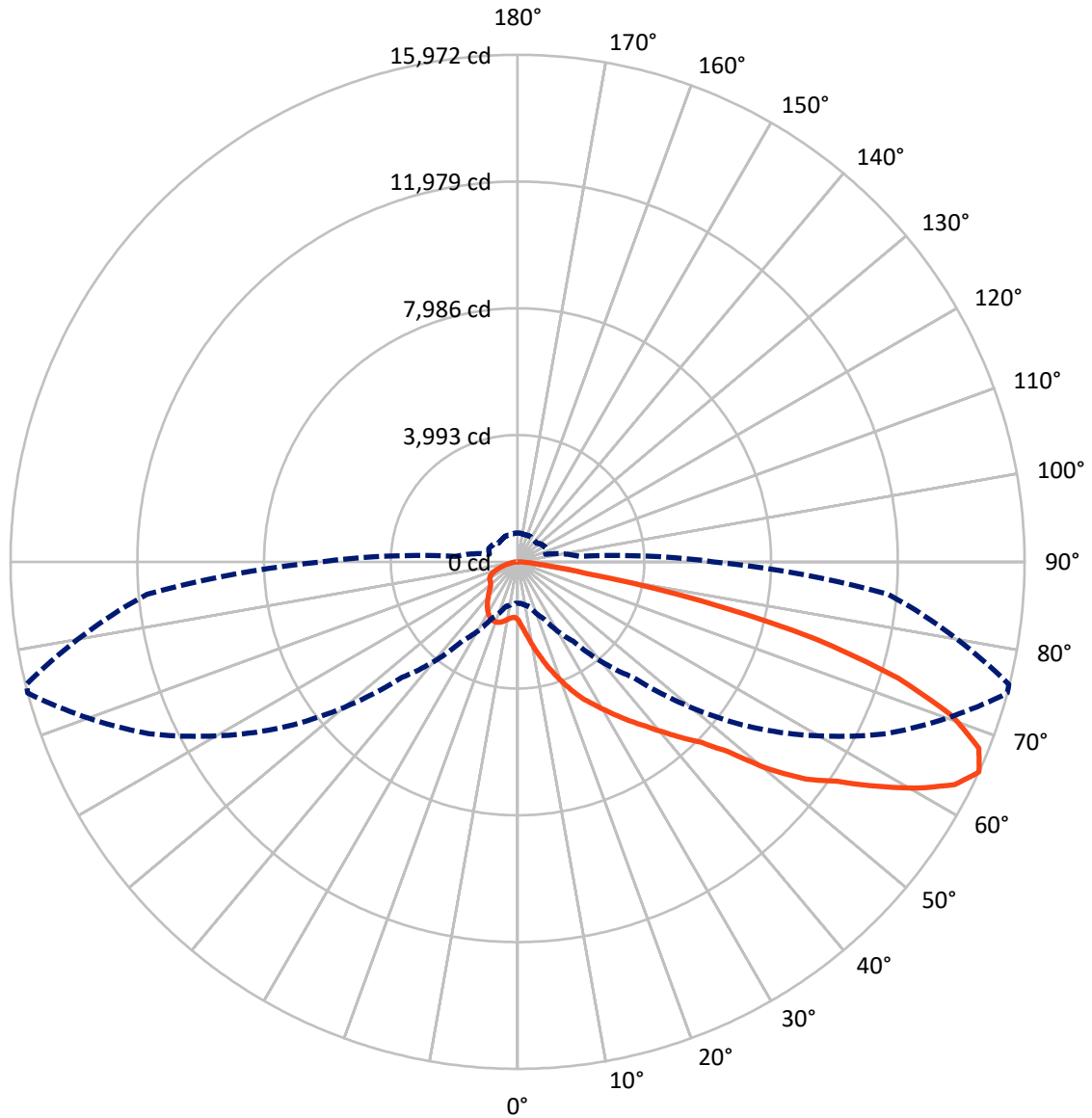
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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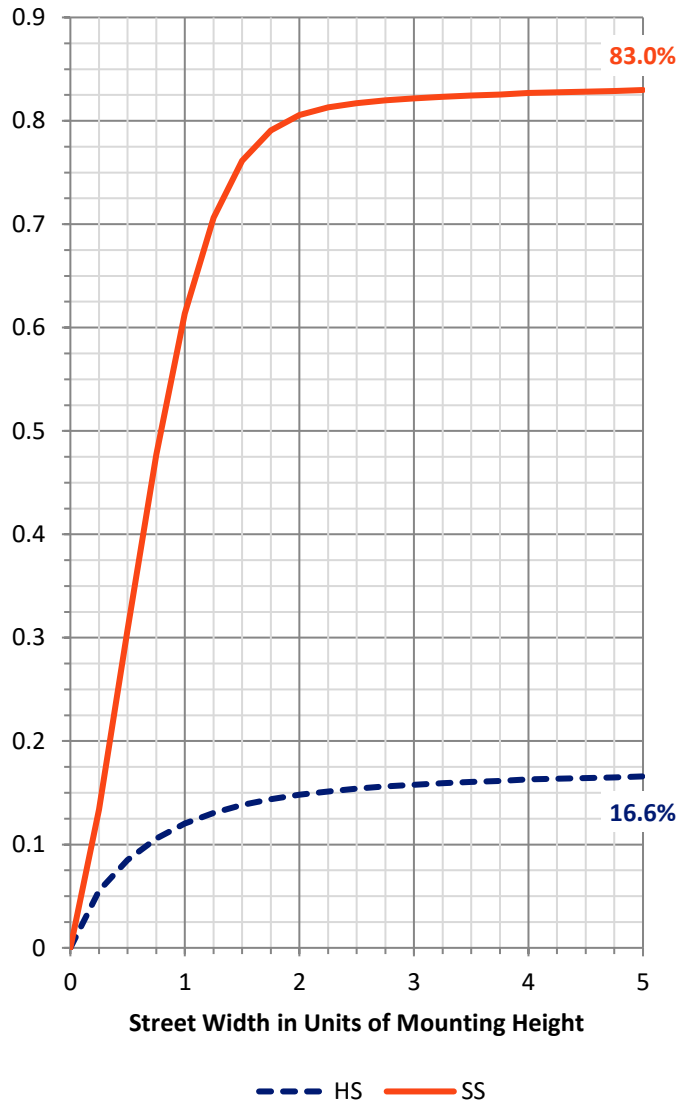
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3299.9	0.0	3299.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	16329.1	0.0	16329.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	19628.9	0.0	19628.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.6	1.1
10°-20°	867.9	4.4
20°-30°	1676.5	8.5
30°-40°	2723.2	13.9
40°-50°	3745.9	19.1
50°-60°	4422.7	22.5
60°-70°	3875.0	19.7
70°-80°	1850.0	9.4
80°-90°	246.2	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°	19628.9	100.0
0°-180°	19628.9	100.0

**Coefficient of Utilization**

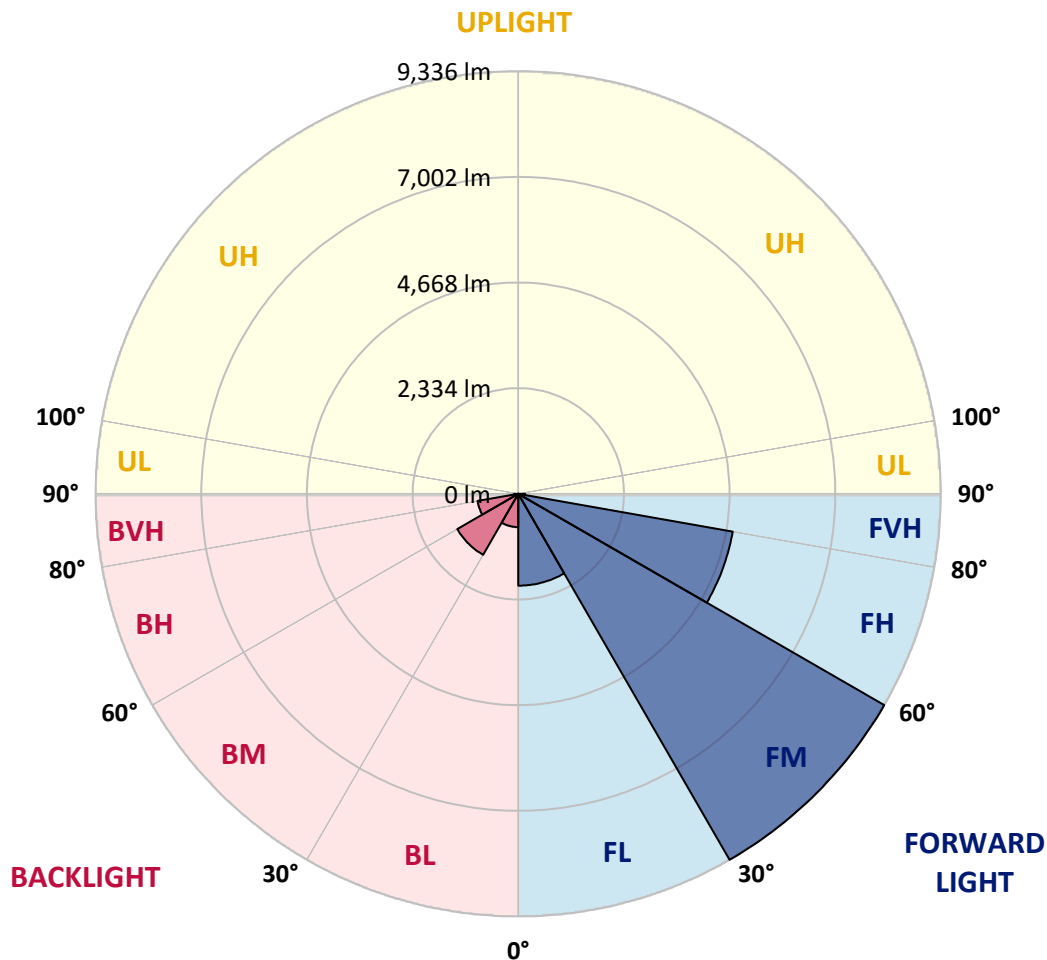


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.3	10.3			
FM (30°-60°)	9335.9	47.6			
FH (60°-80°)	4810.0	24.5			G2/5000
FVH (80°-90°)	153.8	0.8			G2/225
BL (0°-30°)	736.7	3.8	B2/1000		
BM (30°-60°)	1555.9	7.9	B2/2500		
BH (60°-80°)	915.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	92.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8
2.5°	2423.2	2407.2	2390.2	2343.4	2293.3	2236.9	2156.0	2078.2	1974.9	1971.7	1895.1
5°	3095.0	3084.4	3008.8	2965.1	2849.1	2694.6	2563.7	2360.4	2171.9	2149.6	2000.5
7.5°	3712.5	3671.0	3642.2	3563.5	3448.4	3250.5	2997.1	2722.3	2407.2	2377.4	2130.4
