

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: P650827

Luminaire Tested: **GALN-SA3C-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P650827
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-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 17663.5 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

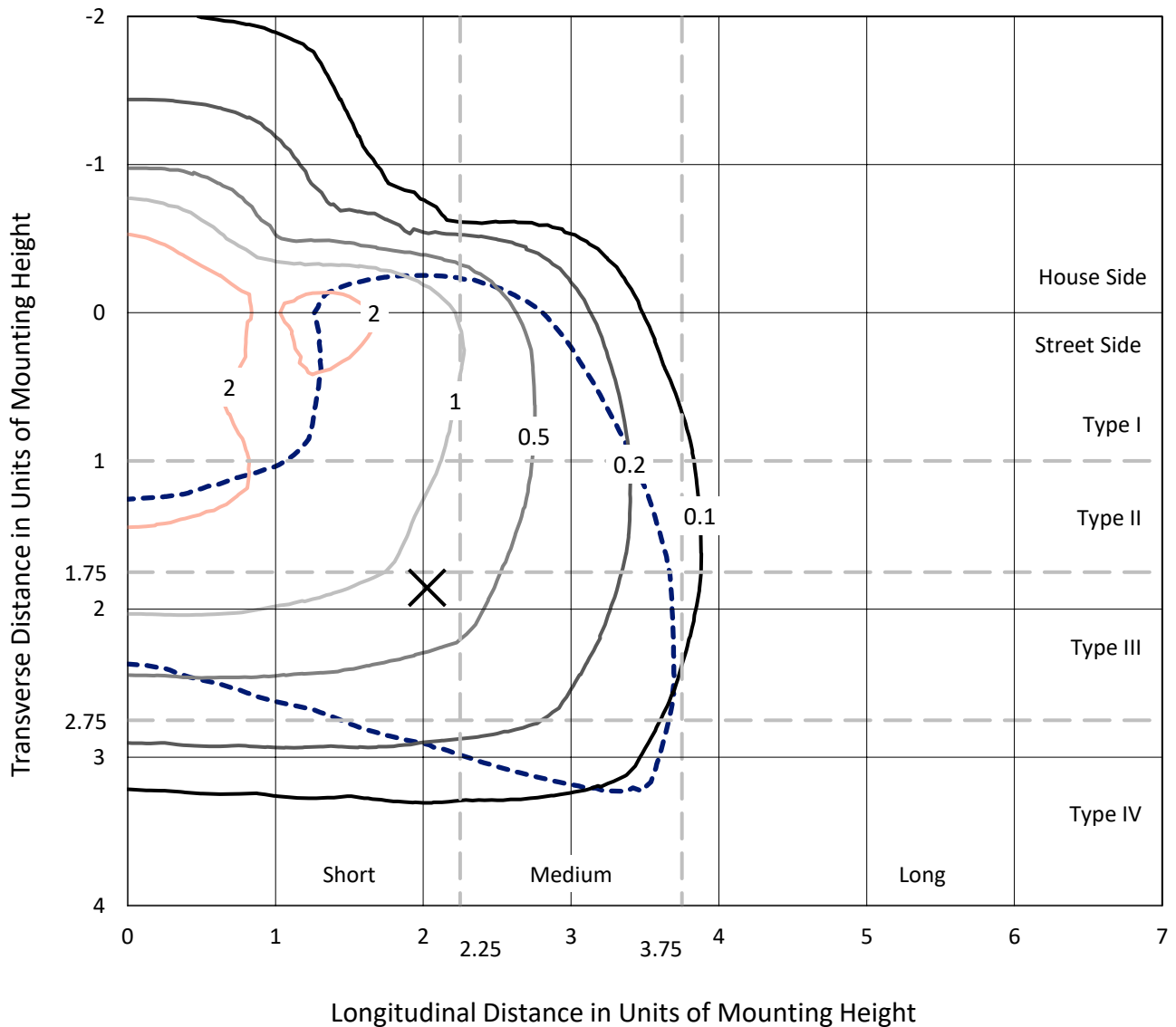
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

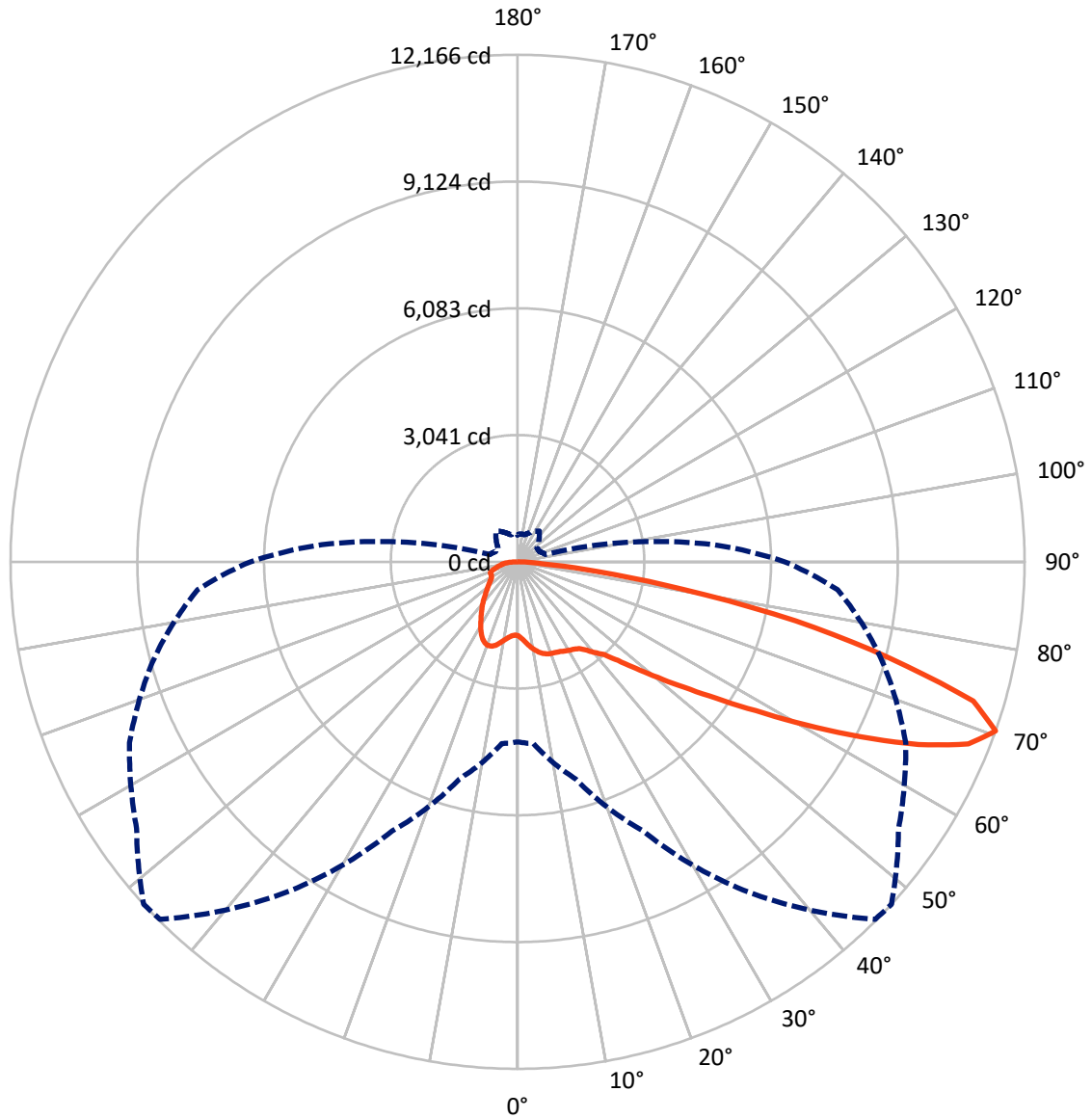
× Max cd
 - - - 1/2 Max cd



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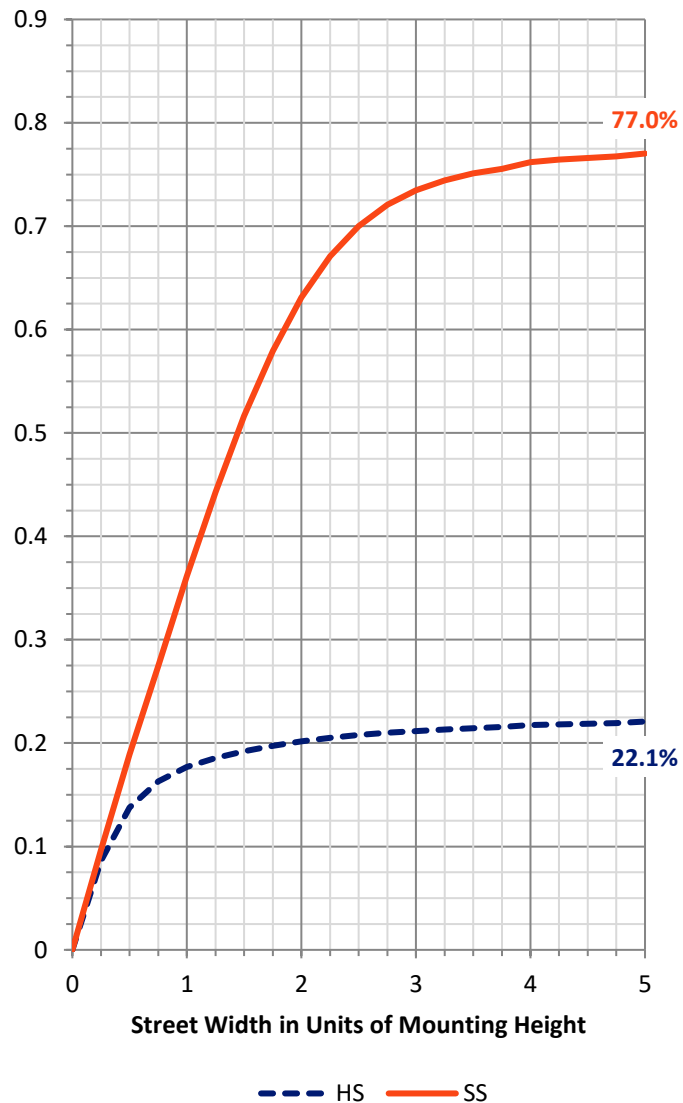
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3999.4	0.0	3999.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13664.2	0.0	13664.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	17663.5	0.0	17663.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.0
10°-20°	611.1	3.5
20°-30°	1016.2	5.8
30°-40°	1440.3	8.2
40°-50°	2126.1	12.0
50°-60°	3682.6	20.8
60°-70°	5201.7	29.4
70°-80°	2990.2	16.9
80°-90°	412.6	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°	17663.5	100.0
0°-180°	17663.5	100.0

Coefficient of Utilization



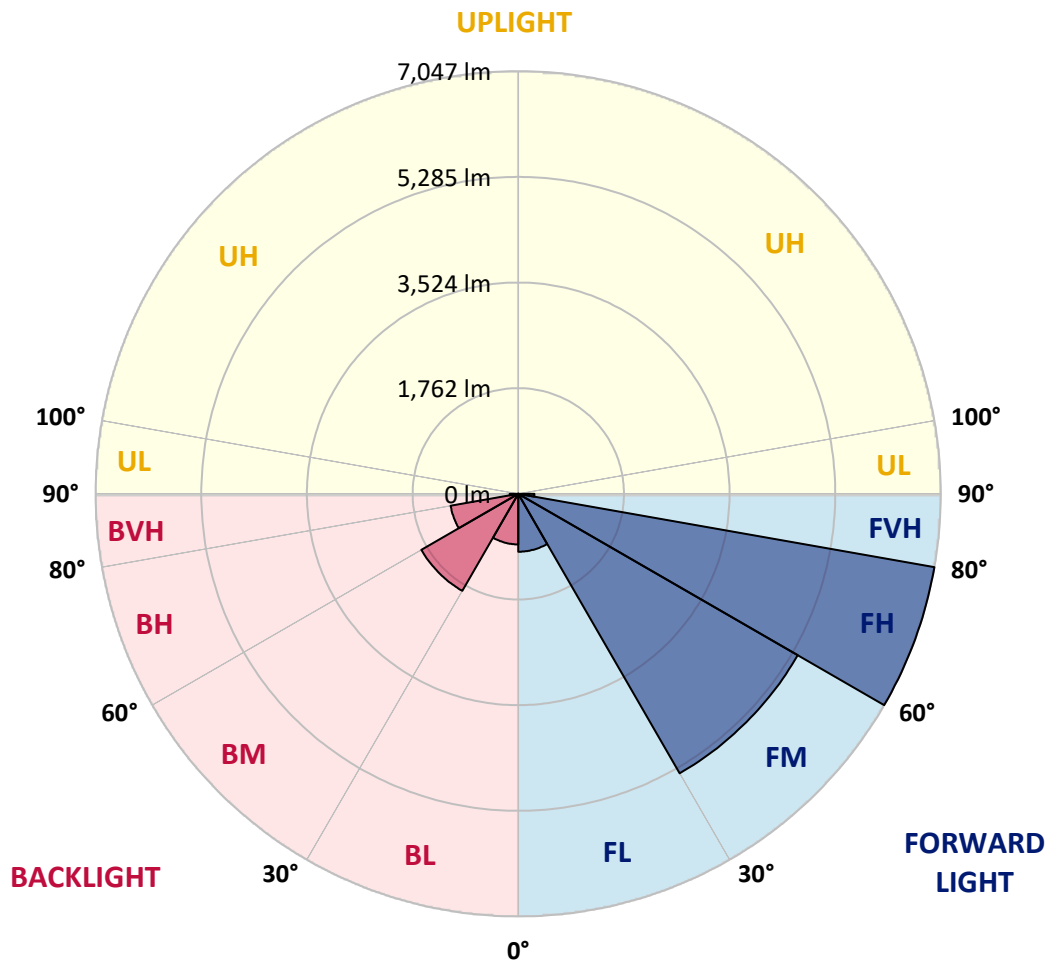
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	965.9	5.5			
