

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: P478449

Luminaire Tested: **IFLD-M-SA4A-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478449
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

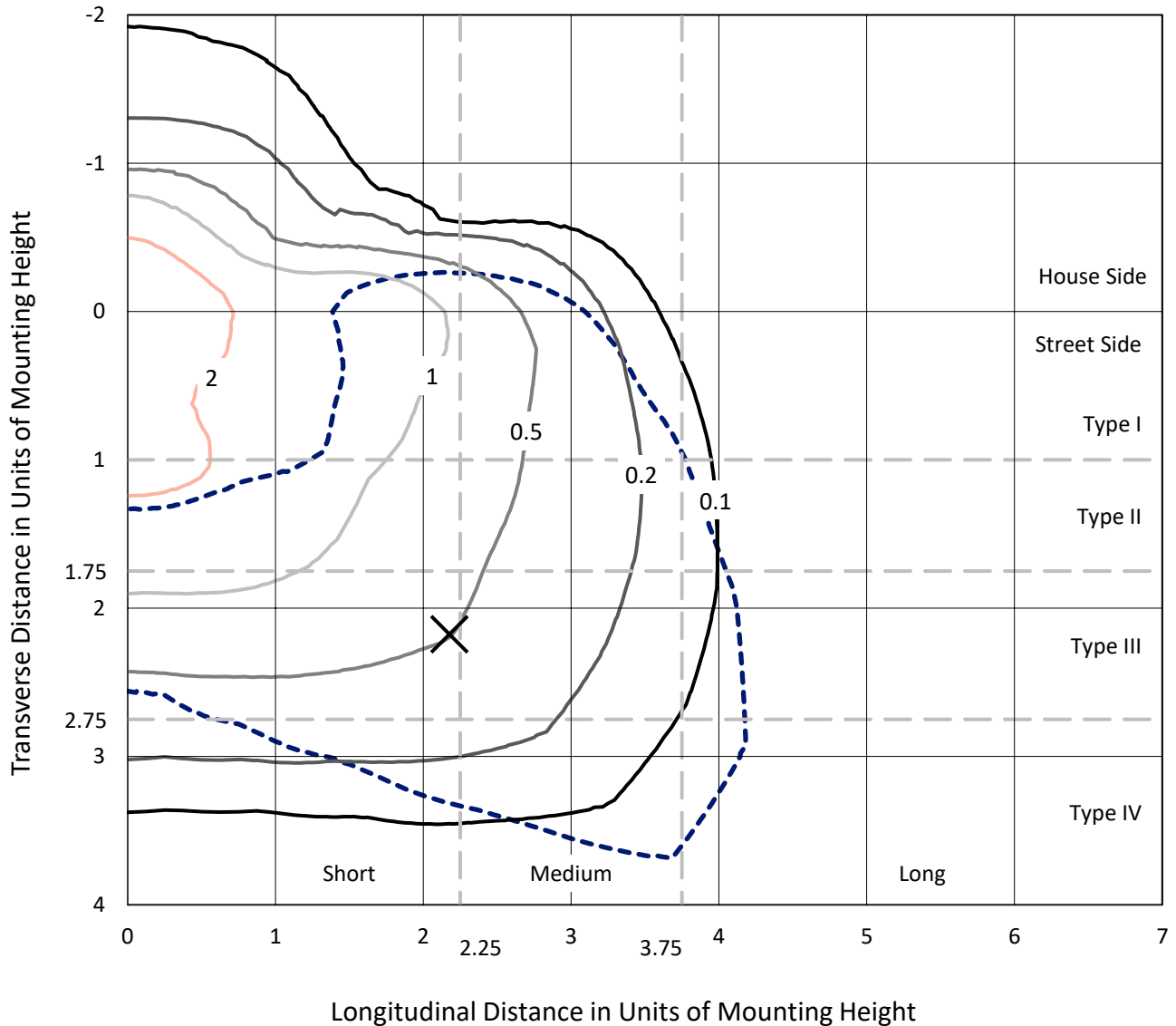
Lumens per Lamp: N/A
Luminaire Lumens: 15610.7 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6
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

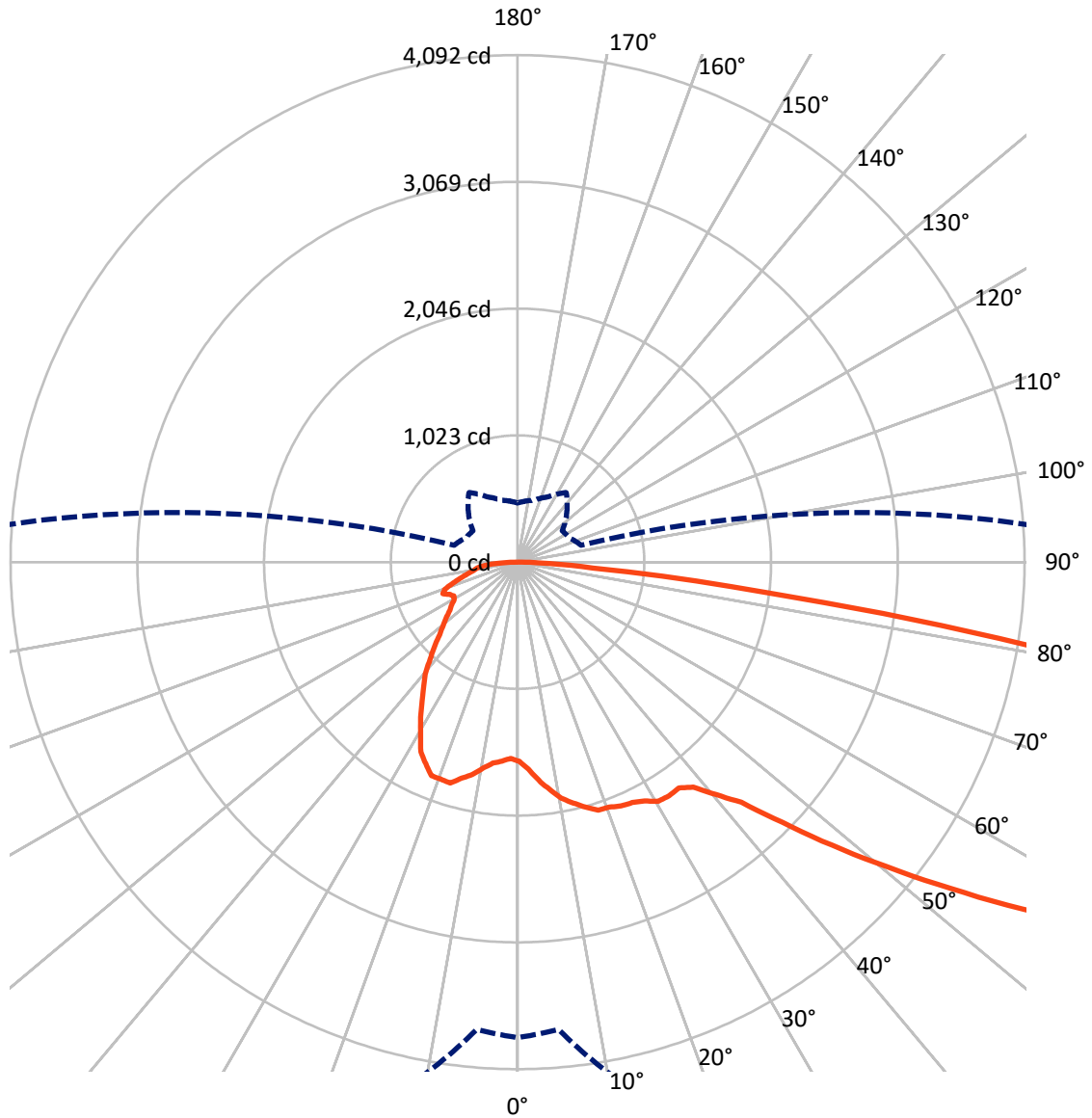
× Max cd
 - - - 1/2 Max cd



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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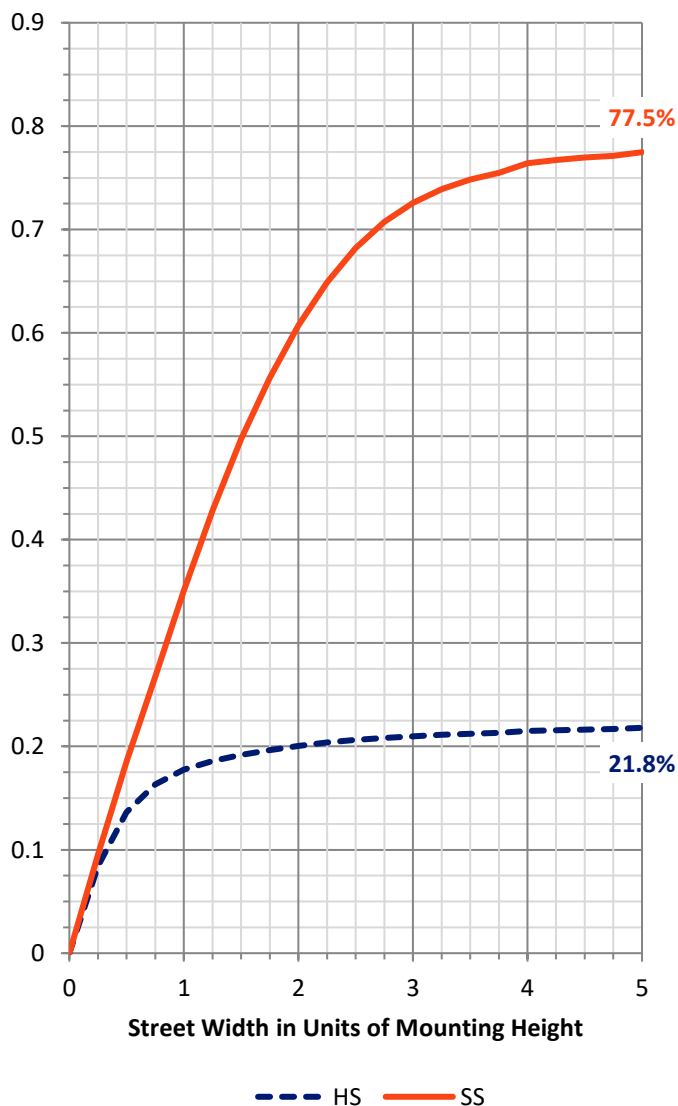
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3475.0	0.0	3475.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	12135.7	0.0	12135.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	15610.7	0.0	15610.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	1.1
10°-20°	547.3	3.5
20°-30°	924.3	5.9
30°-40°	1279.0	8.2
40°-50°	1829.5	11.7
50°-60°	2950.8	18.9
60°-70°	4352.1	27.9
70°-80°	3160.3	20.2
80°-90°	402.9	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°	15610.7	100.0
0°-180°	15610.7	100.0

Coefficient of Utilization



