

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: P478428

Luminaire Tested: **IFLD-S-SA2E-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478428
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

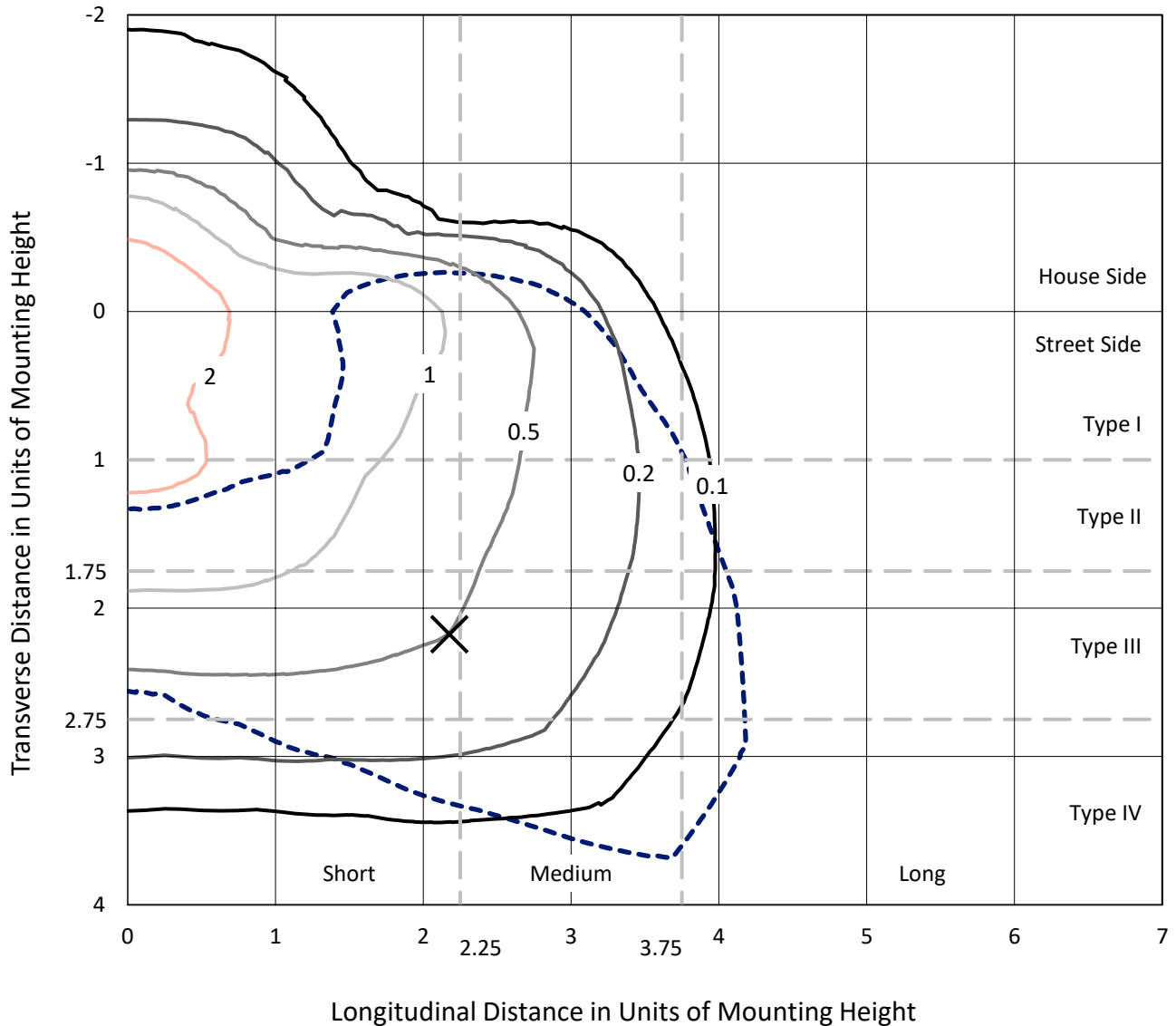
Lumens per Lamp: N/A
Luminaire Lumens: 15299.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

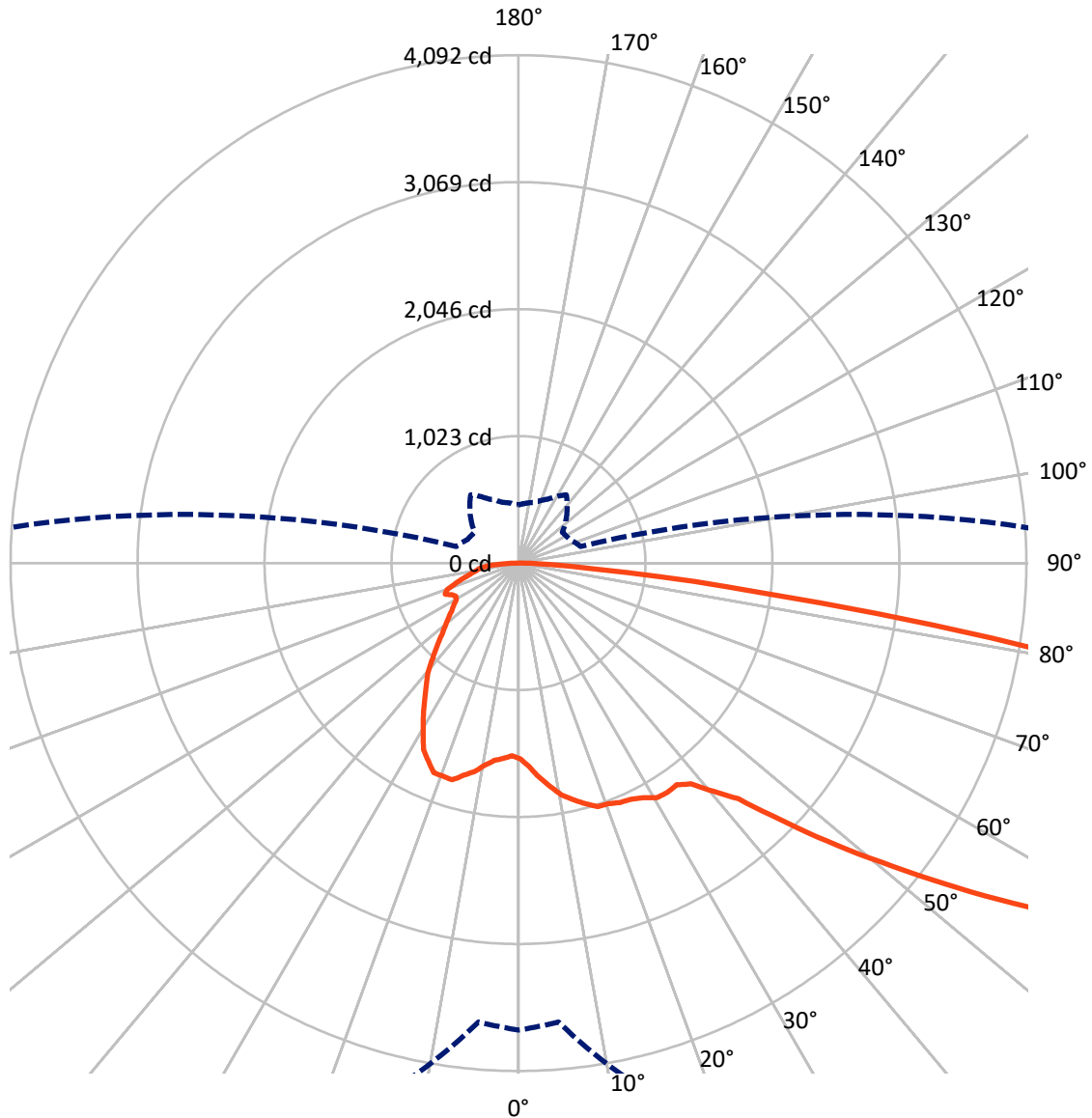
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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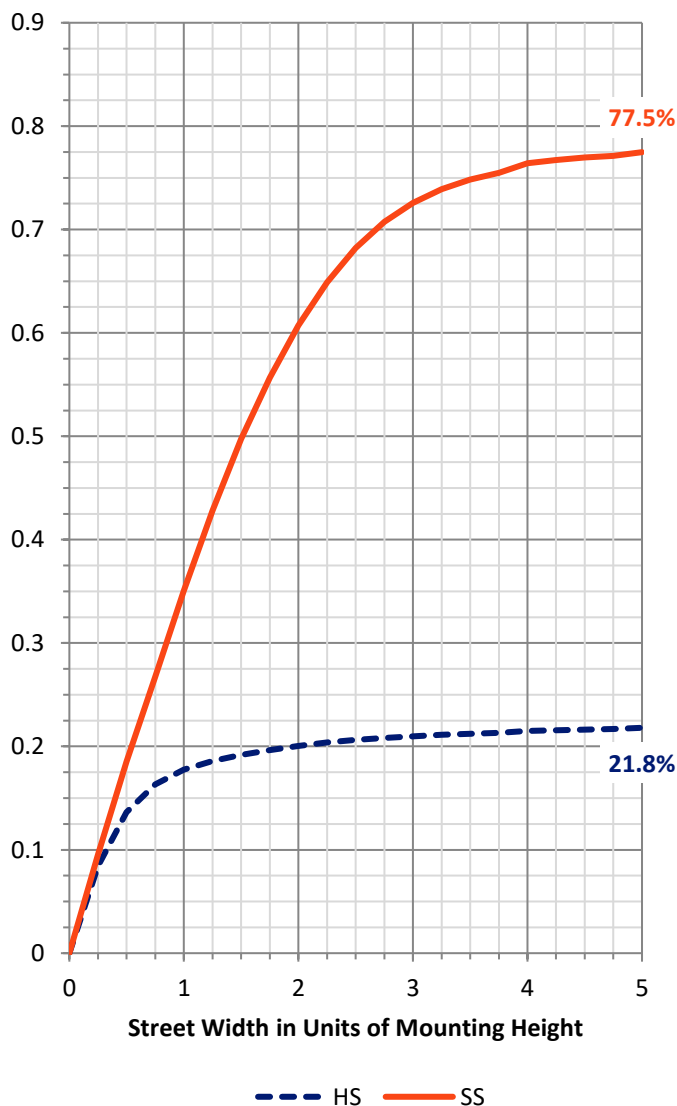
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3405.8	0.0	3405.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11893.9	0.0	11893.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	15299.7	0.0	15299.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.1
10°-20°	536.4	3.5
20°-30°	905.8	5.9
30°-40°	1253.5	8.2
40°-50°	1793.1	11.7
50°-60°	2892.0	18.9
60°-70°	4265.3	27.9
70°-80°	3097.4	20.2
80°-90°	394.8	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°	15299.7	100.0
0°-180°	15299.7	100.0

Coefficient of Utilization



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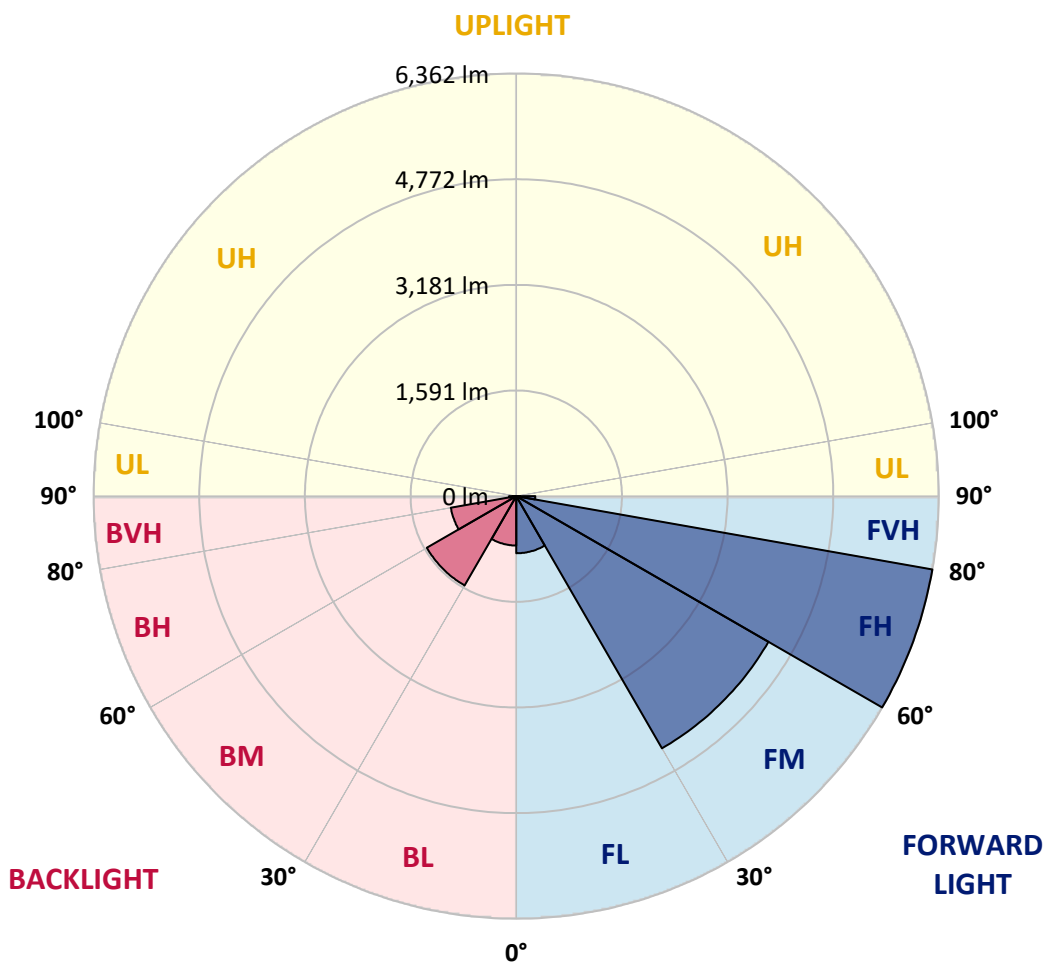
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.8	5.6			
