

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: STREETWORKS

Report Number: P478508

Luminaire Tested: **IFLD-S-SA3B-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

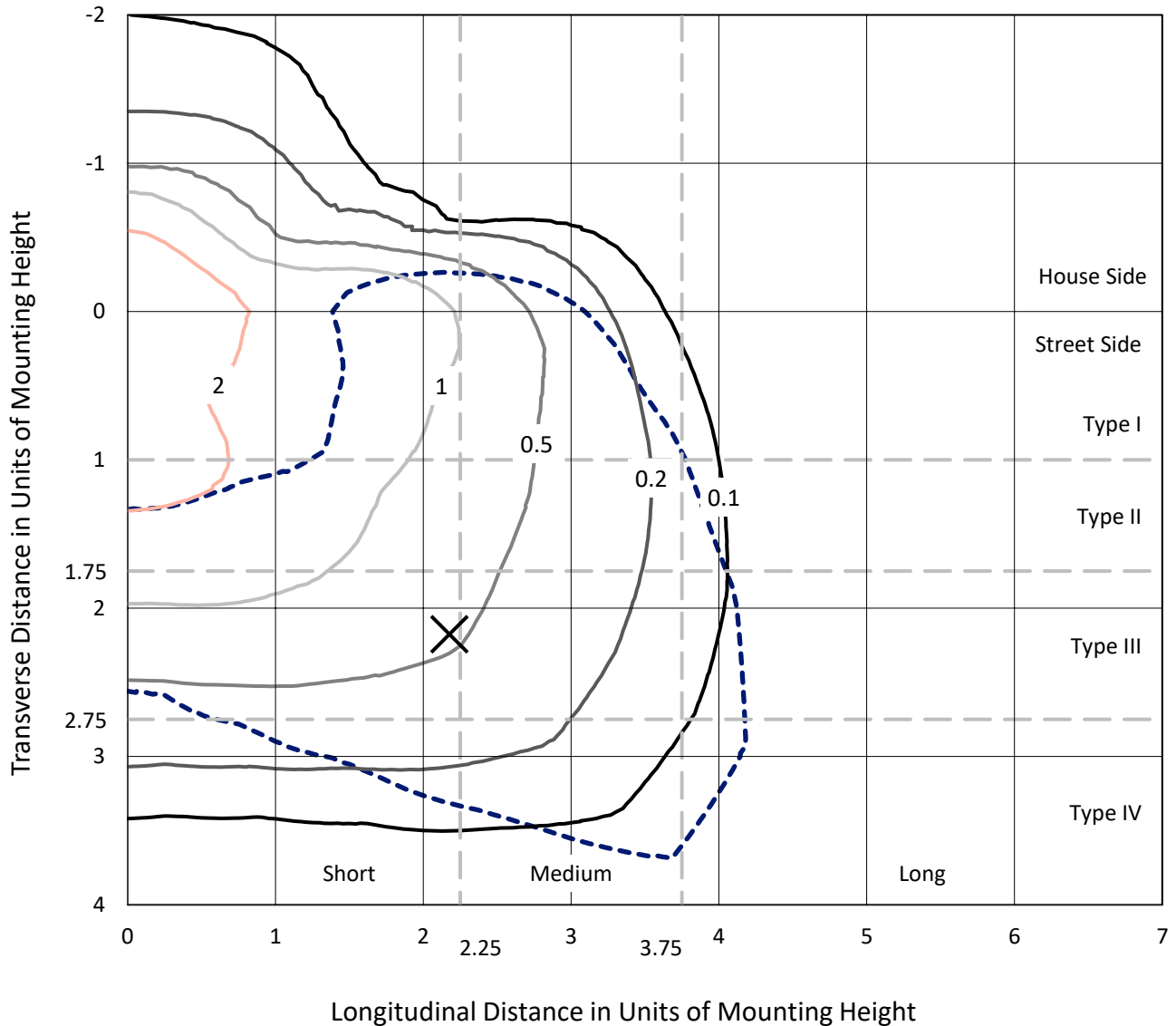
Lumens per Lamp: N/A
Luminaire Lumens: 16963.7 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4
Input Voltage (V): 120
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

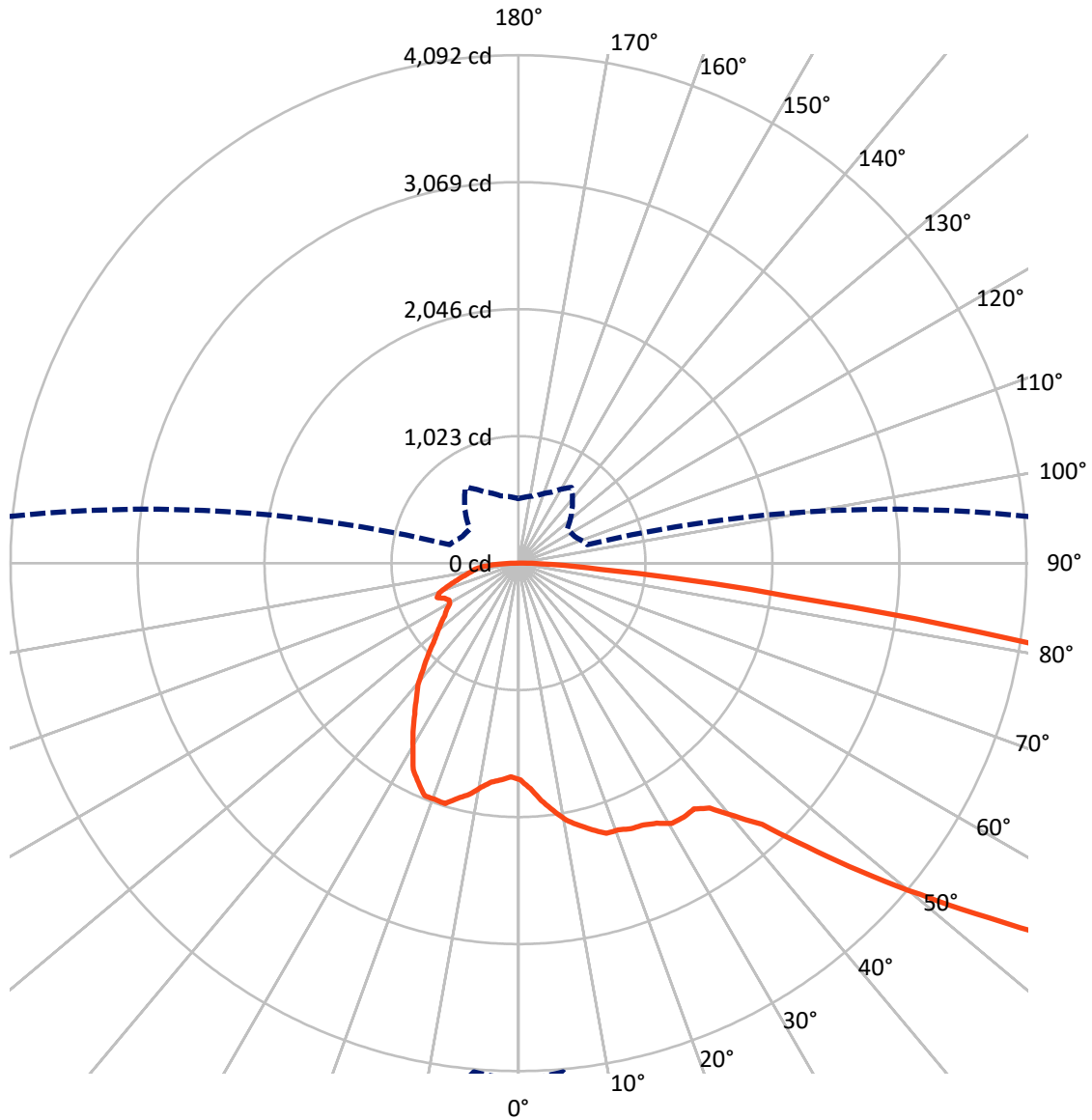
× Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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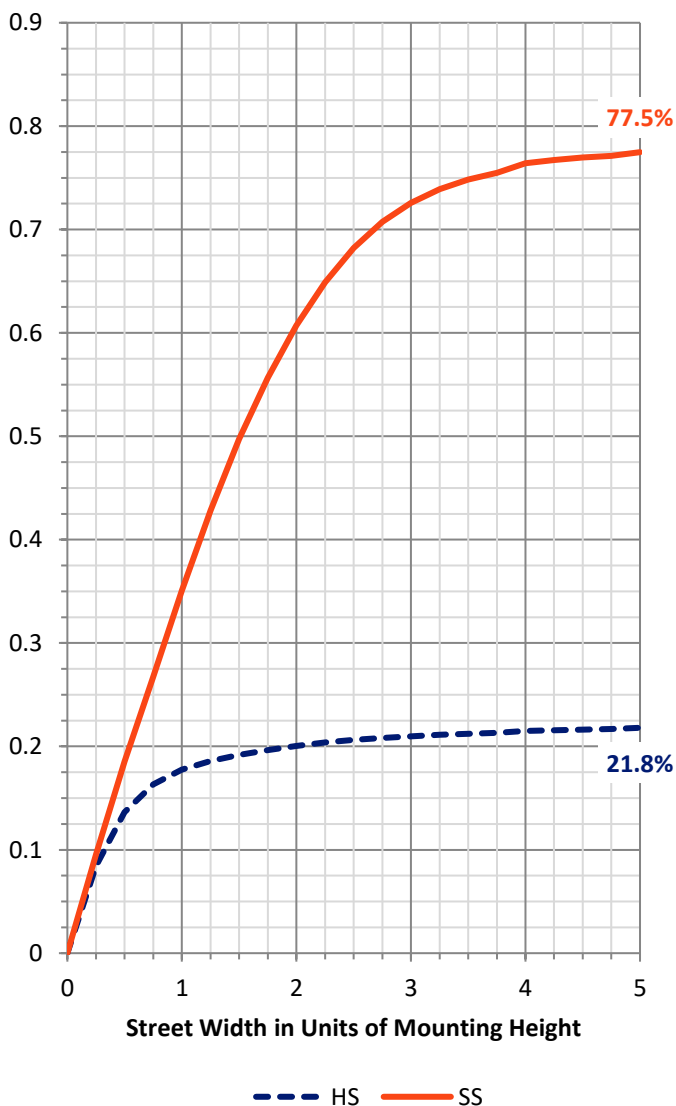
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3776.2	0.0	3776.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13187.5	0.0	13187.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	16963.7	0.0	16963.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.1
10°-20°	594.8	3.5
20°-30°	1004.4	5.9
30°-40°	1389.9	8.2
40°-50°	1988.1	11.7
50°-60°	3206.6	18.9
60°-70°	4729.2	27.9
70°-80°	3434.2	20.2
80°-90°	437.8	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°	16963.7	100.0
0°-180°	16963.7	100.0

Coefficient of Utilization



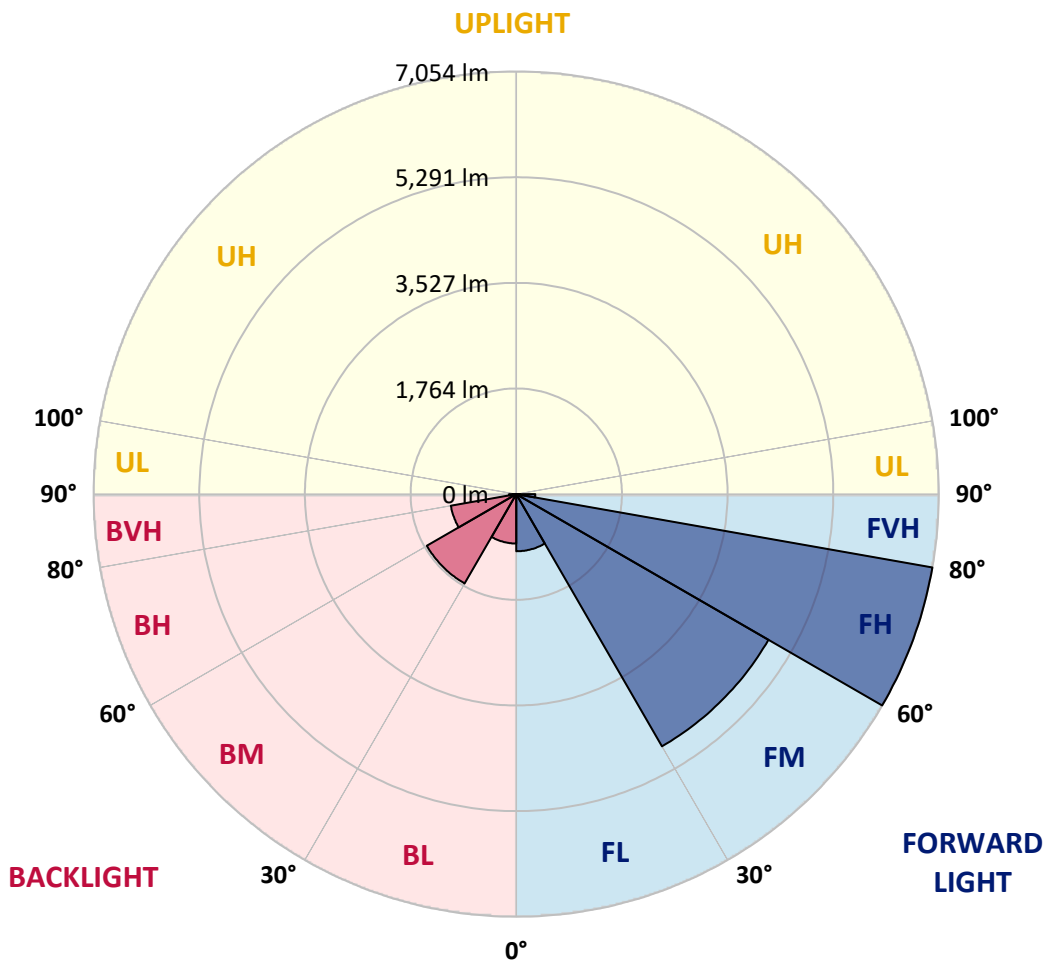
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	953.4	5.6			