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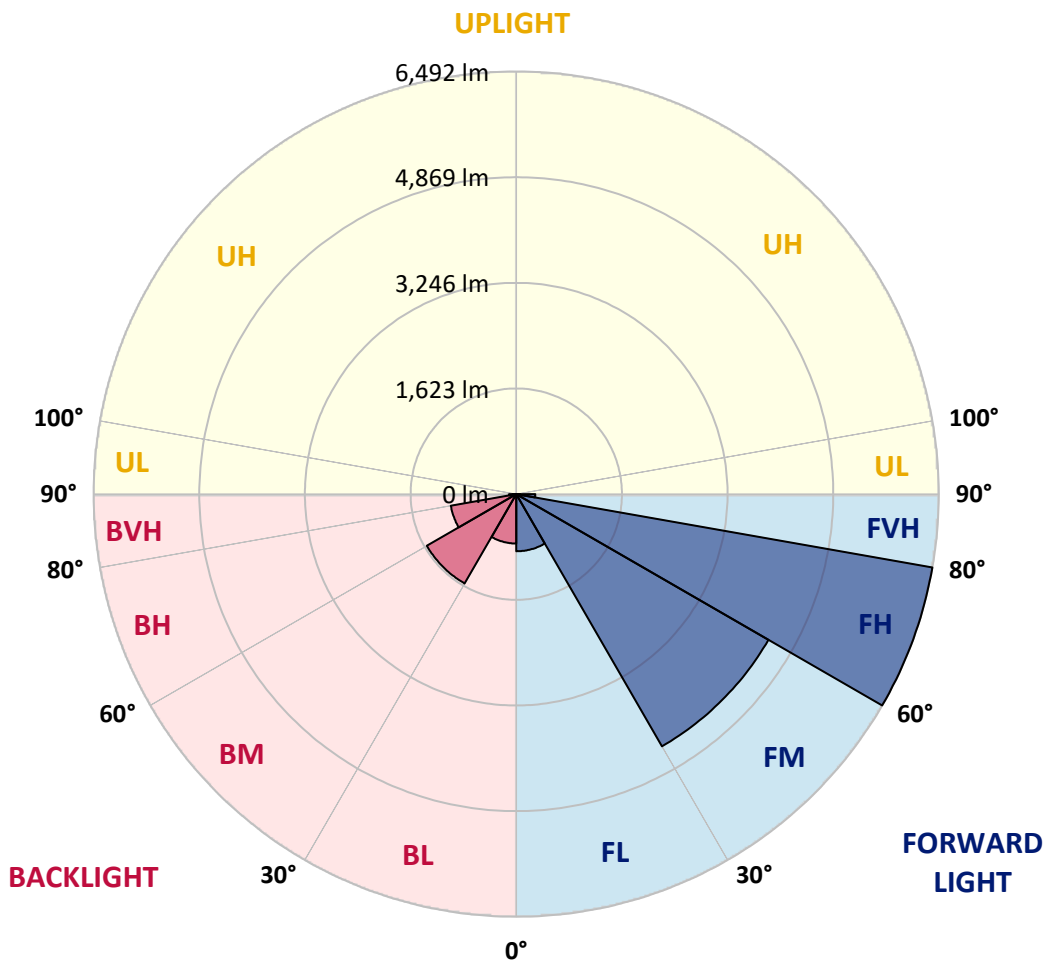
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.3	5.6			
FM (30°-60°)	4473.5	28.7			
FH (60°-80°)	6491.6	41.6			G3/7500
FVH (80°-90°)	293.2	1.9			G3/500
BL (0°-30°)	758.8	4.9	B2/1000		
BM (30°-60°)	1585.9	10.2	B2/2500		
BH (60°-80°)	1020.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	109.6	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°	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6
2.5°	1693.5	1703.6	1693.5	1691.8	1675.0	1663.2	1673.3	1658.1	1641.3	1634.6	1619.4
5°	1848.3	1850.0	1831.5	1833.2	1797.8	1760.8	1767.5	1722.1	1673.3	1654.8	1624.5
7.5°	2006.6	1988.1	1961.1	1952.7	1897.2	1856.8	1851.7	1811.3	1735.6	1693.5	1651.4
10°	2109.3	2116.0	2072.2	2035.2	1988.1	1939.2	1937.6	1861.8	1818.0	1755.8	1701.9
12.5°	2200.2	2201.9	2164.8	2105.9	2047.0	1986.4	1994.8	1961.1	1887.1	1828.1	1774.3
15°	2270.9	2260.8	2220.4	2166.5	2104.2	2057.1	2052.0	2023.4	1961.1	1912.3	1823.1
17.5°	2291.1	2286.0	2245.6	2188.4	2127.8	2092.4	2105.9	2058.8	2033.5	1989.8	1903.9
20°	2252.4	2240.6	2233.8	2169.9	2126.1	2122.7	2111.0	2121.1	2079.0	2038.6	1976.3
22.5°	2181.7	2176.6	2173.2	2122.7	2102.5	2117.7	2137.9	2153.0	2146.3	2107.6	2036.9
