

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: P319177

Luminaire Tested: **GLEON-SA3D-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319177
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-SA3D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17291 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

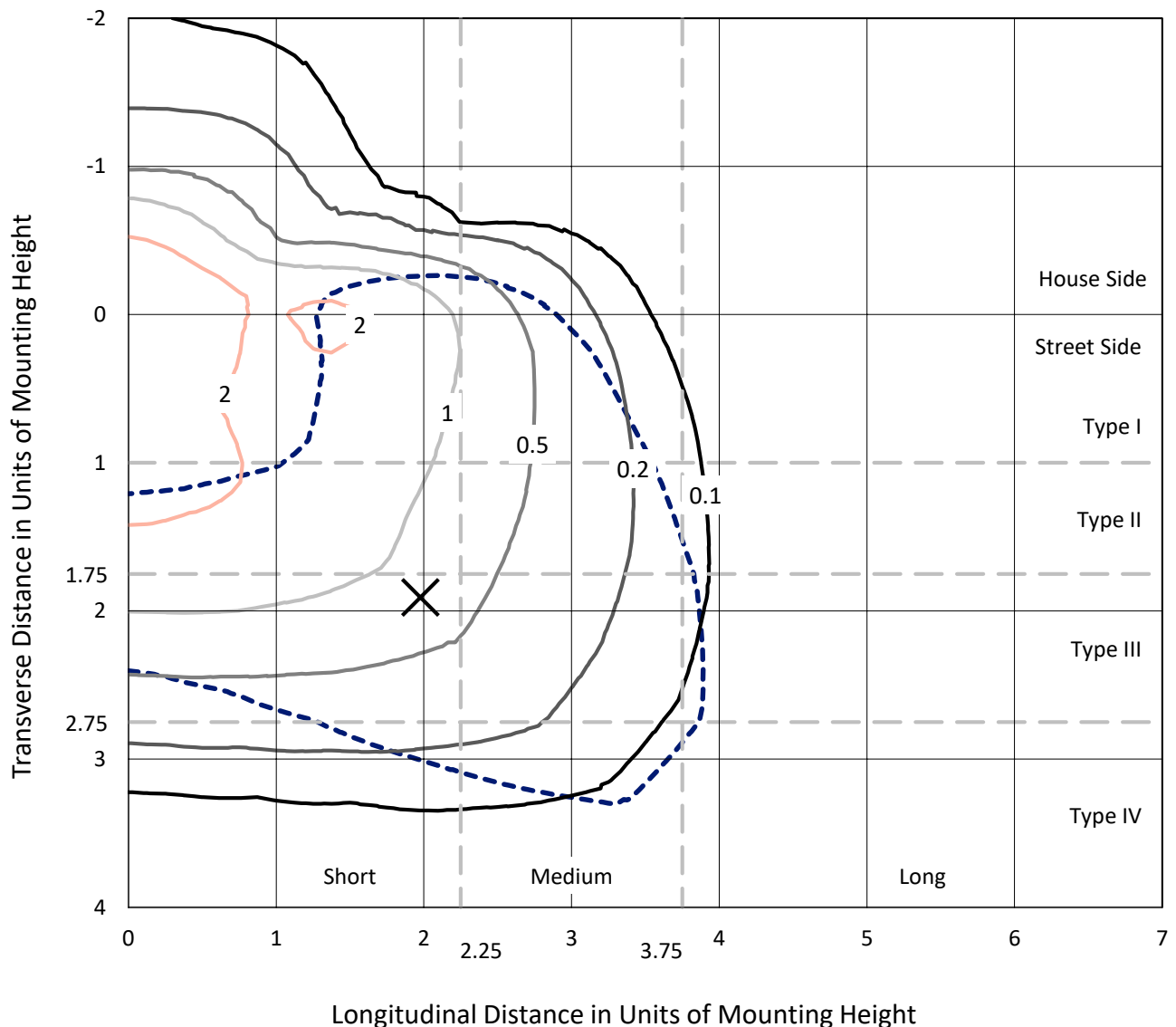
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

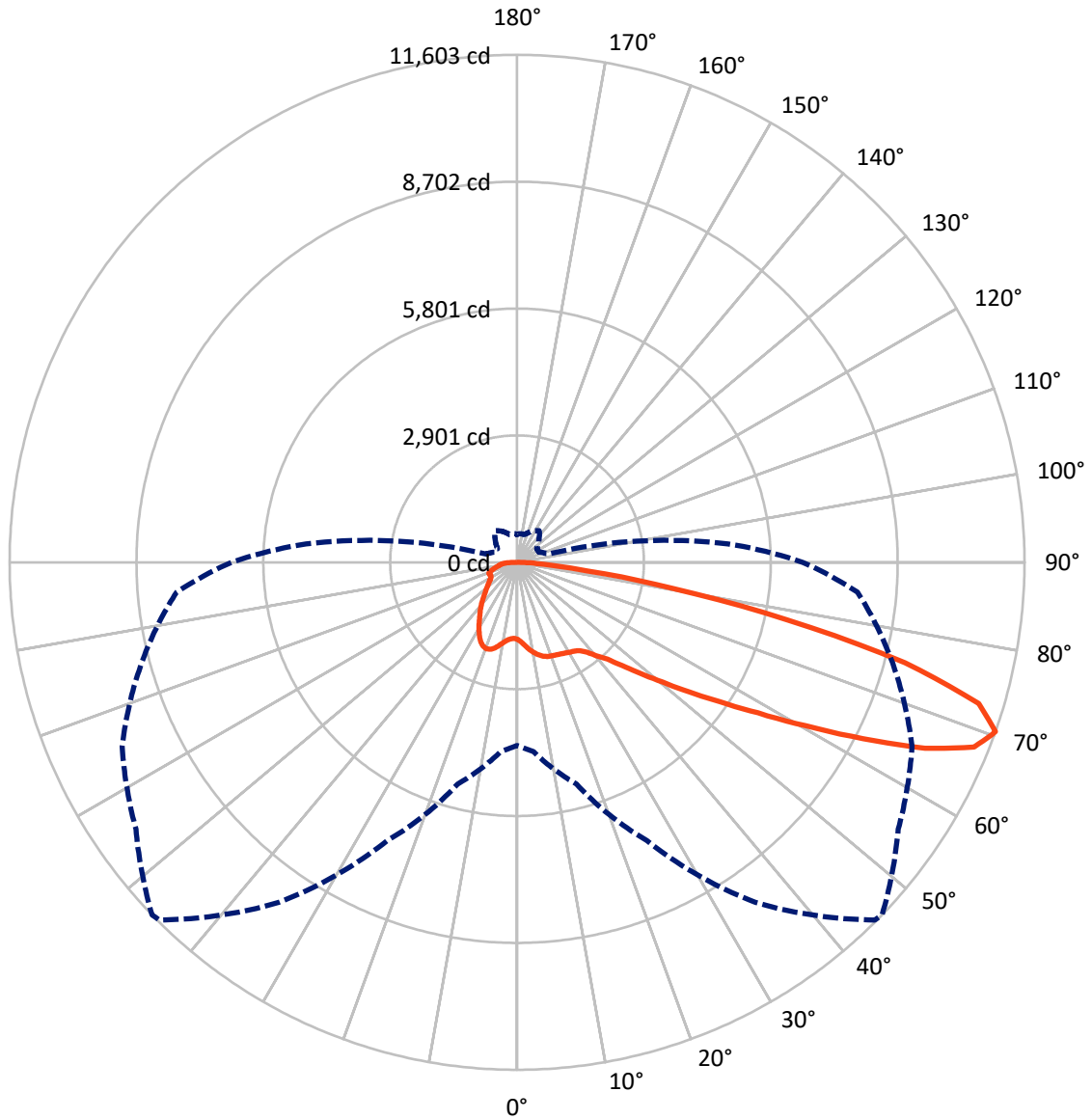
✕ Max cd
 - - - 1/2 Max cd



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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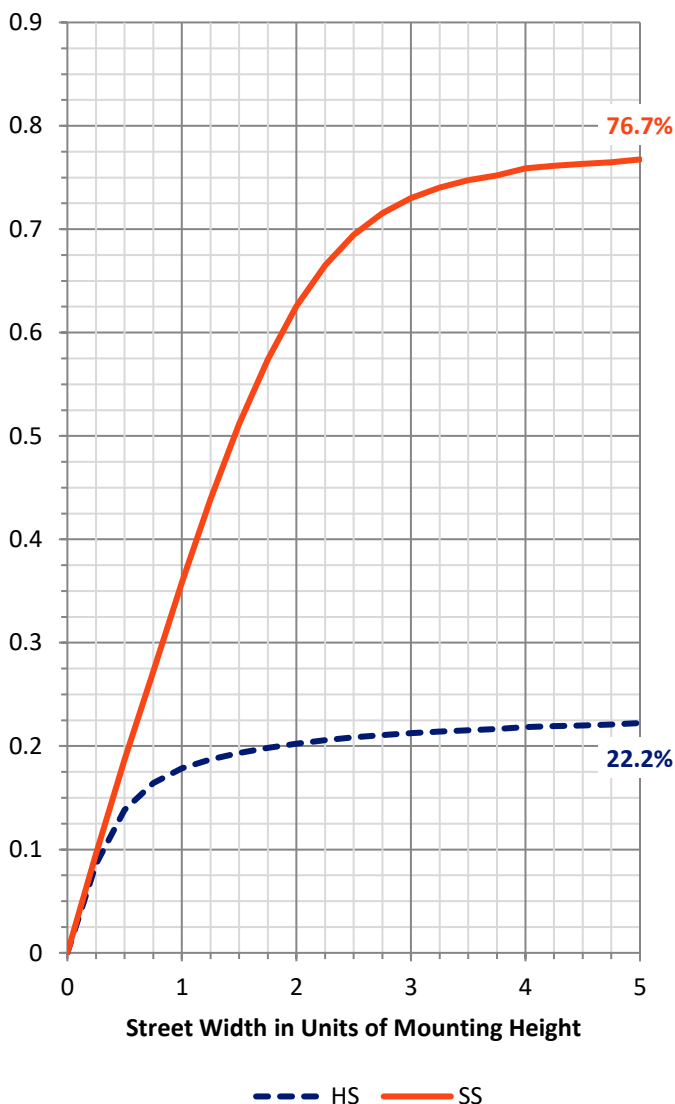
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3963.0	0.0	3963.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13328.0	0.0	13328.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	17291.0	0.0	17291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	1.0
10°-20°	598.3	3.5
20°-30°	997.6	5.8
30°-40°	1415.7	8.2
40°-50°	2082.4	12.0
50°-60°	3526.6	20.4
60°-70°	5005.9	29.0
70°-80°	3041.1	17.6
80°-90°	443.8	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°	17291.0	100.0
0°-180°	17291.0	100.0

Coefficient of Utilization

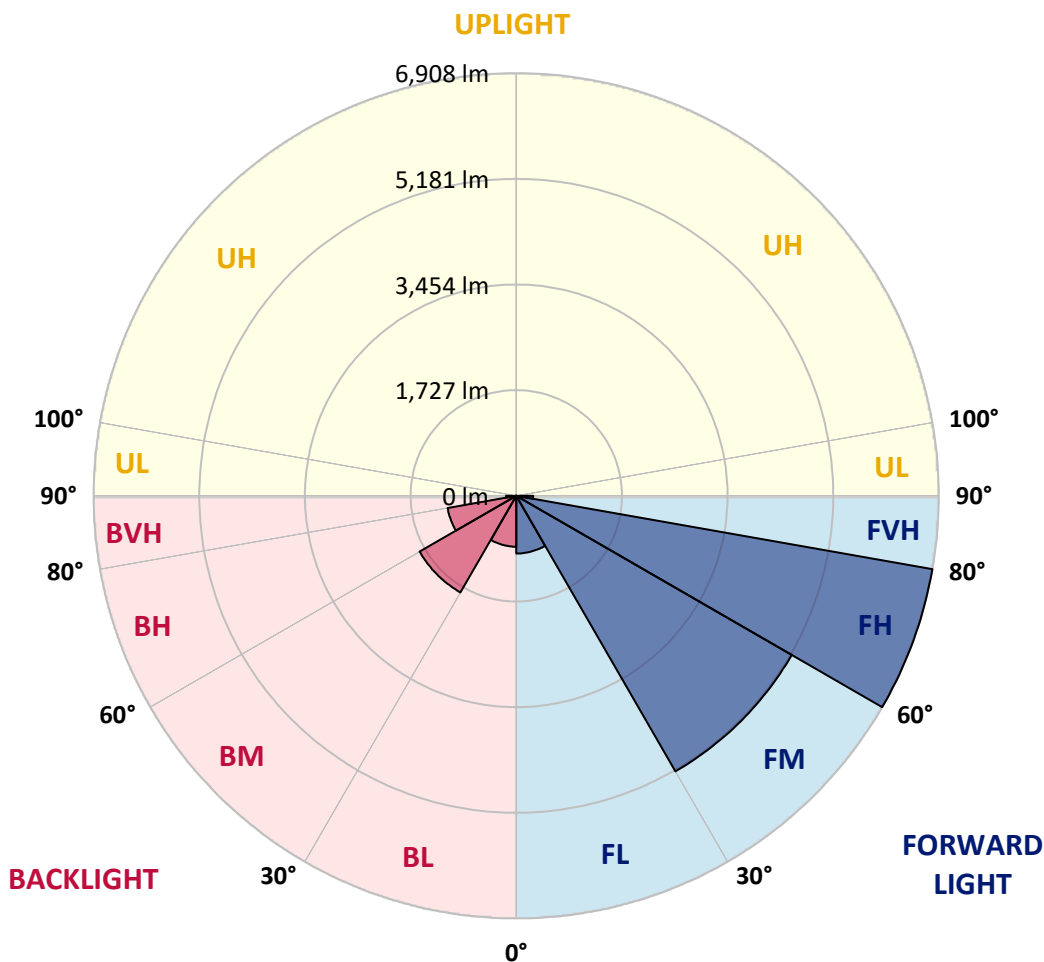


