

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: P648407

Luminaire Tested: **GALN-SA4B-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648407
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-SA4B-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17637.9 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

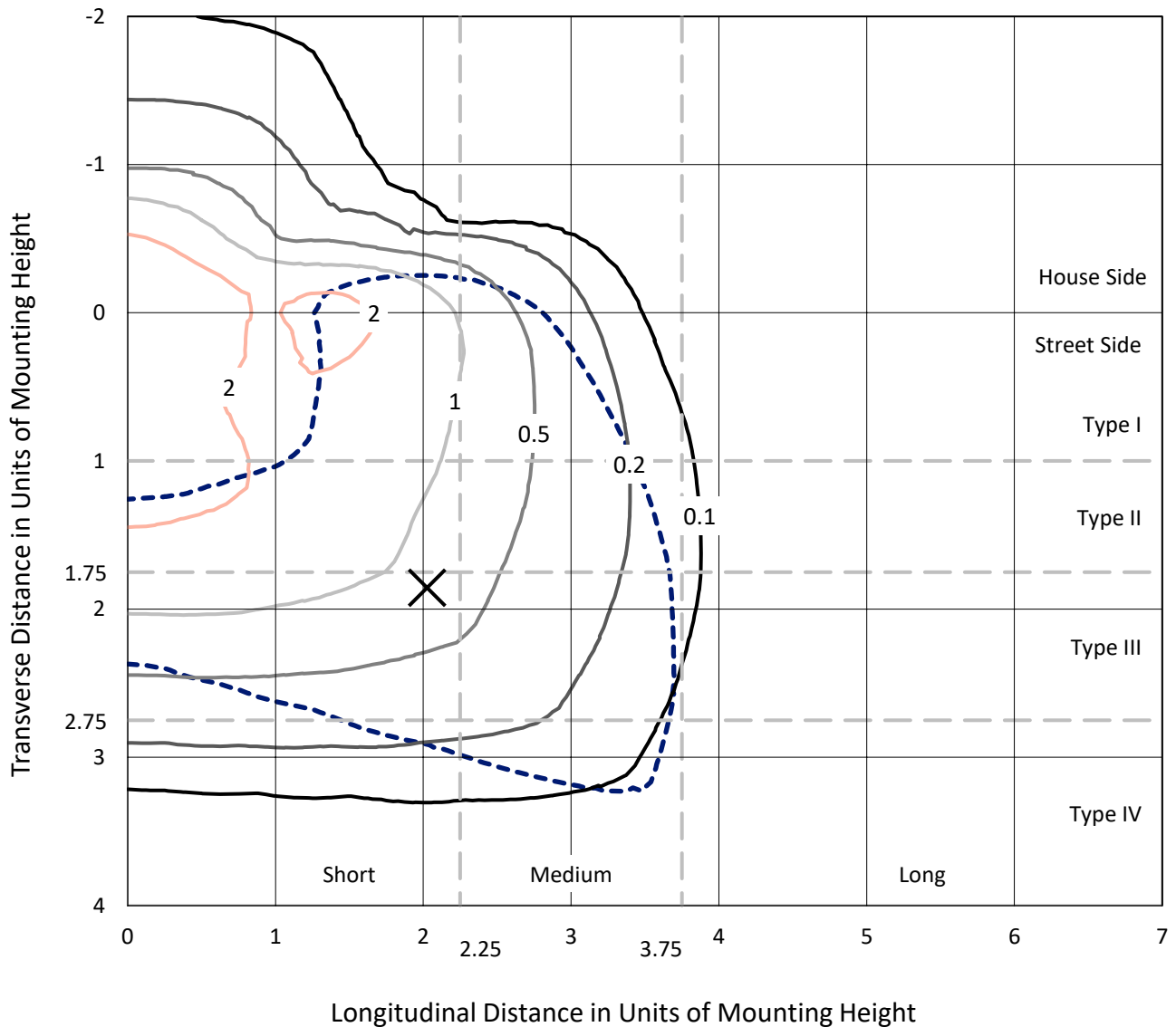
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

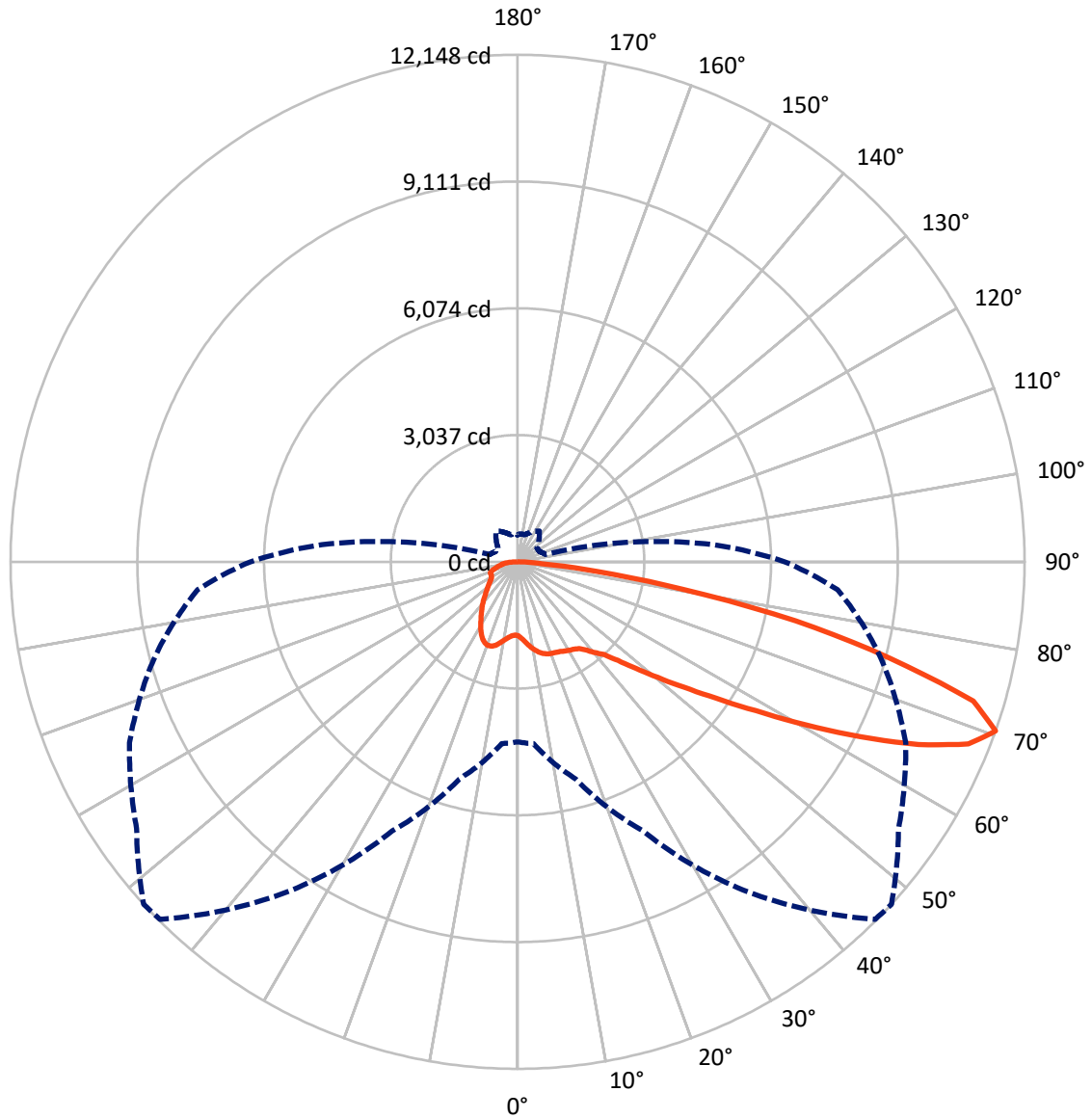
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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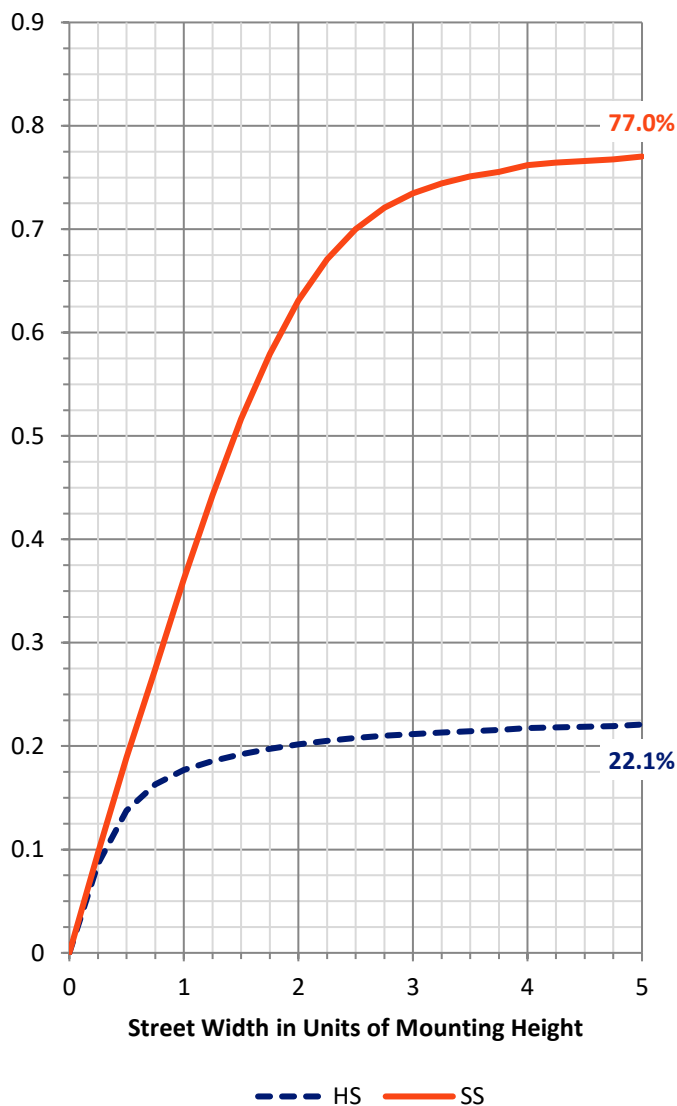
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3993.6	0.0	3993.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13644.3	0.0	13644.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	17637.9	0.0	17637.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	1.0
10°-20°	610.2	3.5
20°-30°	1014.7	5.8
30°-40°	1438.2	8.2
40°-50°	2123.0	12.0
50°-60°	3677.2	20.8
60°-70°	5194.2	29.4
70°-80°	2985.9	16.9
80°-90°	412.0	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°	17637.9	100.0
0°-180°	17637.9	100.0

Coefficient of Utilization

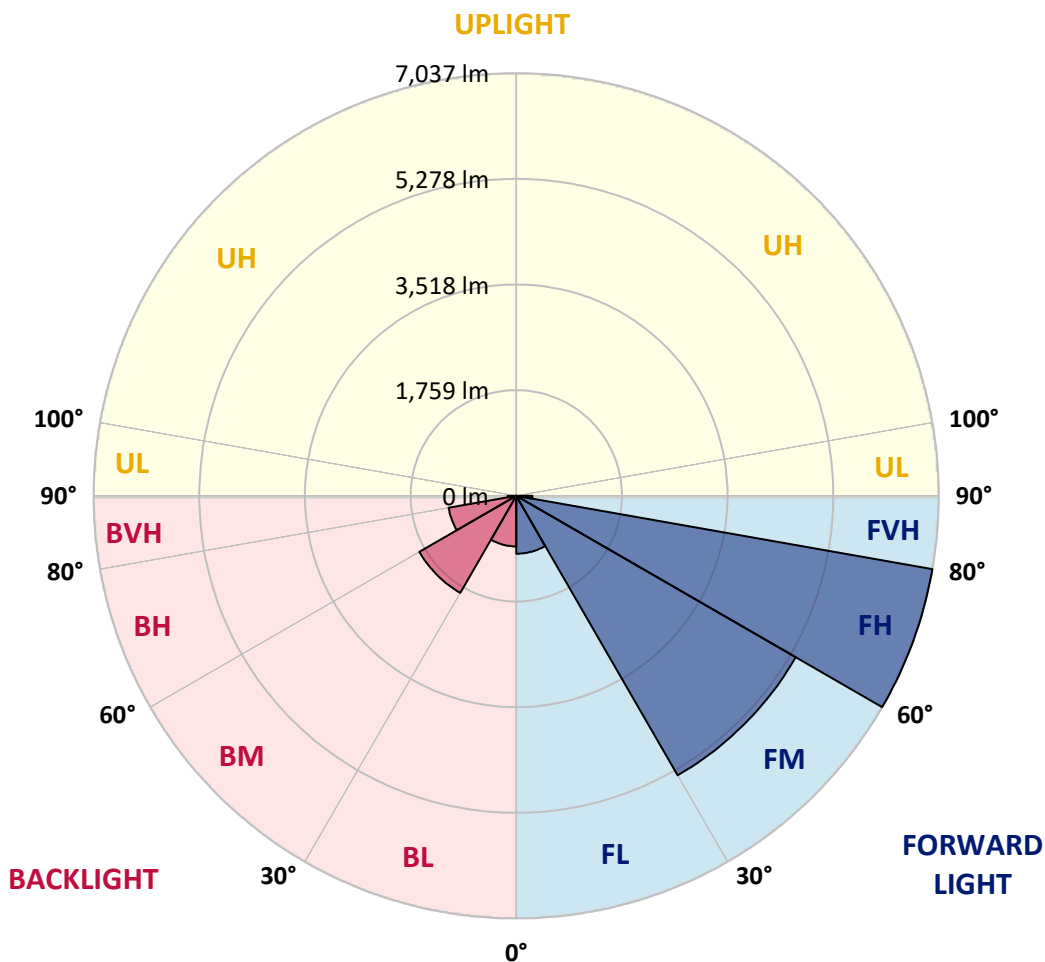