FM (30°-60°)	5381.7	30.5			
FH (60°-80°)	7047.0	39.9			G3/7500
FVH (80°-90°)	269.5	1.5			G3/500
BL (0°-30°)	844.1	4.8	B2/1000		
BM (30°-60°)	1867.2	10.6	B2/2500		
BH (60°-80°)	1145.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	143.1	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°	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2
2.5°	1887.5	1881.0	1880.0	1865.8	1858.3	1844.1	1838.4	1825.2	1809.2	1793.1	1778.0
5°	2036.0	2036.0	2029.3	2009.5	1978.3	1946.2	1932.0	1906.5	1861.1	1824.2	1793.1
7.5°	2188.1	2190.0	2176.8	2147.5	2103.1	2051.1	2037.8	2000.1	1935.8	1881.9	1835.6
10°	2319.6	2319.6	2301.6	2261.9	2206.1	2149.4	2136.1	2093.7	2021.8	1954.7	1894.2
12.5°	2419.7	2419.7	2396.1	2344.1	2283.7	2232.6	2217.5	2176.8	2109.7	2035.1	1958.4
15°	2485.0	2480.2	2453.8	2395.2	2336.6	2292.1	2281.7	2247.7	2186.3	2110.7	2024.6
17.5°	2487.8	2485.9	2460.3	2411.2	2360.2	2329.9	2323.3	2300.6	2252.5	2180.6	2089.9
20°	2432.9	2436.7	2419.7	2384.7	2360.2	2347.0	2344.1	2336.6	2302.5	2235.4	2144.6
22.5°	2374.4	2381.0	2364.9	2346.0	2344.1	2357.3	2359.3	2361.1	2339.4	2274.1	2191.0
25°	2360.2	2364.9	2348.8	2331.8	2342.2	2377.2	2384.7	2392.3	2375.3	2320.5	2245.8
