

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: P319158

Luminaire Tested: **GLEON-SA4B-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319158
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-SA4B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 16828 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

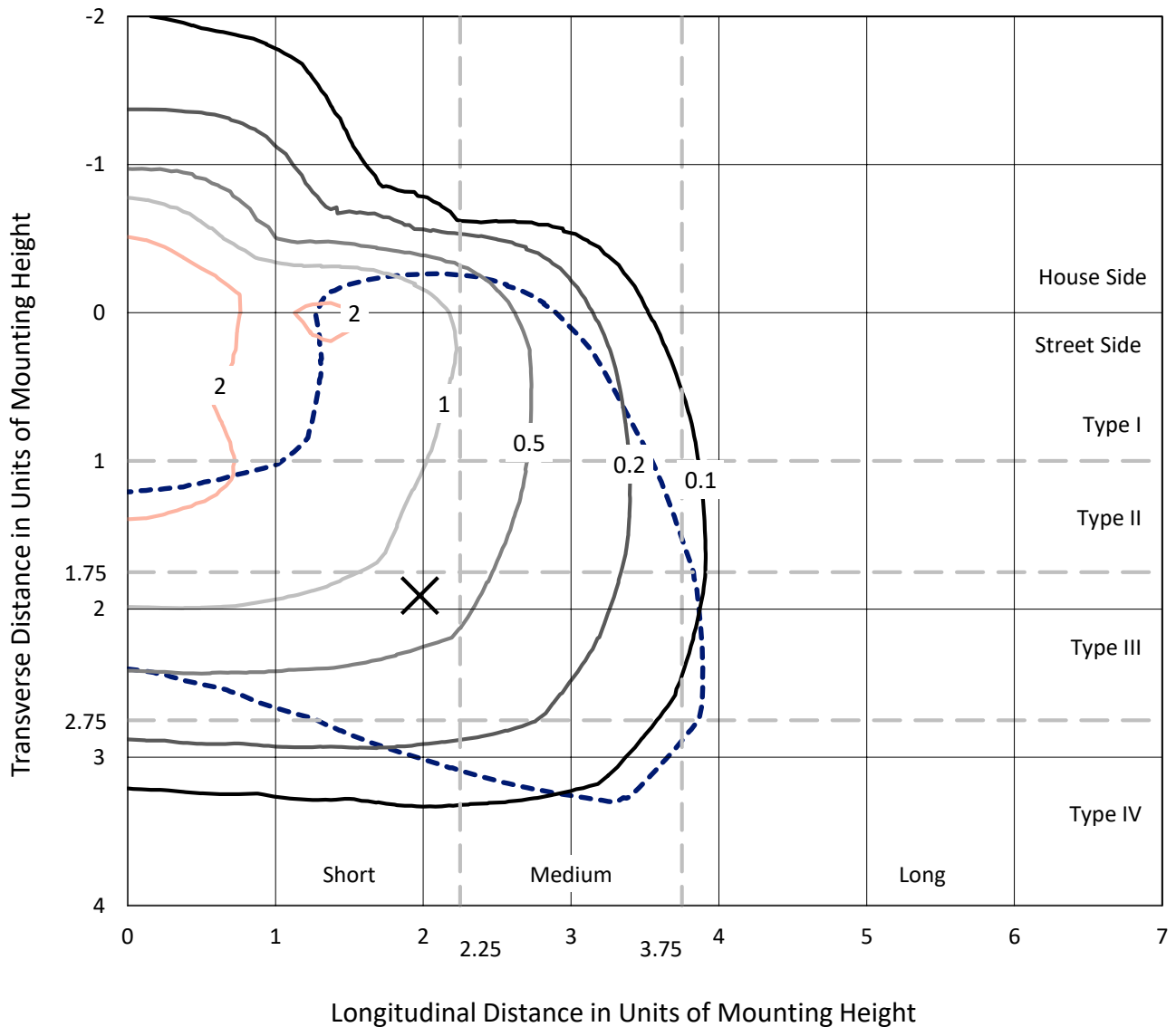
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

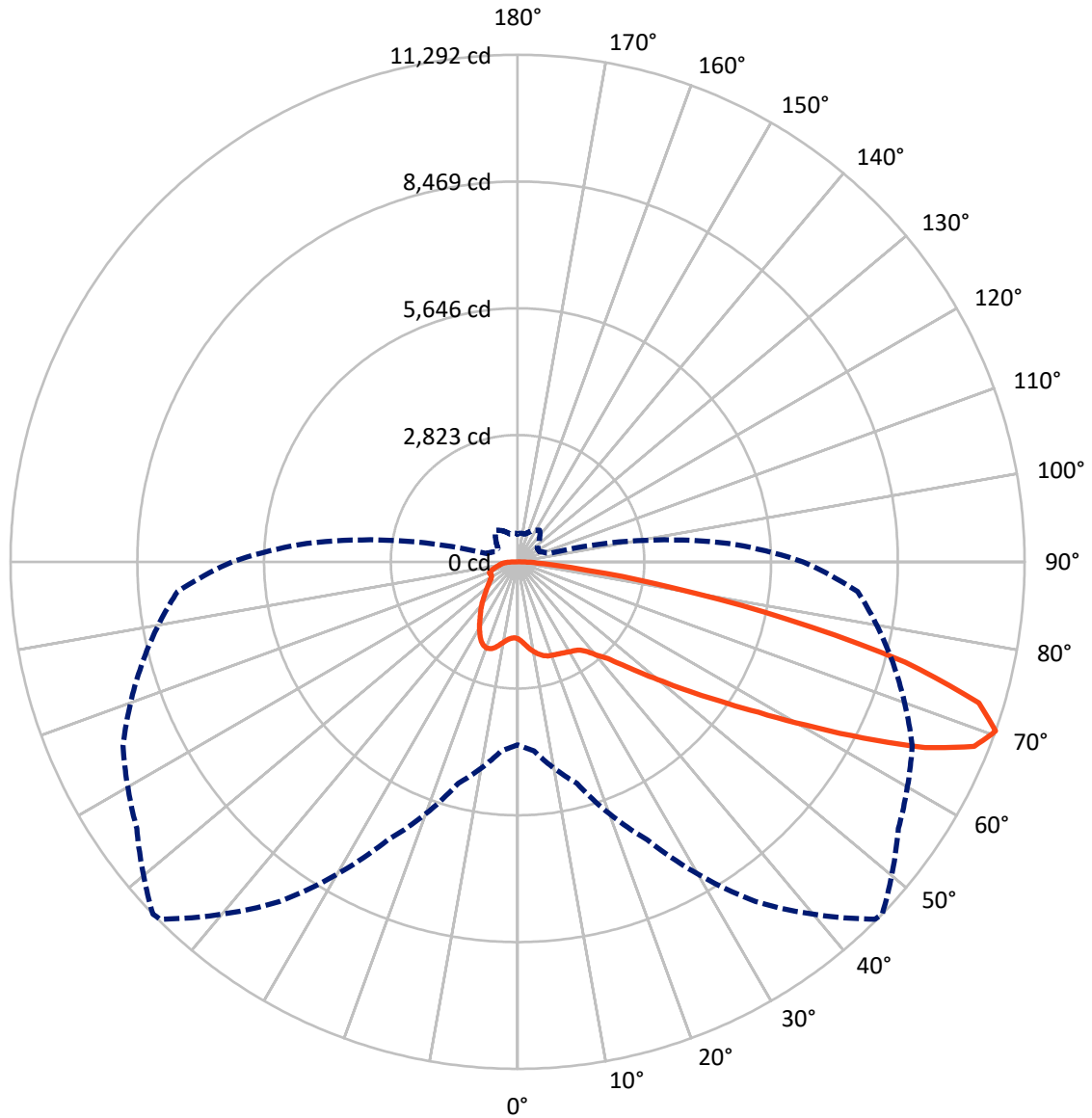
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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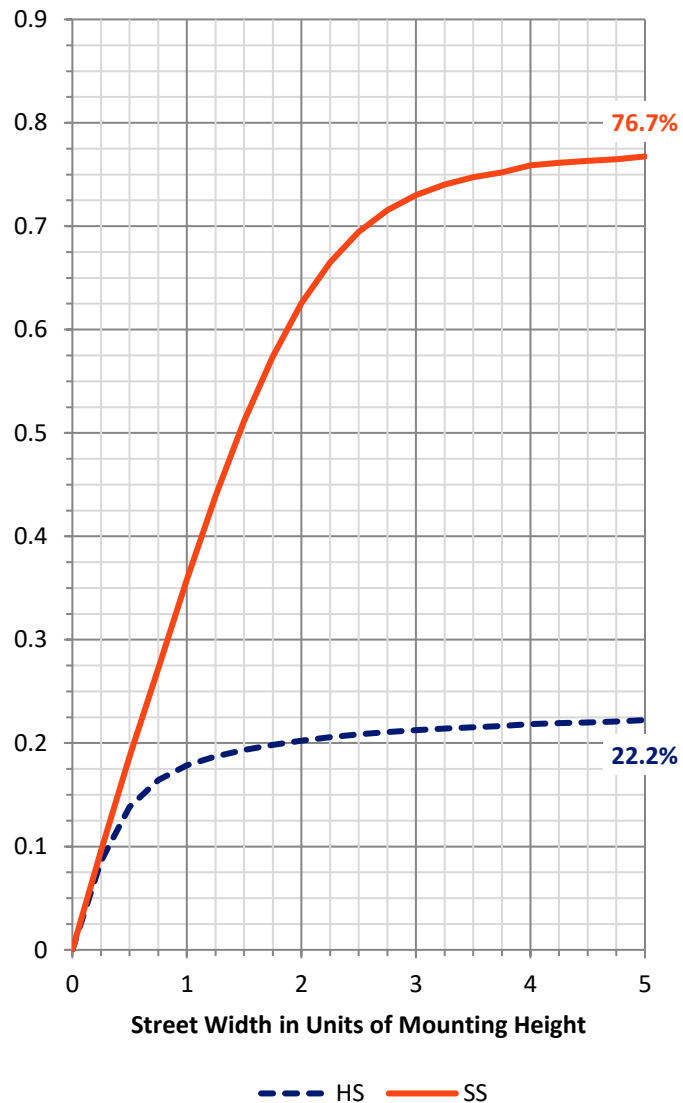
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3856.9	0.0	3856.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12971.1	0.0	12971.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	16828.0	0.0	16828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.0
10°-20°	582.3	3.5
20°-30°	970.9	5.8
30°-40°	1377.8	8.2
40°-50°	2026.7	12.0
50°-60°	3432.1	20.4
60°-70°	4871.8	29.0
70°-80°	2959.7	17.6
80°-90°	431.9	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°	16828.0	100.0
0°-180°	16828.0	100.0

Coefficient of Utilization



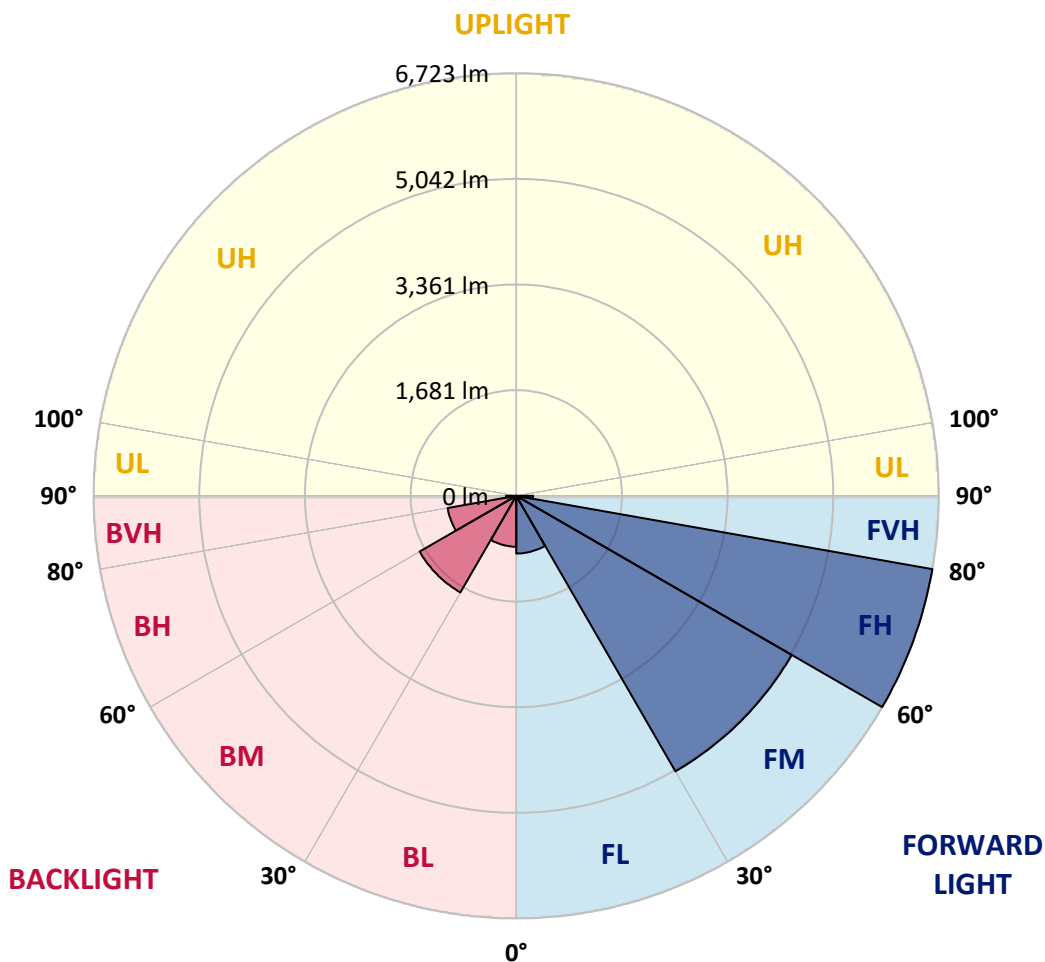
