

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: P383073

Luminaire Tested: **GLEON-SA4A-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17390.1 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

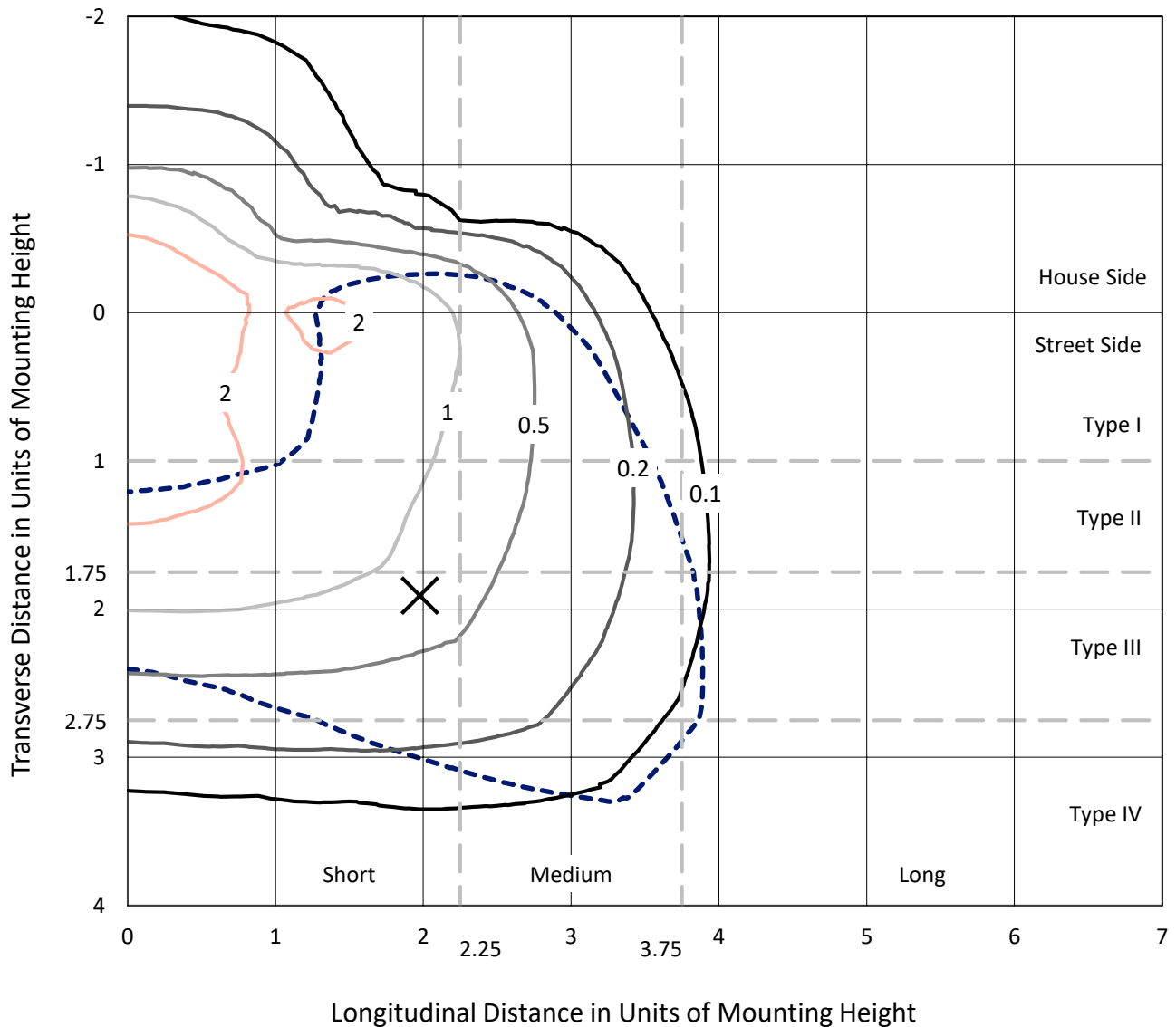
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

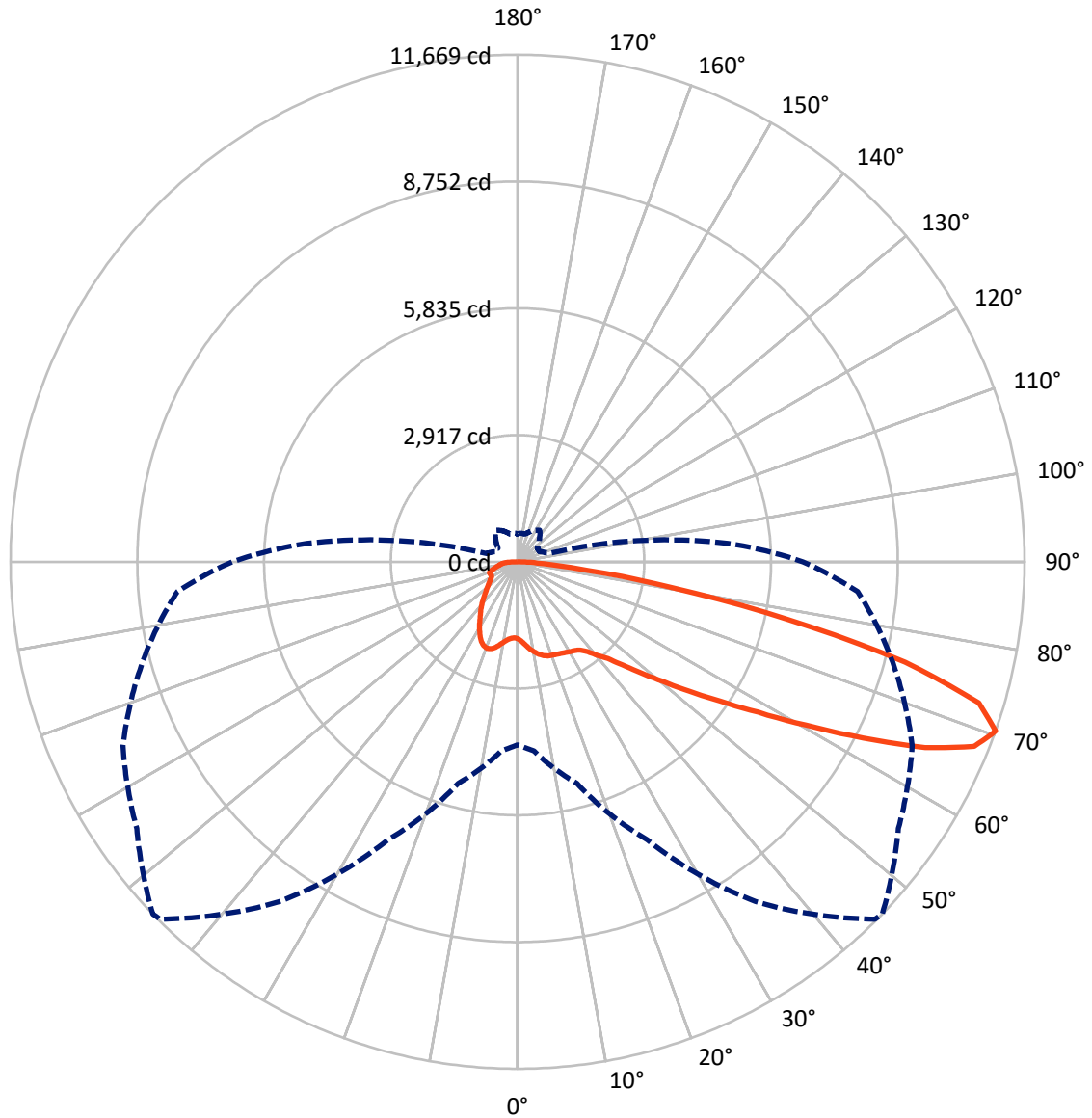
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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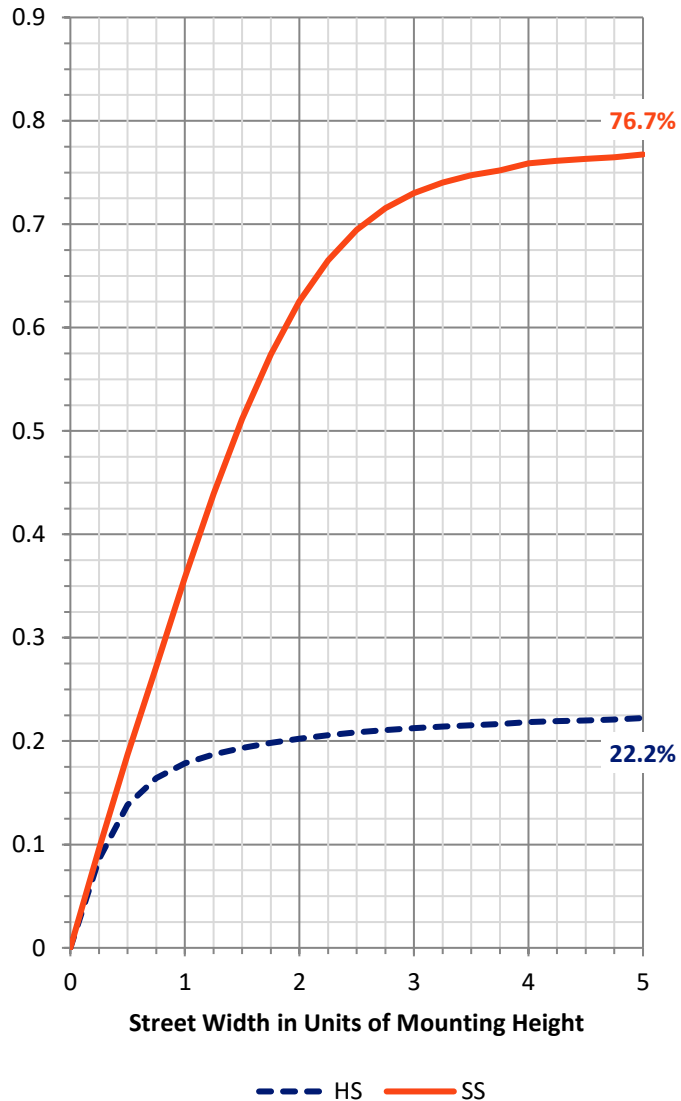
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3985.8	0.0	3985.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13404.4	0.0	13404.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	17390.1	0.0	17390.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.0
10°-20°	601.8	3.5
20°-30°	1003.3	5.8
30°-40°	1423.8	8.2
40°-50°	2094.3	12.0
50°-60°	3546.8	20.4
60°-70°	5034.6	29.0
70°-80°	3058.6	17.6
80°-90°	446.4	2.6
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°	17390.1	100.0
0°-180°	17390.1	100.0

Coefficient of Utilization



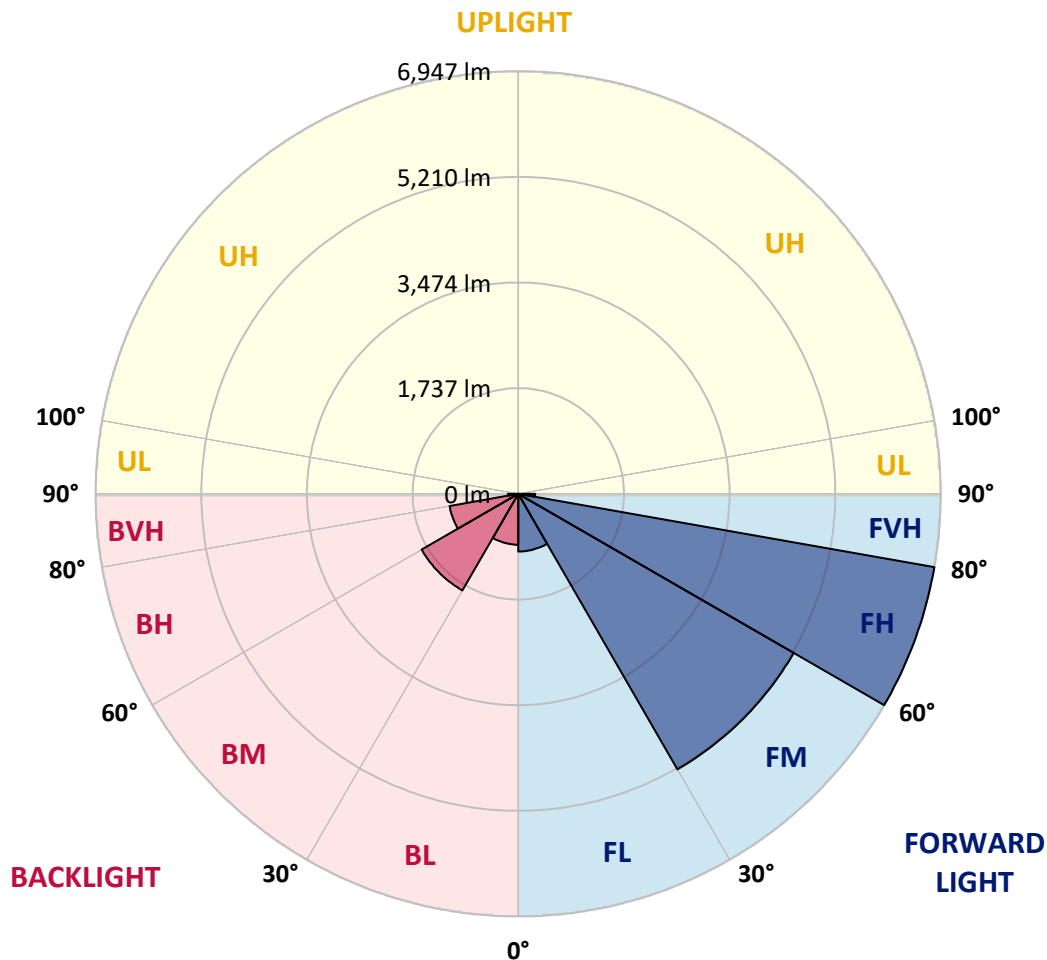
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.9	5.5			
FM (30°-60°)	5230.2	30.1			
FH (60°-80°)	6947.3	39.9			G3/7500