FM (30°-60°)	4861.2	28.7			
FH (60°-80°)	7054.2	41.6			G3/7500
FVH (80°-90°)	318.6	1.9			G3/500
BL (0°-30°)	824.5	4.9	B2/1000		
BM (30°-60°)	1723.3	10.2	B2/2500		
BH (60°-80°)	1109.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	119.1	0.7			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°	44°	45°	55°	65°	75°	85°
0°	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9
2.5°	1840.2	1851.2	1840.2	1838.4	1820.1	1807.3	1818.3	1801.8	1783.5	1776.2	1759.8
5°	2008.5	2010.4	1990.2	1992.1	1953.7	1913.4	1920.7	1871.3	1818.3	1798.2	1765.2
7.5°	2180.5	2160.4	2131.1	2121.9	2061.6	2017.7	2012.2	1968.3	1886.0	1840.2	1794.5
10°	2292.1	2299.4	2251.8	2211.6	2160.4	2107.3	2105.5	2023.2	1975.6	1907.9	1849.4
12.5°	2390.9	2392.7	2352.4	2288.4	2224.4	2158.5	2167.7	2131.1	2050.6	1986.6	1928.0
15°	2467.7	2456.7	2412.8	2354.3	2286.6	2235.4	2229.9	2198.8	2131.1	2078.0	1981.1
17.5°	2489.6	2484.1	2440.2	2378.0	2312.2	2273.8	2288.4	2237.2	2209.8	2162.2	2068.9
20°	2447.6	2434.8	2427.4	2357.9	2310.4	2306.7	2293.9	2304.9	2259.1	2215.2	2147.6
22.5°	2370.7	2365.2	2361.6	2306.7	2284.8	2301.2	2323.2	2339.6	2332.3	2290.2	2213.4
25°	2292.1	2317.7	2293.9	2268.3	2299.4	2341.5	2336.0	2389.0	2389.0	2376.2	2312.2
27.5°	2346.9	2330.5	2312.2	2299.4	2310.4	2376.2	2372.6	2436.6	2460.4	2436.6	2363.4
