

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: P478505

Luminaire Tested: **IFLD-S-SA2D-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478505
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

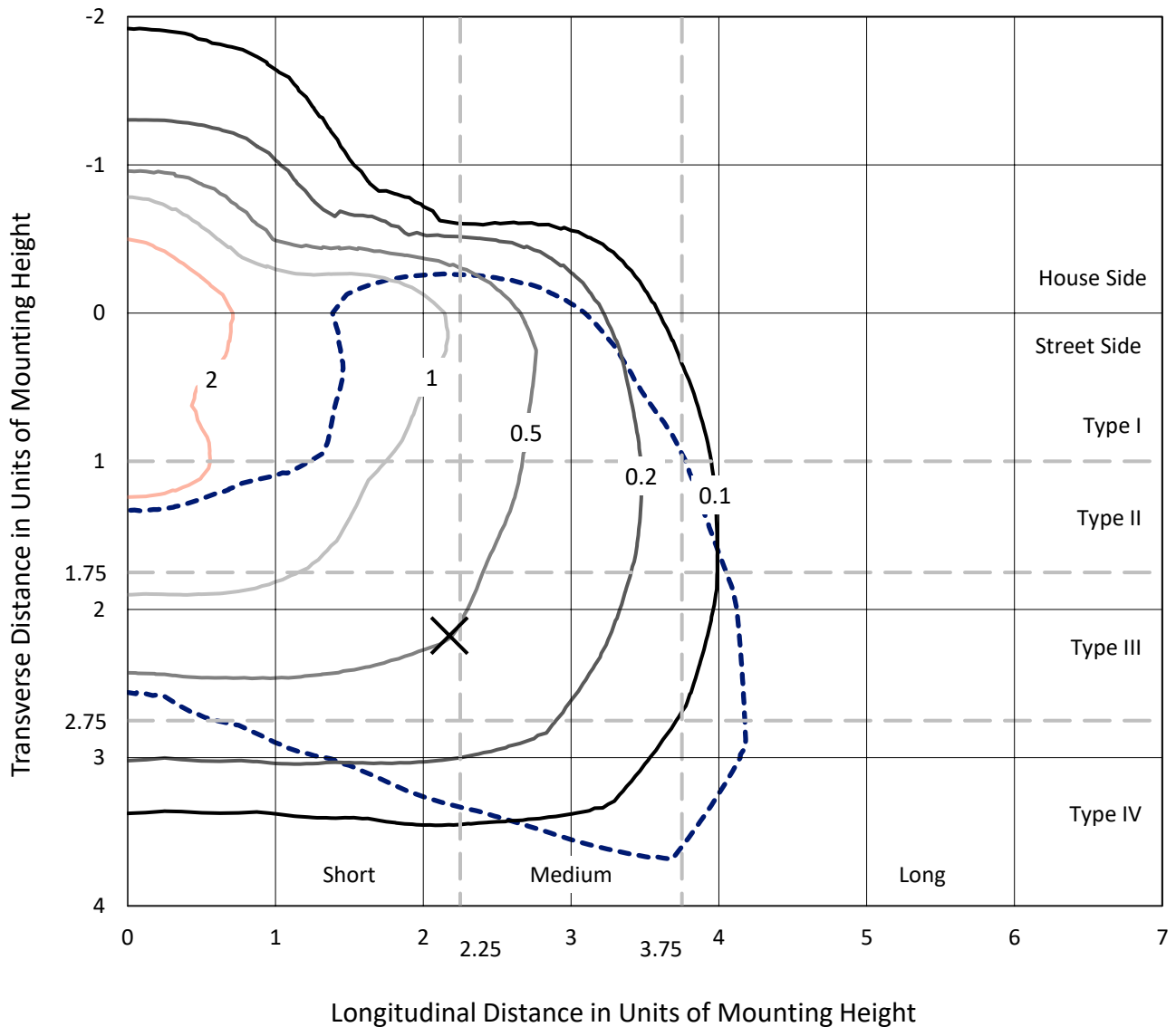
Lumens per Lamp: N/A
Luminaire Lumens: 15591.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (A_{in}): 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

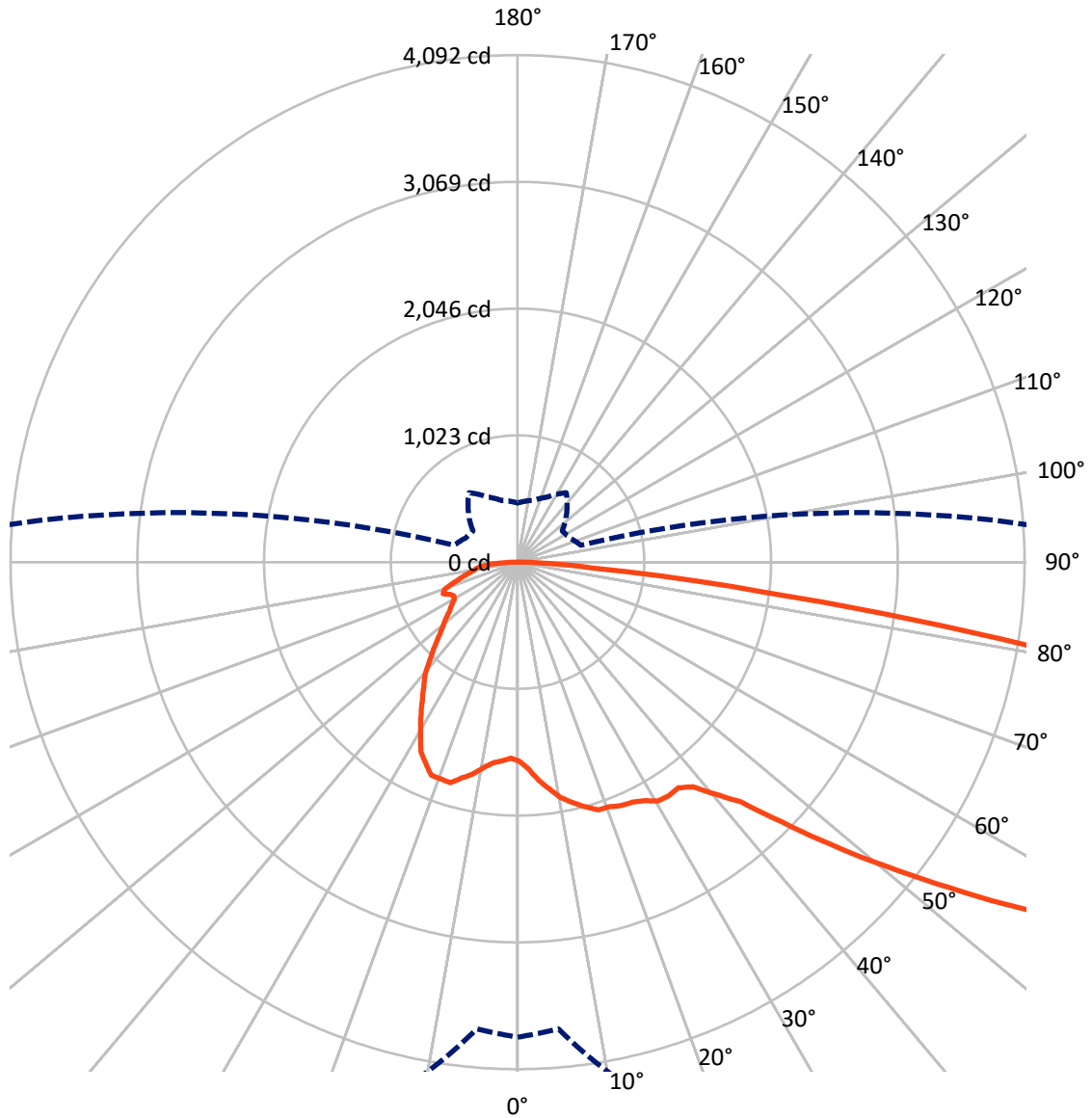
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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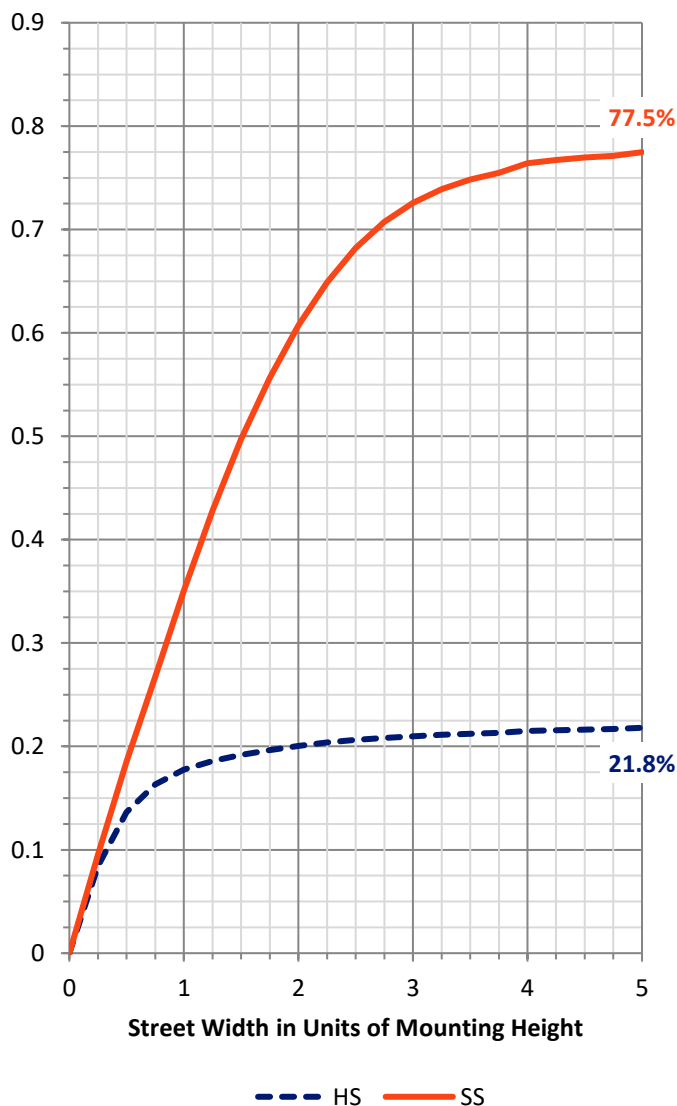
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3470.8	0.0	3470.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	12120.8	0.0	12120.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	15591.5	0.0	15591.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	1.1
10°-20°	546.6	3.5
20°-30°	923.1	5.9
30°-40°	1277.5	8.2
40°-50°	1827.3	11.7
50°-60°	2947.2	18.9
60°-70°	4346.7	27.9
70°-80°	3156.5	20.2
80°-90°	402.4	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°	15591.5	100.0
0°-180°	15591.5	100.0

Coefficient of Utilization



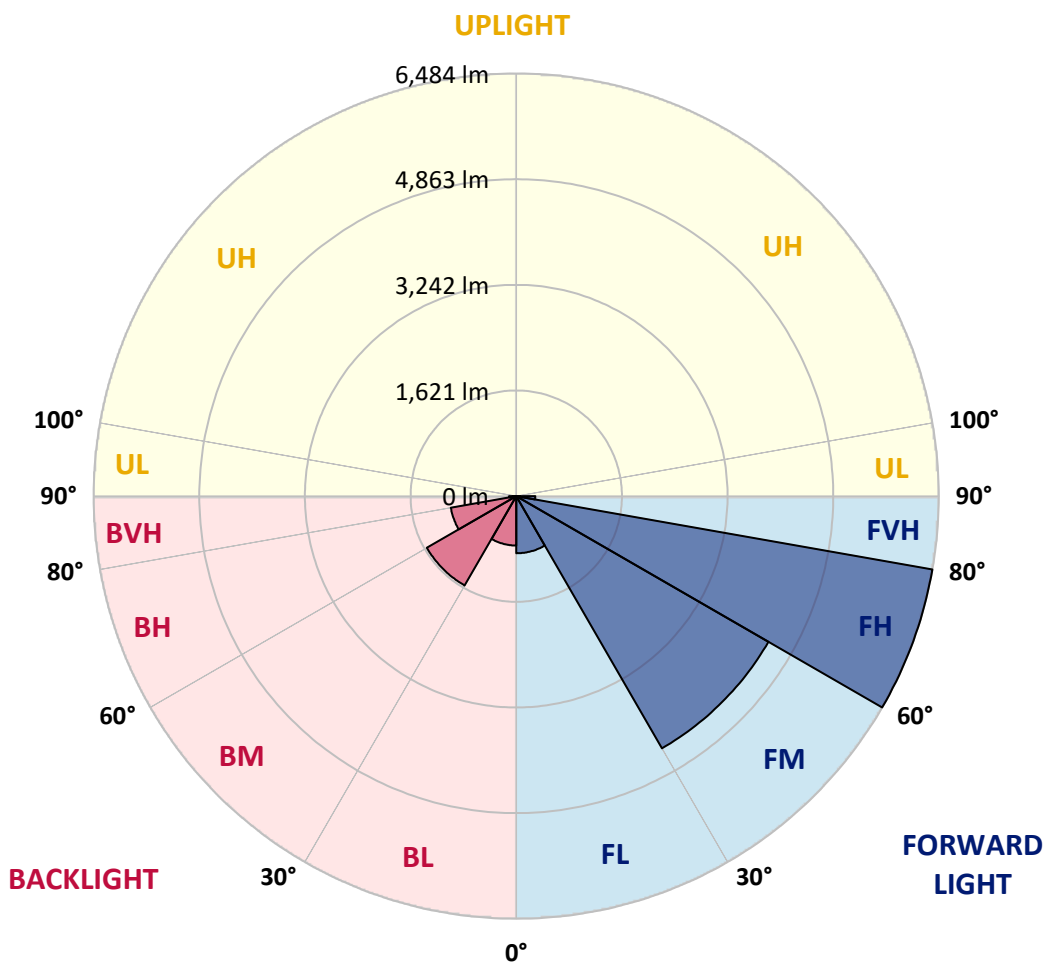
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.3	5.6			