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.5	5.5			
FM (30°-60°)	5373.9	30.5			
FH (60°-80°)	7036.8	39.9			G3/7500
FVH (80°-90°)	269.1	1.5			G3/500
BL (0°-30°)	842.9	4.8	B2/1000		
BM (30°-60°)	1864.5	10.6	B2/2500		
BH (60°-80°)	1143.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	142.9	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°	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6
2.5°	1884.8	1878.3	1877.3	1863.1	1855.6	1841.4	1835.7	1822.5	1806.5	1790.5	1775.4
5°	2033.0	2033.0	2026.4	2006.6	1975.4	1943.3	1929.2	1903.7	1858.4	1821.6	1790.5
7.5°	2185.0	2186.8	2173.6	2144.4	2100.0	2048.1	2034.9	1997.1	1933.0	1879.2	1832.9
10°	2316.2	2316.2	2298.3	2258.6	2202.9	2146.3	2133.0	2090.6	2018.9	1951.9	1891.4
12.5°	2416.2	2416.2	2392.6	2340.7	2280.3	2229.4	2214.2	2173.6	2106.7	2032.0	1955.6
15°	2481.3	2476.6	2450.2	2391.7	2333.2	2288.8	2278.4	2244.5	2183.1	2107.6	2021.7
17.5°	2484.1	2482.3	2456.8	2407.7	2356.8	2326.5	2320.0	2297.3	2249.2	2177.4	2086.8
20°	2429.4	2433.2	2416.2	2381.3	2356.8	2343.5	2340.7	2333.2	2299.2	2232.2	2141.6
22.5°	2370.9	2377.5	2361.4	2342.6	2340.7	2353.9	2355.8	2357.7	2336.0	2270.9	2187.8
25°	2356.8	2361.4	2345.4	2328.4	2338.8	2373.7	2381.3	2388.9	2371.9	2317.1	2242.5