FM (30°-60°)	4384.4	28.7			
FH (60°-80°)	6362.3	41.6			G3/7500
FVH (80°-90°)	287.4	1.9			G3/500
BL (0°-30°)	743.6	4.9	B2/1000		
BM (30°-60°)	1554.3	10.2	B2/2500		
BH (60°-80°)	1000.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	107.5	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°	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6
2.5°	1659.7	1669.6	1659.7	1658.1	1641.6	1630.0	1639.9	1625.1	1608.6	1602.0	1587.1
5°	1811.5	1813.2	1795.0	1796.7	1762.0	1725.7	1732.3	1687.8	1639.9	1621.8	1592.1
7.5°	1966.6	1948.5	1922.1	1913.8	1859.4	1819.8	1814.8	1775.2	1701.0	1659.7	1618.5
10°	2067.2	2073.8	2030.9	1994.6	1948.5	1900.6	1899.0	1824.7	1781.8	1720.8	1668.0
12.5°	2156.3	2158.0	2121.7	2063.9	2006.2	1946.8	1955.1	1922.1	1849.5	1791.7	1738.9
15°	2225.6	2215.7	2176.1	2123.3	2062.3	2016.1	2011.1	1983.1	1922.1	1874.2	1786.8
17.5°	2245.4	2240.5	2200.9	2144.8	2085.4	2050.7	2063.9	2017.7	1993.0	1950.1	1866.0
20°	2207.5	2195.9	2189.3	2126.6	2083.7	2080.4	2068.9	2078.8	2037.5	1997.9	1936.9
22.5°	2138.2	2133.2	2129.9	2080.4	2060.6	2075.5	2095.3	2110.1	2103.5	2065.6	1996.3
25°	2067.2	2090.3	2068.9	2045.8	2073.8	2111.8	2106.8	2154.7	2154.7	2143.1	2085.4
27.5°	2116.7	2101.9	2085.4	2073.8	2083.7	2143.1	2139.8	2197.6	2219.0	2197.6	2131.6