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.5	5.5			
FM (30°-60°)	5200.4	30.1			
FH (60°-80°)	6907.7	39.9			G3/7500
FVH (80°-90°)	276.5	1.6			G3/500
BL (0°-30°)	832.1	4.8	B2/1000		
BM (30°-60°)	1824.3	10.6	B2/2500		
BH (60°-80°)	1139.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	167.4	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°	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6
2.5°	1849.8	1851.0	1853.3	1847.4	1830.8	1826.1	1824.3	1807.2	1795.9	1779.4	1765.2
5°	1997.7	1998.9	1995.4	1978.8	1942.1	1914.9	1912.5	1873.5	1837.9	1800.1	1771.7
7.5°	2152.2	2153.9	2142.7	2111.3	2059.9	2012.5	2009.6	1956.3	1902.4	1845.1	1802.4
10°	2288.9	2281.8	2263.4	2219.6	2158.7	2100.7	2098.3	2042.7	1980.6	1911.3	1854.5
12.5°	2380.0	2374.1	2350.4	2297.1	2230.3	2177.0	2172.3	2120.8	2060.4	1984.7	1916.7
15°	2430.3	2434.4	2402.5	2342.1	2277.0	2232.0	2227.9	2191.2	2137.4	2061.0	1982.9
17.5°	2436.8	2440.3	2409.6	2349.8	2296.5	2265.8	2264.0	2239.7	2200.7	2127.3	2045.7
20°	2398.9	2401.3	2375.8	2326.7	2291.8	2282.3	2281.8	2271.1	2242.1	2177.0	2097.7
22.5°	2343.9	2345.7	2327.3	2291.8	2280.0	2294.8	2298.9	2294.8	2274.1	2213.1	2138.6
25°	2330.3	2329.1	2310.2	2274.1	2284.1	2315.5	2320.8	2322.6	2308.4	2255.1	2190.6