FM (30°-60°)	4468.0	28.7			
FH (60°-80°)	6483.7	41.6			G3/7500
FVH (80°-90°)	292.9	1.9			G3/500
BL (0°-30°)	757.8	4.9	B2/1000		
BM (30°-60°)	1584.0	10.2	B2/2500		
BH (60°-80°)	1019.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	109.5	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°	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6
2.5°	1691.4	1701.5	1691.4	1689.7	1672.9	1661.1	1671.2	1656.1	1639.3	1632.5	1617.4
5°	1846.1	1847.8	1829.3	1830.9	1795.6	1758.6	1765.4	1720.0	1671.2	1652.7	1622.5
7.5°	2004.1	1985.6	1958.7	1950.3	1894.8	1854.5	1849.4	1809.1	1733.4	1691.4	1649.4
10°	2106.7	2113.4	2069.7	2032.7	1985.6	1936.9	1935.2	1859.5	1815.8	1753.6	1699.8
12.5°	2197.5	2199.1	2162.2	2103.3	2044.5	1983.9	1992.3	1958.7	1884.7	1825.9	1772.1
15°	2268.1	2258.0	2217.6	2163.8	2101.6	2054.6	2049.5	2020.9	1958.7	1910.0	1820.9
17.5°	2288.3	2283.2	2242.9	2185.7	2125.2	2089.9	2103.3	2056.2	2031.0	1987.3	1901.6
20°	2249.6	2237.8	2231.1	2167.2	2123.5	2120.1	2108.4	2118.4	2076.4	2036.1	1973.9
22.5°	2179.0	2173.9	2170.6	2120.1	2100.0	2115.1	2135.3	2150.4	2143.7	2105.0	2034.4
25°	2106.7	2130.2	2108.4	2084.8	2113.4	2152.1	2147.0	2195.8	2195.8	2184.0	2125.2
27.5°	2157.1	2142.0	2125.2	2113.4	2123.5	2184.0	2180.7	2239.5	2261.4	2239.5	2172.2