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.2	5.5			
FM (30°-60°)	5061.1	30.1			
FH (60°-80°)	6722.7	39.9			G3/7500
FVH (80°-90°)	269.1	1.6			G3/500
BL (0°-30°)	809.8	4.8	B2/1000		
BM (30°-60°)	1775.4	10.6	B2/2500		
BH (60°-80°)	1108.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	162.9	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°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1800.3	1801.4	1803.7	1797.9	1781.8	1777.2	1775.5	1758.8	1747.8	1731.7	1717.9
5°	1944.2	1945.4	1941.9	1925.8	1890.1	1863.6	1861.3	1823.3	1788.7	1751.9	1724.2
7.5°	2094.5	2096.3	2085.3	2054.8	2004.7	1958.6	1955.7	1903.9	1851.5	1795.6	1754.2
10°	2227.6	2220.7	2202.8	2160.2	2100.9	2044.4	2042.1	1988.0	1927.5	1860.1	1804.9
12.5°	2316.3	2310.5	2287.5	2235.6	2170.6	2118.7	2114.1	2064.0	2005.3	1931.6	1865.3
15°	2365.2	2369.2	2338.1	2279.4	2216.0	2172.3	2168.3	2132.5	2080.1	2005.8	1929.8
17.5°	2371.5	2375.0	2345.1	2286.9	2235.1	2205.1	2203.4	2179.8	2141.8	2070.3	1990.9
20°	2334.7	2337.0	2312.2	2264.4	2230.4	2221.2	2220.7	2210.3	2182.1	2118.7	2041.6
22.5°	2281.1	2282.9	2265.0	2230.4	2218.9	2233.3	2237.4	2233.3	2213.2	2153.9	2081.3
25°	2267.9	2266.7	2248.3	2213.2	2223.0	2253.5	2258.7	2260.4	2246.6	2194.7	2132.0
