

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: P646867

Luminaire Tested: **GALN-SA3C-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P646867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16445.4 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

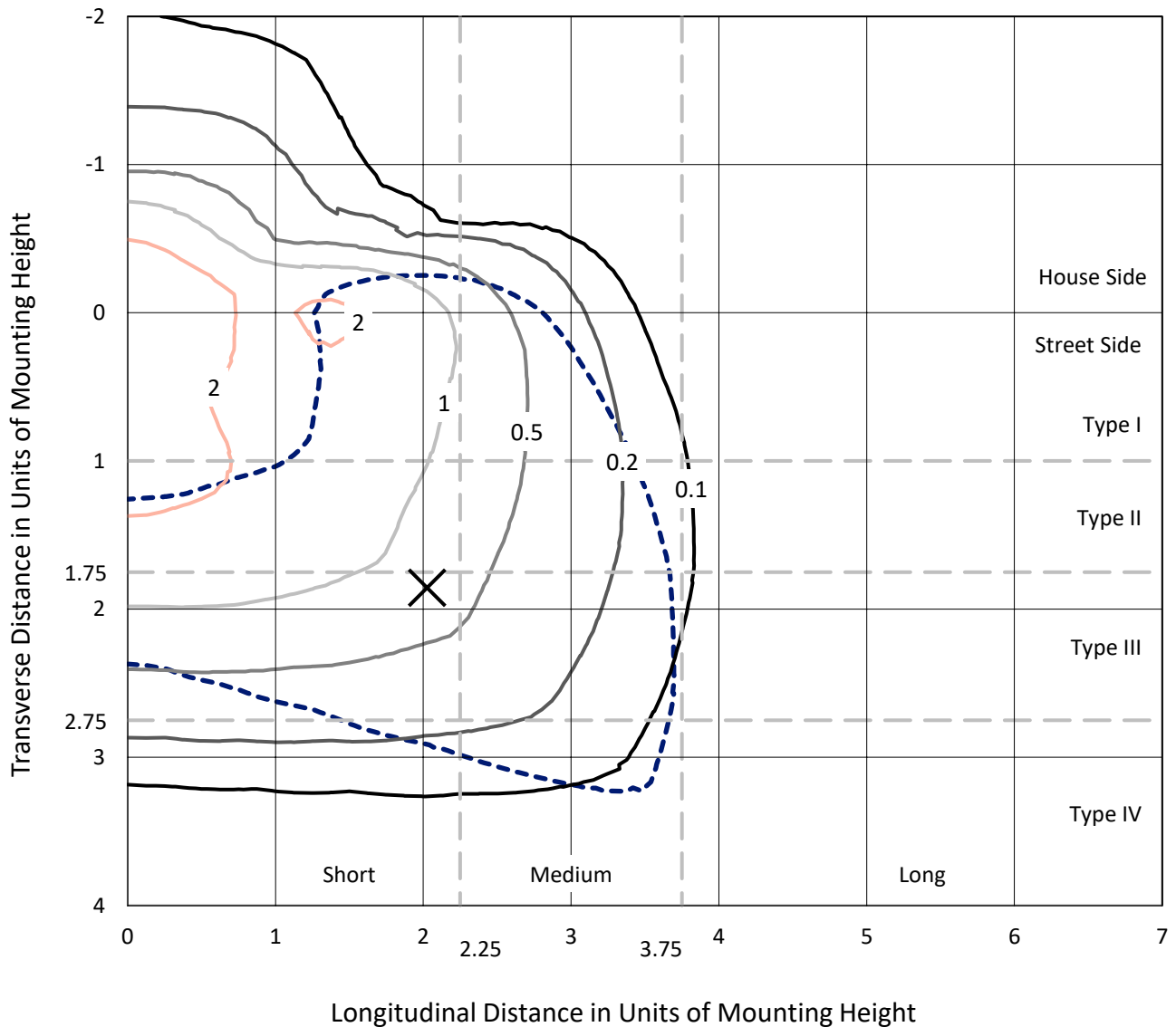
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

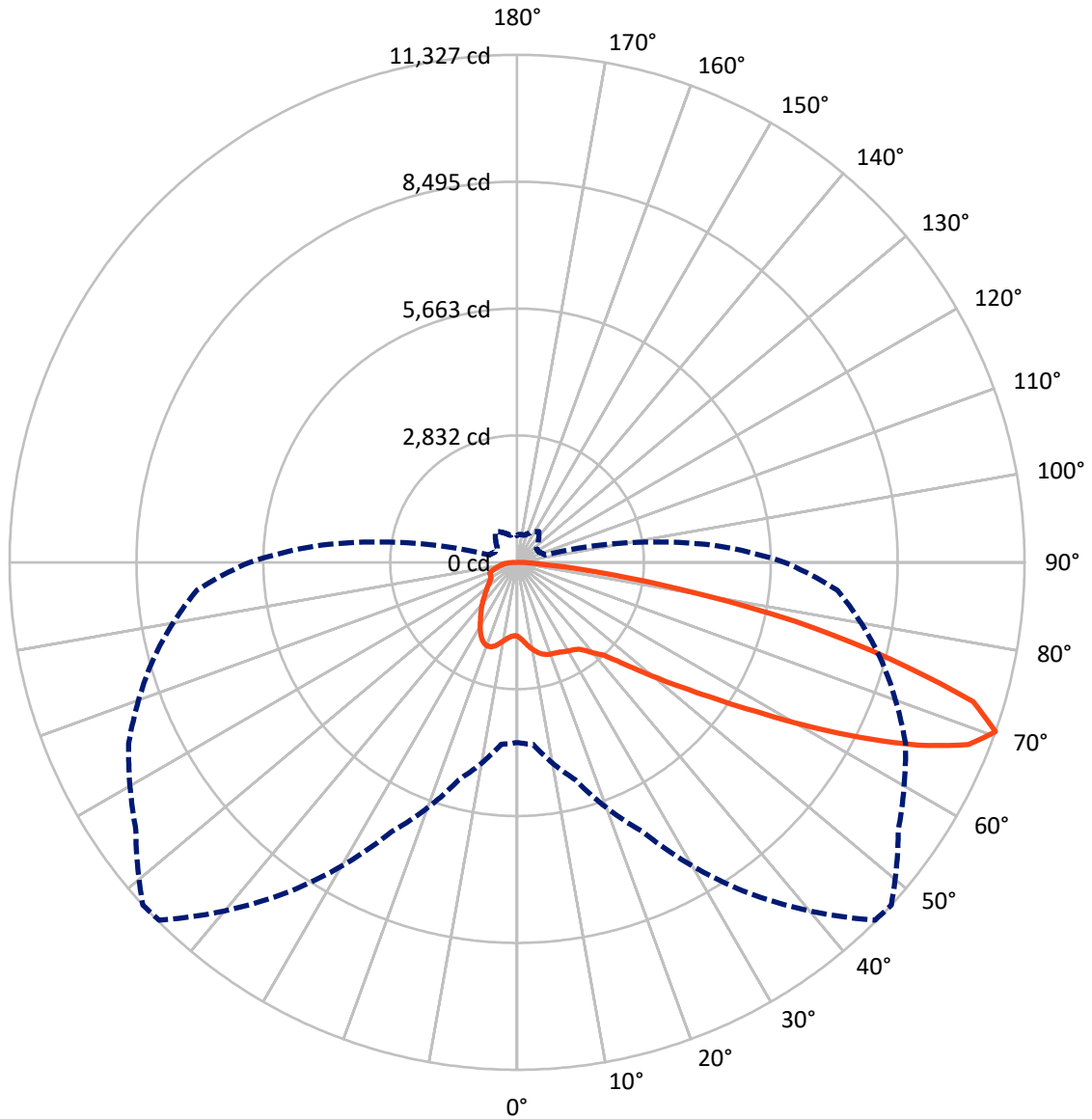
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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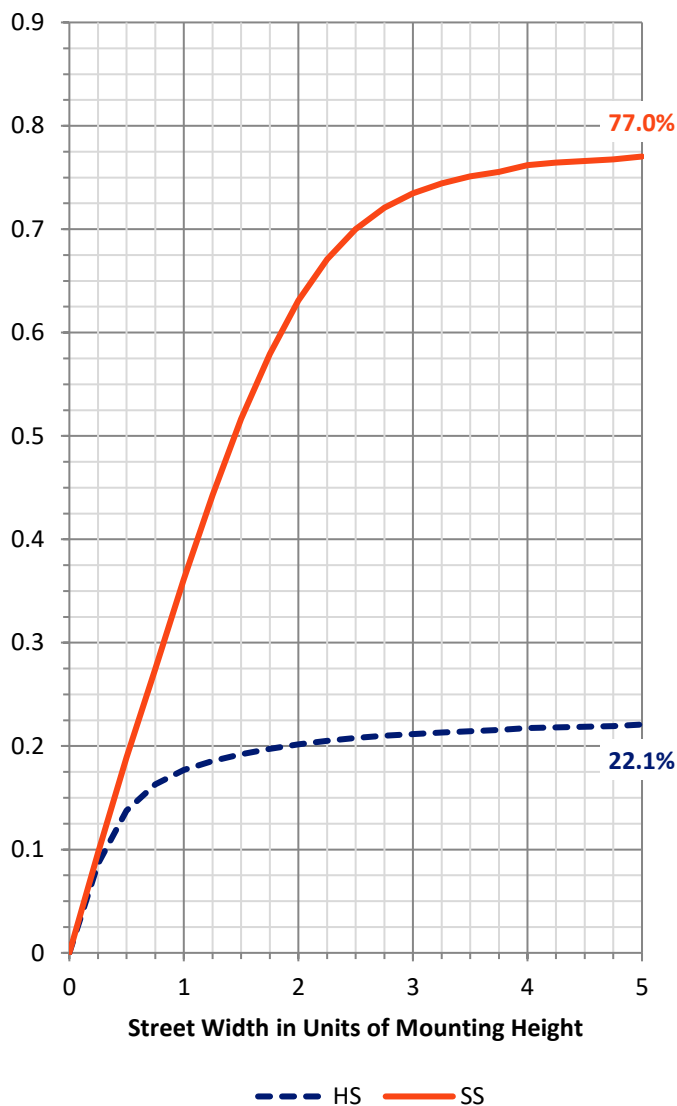
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3723.5	0.0	3723.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12721.8	0.0	12721.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	16445.4	0.0	16445.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.0
10°-20°	568.9	3.5
20°-30°	946.1	5.8
30°-40°	1340.9	8.2
40°-50°	1979.5	12.0
50°-60°	3428.6	20.8
60°-70°	4843.0	29.4
70°-80°	2784.0	16.9
80°-90°	384.1	2.3
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°	16445.4	100.0
0°-180°	16445.4	100.0

Coefficient of Utilization



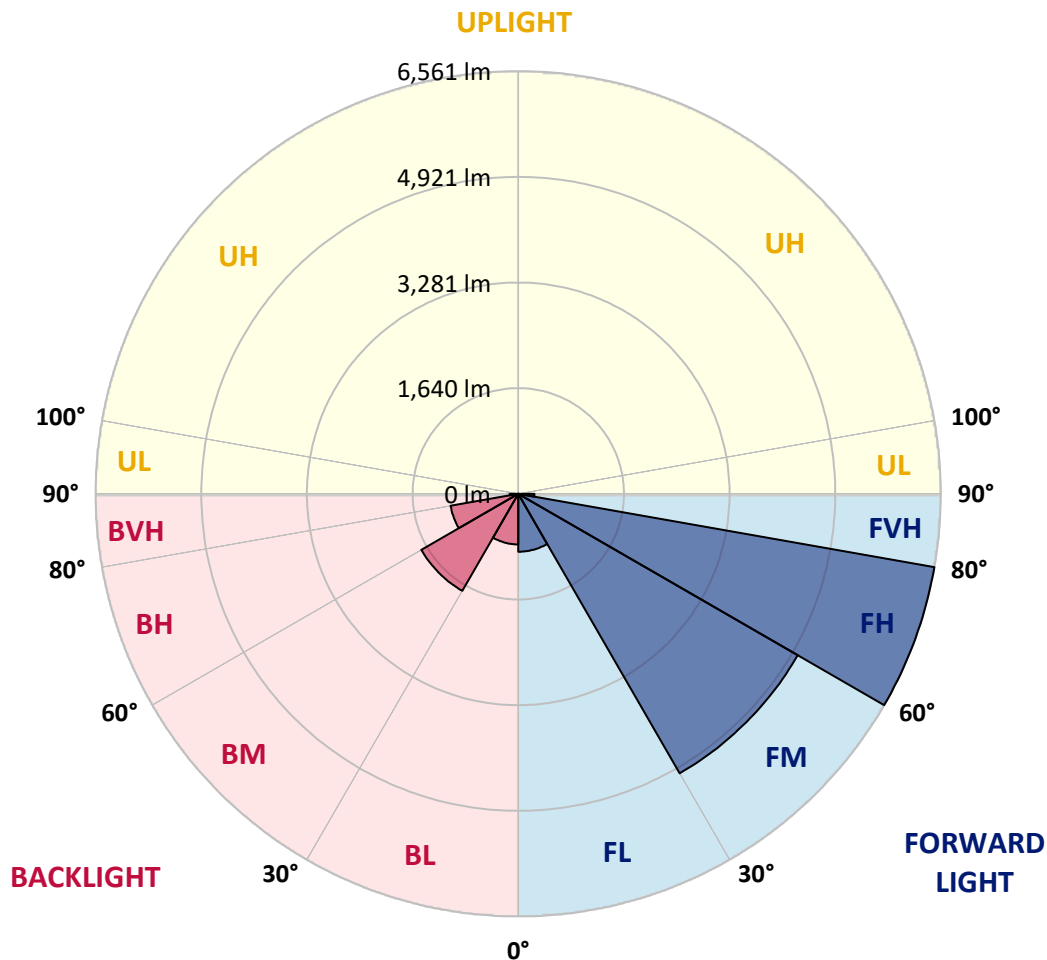
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.3	5.5			