30°	2484.1	2467.7	2414.6	2357.9	2343.3	2414.6	2432.9	2489.6	2500.6	2442.1	2379.9
32.5°	2742.1	2732.9	2648.8	2482.3	2392.7	2432.9	2442.1	2506.1	2496.9	2460.4	2434.8
35°	3124.4	3093.3	2976.2	2694.5	2496.9	2456.7	2432.9	2484.1	2518.9	2500.6	2476.8
37.5°	3543.3	3508.5	3364.0	3007.3	2685.4	2520.7	2502.4	2544.5	2584.8	2575.6	2526.2
40°	3943.9	3943.9	3814.0	3398.8	2965.2	2676.2	2679.9	2632.3	2668.9	2652.4	2661.6
42.5°	4339.0	4324.4	4271.3	3857.9	3265.2	2936.0	2877.4	2758.5	2824.4	2818.9	2831.7
45°	4739.6	4728.7	4714.0	4286.0	3695.1	3287.2	3256.1	3042.1	3102.4	3076.8	3131.7
47.5°	5059.8	5072.6	5072.6	4763.4	4154.3	3755.5	3709.8	3371.3	3486.6	3499.4	3512.2
50°	5332.3	5337.8	5332.3	5218.9	4666.5	4291.5	4198.2	3854.3	3969.5	4070.1	4187.2
52.5°	5709.1	5716.5	5690.8	5646.9	5361.6	4854.9	4750.6	4368.3	4604.3	4710.4	4920.7
55°	6173.8	6118.9	6071.3	6104.3	6029.3	5475.0	5367.1	4898.8	5253.7	5394.5	5815.2
57.5°	6259.8	6307.3	6428.0	6689.6	6797.6	6078.7	6016.5	5550.0	5987.2	6109.8	6812.2
60°	6563.4	6484.8	6781.1	7348.2	7468.9	6865.2	6801.2	6263.4	6717.1	6845.1	7732.3
62.5°	6762.8	6759.1	7198.2	7871.3	8145.7	7681.1	7551.2	7190.8	7505.5	7629.9	8734.7
65°	6704.3	6757.3	7536.6	8178.7	8711.0	8608.5	8533.5	7988.4	8403.7	8392.7	9387.8