10°	4177.8	4173.5	4158.6	4090.5	4004.3	3807.3	3526.1	3132.2	2705.3	2646.8	2287.9
12.5°	4525.9	4529.1	4526.9	4525.9	4464.1	4297.0	3992.5	3577.3	3006.7	2965.1	2470.0
15°	4754.8	4786.7	4799.5	4852.7	4858.1	4746.3	4484.4	4007.4	3346.3	3284.5	2666.0
17.5°	4906.0	4922.0	4981.6	5072.1	5145.6	5125.3	4892.2	4405.6	3693.3	3590.1	2869.2
20°	5050.8	5078.5	5124.2	5247.8	5377.6	5437.2	5273.3	4813.4	4037.2	3971.2	3094.0
22.5°	5352.1	5391.5	5407.5	5470.3	5581.0	5686.4	5611.8	5204.1	4414.1	4324.7	3332.4
25°	5862.0	5903.6	5858.8	5843.9	5880.2	5932.3	5916.4	5572.5	4769.7	4642.0	3558.1
27.5°	6526.4	6531.7	6444.4	6361.4	6271.9	6245.4	6196.4	5899.4	5078.5	4972.0	3784.9
30°	7239.7	7214.2	7069.4	6919.2	6768.1	6619.0	6478.5	6214.5	5422.3	5299.9	4007.4
32.5°	7902.0	7888.2	7727.4	7494.2	7238.7	7098.1	6813.9	6532.8	5790.7	5672.5	4236.3
35°	8398.1	8418.3	8241.6	7987.1	7708.2	7583.6	7224.9	6867.1	6171.8	6043.1	4485.5
37.5°	8750.5	8739.8	8583.3	8363.0	8118.1	8009.5	7705.0	7232.3	6581.8	6458.3	4758.0
40°	8876.2	8869.8	8753.7	8592.9	8437.5	8399.2	8207.5	7626.2	7051.3	6906.5	5085.9
42.5°	8796.3	8810.1	8733.4	8689.8	8661.0	8688.8	8706.9	8142.6	7563.4	7430.3	5441.5
45°	8551.4	8544.0	8533.3	8604.6	8766.5	8948.6	9200.9	8630.2	8120.2	8013.7	5918.5
47.5°	8113.8	8167.0	8193.7	8390.7	8744.1	9175.3	9769.4	9283.9	8928.3	8835.7	6645.7
50°	7501.6	7544.3	7701.8	8052.1	8579.1	9260.5	10325.1	10352.8	10276.2	10102.6	7435.6