25°	2109.3	2132.8	2111.0	2087.4	2116.0	2154.7	2149.7	2198.5	2198.5	2186.7	2127.8
27.5°	2159.8	2144.6	2127.8	2116.0	2126.1	2186.7	2183.3	2242.3	2264.1	2242.3	2174.9
30°	2286.0	2270.9	2222.1	2169.9	2156.4	2222.1	2238.9	2291.1	2301.2	2247.3	2190.1
32.5°	2523.4	2515.0	2437.5	2284.3	2201.9	2238.9	2247.3	2306.2	2297.8	2264.1	2240.6
35°	2875.2	2846.6	2738.9	2479.6	2297.8	2260.8	2238.9	2286.0	2318.0	2301.2	2279.3
37.5°	3260.7	3228.7	3095.7	2767.5	2471.2	2319.7	2302.9	2341.6	2378.6	2370.2	2324.7
40°	3629.4	3629.4	3509.8	3127.7	2728.8	2462.8	2466.1	2422.4	2456.0	2440.9	2449.3
42.5°	3993.0	3979.5	3930.7	3550.2	3004.8	2701.8	2648.0	2538.5	2599.1	2594.1	2605.9
45°	4361.6	4351.5	4338.1	3944.1	3400.4	3025.0	2996.4	2799.5	2855.0	2831.4	2881.9
47.5°	4656.2	4668.0	4668.0	4383.5	3822.9	3456.0	3413.9	3102.5	3208.5	3220.3	3232.1
50°	4907.0	4912.1	4907.0	4802.7	4294.3	3949.2	3863.3	3546.9	3652.9	3745.5	3853.2
52.5°	5253.8	5260.5	5237.0	5196.6	4934.0	4467.7	4371.7	4019.9	4237.1	4334.7	4528.3
55°	5681.4	5630.9	5587.1	5617.4	5548.4	5038.3	4939.0	4508.1	4834.7	4964.3	5351.5
57.5°	5760.5	5804.3	5915.4	6156.1	6255.4	5593.9	5536.6	5107.4	5509.7	5622.5	6268.9
60°	6040.0	5967.6	6240.3	6762.1	6873.2	6317.7	6258.8	5763.9	6181.4	6299.2	7115.6