FM (30°-60°)	5010.6	30.5			
FH (60°-80°)	6561.0	39.9			G3/7500
FVH (80°-90°)	250.9	1.5			G3/500
BL (0°-30°)	785.9	4.8	B2/1000		
BM (30°-60°)	1738.5	10.6	B2/2500		
BH (60°-80°)	1066.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	133.2	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9
2.5°	1757.4	1751.3	1750.3	1737.2	1730.1	1716.9	1711.6	1699.3	1684.4	1669.4	1655.3
5°	1895.6	1895.6	1889.4	1870.9	1841.9	1811.9	1798.8	1775.0	1732.8	1698.4	1669.4
7.5°	2037.2	2039.0	2026.7	1999.4	1958.0	1909.7	1897.3	1862.1	1802.3	1752.1	1709.0
10°	2159.6	2159.6	2142.8	2105.9	2054.0	2001.2	1988.8	1949.3	1882.3	1819.8	1763.6
12.5°	2252.8	2252.8	2230.8	2182.5	2126.2	2078.6	2064.5	2026.7	1964.2	1894.7	1823.4
15°	2313.6	2309.1	2284.6	2230.0	2175.4	2134.1	2124.4	2092.6	2035.5	1965.1	1885.0
17.5°	2316.2	2314.5	2290.7	2244.9	2197.4	2169.2	2163.1	2142.0	2097.1	2030.2	1945.8
20°	2265.1	2268.7	2252.8	2220.3	2197.4	2185.1	2182.5	2175.4	2143.7	2081.2	1996.7
22.5°	2210.6	2216.8	2201.8	2184.2	2182.5	2194.7	2196.5	2198.3	2178.1	2117.3	2039.9
25°	2197.4	2201.8	2186.8	2171.0	2180.7	2213.2	2220.3	2227.3	2211.5	2160.5	2090.9
27.5°	2264.3	2260.8	2231.7	2197.4	2203.6	2247.6	2257.2	2265.1	2257.2	2213.2	2154.3
