

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: P650812

Luminaire Tested: **GALN-SA3C-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15510.6 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

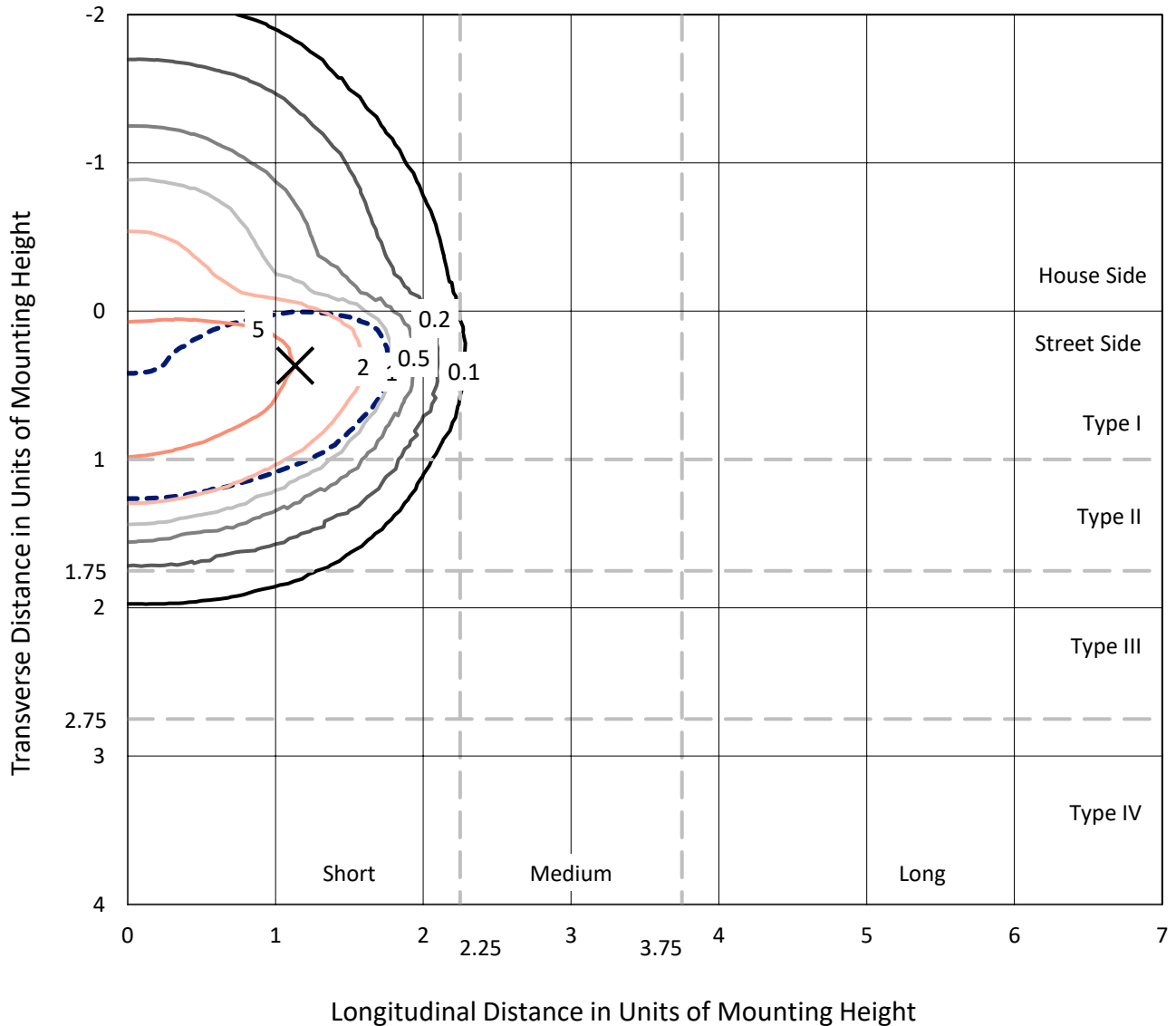
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

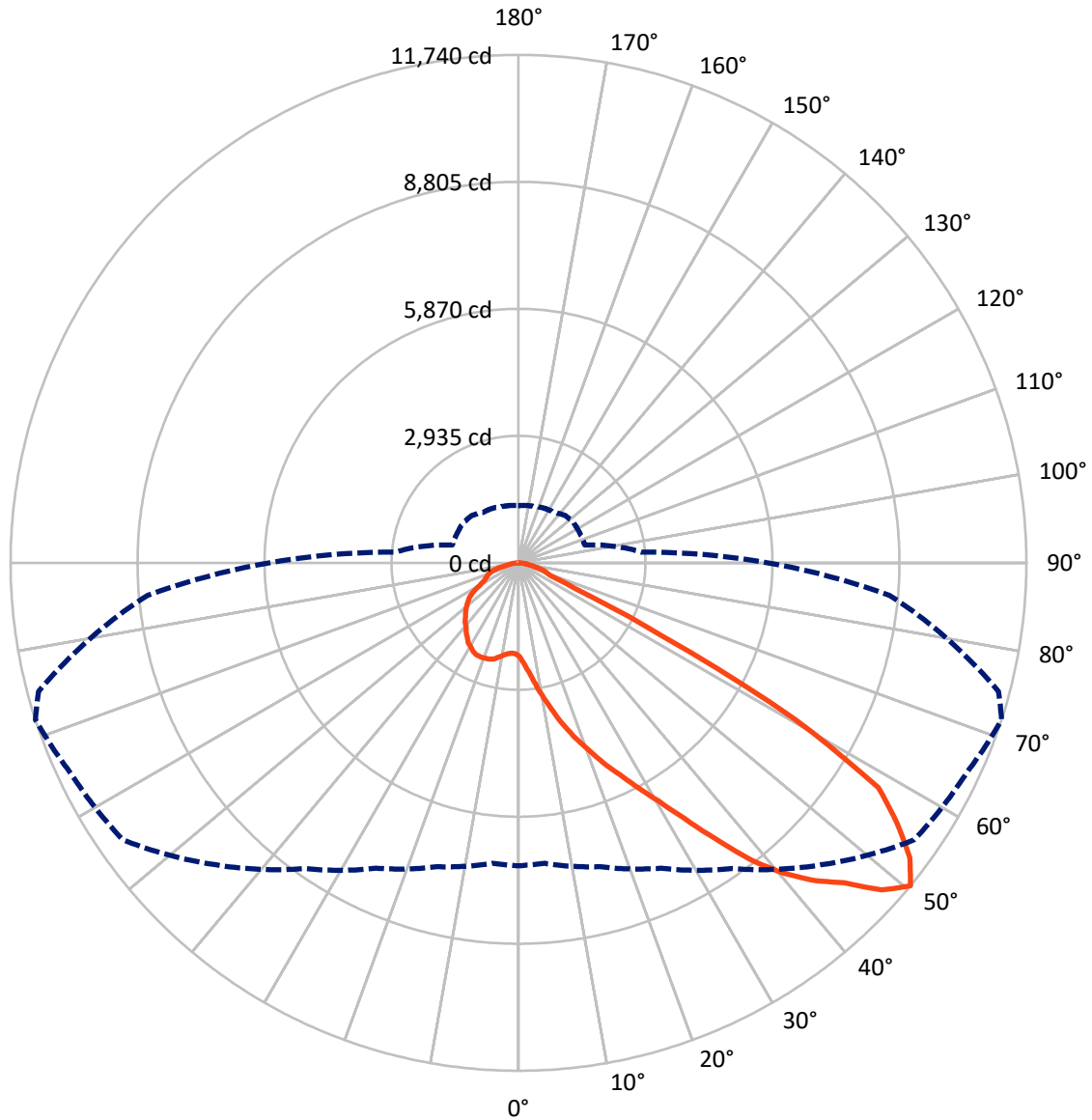
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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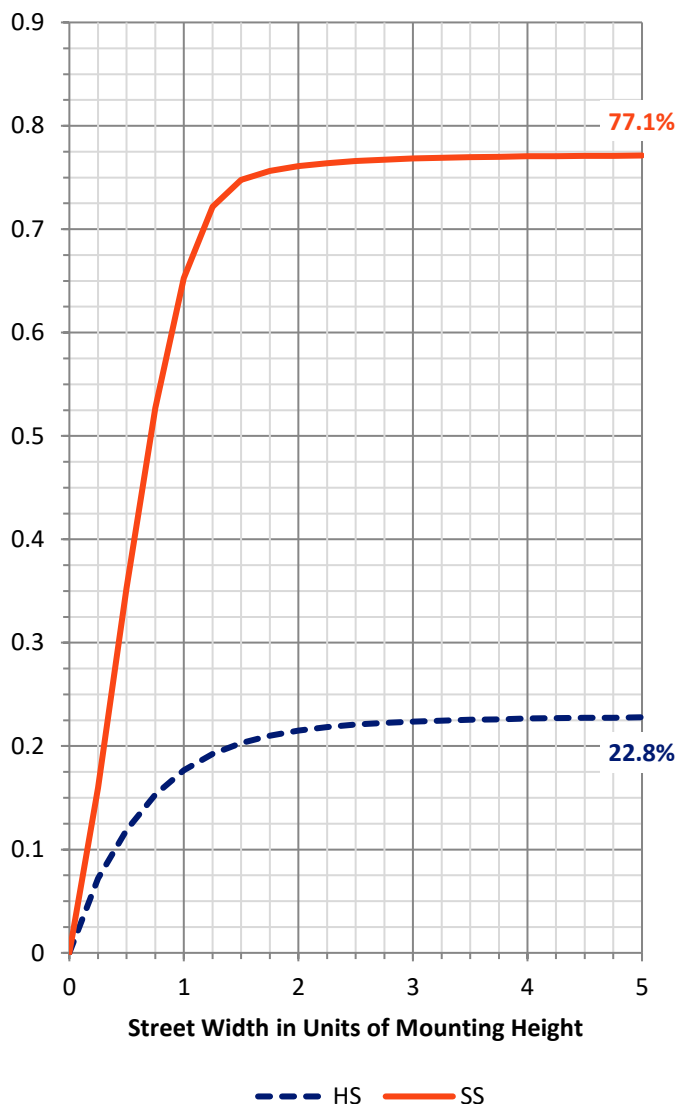
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3553.6	0.0	3553.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	11957.0	0.0	11957.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	15510.6	0.0	15510.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.0	1.6
10°-20°	949.5	6.1
20°-30°	1840.9	11.9
30°-40°	3049.8	19.7
40°-50°	4267.3	27.5
50°-60°	3600.0	23.2
60°-70°	1097.3	7.1
70°-80°	385.0	2.5
80°-90°	66.9	0.4
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°	15510.6	100.0
0°-180°	15510.6	100.0

**Coefficient of Utilization**



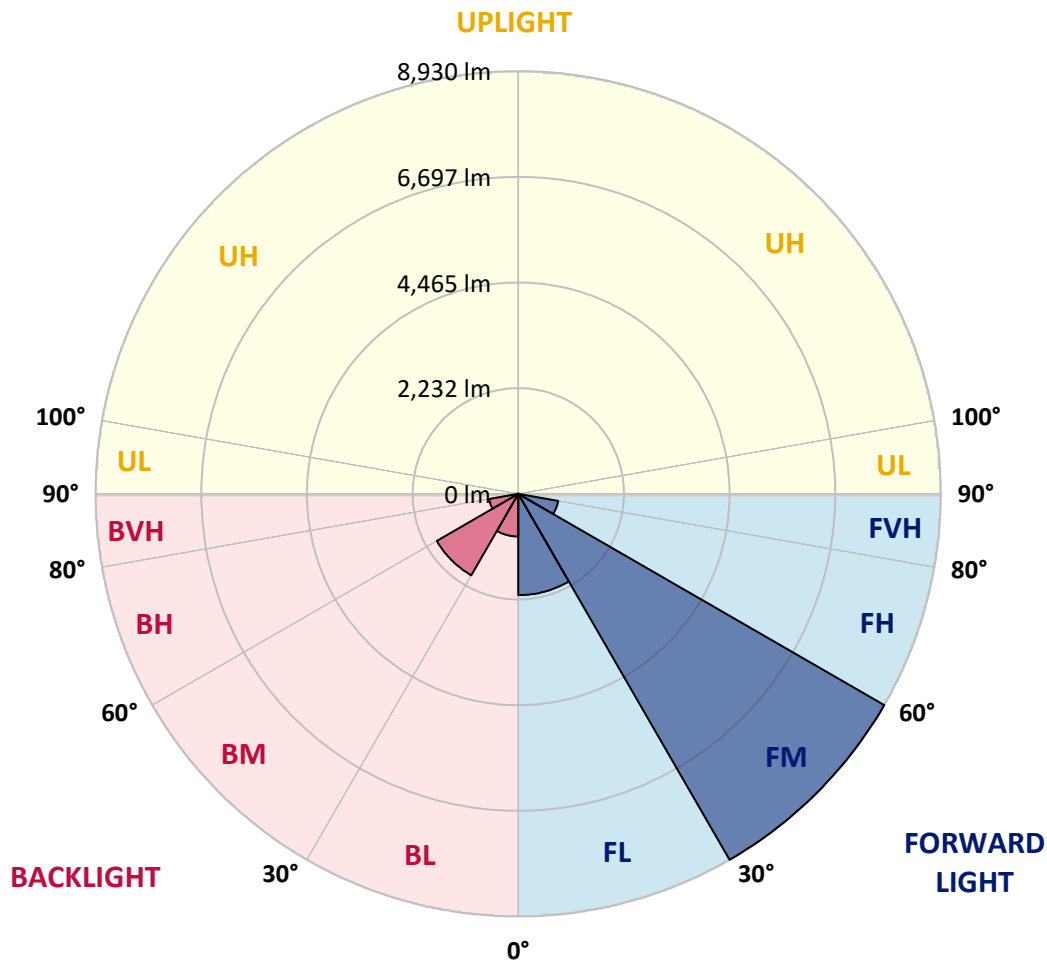
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.0	13.8			
FM (30°-60°)	8929.9	57.6			