27.5°	2432.0	2428.2	2397.0	2360.2	2366.8	2414.1	2424.4	2432.9	2424.4	2377.2	2313.8
30°	2635.3	2622.9	2560.6	2452.8	2418.8	2451.9	2462.3	2485.9	2485.9	2450.9	2387.6
32.5°	2975.5	2951.9	2837.5	2625.8	2507.6	2487.8	2498.2	2537.0	2556.8	2529.4	2460.3
35°	3388.6	3364.0	3200.4	2916.0	2670.2	2559.6	2556.8	2600.3	2653.2	2591.8	2502.0
37.5°	3803.5	3778.0	3581.4	3261.9	2907.4	2710.9	2693.8	2708.9	2731.7	2619.1	2559.6
40°	4218.5	4188.2	4016.2	3648.5	3197.7	2911.2	2866.8	2798.8	2789.3	2708.9	2671.2
42.5°	4629.6	4602.2	4515.2	4082.4	3545.5	3106.9	3038.9	2921.6	2957.5	2909.4	2876.2
45°	5044.6	5046.4	4953.8	4569.2	3965.1	3467.9	3376.3	3192.9	3278.0	3260.1	3278.9
47.5°	5412.3	5407.5	5374.4	5041.7	4486.0	3933.0	3814.9	3602.2	3747.7	3813.9	3958.5
50°	5768.6	5765.7	5767.7	5577.7	5090.9	4486.0	4355.5	4132.4	4460.4	4690.1	4949.1
52.5°	6279.0	6295.1	6180.7	6130.6	5826.3	5139.1	4995.4	4764.8	5302.6	5664.6	6170.3
55°	6791.3	6778.0	6688.3	6740.3	6595.6	5912.2	5761.9	5578.6	6240.2	6636.2	7396.3
57.5°	7092.8	7097.5	7189.2	7443.5	7545.5	6876.4	6740.3	6598.5	7294.2	7574.9	8487.0
60°	7364.1	7385.8	7649.6	8129.7	8406.6	8060.7	7939.7	7801.7	8261.1	8372.7	9434.1
62.5°	7449.2	7516.3	7976.5	8694.9	9246.0	9397.2	9247.0	8942.6	9181.7	9138.2	10075.9