30°	2283.2	2268.1	2219.3	2167.2	2153.8	2219.3	2236.1	2288.3	2298.3	2244.5	2187.4
32.5°	2520.3	2511.9	2434.5	2281.5	2199.1	2236.1	2244.5	2303.4	2295.0	2261.4	2237.8
35°	2871.7	2843.1	2735.5	2476.6	2295.0	2258.0	2236.1	2283.2	2315.2	2298.3	2276.5
37.5°	3256.7	3224.7	3091.9	2764.1	2468.2	2316.8	2300.0	2338.7	2375.7	2367.3	2321.9
40°	3624.9	3624.9	3505.5	3123.9	2725.4	2459.7	2463.1	2419.4	2453.0	2437.9	2446.3
42.5°	3988.1	3974.6	3925.8	3545.9	3001.1	2698.5	2644.7	2535.4	2595.9	2590.9	2602.7
45°	4356.3	4346.2	4332.7	3939.3	3396.2	3021.3	2992.7	2796.0	2851.5	2828.0	2878.4
47.5°	4650.5	4662.3	4662.3	4378.1	3818.2	3451.7	3409.7	3098.6	3204.6	3216.3	3228.1
50°	4901.0	4906.0	4901.0	4796.8	4289.0	3944.3	3858.6	3542.5	3648.4	3740.9	3848.5
52.5°	5247.4	5254.1	5230.5	5190.2	4927.9	4462.2	4366.4	4015.0	4231.8	4329.4	4522.7
55°	5674.4	5624.0	5580.3	5610.5	5541.6	5032.1	4933.0	4502.5	4828.7	4958.2	5344.9
57.5°	5753.4	5797.1	5908.1	6148.5	6247.7	5587.0	5529.8	5101.1	5502.9	5615.6	6261.2
60°	6032.5	5960.2	6232.6	6753.8	6864.8	6309.9	6251.1	5756.8	6173.8	6291.4	7106.9
62.5°	6215.8	6212.4	6615.9	7234.7	7486.9	7059.8	6940.4	6609.2	6898.4	7012.7	8028.2
65°	6162.0	6210.7	6927.0	7517.1	8006.4	7912.2	7843.3	7342.3	7723.9	7713.8	8628.5