FH (60°-80°)	856.2	5.5			G1/1800
FVH (80°-90°)	30.0	0.2			G1/100
BL (0°-30°)	903.3	5.8	B2/1000		
BM (30°-60°)	1987.2	12.8	B2/2500		
BH (60°-80°)	626.1	4.0	B2/1000		G2/1000
BVH (80°-90°)	37.0	0.2			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°	72°	75°	85°
0°	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2
2.5°	2777.2	2759.9	2708.1	2690.9	2629.5	2518.1	2479.7	2366.5	2318.5	2274.4	2222.5
5°	3512.3	3431.7	3425.9	3328.1	3186.0	3103.5	2857.8	2692.8	2541.2	2464.4	2322.3
7.5°	3980.6	3982.6	3982.6	3901.9	3788.7	3579.5	3358.8	3061.2	2832.9	2719.6	2477.8
10°	4425.8	4387.5	4366.4	4358.7	4282.0	4078.5	3842.4	3473.9	3161.1	3028.6	2594.9
12.5°	4740.6	4708.0	4756.0	4731.0	4675.4	4543.0	4320.3	3900.0	3508.5	3329.9	2783.0
15°	4890.3	4913.4	4951.8	5020.9	4995.9	4946.0	4700.3	4337.6	3882.7	3681.2	2950.0
17.5°	5120.7	5057.4	5103.4	5189.7	5258.9	5235.8	5095.7	4654.3	4253.2	4005.6	3174.5
20°	5281.9	5245.4	5268.4	5368.3	5420.1	5550.6	5477.7	5068.9	4608.3	4347.2	3439.4
22.5°	5742.5	5688.8	5613.9	5629.3	5648.5	5740.6	5757.9	5523.7	5020.9	4744.5	3690.8
25°	6310.6	6260.7	6172.4	6082.2	6026.6	6009.3	6068.8	5880.7	5416.2	5130.3	3961.4
27.5°	6936.3	6851.9	6796.2	6610.0	6460.3	6437.3	6408.5	6306.8	5884.6	5575.6	4266.6