67.5°	6170.1	6320.1	7322.6	8400.0	9552.4	9739.0	9715.2	9109.7	9133.5	8901.2	9678.7
70°	5429.3	5378.0	6417.1	8169.5	9973.2	11079.9	11074.4	9943.9	9790.2	9012.8	8844.5
72°	4170.7	4114.0	4968.3	7015.2	9751.8	11615.8	11780.5	10521.9	9782.9	8550.0	7306.1
72.5°	3786.6	3737.2	4587.8	6603.7	9506.7	11754.9	11678.0	10543.9	9706.1	8332.3	6825.0
75°	1743.3	1686.6	2292.1	4042.7	7415.8	10415.8	10677.4	9867.1	8476.8	6632.9	4088.4
77.5°	519.5	503.0	737.2	1631.7	4309.8	7673.8	7774.4	7445.1	5917.7	3632.9	1516.5
80°	289.0	290.9	380.5	611.0	1895.1	4436.0	4798.2	4598.8	2903.0	1200.0	504.9
82.5°	161.0	170.1	237.8	362.2	870.7	2036.0	2191.5	2112.8	1050.0	563.4	276.2
85°	84.1	87.8	124.4	193.9	493.9	643.9	662.2	709.8	545.1	384.1	148.2
87.5°	32.9	32.9	45.7	80.5	182.9	199.4	179.3	217.7	312.8	248.8	73.2
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°	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9	1746.9
2.5°	1774.4	1759.8	1757.9	1734.1	1741.5	1721.3	1723.2	1719.5	1721.3	1717.7	1708.5
5°	1765.2	1754.3	1723.2	1743.3	1725.0	1750.6	1770.7	1763.4	1768.9	1767.1	1768.9
7.5°	1778.0	1763.4	1759.8	1748.8	1765.2	1776.2	1792.7	1838.4	1834.8	1840.2	1851.2
10°	1816.5	1800.0	1789.0	1805.5	1796.3	1831.1	1849.4	1873.2	1915.2	1917.1	1895.1
