

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: P527256

Luminaire Tested: **GALN-SA2B-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8885 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

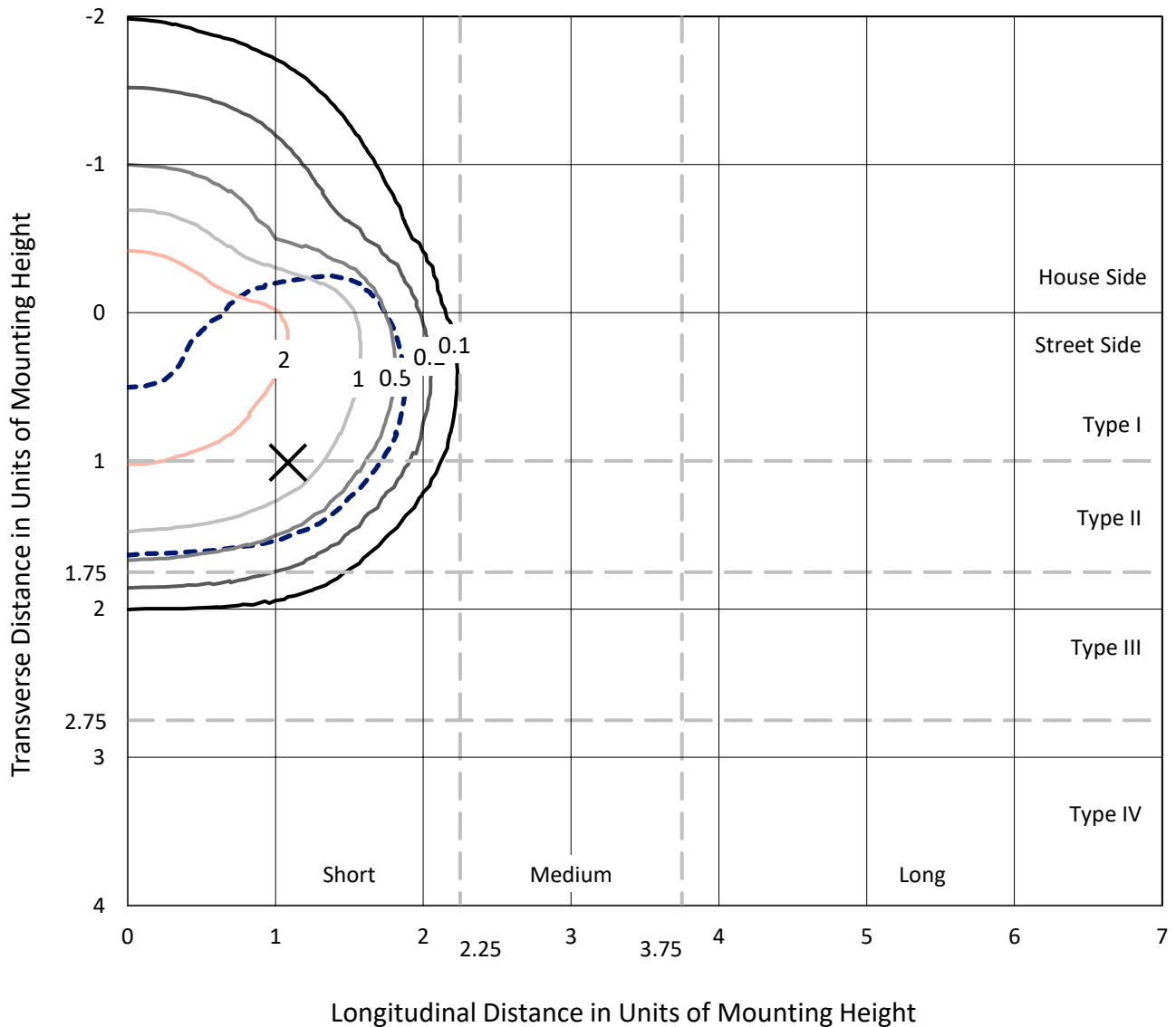
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

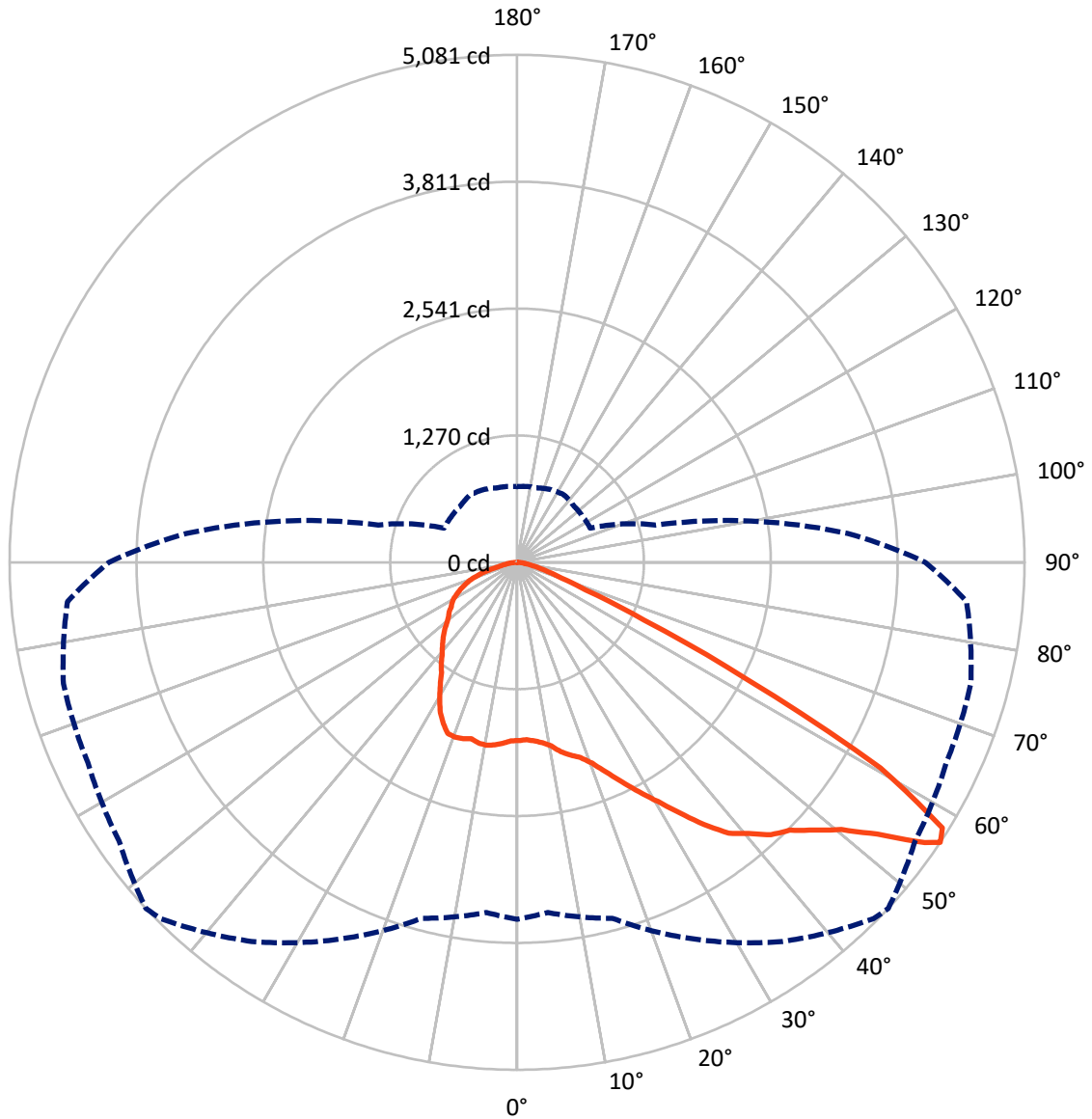
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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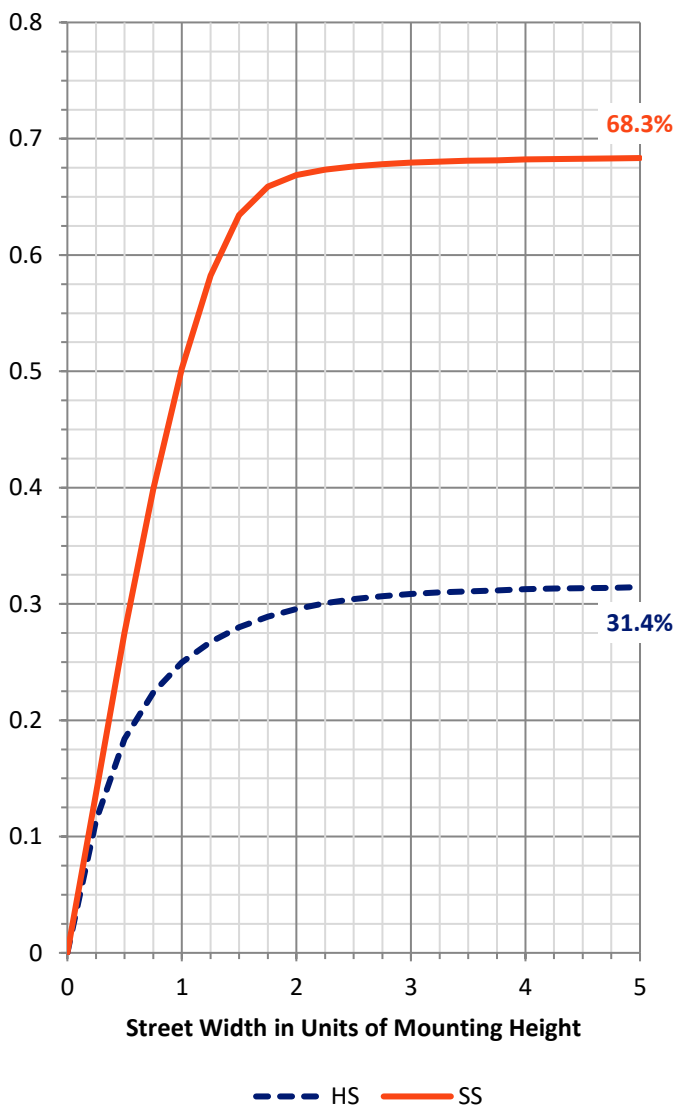
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2815.5	0.0	2815.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6069.4	0.0	6069.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	8885.0	0.0	8885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	2.0
10°-20°	548.6	6.2
20°-30°	969.7	10.9
30°-40°	1456.5	16.4
40°-50°	1998.9	22.5
50°-60°	2381.4	26.8
60°-70°	1019.1	11.5
70°-80°	288.4	3.2
80°-90°	48.5	0.5
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°	8885.0	100.0
0°-180°	8885.0	100.0

Coefficient of Utilization



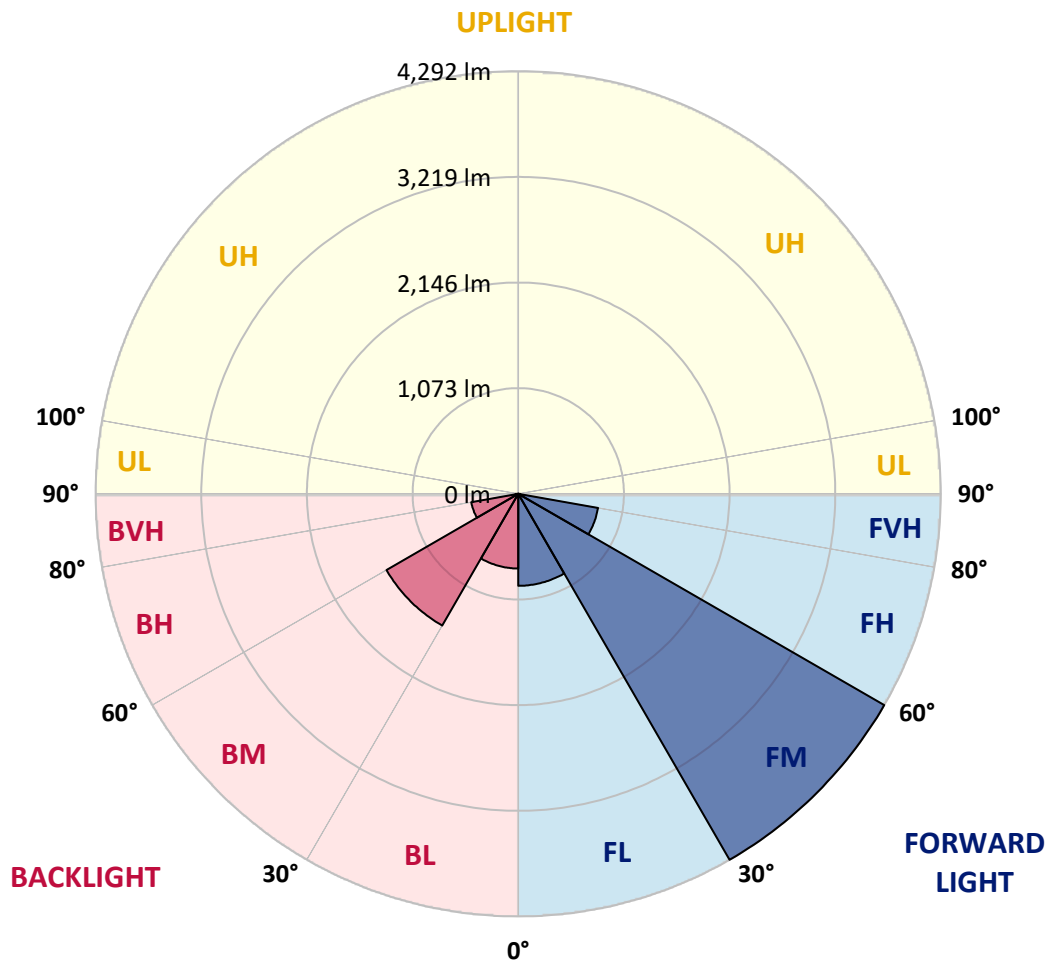
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.1	10.5			
FM (30°-60°)	4291.7	48.3			
FH (60°-80°)	823.1	9.3			G1/1800