27.5°	2396.0	2391.8	2355.7	2297.7	2304.2	2342.1	2349.2	2366.4	2357.5	2310.8	2249.8
30°	2585.9	2578.8	2504.8	2387.7	2355.7	2375.3	2384.1	2411.3	2413.1	2374.1	2328.5
32.5°	2906.6	2897.8	2765.2	2555.7	2442.7	2409.0	2417.3	2458.1	2480.0	2449.8	2400.7
35°	3312.0	3301.9	3127.9	2841.5	2588.3	2473.5	2479.4	2511.9	2555.7	2513.1	2448.0
37.5°	3734.5	3710.2	3542.8	3177.7	2819.6	2611.4	2611.4	2615.5	2636.2	2547.4	2503.7
40°	4154.6	4130.4	3978.9	3572.9	3119.1	2828.5	2814.9	2723.2	2706.6	2630.3	2615.5
42.5°	4545.2	4538.1	4448.7	4019.7	3470.6	3042.1	3023.2	2867.6	2871.1	2823.8	2824.4
45°	4960.6	4960.6	4887.8	4470.6	3880.0	3385.4	3366.4	3137.4	3172.9	3151.0	3203.7
47.5°	5299.6	5310.3	5300.2	4940.4	4356.4	3821.5	3787.1	3511.4	3610.8	3686.0	3839.2
50°	5645.8	5662.4	5664.1	5455.9	4932.2	4339.8	4300.8	4007.9	4229.8	4445.2	4746.4
52.5°	6148.2	6185.5	6036.9	5970.1	5637.5	4955.2	4916.8	4646.4	5016.8	5319.2	5838.1
55°	6613.9	6581.3	6475.4	6516.8	6392.6	5655.9	5626.9	5389.6	5893.7	6286.7	6960.7
57.5°	6866.0	6863.6	6970.1	7147.6	7206.8	6519.8	6495.5	6264.8	6882.5	7177.8	8014.5
60°	7161.8	7166.0	7429.9	7832.9	8076.7	7595.6	7584.9	7409.8	7842.9	8009.8	8841.2
62.5°	7203.3	7277.8	7732.3	8425.8	8890.9	8852.5	8876.1	8441.2	8702.2	8673.7	9458.4