12.5°	1891.5	1880.5	1858.5	1862.2	1893.3	1904.3	1915.2	1929.9	1957.3	1951.8	1971.9
15°	1977.4	1953.7	1940.9	1937.2	1944.5	1957.3	1955.5	1970.1	1984.8	1997.6	1992.1
17.5°	2039.6	2008.5	2012.2	2030.5	2028.7	2025.0	2001.2	1993.9	2001.2	2008.5	2004.9
20°	2103.7	2107.3	2079.9	2063.4	2056.1	2019.5	2001.2	1979.3	1957.3	1968.3	1984.8
22.5°	2184.1	2167.7	2127.4	2078.0	2041.5	2019.5	1962.8	1924.4	1924.4	1935.4	1929.9
25°	2275.6	2240.9	2171.3	2081.7	2036.0	1942.7	1902.4	1896.9	1882.3	1898.8	1906.1
27.5°	2346.9	2315.9	2220.7	2068.9	1942.7	1867.7	1843.9	1836.6	1860.4	1862.2	1891.5
30°	2376.2	2367.1	2228.0	2036.0	1847.6	1726.8	1712.2	1745.1	1770.7	1809.1	1811.0
32.5°	2414.6	2418.3	2239.0	1959.1	1723.2	1602.4	1580.5	1620.7	1693.9	1725.0	1748.8
35°	2478.7	2496.9	2229.9	1864.0	1591.5	1476.2	1472.6	1483.5	1554.9	1609.8	1640.9
37.5°	2590.2	2586.6	2228.0	1750.6	1487.2	1366.5	1337.2	1340.9	1388.4	1434.1	1428.7
40°	2740.2	2725.6	2222.6	1602.4	1351.8	1273.2	1223.8	1205.5	1201.8	1189.0	1192.7
42.5°	2945.1	2915.9	2220.7	1452.4	1229.3	1145.1	1110.4	1062.8	1028.0	962.2	965.9
45°	3230.5	3179.3	2173.2	1311.6	1108.5	1039.0	986.0	951.2	876.2	793.9	793.9
47.5°	3671.3	3504.9	2175.0	1156.1	991.5	934.8	898.2	837.8	757.3	691.5	684.1
50°	4320.7	3940.2	2112.8	1033.5	896.3	857.9	819.5	750.0	673.2	627.4	632.9