FVH (80°-90°)	278.0	1.6			G3/500
BL (0°-30°)	836.8	4.8	B2/1000		
BM (30°-60°)	1834.7	10.6	B2/2500		
BH (60°-80°)	1145.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	168.3	1.0			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°	46°	55°	65°	75°	85°
0°	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7
2.5°	1860.4	1861.6	1863.9	1858.0	1841.4	1836.5	1834.8	1817.5	1806.3	1789.6	1775.3
5°	2009.2	2010.4	2006.8	1990.2	1953.3	1925.9	1923.5	1884.1	1848.5	1810.4	1781.9
7.5°	2164.5	2166.3	2154.9	2123.5	2071.7	2024.1	2021.1	1967.5	1913.4	1855.6	1812.8
10°	2301.9	2294.9	2276.4	2232.4	2171.1	2112.7	2110.3	2054.4	1991.9	1922.2	1865.1
12.5°	2393.6	2387.6	2363.9	2310.3	2243.1	2189.5	2184.8	2133.0	2072.2	1996.1	1927.7
15°	2444.2	2448.4	2416.2	2355.5	2290.1	2244.8	2240.7	2203.8	2149.6	2072.9	1994.3
17.5°	2450.7	2454.3	2423.4	2363.2	2309.7	2278.8	2277.0	2252.6	2213.3	2139.5	2057.4
20°	2412.7	2415.0	2389.4	2340.0	2304.9	2295.4	2294.9	2284.2	2255.0	2189.5	2109.8
22.5°	2357.3	2359.1	2340.7	2304.9	2293.1	2307.9	2312.1	2307.9	2287.1	2225.8	2150.9
25°	2343.7	2342.5	2323.4	2287.1	2297.2	2328.8	2334.1	2335.9	2321.6	2268.0	2203.2
27.5°	2409.7	2405.5	2369.2	2310.9	2317.4	2355.5	2362.7	2379.9	2371.0	2324.0	2262.7
