

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: P478583

Luminaire Tested: **IFLD-S-SA2D-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478583
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

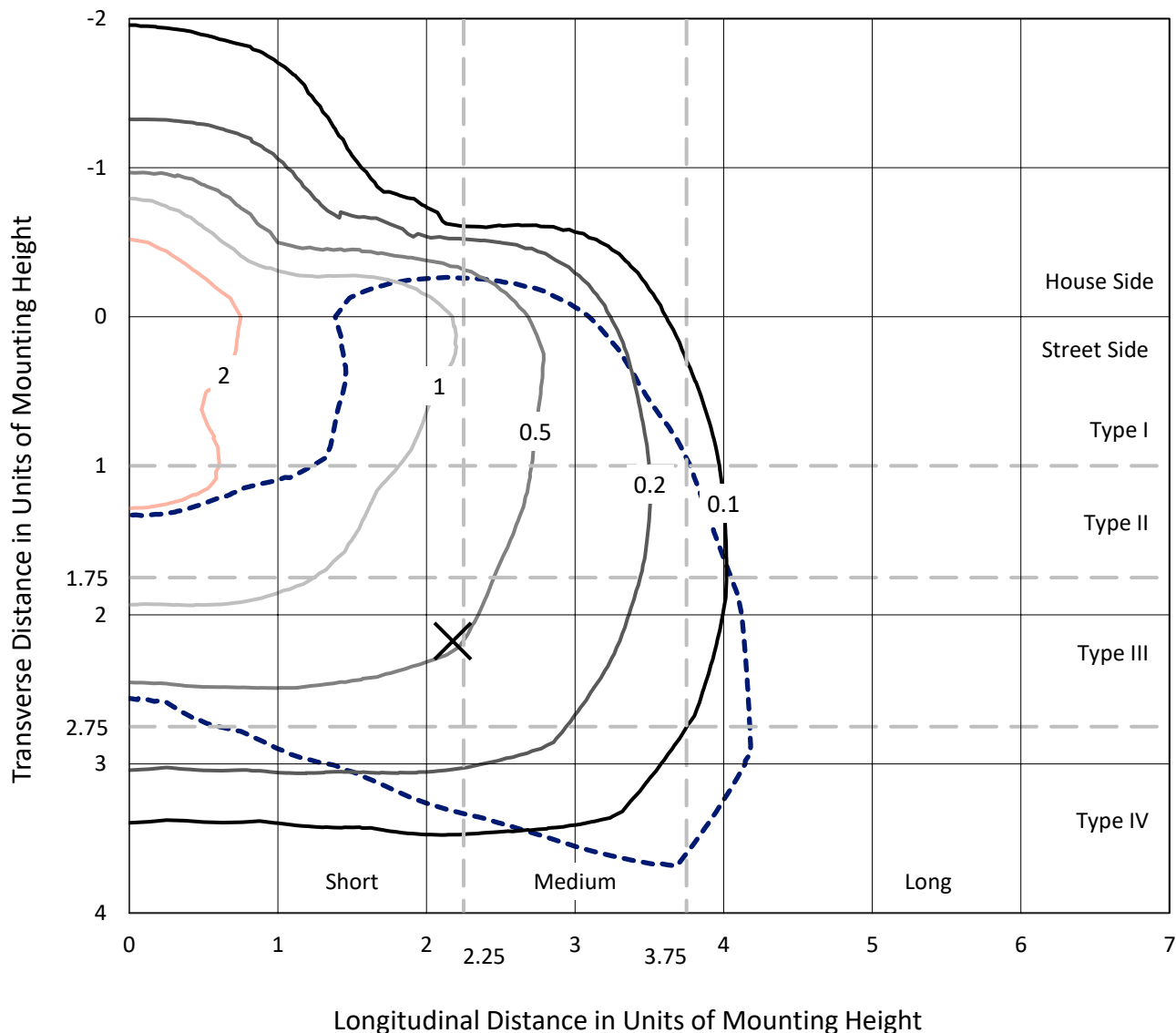
Lumens per Lamp: N/A
Luminaire Lumens: 16170.1 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 123.9
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

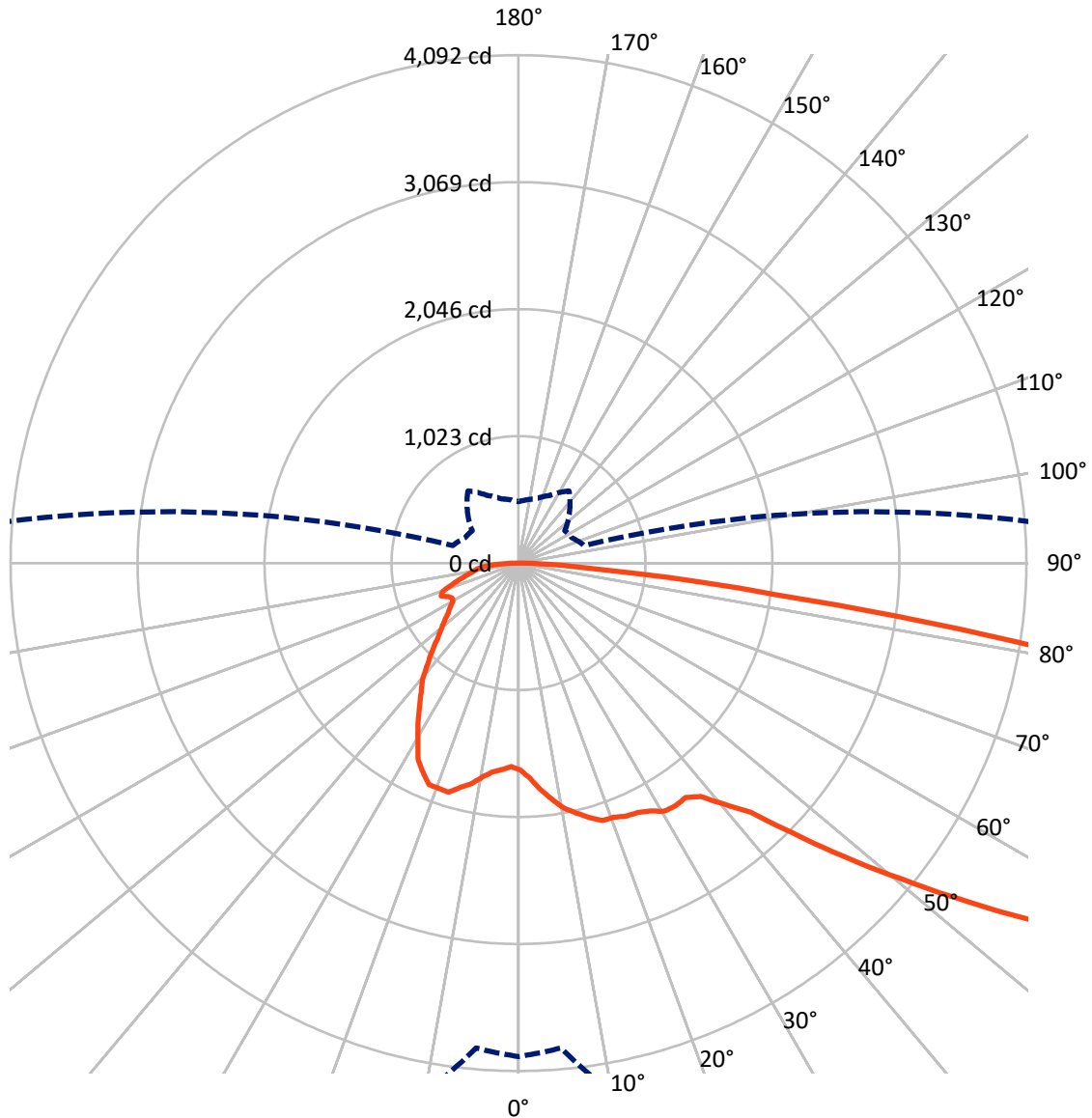
× Max cd
 - - - 1/2 Max cd



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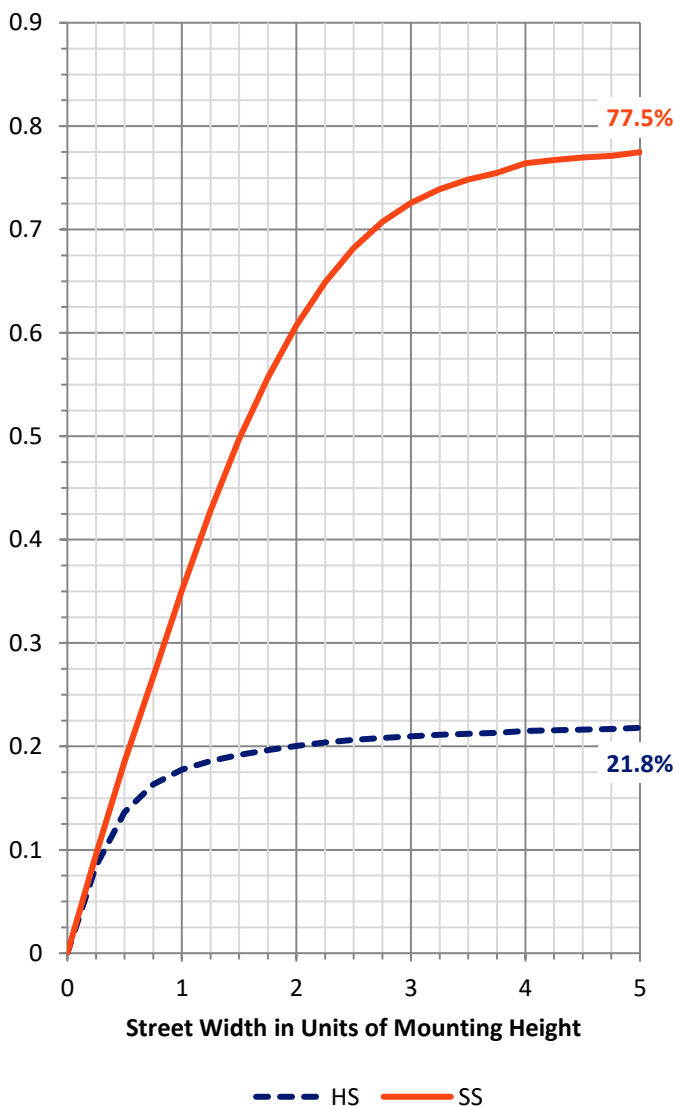
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3599.6	0.0	3599.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	12570.6	0.0	12570.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	16170.1	0.0	16170.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	1.1
10°-20°	566.9	3.5
20°-30°	957.4	5.9
30°-40°	1324.9	8.2
40°-50°	1895.1	11.7
50°-60°	3056.6	18.9
60°-70°	4508.0	27.9
70°-80°	3273.6	20.2
80°-90°	417.3	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°	16170.1	100.0
0°-180°	16170.1	100.0

Coefficient of Utilization



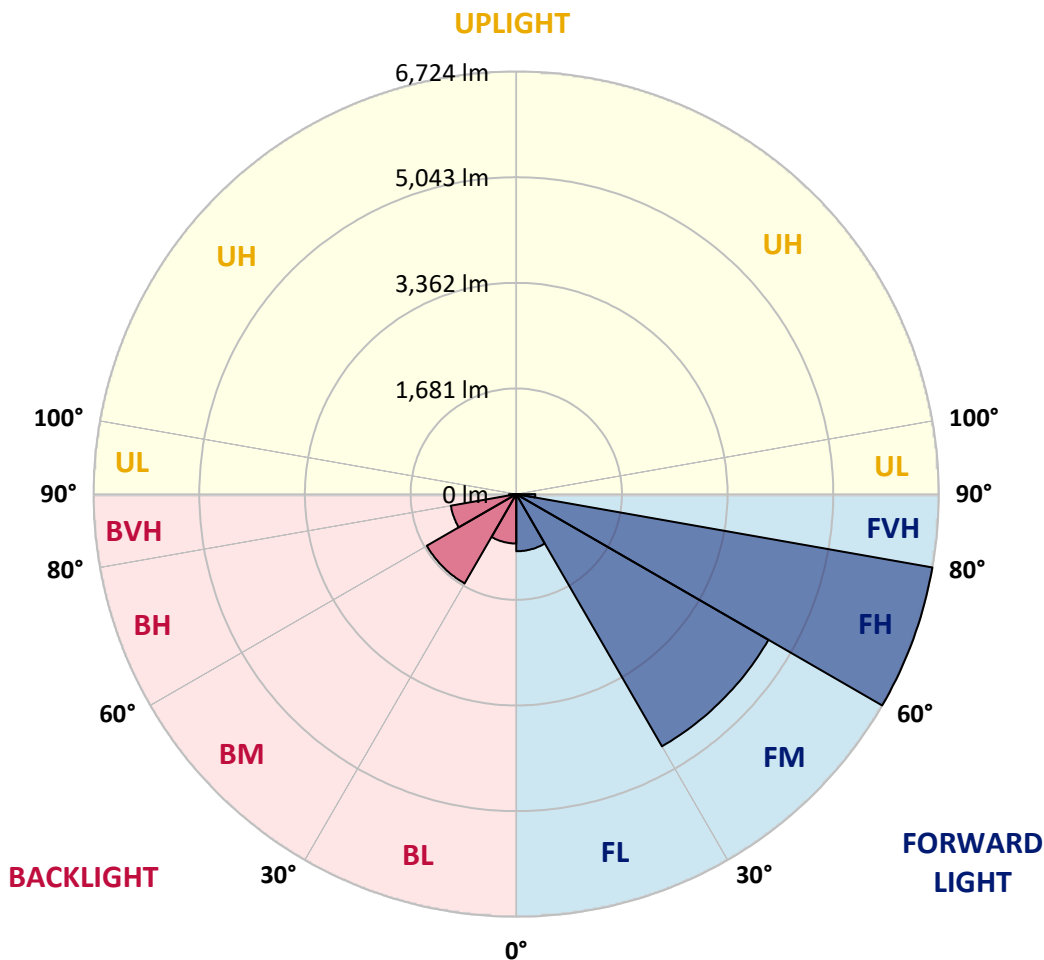
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	908.8	5.6			
