

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: P478544

Luminaire Tested: **IFLD-S-SA2D-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478544
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

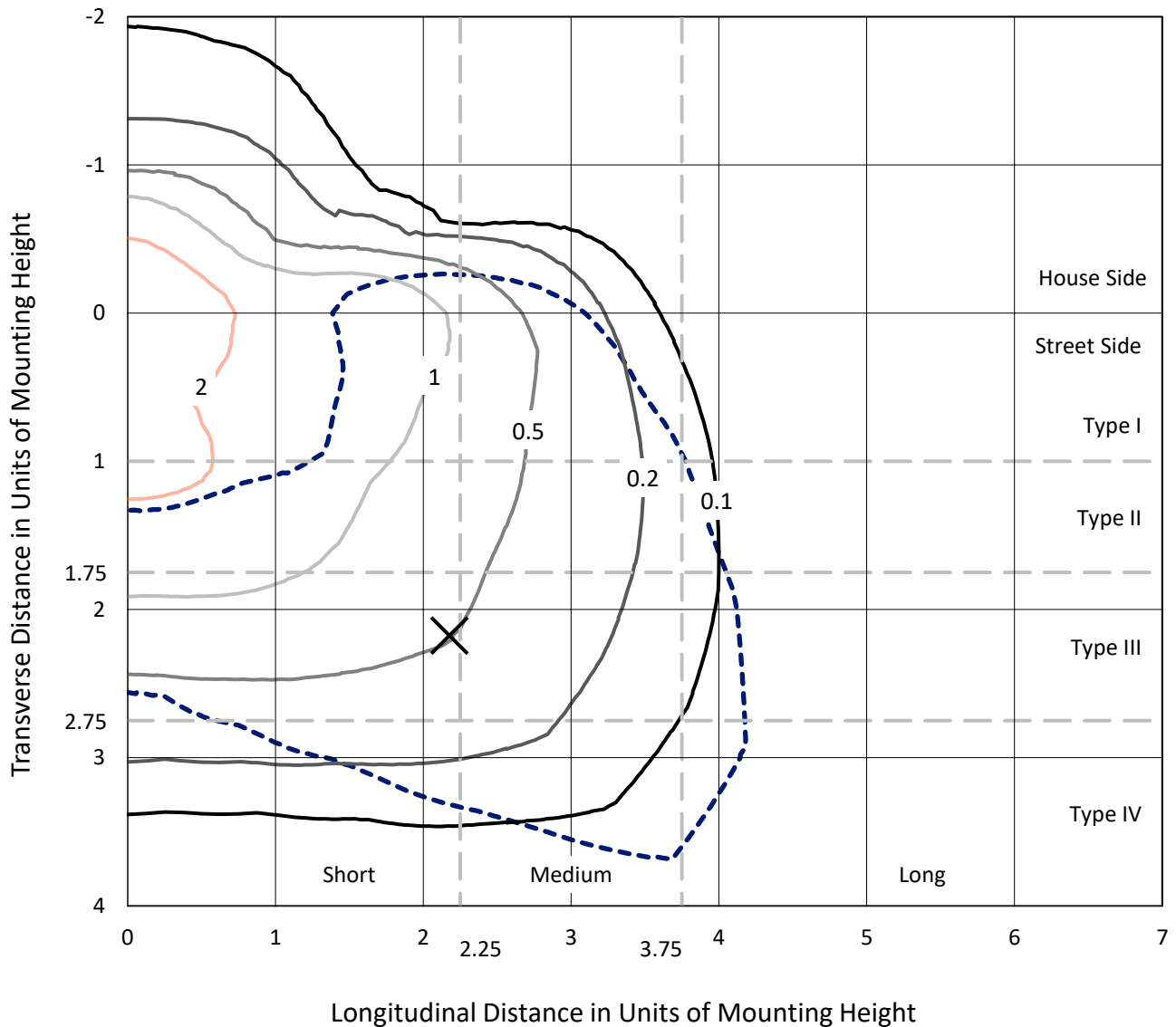
Lumens per Lamp: N/A
Luminaire Lumens: 15808.1 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

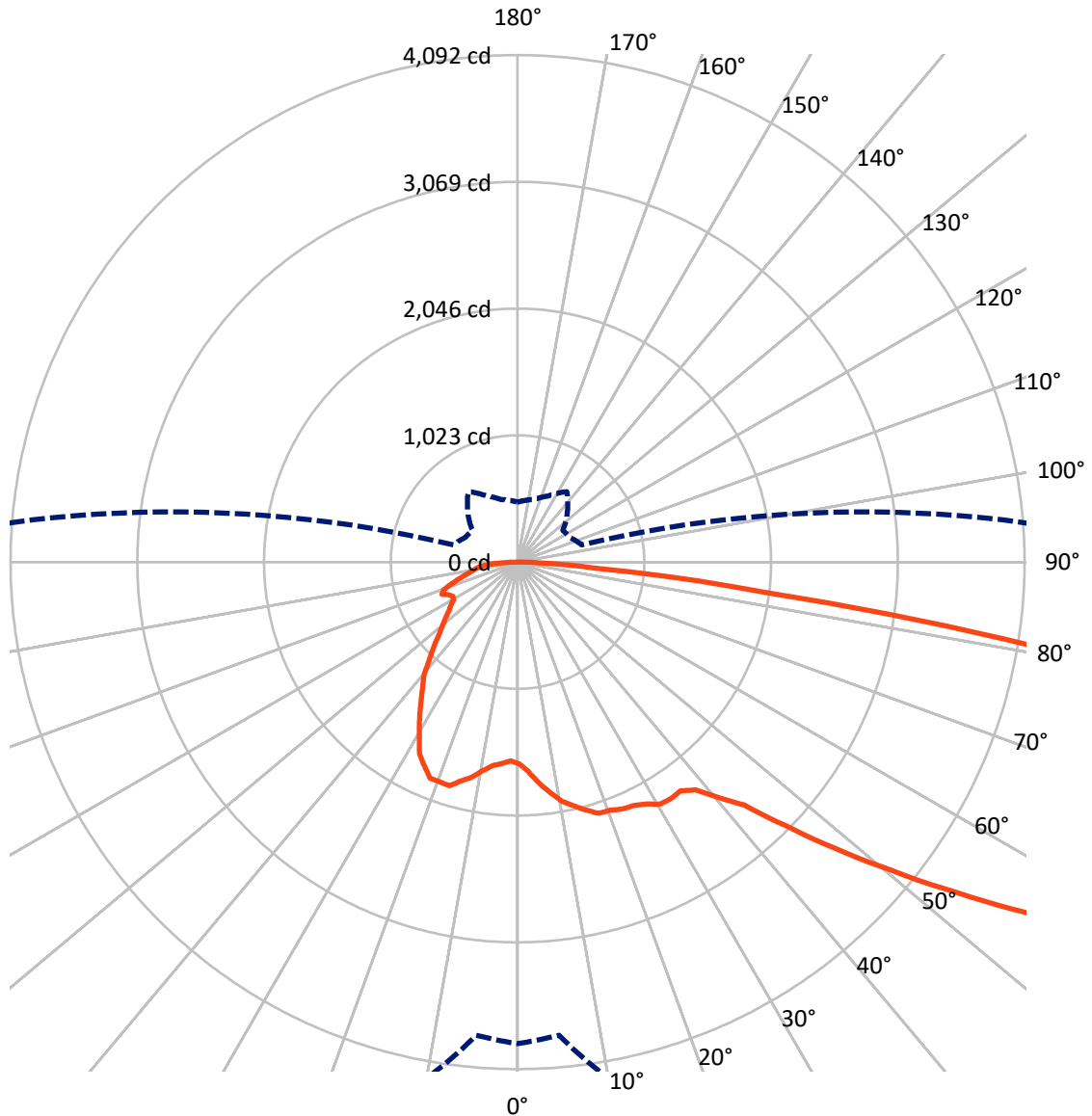
× Max cd
 - - - 1/2 Max cd



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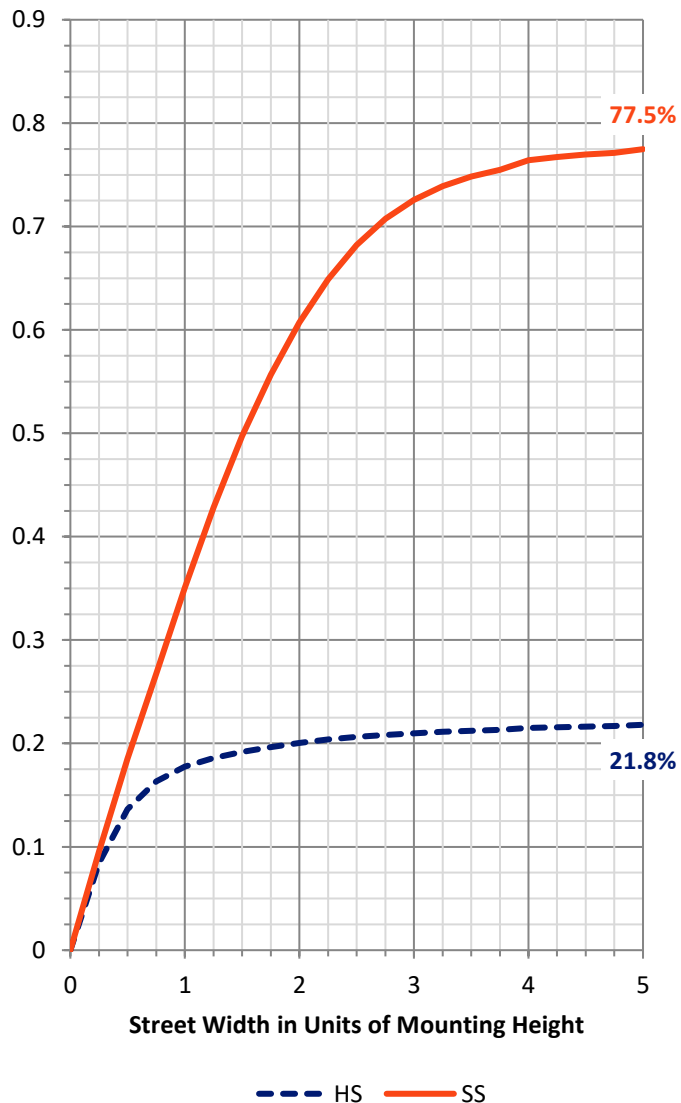
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3519.0	0.0	3519.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	12289.1	0.0	12289.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	15808.1	0.0	15808.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.1
10°-20°	554.2	3.5
20°-30°	935.9	5.9
30°-40°	1295.2	8.2
40°-50°	1852.7	11.7
50°-60°	2988.1	18.9
60°-70°	4407.1	27.9
70°-80°	3200.3	20.2
80°-90°	408.0	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°	15808.1	100.0
0°-180°	15808.1	100.0

Coefficient of Utilization



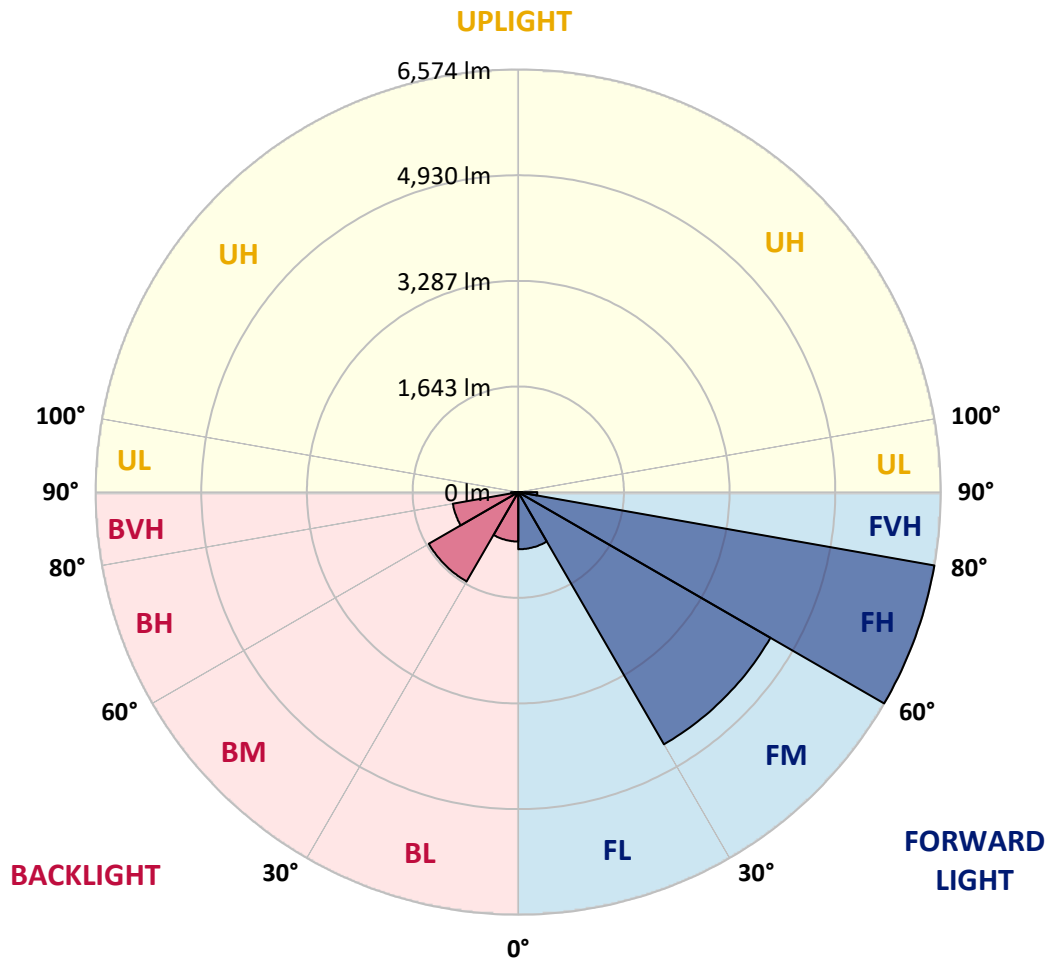
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.4	5.6			
FM (30°-60°)	4530.1	28.7			
FH (60°-80°)	6573.7	41.6			G3/7500