30°	2600.7	2593.6	2519.2	2401.3	2369.2	2388.9	2397.8	2425.2	2427.0	2387.6	2341.8
32.5°	2923.3	2914.3	2781.0	2570.4	2456.7	2422.8	2431.2	2472.1	2494.2	2463.9	2414.5
35°	3330.9	3320.9	3145.8	2857.8	2603.1	2487.7	2493.6	2526.4	2570.4	2527.6	2462.1
37.5°	3755.9	3731.5	3563.1	3195.9	2835.8	2626.3	2626.3	2630.5	2651.3	2562.0	2518.0
40°	4178.5	4154.1	4001.6	3593.4	3137.0	2844.8	2831.1	2738.8	2722.2	2645.4	2630.5
42.5°	4571.2	4564.1	4474.2	4042.7	3490.4	3059.6	3040.6	2884.0	2887.6	2840.0	2840.6
45°	4989.0	4989.0	4915.8	4496.2	3902.3	3404.8	3385.7	3155.4	3191.1	3169.1	3222.0
47.5°	5330.0	5340.7	5330.6	4968.8	4381.3	3843.4	3808.8	3531.5	3631.5	3707.1	3861.3
50°	5678.2	5694.8	5696.6	5487.1	4960.4	4364.7	4325.5	4030.8	4254.0	4470.7	4773.5
52.5°	6183.4	6221.0	6071.5	6004.3	5669.9	4983.7	4944.9	4673.0	5045.5	5349.7	5871.6
55°	6651.8	6619.1	6512.5	6554.2	6429.3	5688.3	5659.2	5420.5	5927.5	6322.7	7000.6
57.5°	6905.4	6903.0	7010.1	7188.7	7248.1	6557.2	6532.8	6300.7	6922.0	7218.9	8060.5
60°	7202.9	7207.1	7472.5	7877.8	8123.0	7639.2	7628.4	7452.3	7887.9	8055.7	8891.9
62.5°	7244.6	7319.5	7776.7	8474.1	8941.9	8903.2	8927.0	8489.6	8752.1	8723.5	9512.6
65°	6765.5	6864.3	7691.5	8654.4	9756.0	10285.7	10307.8	9532.9	9433.5	9294.2	9734.6