30°	7544.7	7477.6	7402.7	7105.2	6949.8	6924.8	6782.7	6811.6	6393.2	6049.6	4612.0
32.5°	8005.4	8011.1	7840.3	7615.8	7469.8	7337.5	7285.7	7368.2	7045.7	6769.4	4997.8
35°	8377.7	8394.9	8231.9	8028.4	7871.0	7963.2	7940.1	7978.5	7824.9	7487.2	5447.0
37.5°	8740.4	8654.1	8479.5	8381.6	8299.0	8450.6	8646.4	8679.0	8707.8	8310.5	5969.0
40°	8800.0	8807.6	8705.9	8775.0	8671.4	8899.7	9354.6	9312.4	9429.5	9082.1	6535.2
42.5°	8715.5	8732.8	8773.1	8871.0	9120.5	9394.9	10070.6	9897.8	10039.8	9730.8	7086.0
45°	8577.3	8506.3	8556.2	8928.6	9360.4	9970.7	10725.0	10590.6	10544.6	10285.5	7742.4
47.5°	7917.1	7990.0	8145.5	8604.2	9252.9	10070.6	11189.5	11158.7	11297.0	11114.7	8339.4
50°	7001.6	6972.8	7272.2	7788.5	8625.3	9874.8	11164.5	11442.8	11740.3	11487.0	8606.1
52.5°	5243.5	5397.0	5654.2	6295.3	7489.1	8807.6	10619.5	11083.9	11325.7	11272.0	8391.2
55°	3314.6	3360.7	3516.1	4278.1	5352.9	7068.8	9103.2	10179.9	10611.7	10813.3	8193.4
57.5°	1610.3	1523.9	1714.0	2326.2	3091.9	4754.1	7020.8	8867.1	9805.6	10170.3	7763.5
60°	840.7	873.3	948.1	1166.9	1598.7	2468.2	4376.0	5909.5	7343.2	7903.6	5884.6
62.5°	696.7	708.2	758.2	867.5	1063.3	1420.3	2234.0	2880.8	3744.6	4249.3	3347.3