65°	6726.9	6825.1	7647.7	8605.1	9700.4	10227.1	10249.0	9478.5	9379.7	9241.2	9679.1
67.5°	5750.5	5896.1	6789.6	8215.1	9967.3	11243.1	11273.9	10282.7	9941.8	9433.5	9147.7
70°	4184.8	4346.3	5245.8	7016.3	9491.5	11568.0	11602.9	10638.3	9963.2	8886.2	7809.2
72.5°	2527.9	2654.6	3396.0	5165.3	8011.0	10976.2	11038.3	10187.4	9096.3	7527.0	5766.5
75°	1110.1	1193.0	1642.1	2976.5	5735.2	9081.5	9159.0	8719.9	7390.9	5470.1	3408.4
77.5°	472.8	496.5	673.4	1293.0	3242.2	6205.6	6312.1	6371.3	5014.4	2976.5	1440.3
80°	294.7	304.2	381.1	585.2	1517.2	3485.4	3600.2	3748.7	2490.0	1094.1	503.0
82.5°	179.3	189.9	253.3	353.9	790.0	1579.9	1635.0	1739.7	966.3	472.8	260.4
85°	107.7	115.4	155.0	223.7	449.7	621.3	620.7	686.4	455.0	304.2	137.3
87.5°	51.5	57.4	82.8	116.0	226.6	233.1	218.4	247.3	276.3	199.4	69.2
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°	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6	1761.6
2.5°	1760.4	1758.1	1750.4	1744.5	1743.3	1739.7	1736.8	1738.5	1740.9	1741.5	1741.5
5°	1759.8	1753.3	1743.3	1739.1	1744.5	1751.6	1760.4	1772.3	1779.4	1784.7	1788.2
7.5°	1788.2	1775.8	1764.6	1762.2	1772.9	1791.8	1811.9	1836.8	1853.9	1865.8	1868.1
10°	1835.6	1820.2	1809.0	1811.3	1830.3	1857.5	1885.9	1917.8	1943.9	1959.8	1961.0