52.5°	6545.6	6611.6	6936.3	7578.3	8240.5	9225.3	10661.6	11269.5	11370.7	11240.8	8213.9
55°	5475.6	5568.2	5911.1	6753.2	7774.2	9033.7	10893.7	11800.7	12204.3	12084.0	8963.5
57.5°	4427.9	4525.9	4878.3	5693.8	6960.8	8610.0	11045.9	12392.7	13339.2	13182.8	9896.1
60°	3318.6	3420.8	3723.1	4563.2	5802.5	7781.7	10942.7	12905.9	14473.1	14406.0	10829.8
62.5°	2141.0	2253.9	2516.9	3212.1	4459.9	6650.0	10390.1	13189.1	15454.7	15373.8	11511.2
65°	1304.2	1317.0	1461.8	1994.1	3052.4	5148.8	9126.4	12813.3	15972.2	15947.6	11718.8
67.5°	843.2	863.5	929.5	1194.6	1830.2	3576.2	7297.3	11572.9	15669.8	15661.3	11289.8
70°	712.2	718.6	748.5	805.9	1063.6	2168.8	5124.2	9595.9	14521.0	14521.0	10258.1
72.5°	636.6	645.2	655.8	673.9	759.1	1228.6	3057.7	7469.7	12537.5	12620.6	8731.3
75°	578.1	576.0	582.4	585.6	647.3	802.7	1581.0	5524.5	9699.1	9533.1	6323.1
77.5°	495.1	498.3	495.1	508.9	571.7	611.2	802.7	3707.2	5878.0	5663.0	3173.8
80°	406.7	412.0	417.4	425.9	488.7	464.2	482.3	1689.7	2174.1	2128.2	980.5
82.5°	305.5	313.0	321.5	341.8	384.3	306.6	304.5	721.8	784.7	718.6	361.0
85°	123.5	145.8	220.4	240.6	241.7	168.2	187.4	301.3	320.5	313.0	141.6
87.5°	28.8	34.1	71.3	107.6	99.0	62.8	69.2	98.0	111.8	103.3	47.9
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°	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8	1823.8