62.5°	6223.4	6220.1	6624.1	7243.6	7496.1	7068.5	6949.0	6617.4	6906.9	7021.4	8038.1
65°	6169.6	6218.4	6935.5	7526.4	8016.2	7922.0	7852.9	7351.3	7733.4	7723.3	8639.1
67.5°	5678.0	5816.1	6738.6	7730.1	8790.6	8962.3	8940.4	8383.2	8405.1	8191.3	8906.7
70°	4996.3	4949.1	5905.3	7518.0	9177.8	10196.2	10191.2	9150.8	9009.4	8294.0	8139.1
72°	3838.1	3785.9	4572.0	6455.7	8974.1	10689.4	10840.9	9682.8	9002.7	7868.1	6723.4
72.5°	3484.6	3439.1	4221.9	6077.0	8748.5	10817.4	10746.7	9703.0	8932.0	7667.8	6280.7
75°	1604.3	1552.1	2109.3	3720.3	6824.4	9585.1	9825.9	9080.1	7800.8	6103.9	3762.3
77.5°	478.1	462.9	678.4	1501.6	3966.0	7061.8	7154.3	6851.3	5445.7	3343.2	1395.5
80°	266.0	267.7	350.1	562.2	1744.0	4082.2	4415.5	4232.0	2671.5	1104.3	464.6
82.5°	148.1	156.6	218.8	333.3	801.3	1873.6	2016.7	1944.3	966.3	518.5	254.2
85°	77.4	80.8	114.5	178.4	454.5	592.5	609.4	653.1	501.6	353.5	136.4
87.5°	30.3	30.3	42.1	74.1	168.3	183.5	165.0	200.3	287.9	228.9	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°	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6	1607.6
2.5°	1632.9	1619.4	1617.7	1595.8	1602.6	1584.1	1585.7	1582.4	1584.1	1580.7	1572.3