27.5°	2331.8	2327.8	2292.6	2236.2	2242.5	2279.4	2286.3	2303.0	2294.4	2248.9	2189.6
30°	2516.7	2509.8	2437.8	2323.7	2292.6	2311.6	2320.3	2346.8	2348.5	2310.5	2266.2
32.5°	2828.8	2820.2	2691.2	2487.3	2377.3	2344.5	2352.5	2392.3	2413.6	2384.2	2336.4
35°	3223.3	3213.5	3044.2	2765.5	2519.0	2407.2	2413.0	2444.7	2487.3	2445.8	2382.5
37.5°	3634.5	3610.9	3447.9	3092.6	2744.1	2541.4	2541.4	2545.5	2565.6	2479.2	2436.6
40°	4043.4	4019.8	3872.3	3477.3	3035.6	2752.8	2739.5	2650.3	2634.2	2559.9	2545.5
42.5°	4423.5	4416.6	4329.6	3912.1	3377.6	2960.7	2942.3	2790.8	2794.2	2748.2	2748.8
45°	4827.7	4827.7	4756.9	4350.9	3776.2	3294.7	3276.3	3053.4	3088.0	3066.6	3117.9
47.5°	5157.7	5168.1	5158.3	4808.2	4239.7	3719.1	3685.7	3417.4	3514.1	3587.3	3736.4
50°	5494.6	5510.8	5512.5	5309.8	4800.1	4223.6	4185.6	3900.5	4116.5	4326.1	4619.3
52.5°	5983.6	6019.8	5875.3	5810.2	5486.6	4822.6	4785.1	4521.9	4882.5	5176.7	5681.8
55°	6436.8	6405.1	6302.0	6342.3	6221.4	5504.4	5476.2	5245.3	5735.9	6118.3	6774.3
57.5°	6682.1	6679.8	6783.5	6956.3	7013.8	6345.2	6321.6	6097.0	6698.3	6985.6	7799.9
60°	6970.1	6974.1	7231.0	7623.1	7860.4	7392.2	7381.8	7211.4	7632.9	7795.3	8604.5
62.5°	7010.4	7083.0	7525.2	8200.2	8652.8	8615.4	8638.4	8215.2	8469.1	8441.5	9205.1