30°	2453.5	2442.0	2384.0	2283.6	2252.0	2282.8	2292.5	2314.5	2314.5	2281.9	2222.9
32.5°	2770.3	2748.3	2641.8	2444.7	2334.7	2316.2	2325.9	2362.0	2380.5	2355.0	2290.7
35°	3154.9	3132.0	2979.7	2714.9	2486.0	2383.1	2380.5	2421.0	2470.2	2413.0	2329.4
37.5°	3541.2	3517.5	3334.4	3036.9	2706.9	2523.9	2508.0	2522.1	2543.3	2438.5	2383.1
40°	3927.5	3899.3	3739.2	3396.9	2977.1	2710.4	2669.1	2605.7	2596.9	2522.1	2487.0
42.5°	4310.3	4284.8	4203.8	3800.8	3301.0	2892.6	2829.3	2720.1	2753.6	2708.7	2677.9
45°	4696.7	4698.4	4612.2	4254.0	3691.7	3228.8	3143.4	2972.7	3051.9	3035.2	3052.8
47.5°	5039.0	5034.6	5003.8	4694.0	4176.6	3661.8	3551.8	3353.7	3489.3	3550.9	3685.5
50°	5370.8	5368.1	5369.9	5193.0	4739.8	4176.6	4055.2	3847.4	4152.8	4366.6	4607.8
52.5°	5846.0	5860.9	5754.4	5707.8	5424.5	4784.7	4650.9	4436.2	4936.9	5274.0	5744.8
55°	6323.0	6310.6	6227.0	6275.4	6140.8	5504.5	5364.6	5193.9	5809.9	6178.6	6886.2
57.5°	6603.7	6608.1	6693.4	6930.2	7025.2	6402.1	6275.4	6143.4	6791.1	7052.5	7901.7
60°	6856.3	6876.5	7122.0	7569.0	7826.9	7504.8	7392.1	7263.7	7691.3	7795.2	8783.5
62.5°	6935.4	6997.9	7426.4	8095.3	8608.4	8749.2	8609.2	8325.9	8548.5	8508.0	9381.0
65°	6540.3	6625.7	7393.9	8292.4	9306.2	9930.2	9841.2	9315.0	9278.9	9035.1	9478.7