67.5°	5671.0	5808.9	6730.3	7720.6	8779.8	8951.3	8929.4	8372.9	8394.8	8181.2	8895.8
70°	4990.1	4943.0	5898.0	7508.7	9166.5	10183.7	10178.6	9139.6	8998.3	8283.8	8129.1
72°	3833.4	3781.3	4566.4	6447.8	8963.0	10676.3	10827.6	9670.9	8991.6	7858.4	6715.1
72.5°	3480.3	3434.9	4216.7	6069.5	8737.7	10804.1	10733.5	9691.0	8921.0	7658.3	6273.0
75°	1602.3	1550.2	2106.7	3715.7	6816.0	9573.4	9813.8	9069.0	7791.2	6096.4	3757.7
77.5°	477.5	462.4	677.6	1499.7	3961.2	7053.1	7145.5	6842.9	5439.0	3339.1	1393.8
80°	265.6	267.3	349.7	561.6	1741.8	4077.2	4410.1	4226.8	2668.2	1102.9	464.0
82.5°	148.0	156.4	218.6	332.9	800.3	1871.3	2014.2	1941.9	965.1	517.8	253.9
85°	77.3	80.7	114.3	178.2	454.0	591.8	608.6	652.3	501.0	353.1	136.2
87.5°	30.3	30.3	42.0	74.0	168.1	183.3	164.8	200.1	287.5	228.7	67.3
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°	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6
2.5°	1630.9	1617.4	1615.7	1593.9	1600.6	1582.1	1583.8	1580.4	1582.1	1578.7	1570.3
5°	1622.5	1612.4	1583.8	1602.3	1585.5	1609.0	1627.5	1620.8	1625.8	1624.1	1625.8
7.5°	1634.2	1620.8	1617.4	1607.3	1622.5	1632.5	1647.7	1689.7	1686.3	1691.4	1701.5
10°	1669.5	1654.4	1644.3	1659.4	1651.0	1683.0	1699.8	1721.7	1760.3	1762.0	1741.8