27.5°	2428.5	2424.7	2393.6	2356.8	2363.3	2410.5	2421.0	2429.4	2421.0	2373.7	2310.5
30°	2631.4	2619.1	2556.8	2449.2	2415.2	2448.3	2458.7	2482.3	2482.3	2447.3	2384.2
32.5°	2971.2	2947.6	2833.4	2622.0	2504.0	2484.1	2494.6	2533.2	2553.0	2525.7	2456.8
35°	3383.7	3359.1	3195.8	2911.7	2666.3	2555.9	2553.0	2596.5	2649.4	2588.0	2498.3
37.5°	3797.9	3772.5	3576.2	3257.2	2903.2	2706.9	2689.9	2705.0	2727.7	2615.4	2555.9
40°	4212.3	4182.1	4010.4	3643.2	3193.0	2907.0	2862.6	2794.7	2785.2	2705.0	2667.3
42.5°	4622.9	4595.5	4508.7	4076.4	3540.3	3102.4	3034.4	2917.4	2953.2	2905.1	2872.0
45°	5037.2	5039.2	4946.6	4562.5	3959.4	3462.9	3371.4	3188.3	3273.2	3255.2	3274.1
47.5°	5404.3	5399.6	5366.6	5034.4	4479.5	3927.3	3809.3	3596.9	3742.3	3808.4	3952.7
50°	5760.2	5757.4	5759.3	5569.6	5083.5	4479.5	4349.2	4126.4	4453.9	4683.3	4941.9
52.5°	6269.9	6285.9	6171.7	6121.7	5817.8	5131.6	4988.2	4757.8	5294.9	5656.4	6161.3
55°	6781.4	6768.3	6678.5	6730.4	6586.0	5903.7	5753.6	5570.5	6231.2	6626.6	7385.5
57.5°	7082.5	7087.2	7178.8	7432.7	7534.6	6866.4	6730.4	6588.9	7283.5	7563.9	8474.6
60°	7353.4	7375.1	7638.4	8117.9	8394.5	8049.0	7928.2	7790.4	8249.1	8360.5	9420.4
62.5°	7438.3	7505.4	7965.0	8682.3	9232.6	9383.6	9233.5	8929.6	9168.4	9125.0	10061.2