67.5°	5500.1	5585.5	6572.0	7878.8	9594.9	10952.7	10863.8	10036.7	9722.4	9084.4	8739.5
70°	4024.3	4078.0	5021.4	6633.6	9014.9	11295.9	11326.7	10388.6	9564.0	8414.7	7175.6
72.5°	2318.9	2437.6	3098.6	4666.8	7364.9	10428.2	10642.1	9656.4	8562.6	7019.9	5017.0
75°	997.1	999.7	1432.7	2574.0	4987.9	8382.2	8589.0	8004.7	6724.2	4854.2	2678.8
77.5°	474.3	483.1	630.1	1149.3	2745.7	5791.4	6349.3	5655.0	4300.6	2332.1	1012.0
80°	308.0	314.1	385.5	570.3	1346.4	3358.1	3747.1	3262.2	1897.3	833.3	436.5
82.5°	186.6	188.3	257.8	348.5	741.0	1520.7	1792.6	1416.0	809.6	499.0	257.0
85°	113.5	114.4	156.7	215.6	449.7	525.4	539.5	535.0	475.2	326.5	137.3
87.5°	54.6	56.3	81.0	102.1	176.9	162.8	154.0	178.7	224.4	176.0	59.0
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°	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9	1650.9
2.5°	1649.2	1646.5	1640.4	1637.7	1635.9	1636.9	1635.9	1635.9	1636.9	1636.9	1636.9
5°	1657.1	1652.7	1643.0	1643.0	1648.3	1660.6	1672.0	1680.9	1690.5	1689.6	1689.6
7.5°	1691.4	1683.4	1672.0	1675.5	1688.8	1708.1	1728.4	1747.7	1767.1	1768.9	1767.9
10°	1741.5	1733.6	1721.3	1725.7	1746.9	1775.8	1801.4	1829.6	1850.7	1856.8	1855.1