67.5°	5783.5	5930.0	6828.5	8262.3	10024.5	11307.6	11338.5	10341.7	9998.9	9487.6	9200.2
70°	4208.8	4371.3	5275.8	7056.5	9545.9	11634.3	11669.4	10699.3	10020.3	8937.1	7854.0
72.5°	2542.4	2669.8	3415.5	5195.0	8057.0	11039.1	11101.6	10245.8	9148.4	7570.1	5799.5
75°	1116.5	1199.8	1651.5	2993.5	5768.0	9133.5	9211.5	8769.9	7433.2	5501.4	3428.0
77.5°	475.6	499.3	677.2	1300.3	3260.7	6241.2	6348.3	6407.8	5043.1	2993.5	1448.6
80°	296.4	305.9	383.2	588.6	1526.0	3505.3	3620.8	3770.2	2504.3	1100.4	505.8
82.5°	180.3	191.1	254.7	355.9	794.5	1589.0	1644.4	1749.7	971.9	475.6	261.9
85°	108.3	116.1	155.9	225.0	452.3	624.9	624.3	690.4	457.7	305.9	138.1
87.5°	51.8	57.8	83.3	116.6	227.9	234.5	219.6	248.7	278.0	200.6	69.6
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°	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7	1771.7
2.5°	1770.5	1768.2	1760.4	1754.5	1753.3	1749.7	1746.7	1748.5	1750.8	1751.5	1751.5
5°	1769.9	1763.4	1753.3	1749.1	1754.5	1761.6	1770.5	1782.4	1789.6	1794.9	1798.5
7.5°	1798.5	1786.0	1774.7	1772.3	1783.0	1802.1	1822.3	1847.3	1864.6	1876.4	1878.8
10°	1846.1	1830.7	1819.3	1821.7	1840.7	1868.1	1896.7	1928.9	1955.0	1971.1	1972.3