FVH (80°-90°)	296.9	1.9			G3/500
BL (0°-30°)	768.3	4.9	B2/1000		
BM (30°-60°)	1606.0	10.2	B2/2500		
BH (60°-80°)	1033.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	111.0	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°	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9
2.5°	1714.9	1725.1	1714.9	1713.2	1696.1	1684.2	1694.4	1679.1	1662.0	1655.2	1639.9
5°	1871.7	1873.4	1854.7	1856.4	1820.6	1783.1	1789.9	1743.9	1694.4	1675.7	1645.0
7.5°	2032.0	2013.2	1985.9	1977.4	1921.2	1880.2	1875.1	1834.2	1757.5	1714.9	1672.3
10°	2135.9	2142.8	2098.4	2060.9	2013.2	1963.8	1962.1	1885.4	1841.0	1778.0	1723.4
12.5°	2228.0	2229.7	2192.2	2132.5	2072.9	2011.5	2020.0	1985.9	1910.9	1851.3	1796.7
15°	2299.6	2289.4	2248.4	2193.9	2130.8	2083.1	2078.0	2049.0	1985.9	1936.5	1846.1
17.5°	2320.0	2314.9	2274.0	2216.1	2154.7	2118.9	2132.5	2084.8	2059.2	2014.9	1928.0
20°	2280.8	2268.9	2262.1	2197.3	2153.0	2149.6	2137.6	2147.9	2105.3	2064.3	2001.3
22.5°	2209.2	2204.1	2200.7	2149.6	2129.1	2144.5	2164.9	2180.3	2173.4	2134.2	2062.6
25°	2135.9	2159.8	2137.6	2113.8	2142.8	2182.0	2176.8	2226.3	2226.3	2214.4	2154.7
27.5°	2187.1	2171.7	2154.7	2142.8	2153.0	2214.4	2210.9	2270.6	2292.8	2270.6	2202.4