65°	6546.8	6642.4	7442.9	8374.7	9440.7	9953.2	9974.5	9224.7	9128.5	8993.8	9419.9
67.5°	5596.6	5738.2	6607.8	7995.2	9700.4	10942.0	10972.0	10007.4	9675.6	9180.9	8902.8
70°	4072.7	4230.0	5105.3	6828.4	9237.4	11258.2	11292.2	10353.5	9696.4	8648.2	7600.1
72.5°	2460.2	2583.5	3305.1	5027.0	7796.5	10682.3	10742.8	9914.6	8852.7	7325.4	5612.1
75°	1080.4	1161.0	1598.1	2896.8	5581.6	8838.3	8913.7	8486.4	7192.9	5323.6	3317.2
77.5°	460.1	483.2	655.4	1258.3	3155.3	6039.4	6143.1	6200.7	4880.1	2896.8	1401.7
80°	286.8	296.0	370.9	569.6	1476.6	3392.0	3503.8	3648.3	2423.4	1064.8	489.5
82.5°	174.5	184.9	246.5	344.4	768.8	1537.6	1591.2	1693.1	940.4	460.1	253.4
85°	104.8	112.3	150.9	217.7	437.7	604.7	604.1	668.0	442.9	296.0	133.6
87.5°	50.1	55.9	80.6	112.9	220.6	226.9	212.5	240.7	268.9	194.1	67.4
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°	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1713.3	1711.0	1703.5	1697.7	1696.6	1693.1	1690.3	1692.0	1694.3	1694.9	1694.9
5°	1712.7	1706.4	1696.6	1692.6	1697.7	1704.7	1713.3	1724.8	1731.7	1736.9	1740.4
7.5°	1740.4	1728.3	1717.3	1715.0	1725.4	1743.8	1763.4	1787.6	1804.3	1815.8	1818.1
10°	1786.4	1771.5	1760.5	1762.8	1781.2	1807.7	1835.4	1866.5	1891.8	1907.4	1908.5