FM (30°-60°)	4633.8	28.7			
FH (60°-80°)	6724.3	41.6			G3/7500
FVH (80°-90°)	303.7	1.9			G3/500
BL (0°-30°)	785.9	4.9	B2/1000		
BM (30°-60°)	1642.7	10.2	B2/2500		
BH (60°-80°)	1057.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	113.6	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°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1754.2	1764.6	1754.2	1752.4	1735.0	1722.8	1733.2	1717.5	1700.1	1693.1	1677.4
5°	1914.6	1916.3	1897.1	1898.9	1862.3	1823.9	1830.9	1783.8	1733.2	1714.1	1682.7
7.5°	2078.5	2059.3	2031.4	2022.7	1965.1	1923.3	1918.1	1876.2	1797.8	1754.2	1710.6
10°	2184.9	2191.8	2146.5	2108.1	2059.3	2008.7	2007.0	1928.5	1883.2	1818.7	1762.9
12.5°	2279.0	2280.8	2242.4	2181.4	2120.3	2057.6	2066.3	2031.4	1954.7	1893.7	1837.9
15°	2352.2	2341.8	2299.9	2244.1	2179.6	2130.8	2125.6	2095.9	2031.4	1980.8	1888.4
17.5°	2373.2	2367.9	2326.1	2266.8	2204.0	2167.4	2181.4	2132.5	2106.4	2061.0	1972.1
20°	2333.1	2320.9	2313.9	2247.6	2202.3	2198.8	2186.6	2197.1	2153.5	2111.6	2047.1
22.5°	2259.8	2254.6	2251.1	2198.8	2177.9	2193.6	2214.5	2230.2	2223.2	2183.1	2109.9
25°	2184.9	2209.3	2186.6	2162.2	2191.8	2231.9	2226.7	2277.3	2277.3	2265.1	2204.0
27.5°	2237.2	2221.5	2204.0	2191.8	2202.3	2265.1	2261.6	2322.6	2345.3	2322.6	2252.9