30°	2240.5	2225.6	2177.8	2126.6	2113.4	2177.8	2194.3	2245.4	2255.3	2202.5	2146.4
32.5°	2473.1	2464.8	2389.0	2238.8	2158.0	2194.3	2202.5	2260.3	2252.0	2219.0	2195.9
35°	2817.9	2789.9	2684.3	2430.2	2252.0	2215.7	2194.3	2240.5	2271.8	2255.3	2233.9
37.5°	3195.7	3164.4	3034.0	2712.3	2422.0	2273.5	2257.0	2294.9	2331.2	2323.0	2278.4
40°	3557.0	3557.0	3439.9	3065.4	2674.4	2413.7	2417.0	2374.1	2407.1	2392.3	2400.5
42.5°	3913.4	3900.2	3852.4	3479.5	2944.9	2648.0	2595.2	2487.9	2547.3	2542.4	2553.9
45°	4274.7	4264.8	4251.6	3865.6	3332.7	2964.7	2936.7	2743.7	2798.1	2775.0	2824.5
47.5°	4563.4	4575.0	4575.0	4296.2	3746.8	3387.1	3345.9	3040.6	3144.6	3156.1	3167.7
50°	4809.3	4814.2	4809.3	4707.0	4208.7	3870.5	3786.4	3476.2	3580.1	3670.9	3776.5
52.5°	5149.1	5155.7	5132.6	5093.0	4835.7	4378.7	4284.6	3939.8	4152.6	4248.3	4438.0
55°	5568.2	5518.7	5475.8	5505.5	5437.8	4937.9	4840.6	4418.2	4738.3	4865.4	5244.8
57.5°	5645.7	5688.6	5797.5	6033.4	6130.8	5482.4	5426.3	5005.6	5399.9	5510.4	6144.0
60°	5919.6	5848.7	6115.9	6627.4	6736.3	6191.8	6134.1	5649.0	6058.2	6173.7	6973.8
62.5°	6099.4	6096.1	6492.1	7099.2	7346.7	6927.6	6810.5	6485.5	6769.3	6881.4	7877.9
65°	6046.6	6094.5	6797.3	7376.4	7856.5	7764.1	7696.5	7204.8	7579.3	7569.4	8466.9