12.5°	1839.4	1825.0	1814.6	1824.4	1855.0	1887.2	1916.0	1943.1	1966.1	1981.7	1981.7
15°	1900.5	1890.1	1878.0	1900.5	1941.9	1970.7	1982.8	1996.1	2008.7	2020.2	2017.9
17.5°	1959.2	1949.4	1943.1	1969.6	2012.8	2026.0	2017.9	2008.2	2008.2	2014.5	2015.6
20°	2009.9	2001.2	2005.3	2031.2	2053.6	2039.8	2009.9	1978.8	1966.1	1969.6	1973.0
22.5°	2054.2	2050.2	2062.3	2074.4	2058.3	2009.9	1954.6	1912.6	1897.0	1895.9	1897.0
25°	2106.1	2105.5	2120.5	2098.6	2027.2	1937.9	1863.6	1822.7	1814.1	1821.0	1832.5
27.5°	2170.6	2176.9	2184.4	2104.3	1963.8	1829.0	1753.6	1725.4	1734.0	1750.7	1761.7
30°	2252.9	2270.2	2254.1	2089.9	1872.8	1704.7	1632.7	1624.6	1648.2	1671.8	1683.3
32.5°	2333.0	2360.0	2320.9	2052.5	1755.3	1572.8	1516.9	1514.6	1543.4	1566.4	1582.6
35°	2397.5	2451.0	2371.0	1978.2	1619.4	1451.3	1410.4	1394.8	1405.2	1432.3	1450.7
37.5°	2481.5	2570.8	2405.5	1864.8	1472.0	1351.1	1303.3	1267.5	1258.3	1269.3	1278.5
40°	2635.3	2753.4	2421.6	1706.4	1328.0	1250.8	1202.5	1150.1	1113.8	1087.3	1087.9
42.5°	2886.4	2991.2	2411.3	1514.0	1195.0	1152.9	1098.2	1037.8	979.0	919.1	914.5
45°	3294.1	3344.8	2380.2	1310.2	1078.1	1050.4	999.2	938.7	860.4	792.4	786.1
47.5°	3946.6	3834.3	2331.8	1132.2	975.0	963.5	916.3	846.6	763.6	708.9	704.3