12.5°	1900.8	1886.0	1875.3	1885.4	1916.9	1950.3	1980.0	2008.0	2031.8	2047.8	2047.8
15°	1964.0	1953.3	1940.7	1964.0	2006.8	2036.5	2049.0	2062.7	2075.9	2087.7	2085.4
17.5°	2024.6	2014.6	2008.0	2035.3	2080.0	2093.7	2085.4	2075.2	2075.2	2081.8	2082.9
20°	2077.0	2068.1	2072.2	2099.1	2122.3	2108.0	2077.0	2044.8	2031.8	2035.3	2039.0
22.5°	2122.8	2118.7	2131.2	2143.7	2127.0	2077.0	2019.9	1976.5	1960.3	1959.1	1960.3
25°	2176.4	2175.8	2191.3	2168.6	2094.9	2002.6	1925.9	1883.6	1874.6	1881.8	1893.7
27.5°	2243.1	2249.6	2257.3	2174.6	2029.4	1890.1	1812.1	1783.0	1791.9	1809.3	1820.5
30°	2328.1	2346.0	2329.3	2159.7	1935.4	1761.6	1687.2	1678.8	1703.2	1727.6	1739.6
32.5°	2410.8	2438.9	2398.4	2121.0	1814.0	1625.3	1567.6	1565.2	1595.0	1618.8	1635.4
35°	2477.5	2532.9	2450.2	2044.3	1673.5	1499.7	1457.5	1441.4	1452.1	1480.1	1499.1
37.5°	2564.5	2656.7	2485.8	1927.0	1521.1	1396.2	1346.8	1309.8	1300.3	1311.7	1321.2
40°	2723.4	2845.3	2502.5	1763.4	1372.4	1292.6	1242.7	1188.5	1151.0	1123.6	1124.2
42.5°	2982.8	3091.2	2491.8	1564.6	1234.9	1191.4	1134.9	1072.4	1011.8	949.8	945.1
45°	3404.2	3456.5	2459.7	1353.9	1114.1	1085.5	1032.5	970.1	889.2	818.9	812.4
47.5°	4078.4	3962.4	2409.7	1170.0	1007.6	995.6	946.8	874.8	789.1	732.6	727.8