30°	2367.9	2352.2	2301.7	2247.6	2233.7	2301.7	2319.1	2373.2	2383.6	2327.8	2268.5
32.5°	2613.8	2605.1	2524.9	2366.2	2280.8	2319.1	2327.8	2388.9	2380.1	2345.3	2320.9
35°	2978.2	2948.6	2837.0	2568.5	2380.1	2341.8	2319.1	2367.9	2401.1	2383.6	2361.0
37.5°	3377.5	3344.4	3206.7	2866.6	2559.7	2402.8	2385.4	2425.5	2463.8	2455.1	2408.0
40°	3759.4	3759.4	3635.6	3239.8	2826.5	2551.0	2554.5	2509.2	2544.1	2528.4	2537.1
42.5°	4136.0	4122.1	4071.5	3677.5	3112.5	2798.6	2742.8	2629.5	2692.3	2687.0	2699.2
45°	4517.9	4507.5	4493.5	4085.5	3522.3	3133.4	3103.8	2899.8	2957.3	2932.9	2985.2
47.5°	4823.1	4835.3	4835.3	4540.6	3959.9	3579.8	3536.2	3213.6	3323.5	3335.7	3347.9
50°	5082.9	5088.1	5082.9	4974.8	4448.2	4090.7	4001.8	3674.0	3783.8	3879.7	3991.3
52.5°	5442.1	5449.0	5424.6	5382.8	5110.8	4627.8	4528.4	4163.9	4388.9	4490.0	4690.5
55°	5885.0	5832.7	5787.3	5818.7	5747.2	5218.9	5116.0	4669.6	5007.9	5142.2	5543.2
57.5°	5966.9	6012.3	6127.3	6376.7	6479.6	5794.3	5735.0	5290.4	5707.1	5823.9	6493.5
60°	6256.4	6181.4	6463.9	7004.4	7119.5	6544.1	6483.1	5970.4	6402.9	6524.9	7370.6
62.5°	6446.4	6443.0	6861.4	7503.1	7764.7	7321.8	7198.0	6854.5	7154.4	7273.0	8326.1
65°	6390.6	6441.2	7184.0	7796.1	8303.5	8205.8	8134.3	7614.7	8010.5	8000.1	8948.6