12.5°	1738.5	1728.4	1708.2	1711.6	1740.2	1750.2	1760.3	1773.8	1799.0	1794.0	1812.4
15°	1817.5	1795.6	1783.9	1780.5	1787.2	1799.0	1797.3	1810.8	1824.2	1836.0	1830.9
17.5°	1874.7	1846.1	1849.4	1866.2	1864.6	1861.2	1839.3	1832.6	1839.3	1846.1	1842.7
20°	1933.5	1936.9	1911.6	1896.5	1889.8	1856.2	1839.3	1819.2	1799.0	1809.1	1824.2
22.5°	2007.5	1992.3	1955.4	1910.0	1876.3	1856.2	1804.0	1768.7	1768.7	1778.8	1773.8
25°	2091.5	2059.6	1995.7	1913.3	1871.3	1785.5	1748.6	1743.5	1730.1	1745.2	1751.9
27.5°	2157.1	2128.5	2041.1	1901.6	1785.5	1716.6	1694.8	1688.0	1709.9	1711.6	1738.5
30°	2184.0	2175.6	2047.8	1871.3	1698.1	1587.2	1573.7	1604.0	1627.5	1662.8	1664.5
32.5°	2219.3	2222.7	2057.9	1800.7	1583.8	1472.8	1452.6	1489.6	1556.9	1585.5	1607.3
35°	2278.2	2295.0	2049.5	1713.3	1462.7	1356.8	1353.5	1363.5	1429.1	1479.5	1508.1
37.5°	2380.7	2377.4	2047.8	1609.0	1366.9	1255.9	1229.0	1232.4	1276.1	1318.1	1313.1
40°	2518.6	2505.1	2042.8	1472.8	1242.5	1170.2	1124.8	1108.0	1104.6	1092.8	1096.2
42.5°	2706.9	2680.0	2041.1	1335.0	1129.8	1052.5	1020.6	976.8	944.9	884.4	887.7
45°	2969.2	2922.1	1997.4	1205.5	1018.9	955.0	906.2	874.3	805.3	729.7	729.7
47.5°	3374.4	3221.4	1999.1	1062.6	911.3	859.1	825.5	770.0	696.1	635.5	628.8
50°	3971.2	3621.5	1941.9	949.9	823.8	788.5	753.2	689.3	618.7	576.7	581.7