FVH (80°-90°)	20.6	0.2			G1/100
BL (0°-30°)	758.1	8.5	B2/1000		
BM (30°-60°)	1545.1	17.4	B2/2500		
BH (60°-80°)	484.4	5.5	B1/500		G1/500
BVH (80°-90°)	27.9	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7
2.5°	1777.9	1774.5	1772.3	1790.4	1783.6	1784.7	1777.9	1784.7	1789.3	1779.1	1793.8
5°	1774.5	1784.7	1775.7	1781.3	1796.1	1791.5	1796.1	1809.7	1806.3	1802.9	1798.3
7.5°	1806.3	1807.4	1814.2	1816.5	1821.0	1816.5	1823.3	1835.7	1832.3	1813.1	1815.3
10°	1851.6	1853.8	1855.0	1867.4	1875.4	1876.5	1868.6	1857.2	1856.1	1882.2	1864.0
12.5°	1903.7	1898.0	1911.6	1916.2	1925.2	1935.4	1945.6	1921.8	1936.6	1937.7	1916.2
15°	1979.6	1985.3	1969.4	1969.4	1972.8	1974.0	2002.3	1991.0	1988.7	1976.2	1985.3
17.5°	2092.9	2054.4	2053.3	2037.4	2035.2	2044.2	2054.4	2063.5	2094.1	2069.1	2020.4
20°	2175.7	2184.7	2151.9	2132.6	2136.0	2156.4	2146.2	2187.0	2208.5	2167.7	2120.1
22.5°	2321.8	2291.2	2299.2	2256.1	2259.5	2281.1	2279.9	2321.8	2334.3	2269.7	2200.6
25°	2420.4	2412.5	2419.3	2385.3	2389.8	2406.8	2434.0	2503.1	2482.8	2411.4	2251.6
27.5°	2564.3	2548.5	2542.8	2530.3	2525.8	2571.1	2602.9	2676.5	2661.8	2557.5	2342.2
30°	2711.7	2701.5	2707.1	2656.1	2674.3	2770.6	2779.6	2880.5	2873.7	2690.1	2443.1