67.5°	5881.5	6024.5	6980.0	8007.1	9105.6	9283.4	9260.8	8683.6	8706.3	8484.8	9225.9
70°	5175.3	5126.5	6116.9	7787.3	9506.6	10561.6	10556.3	9478.7	9332.3	8591.2	8430.8
72°	3975.6	3921.6	4735.9	6687.1	9295.6	11072.5	11229.4	10029.7	9325.3	8150.0	6964.3
72.5°	3609.5	3562.4	4373.2	6294.7	9062.0	11205.0	11131.8	10050.7	9252.1	7942.5	6505.7
75°	1661.7	1607.7	2184.9	3853.6	7068.9	9928.6	10178.0	9405.5	8080.3	6322.6	3897.2
77.5°	495.2	479.5	702.7	1555.4	4108.1	7314.8	7410.7	7096.8	5640.9	3463.0	1445.5
80°	275.5	277.2	362.7	582.4	1806.5	4228.5	4573.7	4383.7	2767.2	1143.9	481.3
82.5°	153.4	162.2	226.7	345.3	830.0	1940.7	2088.9	2014.0	1000.9	537.1	263.3
85°	80.2	83.7	118.6	184.8	470.8	613.8	631.2	676.6	519.6	366.2	141.2
87.5°	31.4	31.4	43.6	76.7	174.4	190.1	170.9	207.5	298.2	237.1	69.7
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°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1691.4	1677.4	1675.7	1653.0	1660.0	1640.8	1642.6	1639.1	1640.8	1637.3	1628.6
5°	1682.7	1672.2	1642.6	1661.7	1644.3	1668.7	1687.9	1680.9	1686.2	1684.4	1686.2
7.5°	1694.9	1680.9	1677.4	1667.0	1682.7	1693.1	1708.8	1752.4	1748.9	1754.2	1764.6
10°	1731.5	1715.8	1705.3	1721.0	1712.3	1745.4	1762.9	1785.5	1825.6	1827.4	1806.5