65°	7014.6	7106.1	7930.1	8893.7	9981.1	10650.2	10554.8	9990.5	9951.8	9690.3	10166.0
67.5°	5899.0	5990.5	7048.6	8450.1	10290.6	11747.0	11651.6	10764.4	10427.4	9743.2	9373.2
70°	4316.1	4373.7	5385.5	7114.6	9668.6	12115.0	12148.1	11141.9	10257.5	9024.9	7696.0
72.5°	2487.0	2614.4	3323.2	5005.2	7898.9	11184.4	11413.8	10356.7	9183.5	7528.9	5380.8
75°	1069.3	1072.2	1536.6	2760.7	5349.6	8990.0	9211.8	8585.1	7211.8	5206.2	2873.1
77.5°	508.7	518.2	675.8	1232.7	2944.8	6211.4	6809.8	6065.0	4612.5	2501.1	1085.4
80°	330.3	336.9	413.4	611.6	1444.1	3601.6	4018.8	3498.8	2034.9	893.8	468.2
82.5°	200.1	202.0	276.6	373.7	794.7	1630.9	1922.6	1518.6	868.3	535.2	275.6
85°	121.8	122.7	168.0	231.2	482.3	563.4	578.6	573.9	509.7	350.2	147.2
87.5°	58.5	60.4	86.8	109.5	189.7	174.6	165.1	191.6	240.7	188.8	63.3
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°	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6	1770.6
2.5°	1768.7	1765.9	1759.3	1756.5	1754.5	1755.6	1754.5	1754.5	1755.6	1755.6	1755.6
5°	1777.3	1772.6	1762.1	1762.1	1767.8	1781.0	1793.3	1802.7	1813.1	1812.2	1812.2
7.5°	1814.1	1805.5	1793.3	1797.1	1811.2	1832.0	1853.7	1874.4	1895.3	1897.1	1896.2
10°	1867.8	1859.3	1846.2	1850.9	1873.5	1904.6	1932.1	1962.2	1984.9	1991.5	1989.6