65°	7024.8	7116.5	7941.6	8906.7	9995.5	10665.7	10570.2	10005.0	9966.3	9704.4	10180.8
67.5°	5907.5	5999.2	7058.8	8462.4	10305.6	11764.0	11668.5	10780.1	10442.6	9757.4	9386.8
70°	4322.4	4380.1	5393.3	7125.0	9682.7	12132.7	12165.7	11158.1	10272.5	9038.1	7707.2
72.5°	2490.6	2618.2	3328.1	5012.4	7910.4	11200.7	11430.4	10371.7	9196.8	7539.9	5388.6
75°	1070.9	1073.8	1538.8	2764.7	5357.4	9003.1	9225.2	8597.6	7222.3	5213.8	2877.2
77.5°	509.5	518.9	676.8	1234.4	2949.1	6220.4	6819.7	6073.9	4619.2	2504.8	1087.0
80°	330.8	337.4	414.0	612.5	1446.2	3606.9	4024.7	3503.9	2037.8	895.1	468.9
82.5°	200.4	202.3	276.9	374.3	795.8	1633.3	1925.4	1520.9	869.6	536.0	276.0
85°	121.9	122.9	168.3	231.6	483.0	564.3	579.4	574.7	510.4	350.7	147.4
87.5°	58.6	60.5	87.0	109.7	190.0	174.8	165.4	191.9	241.0	189.1	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°	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2
2.5°	1771.3	1768.5	1761.9	1759.0	1757.1	1758.1	1757.1	1757.1	1758.1	1758.1	1758.1
5°	1779.8	1775.1	1764.7	1764.7	1770.4	1783.6	1795.9	1805.4	1815.7	1814.8	1814.8
7.5°	1816.6	1808.2	1795.9	1799.7	1813.9	1834.6	1856.4	1877.2	1898.0	1899.9	1898.9
10°	1870.6	1862.1	1848.9	1853.6	1876.3	1907.4	1934.8	1965.1	1987.8	1994.3	1992.5