67.5°	5564.9	5700.2	6604.3	7576.0	8615.4	8783.7	8762.3	8216.2	8237.6	8028.1	8729.3
70°	4896.7	4850.5	5787.6	7368.1	8994.9	9993.0	9988.1	8968.5	8829.9	8128.7	7976.9
72°	3761.6	3710.5	4480.9	6327.1	8795.3	10476.4	10624.9	9489.8	8823.3	7711.3	6589.4
72.5°	3415.2	3370.6	4137.8	5955.9	8574.2	10601.8	10532.5	9509.6	8754.0	7515.0	6155.5
75°	1572.3	1521.1	2067.2	3646.1	6688.4	9394.1	9630.1	8899.2	7645.3	5982.3	3687.4
77.5°	468.6	453.7	664.9	1471.6	3887.0	6921.0	7011.8	6714.8	5337.2	3276.6	1367.7
80°	260.7	262.3	343.2	551.0	1709.2	4000.8	4327.5	4147.7	2618.3	1082.3	455.4
82.5°	145.2	153.4	214.5	326.7	785.3	1836.3	1976.5	1905.6	947.0	508.1	249.1
85°	75.9	79.2	112.2	174.9	445.5	580.7	597.2	640.1	491.6	346.5	133.6
87.5°	29.7	29.7	41.2	72.6	165.0	179.8	161.7	196.3	282.1	224.4	66.0
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°	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6
2.5°	1600.3	1587.1	1585.5	1564.0	1570.6	1552.5	1554.1	1550.8	1552.5	1549.2	1540.9
5°	1592.1	1582.2	1554.1	1572.3	1555.8	1578.9	1597.0	1590.4	1595.4	1593.7	1595.4
7.5°	1603.6	1590.4	1587.1	1577.2	1592.1	1602.0	1616.8	1658.1	1654.8	1659.7	1669.6
10°	1638.3	1623.4	1613.5	1628.4	1620.1	1651.5	1668.0	1689.4	1727.4	1729.0	1709.2