32.5°	2813.6	2819.3	2829.5	2801.2	2881.6	2958.7	2989.3	3103.7	3109.4	2917.9	2638.0
35°	2977.9	2958.7	2964.3	2997.2	3034.6	3175.1	3225.0	3300.9	3348.5	3157.0	2825.0
37.5°	3081.1	3101.5	3077.7	3129.8	3227.2	3396.1	3441.4	3519.6	3569.5	3392.7	3079.9
40°	3242.0	3209.1	3226.1	3263.5	3363.2	3583.1	3570.6	3651.0	3666.9	3593.2	3317.9
42.5°	3415.3	3399.5	3375.7	3460.7	3544.5	3704.3	3729.2	3691.8	3772.3	3789.3	3657.8
45°	3622.7	3642.0	3645.4	3647.6	3721.3	3860.7	3826.7	3793.8	3886.7	4010.3	3868.6
47.5°	3815.3	3754.2	3798.4	3859.5	3963.8	3964.9	4004.6	3926.4	4025.0	4134.9	4059.0
50°	3879.9	3850.5	3909.4	4025.0	4185.9	4202.9	4207.4	4096.4	4147.4	4234.6	4124.7
52.5°	3855.0	3844.8	3995.5	4174.6	4410.3	4496.4	4519.0	4381.9	4410.3	4370.6	4269.7
55°	3736.0	3766.6	3918.5	4283.3	4644.8	4911.1	4954.2	4780.8	4600.6	4631.2	4520.2
56°	3572.9	3519.6	3689.6	4159.8	4634.6	5046.0	5081.1	4864.7	4742.3	4702.6	4517.9
57.5°	3031.2	2962.1	3185.3	3742.8	4377.4	4995.0	5021.0	4899.8	4718.5	4638.0	4188.2
60°	1774.5	1808.5	2091.8	2581.3	3376.8	4095.2	4182.5	4270.9	4149.6	3789.3	3117.3
62.5°	856.7	835.1	1038.0	1479.9	2057.8	2614.2	2588.1	2836.3	2972.3	2692.4	1968.3