12.5°	1932.0	1915.0	1903.6	1916.9	1952.8	1994.3	2020.8	2043.5	2059.6	2069.0	2065.2
15°	1994.3	1978.3	1965.1	1992.5	2036.0	2074.7	2088.0	2091.7	2094.6	2104.0	2102.2
17.5°	2054.9	2033.1	2028.4	2064.3	2105.9	2122.9	2115.4	2099.3	2087.0	2094.6	2093.7
20°	2108.7	2091.7	2089.9	2125.8	2141.9	2125.8	2093.7	2065.2	2043.5	2045.4	2044.5
22.5°	2159.8	2146.6	2148.4	2163.6	2138.1	2083.2	2030.3	1991.6	1967.9	1972.6	1975.5
25°	2216.5	2203.3	2208.0	2183.4	2099.3	2003.9	1927.2	1894.2	1884.8	1894.2	1900.8
27.5°	2290.2	2281.7	2278.9	2184.3	2030.3	1886.6	1799.7	1787.4	1795.9	1816.6	1827.1
30°	2369.6	2369.6	2354.5	2168.3	1935.8	1745.8	1670.1	1672.1	1701.3	1730.7	1741.0
32.5°	2446.2	2462.3	2415.0	2124.8	1813.9	1608.7	1551.1	1553.0	1578.5	1614.4	1623.9
35°	2509.5	2555.8	2467.0	2045.4	1670.1	1493.4	1450.0	1424.4	1425.4	1452.7	1460.3
37.5°	2596.5	2682.5	2497.3	1927.2	1517.1	1395.1	1345.9	1301.5	1272.3	1260.9	1260.9
40°	2747.7	2874.4	2504.8	1752.4	1372.4	1301.5	1231.6	1178.7	1122.0	1070.9	1061.4
42.5°	3003.9	3163.6	2489.7	1551.1	1242.0	1198.5	1130.5	1065.2	986.8	914.9	909.3
45°	3457.5	3539.8	2449.0	1342.2	1125.8	1099.3	1033.1	962.2	879.0	814.8	810.1
47.5°	4184.4	4068.2	2395.2	1157.0	1019.9	1012.3	961.3	879.0	795.8	751.4	746.7