65°	591.1	596.9	650.7	723.6	848.3	999.9	1149.6	1203.4	1456.8	1495.1	1189.9
67.5°	493.2	499.0	556.6	625.7	706.3	746.6	785.0	781.1	810.0	798.4	796.5
70°	380.0	385.8	445.3	518.2	558.5	535.5	654.5	681.4	692.9	702.5	717.8
72.5°	274.4	285.9	332.0	383.8	362.7	416.5	539.3	579.6	595.0	600.7	619.9
75°	199.6	203.4	215.0	199.6	230.3	289.8	380.0	429.9	449.1	454.9	483.7
77.5°	88.3	90.2	92.1	115.1	147.8	180.4	226.5	266.8	293.7	301.3	309.0
80°	46.1	48.0	59.5	78.7	105.5	132.5	165.1	188.1	205.4	207.3	215.0
82.5°	28.8	30.7	42.2	55.7	74.8	97.9	120.9	140.1	153.6	155.5	157.4
85°	13.5	17.2	25.0	34.6	49.9	63.3	65.3	55.7	59.5	61.4	57.6
87.5°	3.9	5.7	7.7	5.7	7.7	7.7	9.6	11.5	11.5	11.5	13.5
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°	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2	2159.2
2.5°	2193.7	2176.5	2109.3	2084.3	2019.1	2030.6	1996.0	1994.2	1986.4	1984.5	1982.7
5°	2247.5	2193.7	2113.2	2051.7	2015.3	2011.4	1986.4	1986.4	1994.2	1999.9	1986.4
7.5°	2335.8	2274.4	2138.1	2080.5	2047.9	2042.1	2024.9	2011.4	2028.7	2022.9	2007.6
10°	2437.5	2330.0	2186.1	2136.1	2082.4	2069.0	2069.0	2074.7	2046.0	2055.6	2040.2
12.5°	2550.8	2406.8	2247.5	2189.9	2126.6	2118.9	2115.0	2072.8	2088.2	2080.5	2042.1