12.5°	1803.0	1792.5	1771.6	1775.1	1804.7	1815.2	1825.6	1839.6	1865.8	1860.5	1879.7
15°	1884.9	1862.3	1850.1	1846.6	1853.5	1865.8	1864.0	1878.0	1891.9	1904.1	1898.9
17.5°	1944.2	1914.6	1918.1	1935.5	1933.8	1930.3	1907.6	1900.6	1907.6	1914.6	1911.1
20°	2005.3	2008.7	1982.6	1966.9	1959.9	1925.0	1907.6	1886.7	1865.8	1876.2	1891.9
22.5°	2082.0	2066.3	2027.9	1980.8	1946.0	1925.0	1871.0	1834.4	1834.4	1844.8	1839.6
25°	2169.2	2136.0	2069.8	1984.3	1940.7	1851.8	1813.4	1808.2	1794.3	1810.0	1816.9
27.5°	2237.2	2207.5	2116.8	1972.1	1851.8	1780.3	1757.6	1750.7	1773.3	1775.1	1803.0
30°	2265.1	2256.3	2123.8	1940.7	1761.1	1646.0	1632.1	1663.5	1687.9	1724.5	1726.3
32.5°	2301.7	2305.2	2134.3	1867.5	1642.6	1527.5	1506.6	1544.9	1614.7	1644.3	1667.0
35°	2362.7	2380.1	2125.6	1776.8	1517.0	1407.2	1403.7	1414.1	1482.1	1534.5	1564.1
37.5°	2469.1	2465.6	2123.8	1668.7	1417.6	1302.5	1274.6	1278.1	1323.5	1367.1	1361.8
40°	2612.1	2598.1	2118.6	1527.5	1288.6	1213.6	1166.5	1149.1	1145.6	1133.4	1136.9
42.5°	2807.4	2779.5	2116.8	1384.5	1171.8	1091.6	1058.4	1013.1	980.0	917.2	920.7
45°	3079.4	3030.5	2071.5	1250.2	1056.7	990.4	939.9	906.7	835.2	756.8	756.8
47.5°	3499.6	3340.9	2073.3	1102.0	945.1	891.0	856.2	798.6	721.9	659.1	652.1
50°	4118.6	3755.9	2014.0	985.2	854.4	817.8	781.2	714.9	641.7	598.1	603.3