65°	448.7	446.5	566.6	807.9	1130.9	1373.4	1397.2	1530.9	1717.9	1387.0	999.4
67.5°	329.7	338.8	398.9	567.7	727.5	742.2	738.8	805.7	823.8	696.9	614.2
70°	258.4	262.9	307.1	431.7	541.7	485.0	474.8	482.7	536.0	558.6	531.5
72.5°	187.0	191.5	228.9	291.2	338.8	330.9	337.7	381.9	447.6	471.4	443.1
75°	124.6	128.0	148.4	177.9	200.6	216.4	228.9	279.9	341.1	354.7	341.1
77.5°	86.1	89.5	103.1	125.8	128.0	138.2	142.8	166.6	204.0	221.0	211.9
80°	48.7	48.7	55.5	64.6	79.3	92.9	95.2	114.4	131.4	142.8	145.0
82.5°	22.7	23.8	29.5	39.7	52.1	64.6	66.9	79.3	91.8	103.1	106.5
85°	11.3	12.5	17.0	23.8	31.7	38.5	37.4	38.5	40.8	38.5	39.7
87.5°	3.4	3.4	4.5	5.7	4.5	5.7	5.7	6.8	7.9	9.1	10.2
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°	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7	1784.7
2.5°	1794.9	1798.3	1775.7	1797.2	1789.3	1788.1	1804.0	1801.7	1807.4	1805.1	1791.5
5°	1796.1	1788.1	1811.9	1790.4	1800.6	1822.1	1807.4	1841.4	1824.4	1835.7	1810.8
7.5°	1831.2	1833.5	1828.9	1838.0	1833.5	1843.7	1835.7	1843.7	1830.1	1831.2	1853.8
10°	1861.8	1855.0	1862.9	1851.6	1859.5	1856.1	1838.0	1832.3	1836.9	1831.2	1845.9
12.5°	1918.4	1906.0	1900.3	1886.7	1877.6	1843.7	1815.3	1799.5	1821.0	1824.4	1817.6