15°	2694.6	2495.1	2326.2	2228.3	2174.6	2140.0	2090.1	2082.4	2072.8	2053.6	2036.4
17.5°	2850.1	2591.0	2362.6	2239.8	2159.2	2134.3	2095.9	2055.6	2026.8	2030.6	2017.1
20°	2982.6	2679.3	2376.1	2251.4	2147.7	2099.7	2040.2	2015.3	1984.5	1982.7	1980.7
22.5°	3140.0	2798.3	2395.3	2220.7	2113.2	2063.2	2022.9	1978.8	1957.7	1930.8	1944.2
25°	3328.1	2844.4	2399.1	2203.3	2088.2	1999.9	1978.8	1930.8	1923.1	1884.8	1892.4
27.5°	3464.3	2869.3	2368.4	2149.6	2030.6	1963.4	1925.0	1890.5	1877.0	1848.3	1840.6
30°	3646.7	2907.8	2303.2	2082.4	1973.1	1898.1	1875.2	1867.4	1829.1	1798.4	1794.5
32.5°	3854.0	2932.7	2260.9	2013.4	1913.5	1855.9	1867.4	1831.0	1783.0	1756.2	1748.4
35°	4019.0	2942.2	2155.4	1934.6	1873.2	1836.7	1823.3	1815.6	1746.6	1721.6	1702.4
37.5°	4270.4	2921.1	2067.1	1879.0	1829.1	1815.6	1804.1	1752.3	1673.6	1637.2	1610.3
40°	4564.1	2915.4	1953.8	1800.3	1786.9	1802.2	1767.7	1687.0	1577.6	1537.3	1518.2
42.5°	4846.2	2955.7	1882.8	1758.1	1740.8	1746.6	1698.6	1577.6	1523.9	1500.8	1470.2
45°	5318.3	3040.1	1765.8	1692.8	1685.1	1681.3	1623.7	1497.1	1466.4	1437.5	1431.8
47.5°	5744.5	2984.5	1690.9	1625.7	1633.3	1612.2	1489.4	1449.0	1414.5	1385.7	1376.1