12.5°	1890.0	1875.2	1864.6	1874.6	1906.0	1939.1	1968.7	1996.5	2020.2	2036.2	2036.2
15°	1952.7	1942.1	1929.7	1952.7	1995.4	2024.9	2037.4	2051.0	2064.0	2075.8	2073.5
17.5°	2013.1	2003.0	1996.5	2023.8	2068.1	2081.7	2073.5	2063.4	2063.4	2069.9	2071.1
20°	2065.2	2056.3	2060.4	2087.1	2110.2	2095.9	2065.2	2033.2	2020.2	2023.8	2027.3
22.5°	2110.7	2106.6	2119.0	2131.5	2114.9	2065.2	2008.4	1965.2	1949.2	1948.0	1949.2
25°	2164.0	2163.4	2178.8	2156.3	2082.9	1991.2	1914.9	1872.9	1864.0	1871.1	1882.9
27.5°	2230.3	2236.8	2244.5	2162.2	2017.8	1879.4	1801.9	1772.9	1781.7	1798.9	1810.1
30°	2314.9	2332.6	2316.1	2147.4	1924.3	1751.6	1677.6	1669.3	1693.6	1717.8	1729.7
32.5°	2397.1	2425.0	2384.7	2109.0	1803.6	1616.0	1558.6	1556.3	1585.9	1609.5	1626.1
35°	2463.4	2518.5	2436.2	2032.6	1664.0	1491.2	1449.2	1433.2	1443.8	1471.7	1490.6
37.5°	2549.8	2641.5	2471.7	1916.1	1512.5	1388.2	1339.1	1302.4	1293.0	1304.2	1313.7
40°	2707.8	2829.1	2488.3	1753.3	1364.6	1285.3	1235.6	1181.7	1144.4	1117.2	1117.8
42.5°	2965.8	3073.5	2477.6	1555.7	1227.9	1184.7	1128.5	1066.3	1006.0	944.4	939.7
45°	3384.8	3436.8	2445.7	1346.2	1107.7	1079.3	1026.7	964.5	884.1	814.2	807.7
47.5°	4055.2	3939.8	2396.0	1163.4	1001.8	990.0	941.5	869.9	784.6	728.4	723.7