5°	1624.5	1614.4	1585.7	1604.3	1587.4	1611.0	1629.5	1622.8	1627.8	1626.1	1627.8
7.5°	1636.2	1622.8	1619.4	1609.3	1624.5	1634.6	1649.7	1691.8	1688.4	1693.5	1703.6
10°	1671.6	1656.4	1646.3	1661.5	1653.1	1685.1	1701.9	1723.8	1762.5	1764.2	1744.0
12.5°	1740.6	1730.5	1710.3	1713.7	1742.3	1752.4	1762.5	1776.0	1801.2	1796.2	1814.7
15°	1819.7	1797.8	1786.1	1782.7	1789.4	1801.2	1799.5	1813.0	1826.5	1838.2	1833.2
17.5°	1877.0	1848.3	1851.7	1868.5	1866.9	1863.5	1841.6	1834.9	1841.6	1848.3	1845.0
20°	1935.9	1939.2	1914.0	1898.8	1892.1	1858.4	1841.6	1821.4	1801.2	1811.3	1826.5
22.5°	2010.0	1994.8	1957.8	1912.3	1878.6	1858.4	1806.3	1770.9	1770.9	1781.0	1776.0
25°	2094.1	2062.1	1998.2	1915.7	1873.6	1787.7	1750.7	1745.7	1732.2	1747.3	1754.1
27.5°	2159.8	2131.2	2043.6	1903.9	1787.7	1718.7	1696.8	1690.1	1712.0	1713.7	1740.6
30°	2186.7	2178.3	2050.4	1873.6	1700.2	1589.1	1575.6	1605.9	1629.5	1664.9	1666.5
32.5°	2222.1	2225.4	2060.5	1802.9	1585.7	1474.6	1454.4	1491.5	1558.8	1587.4	1609.3
35°	2281.0	2297.8	2052.0	1715.4	1464.5	1358.5	1355.1	1365.2	1430.9	1481.4	1510.0
37.5°	2383.7	2380.3	2050.4	1611.0	1368.6	1257.5	1230.5	1233.9	1277.7	1319.8	1314.7
40°	2521.7	2508.2	2045.3	1474.6	1244.0	1171.6	1126.2	1109.3	1106.0	1094.2	1097.6