12.5°	1798.8	1782.9	1772.3	1784.7	1818.1	1856.8	1881.5	1902.6	1917.6	1926.3	1922.8
15°	1856.8	1841.9	1829.6	1855.1	1895.6	1931.7	1944.0	1947.5	1950.1	1958.9	1957.2
17.5°	1913.2	1892.9	1888.5	1922.0	1960.7	1976.5	1969.5	1954.5	1943.1	1950.1	1949.3
20°	1963.3	1947.5	1945.8	1979.2	1994.1	1979.2	1949.3	1922.8	1902.6	1904.3	1903.5
22.5°	2010.8	1998.5	2000.3	2014.3	1990.6	1939.6	1890.3	1854.2	1832.2	1836.6	1839.3
25°	2063.7	2051.3	2055.7	2032.8	1954.5	1865.7	1794.3	1763.6	1754.8	1763.6	1769.7
27.5°	2132.3	2124.4	2121.7	2033.7	1890.3	1756.5	1675.5	1664.1	1672.0	1691.4	1701.1
30°	2206.2	2206.2	2192.2	2018.7	1802.3	1625.4	1555.0	1556.8	1584.0	1611.3	1621.0
32.5°	2277.5	2292.5	2248.5	1978.2	1688.8	1497.8	1444.1	1445.9	1469.6	1503.0	1511.9
35°	2336.5	2379.5	2296.9	1904.3	1555.0	1390.5	1350.0	1326.2	1327.1	1352.6	1359.6
37.5°	2417.4	2497.5	2325.0	1794.3	1412.5	1298.9	1253.1	1211.8	1184.5	1174.0	1174.0
40°	2558.2	2676.1	2332.1	1631.5	1277.8	1211.8	1146.7	1097.4	1044.6	997.1	988.2
42.5°	2796.7	2945.4	2318.0	1444.1	1156.3	1115.9	1052.5	991.7	918.8	851.8	846.6
45°	3219.1	3295.6	2280.1	1249.6	1048.1	1023.5	961.8	895.8	818.4	758.6	754.2
47.5°	3895.8	3787.6	2230.0	1077.2	949.5	942.5	895.0	818.4	741.0	699.6	695.2