30°	2314.9	2299.6	2250.2	2197.3	2183.7	2250.2	2267.2	2320.0	2330.3	2275.7	2217.8
32.5°	2555.3	2546.8	2468.3	2313.2	2229.7	2267.2	2275.7	2335.4	2326.9	2292.8	2268.9
35°	2911.6	2882.6	2773.5	2511.0	2326.9	2289.4	2267.2	2314.9	2347.3	2330.3	2308.1
37.5°	3301.9	3269.5	3134.9	2802.5	2502.4	2349.0	2332.0	2371.2	2408.7	2400.2	2354.1
40°	3675.2	3675.2	3554.2	3167.3	2763.3	2493.9	2497.3	2453.0	2487.1	2471.8	2480.3
42.5°	4043.5	4029.8	3980.4	3595.1	3042.8	2736.0	2681.4	2570.6	2632.0	2626.9	2638.8
45°	4416.8	4406.5	4392.9	3994.0	3443.4	3063.3	3034.3	2834.8	2891.1	2867.2	2918.4
47.5°	4715.1	4727.0	4727.0	4438.9	3871.3	3499.7	3457.0	3141.7	3249.1	3261.0	3272.9
50°	4969.1	4974.2	4969.1	4863.4	4348.6	3999.1	3912.2	3591.7	3699.1	3792.9	3902.0
52.5°	5320.2	5327.1	5303.2	5262.3	4996.4	4524.2	4427.0	4070.7	4290.6	4389.5	4585.5
55°	5753.2	5702.1	5657.8	5688.4	5618.6	5102.0	5001.5	4565.1	4895.8	5027.0	5419.1
57.5°	5833.3	5877.7	5990.2	6233.9	6334.5	5664.6	5606.6	5171.9	5579.3	5693.6	6348.2
60°	6116.3	6043.0	6319.2	6847.6	6960.1	6397.6	6337.9	5836.8	6259.5	6378.8	7205.6
62.5°	6302.1	6298.7	6707.8	7335.1	7590.8	7157.9	7036.8	6701.0	6994.2	7110.1	8139.7
65°	6247.6	6297.0	7023.2	7621.5	8117.6	8022.1	7952.2	7444.2	7831.2	7821.0	8748.3