50°	4997.9	4692.7	2385.3	1023.6	913.6	917.1	877.2	801.0	720.1	678.4	673.7
52.5°	6097.7	5543.1	2432.3	910.6	837.9	850.4	820.7	749.2	681.4	648.7	644.0
55°	7238.6	6423.9	2482.9	828.4	766.6	791.0	780.8	721.9	660.6	630.3	626.1
57.5°	8215.2	7081.5	2381.7	761.7	702.9	741.0	749.9	704.6	649.8	622.6	617.7
60°	8830.0	7346.4	2116.3	699.3	652.3	701.1	732.0	699.9	654.0	651.7	648.1
62.5°	9121.6	7323.1	1718.1	649.8	620.7	683.8	745.1	726.7	701.6	723.1	724.8
65°	8990.6	6973.2	1279.6	617.2	598.1	690.4	784.4	777.3	715.3	736.8	739.7
67.5°	8129.0	6138.2	947.5	588.6	573.1	708.8	855.8	793.9	688.6	704.1	694.6
70°	6570.3	4866.4	730.8	556.4	547.6	706.4	888.0	783.8	659.4	663.0	637.4
72.5°	4530.8	3318.5	594.5	526.7	510.6	644.0	865.3	758.8	635.0	607.6	573.7
75°	2463.9	1781.2	505.3	495.8	445.7	565.4	823.7	741.0	613.0	576.7	557.6
77.5°	969.5	739.2	438.6	453.5	389.9	499.3	777.3	707.0	582.6	535.0	525.5
80°	395.7	377.3	363.6	392.2	335.1	436.8	721.3	667.2	546.4	496.3	477.3
82.5°	224.4	234.5	282.7	309.5	272.0	402.3	694.6	635.0	502.8	444.5	422.0
85°	114.9	137.5	197.0	222.0	200.0	342.2	639.8	555.9	403.5	340.4	342.2
87.5°	55.3	76.8	124.4	139.3	129.8	247.6	477.9	402.9	314.2	248.7	241.0
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)