52.5°	4741.3	4218.4	1940.2	849.1	754.9	729.7	691.0	633.9	581.7	554.8	544.7
55°	5659.3	5008.6	2000.8	766.7	684.3	670.8	654.0	607.0	556.5	533.0	531.3
57.5°	6599.1	5780.3	2098.3	707.8	623.8	633.9	622.1	585.1	544.7	517.8	514.5
60°	7434.7	6392.3	1901.6	637.2	570.0	591.8	608.6	576.7	554.8	553.1	541.4
62.5°	8065.2	6654.6	1445.9	583.4	541.4	581.7	627.1	647.3	637.2	650.7	652.3
65°	8295.6	6496.6	995.3	554.8	519.5	605.3	706.1	699.4	640.6	615.4	628.8
67.5°	7972.8	5856.0	738.1	521.2	504.4	654.0	751.5	667.5	578.4	575.0	564.9
70°	6856.4	4963.2	601.9	485.9	479.2	627.1	731.4	618.7	544.7	522.9	512.8
72°	5462.6	3865.3	527.9	460.7	438.8	559.9	684.3	580.1	516.2	489.3	477.5
72.5°	4986.8	3582.9	517.8	448.9	430.4	544.7	660.8	568.3	509.4	485.9	467.4
75°	2735.5	1834.3	455.6	411.9	363.2	470.8	612.0	533.0	480.9	447.2	443.9
77.5°	1017.2	711.2	393.4	364.8	314.4	406.9	556.5	506.1	437.1	395.1	386.7
80°	390.1	374.9	321.1	307.7	264.0	356.4	512.8	454.0	371.6	329.5	316.1
82.5°	237.1	218.6	243.8	240.4	201.8	324.5	482.5	425.4	329.5	267.3	258.9
85°	129.5	129.5	169.8	163.1	141.2	258.9	364.8	282.5	208.5	171.5	174.9
87.5°	57.2	67.3	90.8	85.7	77.3	146.3	178.2	149.6	104.2	70.6	75.7
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)