67.5°	5749.8	5889.6	6823.8	7827.8	8901.7	9075.6	9053.4	8489.2	8511.4	8294.9	9019.4
70°	5059.4	5011.7	5979.9	7613.0	9293.8	10325.1	10320.0	9266.5	9123.3	8398.9	8242.0
72°	3886.6	3833.8	4629.9	6537.4	9087.5	10824.6	10978.0	9805.2	9116.5	7967.6	6808.4
72.5°	3528.6	3482.6	4275.3	6153.8	8859.1	10954.1	10882.5	9825.7	9044.9	7764.7	6360.1
75°	1624.5	1571.7	2135.9	3767.3	6910.7	9706.3	9950.1	9194.9	7899.4	6181.1	3809.9
77.5°	484.1	468.8	687.0	1520.6	4016.2	7151.0	7244.8	6938.0	5514.6	3385.5	1413.2
80°	269.3	271.0	354.6	569.4	1766.0	4133.8	4471.3	4285.5	2705.3	1118.3	470.5
82.5°	150.0	158.5	221.6	337.5	811.4	1897.3	2042.2	1968.9	978.5	525.0	257.4
85°	78.4	81.8	115.9	180.7	460.3	600.0	617.1	661.4	508.0	358.0	138.1
87.5°	30.7	30.7	42.6	75.0	170.5	185.8	167.1	202.9	291.5	231.8	68.2
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°	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9
2.5°	1653.5	1639.9	1638.2	1616.0	1622.8	1604.1	1605.8	1602.4	1604.1	1600.7	1592.2
5°	1645.0	1634.8	1605.8	1624.5	1607.5	1631.4	1650.1	1643.3	1648.4	1646.7	1648.4
7.5°	1656.9	1643.3	1639.9	1629.7	1645.0	1655.2	1670.6	1713.2	1709.8	1714.9	1725.1
10°	1692.7	1677.4	1667.2	1682.5	1674.0	1706.4	1723.4	1745.6	1784.8	1786.5	1766.0
12.5°	1762.6	1752.4	1731.9	1735.3	1764.3	1774.6	1784.8	1798.4	1824.0	1818.9	1837.6