2.5°	1860.0	1822.7	1758.9	1709.8	1674.7	1643.8	1624.6	1613.0	1608.7	1607.7	1608.7
5°	1922.8	1856.8	1755.7	1691.8	1656.6	1636.4	1624.6	1623.6	1624.6	1625.7	1622.5
7.5°	2009.1	1914.3	1782.2	1722.6	1696.0	1681.1	1675.8	1673.7	1674.7	1673.7	1673.7
10°	2124.0	1994.1	1834.4	1772.7	1750.3	1733.3	1724.7	1719.4	1715.2	1710.9	1708.8
12.5°	2250.7	2082.5	1890.8	1831.2	1799.3	1772.7	1753.5	1739.7	1730.1	1720.5	1718.4
15°	2392.3	2176.2	1953.6	1870.6	1824.8	1785.4	1752.5	1730.1	1713.0	1699.2	1698.1
17.5°	2527.5	2264.6	1996.3	1888.7	1821.6	1766.3	1722.6	1691.8	1670.5	1652.4	1650.2
20°	2672.3	2348.7	2015.5	1877.0	1789.7	1722.6	1665.2	1627.8	1603.4	1583.2	1580.0
22.5°	2818.2	2420.0	2013.3	1839.8	1734.3	1655.6	1594.9	1555.5	1526.8	1506.5	1499.1
25°	2957.6	2477.5	1986.7	1780.1	1657.7	1575.7	1514.0	1477.7	1452.2	1427.7	1427.7
27.5°	3083.3	2511.6	1936.7	1707.7	1578.9	1492.7	1443.7	1410.7	1387.2	1371.3	1361.7
30°	3206.8	2527.5	1868.5	1616.1	1495.9	1422.4	1383.0	1363.8	1342.6	1324.4	1322.3
32.5°	3317.5	2524.3	1783.3	1526.8	1417.1	1364.9	1349.0	1334.0	1311.7	1286.1	1279.7
35°	3425.1	2503.1	1682.2	1428.8	1351.1	1330.8	1335.1	1313.8	1273.4	1241.4	1236.1
37.5°	3542.1	2464.7	1571.4	1349.0	1295.7	1314.9	1325.5	1278.7	1212.6	1162.6	1150.9
40°	3677.4	2421.1	1456.4	1269.1	1252.1	1299.9	1299.9	1213.7	1123.2	1092.4	1083.8
42.5°	3836.0	2384.8	1360.7	1202.0	1215.8	1263.8	1258.5	1127.4	1090.2	1074.2	1070.0