15°	1976.2	1977.4	1951.3	1920.7	1864.0	1813.1	1819.9	1825.5	1825.5	1834.6	1817.6
17.5°	2012.5	2012.5	1988.7	1927.5	1869.7	1840.3	1833.5	1815.3	1799.5	1797.2	1796.1
20°	2075.9	2056.7	2002.3	1926.4	1867.4	1853.8	1802.9	1759.8	1726.9	1715.6	1714.5
22.5°	2148.5	2099.7	2023.8	1928.6	1864.0	1844.8	1749.6	1685.0	1626.1	1601.2	1604.6
25°	2215.3	2137.1	2036.3	1918.4	1851.6	1758.7	1652.1	1562.6	1501.4	1481.0	1470.8
27.5°	2261.8	2176.8	2036.3	1927.5	1805.1	1662.3	1553.6	1439.1	1385.9	1372.3	1374.5
30°	2324.1	2226.7	2071.4	1908.2	1712.2	1537.7	1407.4	1332.6	1300.9	1289.5	1297.5
32.5°	2470.3	2357.0	2120.1	1861.8	1602.3	1413.1	1307.7	1265.7	1219.3	1196.6	1188.7
35°	2628.9	2480.5	2167.7	1783.6	1478.8	1299.7	1234.0	1195.5	1140.0	1115.0	1119.6
37.5°	2853.3	2639.1	2171.1	1654.4	1345.1	1236.3	1176.2	1116.2	1070.8	1032.3	1021.0
40°	3155.8	2855.6	2163.2	1518.4	1237.4	1161.5	1117.3	1042.5	991.5	964.3	970.0
42.5°	3422.1	3109.4	2130.3	1364.3	1140.0	1110.5	1060.6	987.0	937.1	908.8	906.5
45°	3646.5	3296.4	2068.0	1232.9	1058.4	1053.8	996.0	939.4	899.7	873.7	885.0
47.5°	3853.9	3447.1	1974.0	1101.4	983.6	992.6	937.1	902.0	877.1	853.3	852.1
50°	3928.7	3444.8	1891.2	992.6	923.5	919.0	916.7	879.3	853.3	832.9	841.9