15°	1842.7	1820.6	1808.6	1805.2	1812.1	1824.0	1822.3	1835.9	1849.6	1861.5	1856.4
17.5°	1900.7	1871.7	1875.1	1892.2	1890.5	1887.1	1864.9	1858.1	1864.9	1871.7	1868.3
20°	1960.4	1963.8	1938.2	1922.9	1916.0	1881.9	1864.9	1844.4	1824.0	1834.2	1849.6
22.5°	2035.4	2020.0	1982.5	1936.5	1902.4	1881.9	1829.1	1793.3	1793.3	1803.5	1798.4
25°	2120.6	2088.2	2023.4	1939.9	1897.3	1810.3	1772.8	1767.7	1754.1	1769.4	1776.3
27.5°	2187.1	2158.1	2069.5	1928.0	1810.3	1740.5	1718.3	1711.5	1733.6	1735.3	1762.6
30°	2214.4	2205.8	2076.3	1897.3	1721.7	1609.2	1595.6	1626.2	1650.1	1685.9	1687.6
32.5°	2250.2	2253.6	2086.5	1825.7	1605.8	1493.3	1472.8	1510.3	1578.5	1607.5	1629.7
35°	2309.8	2326.9	2078.0	1737.0	1483.1	1375.7	1372.3	1382.5	1449.0	1500.1	1529.1
37.5°	2413.8	2410.4	2076.3	1631.4	1385.9	1273.4	1246.1	1249.5	1293.8	1336.5	1331.3
40°	2553.6	2539.9	2071.2	1493.3	1259.7	1186.4	1140.4	1123.4	1120.0	1108.0	1111.4
42.5°	2744.5	2717.2	2069.5	1353.5	1145.5	1067.1	1034.7	990.4	958.0	896.7	900.1
45°	3010.4	2962.7	2025.1	1222.2	1033.0	968.2	918.8	886.4	816.5	739.8	739.8
47.5°	3421.3	3266.1	2026.8	1077.3	923.9	871.1	837.0	780.7	705.7	644.4	637.5
50°	4026.4	3671.8	1968.9	963.1	835.3	799.5	763.7	698.9	627.3	584.7	589.8