12.5°	1705.9	1696.0	1676.2	1679.5	1707.6	1717.5	1727.4	1740.6	1765.3	1760.4	1778.5
15°	1783.5	1762.0	1750.5	1747.2	1753.8	1765.3	1763.7	1776.9	1790.1	1801.6	1796.7
17.5°	1839.6	1811.5	1814.8	1831.3	1829.7	1826.4	1804.9	1798.3	1804.9	1811.5	1808.2
20°	1897.3	1900.6	1875.9	1861.0	1854.4	1821.4	1804.9	1785.1	1765.3	1775.2	1790.1
22.5°	1969.9	1955.1	1918.8	1874.2	1841.2	1821.4	1770.3	1735.6	1735.6	1745.5	1740.6
25°	2052.4	2021.0	1958.3	1877.5	1836.3	1752.1	1715.8	1710.9	1697.7	1712.5	1719.1
27.5°	2116.7	2088.7	2002.9	1866.0	1752.1	1684.5	1663.0	1656.4	1677.9	1679.5	1705.9
30°	2143.1	2134.9	2009.5	1836.3	1666.3	1557.4	1544.2	1573.9	1597.0	1631.7	1633.3
32.5°	2177.8	2181.1	2019.4	1767.0	1554.1	1445.3	1425.5	1461.8	1527.7	1555.8	1577.2
35°	2235.5	2252.0	2011.1	1681.2	1435.4	1331.4	1328.1	1338.0	1402.4	1451.9	1479.9
37.5°	2336.2	2332.9	2009.5	1578.9	1341.3	1232.4	1206.0	1209.3	1252.2	1293.5	1288.5
40°	2471.4	2458.2	2004.5	1445.3	1219.2	1148.3	1103.7	1087.2	1083.9	1072.4	1075.7
42.5°	2656.2	2629.8	2002.9	1310.0	1108.7	1032.8	1001.4	958.6	927.2	867.8	871.1
45°	2913.6	2867.4	1960.0	1182.9	999.8	937.1	889.3	857.9	790.3	716.0	716.0
47.5°	3311.2	3161.1	1961.6	1042.7	894.2	843.1	810.1	755.6	683.0	623.6	617.0
50°	3896.9	3553.7	1905.6	932.2	808.4	773.8	739.1	676.4	607.1	565.9	570.8