50°	5245.9	4899.9	2387.6	1022.7	934.8	938.6	897.0	821.4	748.6	711.7	706.1
52.5°	6523.8	5904.7	2437.7	928.2	860.2	874.3	853.5	783.6	719.3	688.1	682.5
55°	7763.9	6808.3	2467.9	854.5	790.2	816.7	819.5	760.9	702.3	671.1	667.3
57.5°	8770.5	7488.9	2333.7	787.3	729.7	770.4	791.1	747.6	693.7	670.1	666.4
60°	9470.9	7810.2	1951.9	727.8	685.2	733.5	780.7	748.6	714.6	717.4	719.3
62.5°	9694.0	7667.5	1464.1	683.4	655.1	721.2	797.8	787.3	752.4	774.1	777.9
65°	9324.4	7077.7	1061.4	648.4	628.6	729.7	848.8	815.7	739.2	755.2	755.2
67.5°	8087.1	6097.5	826.1	616.3	598.3	745.8	899.9	812.9	708.0	726.9	709.9
70°	6415.1	4716.6	688.1	580.4	566.2	722.2	904.6	783.6	671.1	674.9	642.8
72.5°	4257.2	3101.2	591.7	546.3	517.0	649.3	865.8	745.8	635.2	613.4	581.3
75°	2086.1	1546.3	516.1	503.8	452.8	565.2	812.9	709.9	596.4	562.4	544.5
77.5°	808.1	657.8	440.4	449.9	394.2	498.1	742.9	658.8	545.4	499.0	484.9
80°	392.2	373.3	361.0	375.3	324.2	424.4	678.7	614.4	498.1	447.1	426.3
82.5°	243.9	230.6	276.9	292.1	249.5	387.5	643.7	576.6	438.6	370.5	353.5
85°	123.8	132.3	185.3	199.4	178.6	308.1	530.3	432.9	316.6	262.7	264.7
87.5°	47.3	63.3	97.4	105.0	95.5	162.6	292.1	252.4	203.2	138.0	127.6
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)