52.5°	4053.3	3483.3	1801.7	917.9	869.1	870.3	878.2	851.0	821.5	809.1	820.4
55°	4232.4	3489.0	1604.6	830.6	823.8	831.7	831.7	813.6	788.7	778.5	772.8
56°	4086.2	3320.2	1439.1	807.9	801.1	801.1	822.7	802.3	771.7	763.7	757.0
57.5°	3768.9	2908.8	1204.5	780.7	770.5	786.4	797.7	776.2	747.9	736.6	743.4
60°	2599.5	1968.3	905.4	721.8	721.8	747.9	757.0	725.2	712.8	711.6	702.6
62.5°	1517.3	1146.8	708.2	668.6	670.8	692.4	699.2	681.0	665.2	684.4	693.5
65°	804.5	684.4	607.4	611.9	613.0	630.0	659.5	658.4	657.2	662.9	664.0
67.5°	582.4	568.8	551.8	547.3	549.6	562.0	591.5	614.2	613.0	599.4	589.2
70°	519.0	499.7	489.5	490.7	481.6	496.3	520.1	534.9	508.8	492.9	486.1
72.5°	431.7	426.1	419.3	420.4	402.3	398.9	371.7	371.7	364.9	360.3	368.3
75°	329.7	327.5	330.9	325.2	306.0	285.6	269.7	255.0	232.3	223.2	218.7
77.5°	208.5	215.3	223.2	210.8	202.8	188.1	172.2	157.5	139.4	129.2	129.2
80°	141.6	147.3	153.0	150.7	141.6	128.0	115.6	99.7	87.3	79.3	78.2
82.5°	107.7	112.2	120.1	111.0	102.0	90.7	80.5	69.1	57.8	48.7	48.7
85°	38.5	44.2	48.7	53.3	56.7	57.8	49.9	40.8	32.9	26.1	24.9
87.5°	10.2	11.3	12.5	11.3	11.3	11.3	12.5	11.3	10.2	7.9	7.9
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)