50°	4884.1	4562.0	2222.9	952.2	870.3	873.8	835.1	764.8	696.9	662.7	657.4
52.5°	6073.9	5497.4	2269.6	864.2	800.9	814.0	794.7	729.5	669.7	640.7	635.4
55°	7228.5	6338.8	2297.7	795.5	735.7	760.4	763.0	708.4	653.9	624.8	621.3
57.5°	8165.7	6972.4	2172.7	733.0	679.4	717.2	736.6	696.1	645.9	623.9	620.4
60°	8817.8	7271.6	1817.3	677.6	638.0	682.9	726.9	696.9	665.3	667.9	669.7
62.5°	9025.5	7138.7	1363.1	636.3	609.9	671.4	742.8	733.0	700.5	720.8	724.3
65°	8681.4	6589.6	988.2	603.7	585.2	679.4	790.3	759.4	688.2	703.1	703.1
67.5°	7529.4	5677.0	769.1	573.8	557.0	694.4	837.8	756.8	659.1	676.7	660.9
70°	5972.7	4391.3	640.7	540.3	527.1	672.4	842.2	729.5	624.8	628.4	598.4
72.5°	3963.6	2887.3	550.9	508.6	481.4	604.6	806.1	694.4	591.4	571.1	541.2
75°	1942.2	1439.7	480.5	469.0	421.6	526.3	756.8	660.9	555.3	523.6	506.9
77.5°	752.4	612.5	410.1	418.9	367.0	463.8	691.7	613.4	507.8	464.6	451.5
80°	365.2	347.6	336.1	349.4	301.8	395.1	631.9	572.0	463.8	416.2	396.9
82.5°	227.1	214.7	257.8	271.9	232.3	360.8	599.3	536.8	408.3	345.0	329.1
85°	115.3	123.2	172.5	185.6	166.3	286.9	493.7	403.0	294.8	244.6	246.4
87.5°	44.0	59.0	90.7	97.7	88.9	151.4	271.9	235.0	189.2	128.5	118.8
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)