50°	5769.4	2852.1	1585.4	1573.8	1575.7	1539.3	1422.2	1395.3	1351.2	1332.0	1318.5
52.5°	5638.9	2635.2	1487.5	1491.3	1497.1	1437.5	1339.6	1320.5	1284.0	1257.1	1249.5
55°	5272.3	2297.4	1391.5	1406.8	1422.2	1308.9	1278.2	1230.3	1201.5	1163.1	1165.0
57.5°	4644.7	1850.2	1257.1	1282.1	1314.7	1189.9	1166.9	1107.4	1065.2	1034.5	1030.6
60°	3113.1	1316.7	1055.6	1065.2	1138.1	1088.3	1086.3	1026.9	969.3	942.3	927.0
62.5°	1836.7	1005.7	911.6	902.1	900.1	929.0	976.9	955.8	880.9	829.1	844.4
65°	961.6	869.4	848.3	815.7	796.5	788.9	825.3	834.9	785.0	729.3	725.5
67.5°	808.0	808.0	790.7	779.3	752.4	719.7	696.7	666.0	658.3	642.9	623.8
70°	735.1	754.3	748.5	721.7	698.6	662.1	602.7	552.8	504.8	487.5	499.0
72.5°	641.0	660.3	660.3	646.8	616.1	560.4	502.8	445.3	404.9	374.2	370.5
75°	493.2	502.8	525.9	510.6	470.2	435.6	376.2	316.7	278.3	249.5	243.7
77.5°	314.8	330.1	330.1	328.2	299.4	266.8	228.4	186.2	157.4	136.2	130.5
80°	209.2	218.8	226.5	218.8	199.6	174.7	145.8	117.1	96.0	78.7	74.8
82.5°	153.6	165.1	170.8	163.2	144.0	124.7	103.6	82.5	61.4	48.0	44.2
85°	59.5	61.4	69.1	82.5	80.7	78.7	63.3	46.1	34.6	25.0	23.0
87.5°	15.4	13.5	15.4	15.4	13.5	11.5	11.5	11.5	11.5	5.7	7.7
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)