12.5°	1929.2	1912.2	1900.9	1914.1	1950.0	1991.5	2017.9	2040.6	2056.6	2066.0	2062.3
15°	1991.5	1975.4	1962.2	1989.6	2033.0	2071.7	2084.9	2088.7	2091.5	2100.9	2099.1
17.5°	2051.9	2030.2	2025.5	2061.3	2102.8	2119.8	2112.3	2096.2	2084.0	2091.5	2090.6
20°	2105.7	2088.7	2086.8	2122.7	2138.7	2122.7	2090.6	2062.3	2040.6	2042.5	2041.5
22.5°	2156.6	2143.5	2145.3	2160.5	2134.9	2080.2	2027.3	1988.7	1965.1	1969.8	1972.6
25°	2213.3	2200.1	2204.8	2180.3	2096.2	2001.0	1924.5	1891.4	1882.0	1891.4	1898.1
27.5°	2286.9	2278.4	2275.6	2181.2	2027.3	1883.9	1797.1	1784.8	1793.3	1814.1	1824.4
30°	2366.1	2366.1	2351.1	2165.2	1933.0	1743.3	1667.8	1669.7	1698.9	1728.2	1738.6
32.5°	2442.6	2458.7	2411.5	2121.7	1811.2	1606.4	1548.9	1550.7	1576.2	1612.0	1621.5
35°	2505.8	2552.1	2463.4	2042.5	1667.8	1491.2	1447.8	1422.3	1423.3	1450.7	1458.3
37.5°	2592.7	2678.6	2493.6	1924.5	1514.9	1393.1	1344.0	1299.6	1270.4	1259.1	1259.1
40°	2743.7	2870.2	2501.1	1749.8	1370.4	1299.6	1229.8	1176.9	1120.3	1069.3	1059.9
42.5°	2999.5	3159.0	2486.0	1548.9	1240.2	1196.8	1128.9	1063.7	985.3	913.6	908.0
45°	3452.6	3534.6	2445.5	1340.3	1124.1	1097.7	1031.6	960.8	877.7	813.6	808.8
47.5°	4178.3	4062.3	2391.7	1155.2	1018.4	1010.9	959.9	877.7	794.7	750.3	745.7