50°	4836.4	4540.9	2308.2	990.5	884.0	887.5	848.9	775.2	696.8	656.5	651.9
52.5°	5900.6	5363.9	2353.7	881.1	810.9	823.0	794.2	725.1	659.4	627.7	623.1
55°	7004.6	6216.2	2402.6	801.6	741.8	765.4	755.6	698.6	639.2	609.9	605.8
57.5°	7949.7	6852.6	2304.7	737.1	680.1	717.0	725.6	681.9	628.9	602.4	597.8
60°	8544.6	7108.9	2047.9	676.7	631.2	678.4	708.4	677.3	632.9	630.6	627.2
62.5°	8826.8	7086.4	1662.6	628.9	600.7	661.7	721.0	703.2	679.0	699.7	701.4
65°	8700.1	6747.8	1238.2	597.2	578.8	668.0	759.0	752.1	692.2	713.0	715.8
67.5°	7866.2	5939.8	916.8	569.6	554.6	685.9	828.1	768.2	666.3	681.3	672.1
70°	6357.9	4709.1	707.2	538.5	529.8	683.6	859.2	758.5	638.1	641.5	616.8
72.5°	4384.3	3211.2	575.3	509.7	494.1	623.1	837.4	734.3	614.5	588.0	555.2
75°	2384.2	1723.7	488.9	479.7	431.3	547.1	797.0	717.0	593.2	558.0	539.6
77.5°	938.1	715.3	424.4	438.8	377.2	483.2	752.1	684.2	563.8	517.7	508.5
80°	383.0	365.1	351.9	379.5	324.2	422.7	698.0	645.6	528.7	480.3	461.9
82.5°	217.1	226.9	273.6	299.5	263.2	389.3	672.1	614.5	486.6	430.2	408.3
85°	111.1	133.0	190.6	214.8	193.5	331.1	619.1	537.9	390.5	329.4	331.1
87.5°	53.6	74.3	120.4	134.8	125.5	239.6	462.4	389.9	304.1	240.7	233.2
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)