45°	4087.3	2372.0	1261.7	1143.4	1186.1	1221.2	1177.5	1097.7	1076.4	1063.6	1059.3
47.5°	4484.4	2387.0	1174.3	1099.8	1152.0	1178.6	1087.0	1077.4	1062.5	1044.4	1042.3
50°	4852.7	2373.1	1112.6	1075.3	1122.1	1127.4	1049.7	1052.9	1044.4	1024.2	1020.0
52.5°	5154.1	2329.5	1073.2	1062.5	1096.6	1038.0	1014.7	1026.4	1023.2	997.6	993.3
55°	5485.2	2302.9	1054.0	1062.5	1079.6	960.3	981.6	998.7	994.4	976.3	975.2
57.5°	5886.6	2308.2	1040.1	1065.7	1062.5	921.0	948.6	968.8	967.8	962.4	962.4
60°	6297.5	2310.3	1018.9	1064.7	1042.3	890.0	914.6	943.3	945.5	948.6	948.6
62.5°	6433.8	2217.7	977.3	1045.5	997.6	860.3	882.6	922.0	919.9	928.4	929.5
65°	6179.3	1961.1	915.6	1001.9	940.1	839.0	858.2	894.3	882.6	905.0	909.2
67.5°	5624.6	1622.5	819.8	923.1	876.2	816.6	842.2	856.0	834.7	878.3	879.4
70°	4861.3	1267.0	698.5	811.3	803.8	793.1	829.4	808.1	778.3	831.5	820.9
72.5°	4064.9	967.8	557.9	663.3	706.9	758.1	807.0	746.3	704.8	720.8	701.6
75°	3053.5	715.4	448.3	519.6	588.8	708.0	786.8	671.8	608.0	593.0	588.8
77.5°	1556.5	467.4	335.4	388.6	441.9	639.8	759.1	584.5	503.6	480.1	469.5
80°	555.7	290.6	236.3	268.3	298.1	550.4	663.3	483.3	390.7	386.4	390.7
82.5°	257.7	187.4	158.6	175.7	176.7	367.3	505.7	361.0	297.0	451.4	381.1
85°	110.8	93.7	89.4	87.3	80.9	164.0	284.3	193.8	302.3	135.2	124.6
87.5°	33.0	37.3	33.0	24.5	18.1	18.1	28.8	10.7	7.5	5.3	5.3
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)