50°	4969.4	4665.9	2371.7	1017.8	908.3	911.9	872.2	796.5	716.0	674.6	669.9
52.5°	6063.0	5511.5	2418.4	905.4	833.2	845.6	816.0	745.0	677.5	645.0	640.3
55°	7197.4	6387.3	2468.7	823.7	762.2	786.4	776.4	717.8	656.8	626.7	622.5
57.5°	8168.4	7041.1	2368.1	757.4	698.8	736.7	745.6	700.6	646.2	619.0	614.2
60°	8779.7	7304.5	2104.2	695.3	648.5	697.1	727.8	695.9	650.3	648.0	644.4
62.5°	9069.6	7281.4	1708.4	646.2	617.2	679.9	740.9	722.5	697.7	719.0	720.7
65°	8939.4	6933.4	1272.2	613.6	594.7	686.4	779.9	772.8	711.3	732.6	735.5
67.5°	8082.6	6103.2	942.1	585.2	569.8	704.8	850.9	789.4	684.6	700.0	690.6
70°	6532.8	4838.7	726.7	553.3	544.4	702.4	882.9	779.3	655.6	659.2	633.8
72.5°	4504.9	3299.6	591.1	523.7	507.7	640.3	860.4	754.5	631.4	604.2	570.4
75°	2449.8	1771.1	502.4	492.9	443.2	562.2	819.0	736.7	609.5	573.4	554.5
77.5°	963.9	734.9	436.1	450.9	387.6	496.5	772.8	703.0	579.3	532.0	522.5
80°	393.5	375.2	361.6	390.0	333.2	434.3	717.2	663.3	543.2	493.5	474.6
82.5°	223.1	233.1	281.1	307.7	270.4	400.0	690.6	631.4	500.0	442.0	419.5
85°	114.2	136.7	195.9	220.7	198.8	340.3	636.1	552.7	401.2	338.5	340.3
87.5°	55.0	76.3	123.7	138.5	129.0	246.2	475.2	400.6	312.4	247.3	239.7
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)