52.5°	5158.5	4589.6	2111.0	923.8	821.3	793.9	751.8	689.6	632.9	603.7	592.7
55°	6157.3	5449.4	2176.8	834.1	744.5	729.9	711.6	660.4	605.5	579.9	578.0
57.5°	7179.9	6289.0	2282.9	770.1	678.7	689.6	676.8	636.6	592.7	563.4	559.8
60°	8089.0	6954.9	2068.9	693.3	620.1	643.9	662.2	627.4	603.7	601.8	589.0
62.5°	8775.0	7240.2	1573.2	634.8	589.0	632.9	682.3	704.3	693.3	707.9	709.8
65°	9025.6	7068.3	1082.9	603.7	565.2	658.5	768.3	761.0	697.0	669.5	684.1
67.5°	8674.4	6371.3	803.0	567.1	548.8	711.6	817.7	726.2	629.3	625.6	614.6
70°	7459.8	5400.0	654.9	528.7	521.3	682.3	795.7	673.2	592.7	568.9	557.9
72°	5943.3	4205.5	574.4	501.2	477.4	609.1	744.5	631.1	561.6	532.3	519.5
72.5°	5425.6	3898.2	563.4	488.4	468.3	592.7	718.9	618.3	554.3	528.7	508.5
75°	2976.2	1995.7	495.7	448.2	395.1	512.2	665.9	579.9	523.2	486.6	482.9
77.5°	1106.7	773.8	428.0	397.0	342.1	442.7	605.5	550.6	475.6	429.9	420.7
80°	424.4	407.9	349.4	334.8	287.2	387.8	557.9	493.9	404.3	358.5	343.9
82.5°	257.9	237.8	265.2	261.6	219.5	353.0	525.0	462.8	358.5	290.9	281.7
85°	140.9	140.9	184.8	177.4	153.7	281.7	397.0	307.3	226.8	186.6	190.2
87.5°	62.2	73.2	98.8	93.3	84.1	159.1	193.9	162.8	113.4	76.8	82.3
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)