52.5°	4807.1	4277.0	1967.2	860.9	765.4	739.8	700.6	642.7	589.8	562.5	552.3
55°	5737.9	5078.2	2028.5	777.3	693.8	680.2	663.1	615.4	564.2	540.4	538.7
57.5°	6690.8	5860.6	2127.4	717.7	632.4	642.7	630.7	593.2	552.3	525.0	521.6
60°	7538.0	6481.1	1928.0	646.1	577.9	600.0	617.1	584.7	562.5	560.8	548.9
62.5°	8177.3	6747.0	1466.0	591.5	548.9	589.8	635.8	656.3	646.1	659.7	661.4
65°	8410.8	6586.8	1009.2	562.5	526.7	613.7	716.0	709.1	649.5	623.9	637.5
67.5°	8083.5	5937.3	748.3	528.4	511.4	663.1	762.0	676.7	586.4	583.0	572.8
70°	6951.6	5032.2	610.3	492.6	485.8	635.8	741.5	627.3	552.3	530.1	519.9
72°	5538.4	3919.0	535.3	467.1	444.9	567.7	693.8	588.1	523.3	496.1	484.1
72.5°	5056.0	3632.6	525.0	455.1	436.4	552.3	669.9	576.2	516.5	492.6	473.9
75°	2773.5	1859.8	462.0	417.6	368.2	477.3	620.5	540.4	487.5	453.4	450.0
77.5°	1031.3	721.1	398.9	369.9	318.8	412.5	564.2	513.1	443.2	400.6	392.1
80°	395.5	380.1	325.6	312.0	267.6	361.4	519.9	460.3	376.7	334.1	320.5
82.5°	240.4	221.6	247.2	243.8	204.6	329.0	489.2	431.3	334.1	271.0	262.5
85°	131.3	131.3	172.2	165.4	143.2	262.5	369.9	286.4	211.4	173.9	177.3
87.5°	58.0	68.2	92.1	86.9	78.4	148.3	180.7	151.7	105.7	71.6	76.7
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)