52.5°	4917.2	4374.9	2012.2	880.6	782.9	756.8	716.7	657.4	603.3	575.4	565.0
55°	5869.3	5194.5	2075.0	795.1	709.7	695.7	678.3	629.5	577.2	552.8	551.0
57.5°	6844.0	5994.8	2176.1	734.1	646.9	657.4	645.2	606.8	565.0	537.1	533.6
60°	7710.6	6629.5	1972.1	660.9	591.1	613.8	631.2	598.1	575.4	573.7	561.5
62.5°	8364.5	6901.5	1499.6	605.1	561.5	603.3	650.4	671.3	660.9	674.8	676.6
65°	8603.4	6737.6	1032.3	575.4	538.8	627.7	732.4	725.4	664.3	638.2	652.1
67.5°	8268.6	6073.3	765.5	540.5	523.1	678.3	779.4	692.2	599.8	596.3	585.9
70°	7110.8	5147.4	624.2	503.9	497.0	650.4	758.5	641.7	565.0	542.3	531.8
72°	5665.3	4008.8	547.5	477.8	455.1	580.7	709.7	601.6	535.3	507.4	495.2
72.5°	5171.8	3715.8	537.1	465.6	446.4	565.0	685.3	589.4	528.3	503.9	484.7
75°	2837.0	1902.4	472.5	427.2	376.6	488.2	634.7	552.8	498.7	463.8	460.3
77.5°	1054.9	737.6	408.0	378.4	326.1	422.0	577.2	524.9	453.4	409.8	401.1
80°	404.5	388.8	333.0	319.1	273.8	369.7	531.8	470.8	385.4	341.8	327.8
82.5°	245.9	226.7	252.8	249.3	209.2	336.5	500.4	441.2	341.8	277.2	268.5
85°	134.3	134.3	176.1	169.1	146.5	268.5	378.4	292.9	216.2	177.9	181.3
87.5°	59.3	69.7	94.2	88.9	80.2	151.7	184.8	155.2	108.1	73.2	78.5
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)