52.5°	4652.5	4139.4	1903.9	833.2	740.8	716.0	678.1	622.0	570.8	544.4	534.5
55°	5553.3	4914.8	1963.3	752.3	671.5	658.3	641.8	595.6	546.1	523.0	521.3
57.5°	6475.6	5672.1	2059.0	694.6	612.1	622.0	610.4	574.1	534.5	508.1	504.8
60°	7295.6	6272.7	1866.0	625.3	559.3	580.7	597.2	565.9	544.4	542.8	531.2
62.5°	7914.2	6530.0	1418.9	572.5	531.2	570.8	615.4	635.2	625.3	638.5	640.1
65°	8140.3	6374.9	976.7	544.4	509.8	593.9	692.9	686.3	628.6	603.8	617.0
67.5°	7823.5	5746.4	724.3	511.4	494.9	641.8	737.5	655.0	567.5	564.2	554.3
70°	6728.0	4870.3	590.6	476.8	470.2	615.4	717.7	607.1	534.5	513.1	503.2
72°	5360.3	3793.0	518.0	452.1	430.6	549.4	671.5	569.2	506.5	480.1	468.6
72.5°	4893.4	3515.8	508.1	440.5	422.4	534.5	648.4	557.6	499.9	476.8	458.7
75°	2684.3	1800.0	447.1	404.2	356.4	462.0	600.5	523.0	471.9	438.9	435.6
77.5°	998.1	697.9	386.1	358.0	308.5	399.3	546.1	496.6	429.0	387.7	379.5
80°	382.8	367.9	315.1	301.9	259.0	349.8	503.2	445.5	364.6	323.4	310.2
82.5°	232.6	214.5	239.2	235.9	198.0	318.4	473.5	417.4	323.4	262.3	254.1
85°	127.0	127.0	166.6	160.0	138.6	254.1	358.0	277.2	204.6	168.3	171.6
87.5°	56.1	66.0	89.1	84.1	75.9	143.5	174.9	146.8	102.3	69.3	74.2
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)