50°	5238.3	4892.8	2384.2	1021.2	933.4	937.3	895.7	820.2	747.5	710.7	705.0
52.5°	6514.3	5896.1	2434.1	926.8	858.9	873.0	852.3	782.5	718.2	687.1	681.4
55°	7752.6	6798.4	2464.3	853.2	789.0	815.5	818.3	759.8	701.3	670.1	666.3
57.5°	8757.9	7478.0	2330.3	786.2	728.7	769.2	790.0	746.6	692.8	669.2	665.4
60°	9457.2	7798.9	1949.0	726.8	684.3	732.4	779.6	747.5	713.5	716.4	718.2
62.5°	9679.9	7656.3	1462.0	682.4	654.0	720.1	796.6	786.2	751.3	773.0	776.7
65°	9310.9	7067.4	1059.9	647.5	627.7	728.7	847.6	814.6	738.1	754.1	754.1
67.5°	8075.4	6088.7	824.9	615.4	597.4	744.7	898.5	811.7	706.9	725.8	708.8
70°	6405.8	4709.7	687.1	579.5	565.3	721.1	903.3	782.5	670.1	673.9	641.8
72.5°	4251.0	3096.7	590.9	545.5	516.3	648.4	864.6	744.7	634.2	612.5	580.4
75°	2083.0	1544.1	515.4	503.1	452.1	564.4	811.7	708.8	595.5	561.6	543.6
77.5°	807.0	656.9	439.8	449.3	393.6	497.4	741.8	657.9	544.6	498.4	484.2
80°	391.7	372.8	360.6	374.7	323.8	423.8	677.7	613.5	497.4	446.5	425.6
82.5°	243.5	230.3	276.6	291.7	249.2	387.0	642.8	575.7	437.9	370.0	353.0
85°	123.6	132.2	185.0	199.1	178.4	307.7	529.5	432.3	316.2	262.4	264.3
87.5°	47.2	63.3	97.2	104.8	95.3	162.3	291.7	252.0	203.0	137.8	127.4
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)