42.5°	2710.2	2683.3	2043.6	1336.6	1131.2	1053.8	1021.8	978.0	946.1	885.5	888.8
45°	2972.8	2925.7	1999.9	1207.0	1020.1	956.2	907.3	875.4	806.3	730.6	730.6
47.5°	3378.5	3225.3	2001.5	1063.9	912.4	860.2	826.5	771.0	696.9	636.3	629.6
50°	3976.1	3626.0	1944.3	951.1	824.9	789.5	754.2	690.2	619.5	577.4	582.4
52.5°	4747.1	4223.6	1942.6	850.1	755.8	730.6	691.9	634.6	582.4	555.5	545.4
55°	5666.2	5014.8	2003.2	767.6	685.1	671.7	654.8	607.7	557.2	533.6	531.9
57.5°	6607.3	5787.4	2100.9	708.7	624.5	634.6	622.8	585.8	545.4	518.5	515.1
60°	7443.9	6400.2	1903.9	638.0	570.7	592.5	609.4	577.4	555.5	553.8	542.0
62.5°	8075.2	6662.8	1447.7	584.1	542.0	582.4	627.9	648.1	638.0	651.5	653.1
65°	8305.8	6504.6	996.6	555.5	520.2	606.0	707.0	700.3	641.4	616.1	629.6
67.5°	7982.6	5863.2	739.0	521.8	505.0	654.8	752.5	668.3	579.1	575.7	565.6
70°	6864.8	4969.3	602.6	486.5	479.8	627.9	732.3	619.5	545.4	523.5	513.4
72°	5469.3	3870.1	528.6	461.2	439.4	560.6	685.1	580.8	516.8	489.9	478.1
72.5°	4992.9	3587.3	518.5	449.5	430.9	545.4	661.6	569.0	510.1	486.5	468.0
75°	2738.9	1836.6	456.2	412.4	363.6	471.3	612.7	533.6	481.4	447.8	444.4
77.5°	1018.4	712.1	393.9	365.3	314.8	407.4	557.2	506.7	437.7	395.6	387.2
80°	390.5	375.4	321.5	308.1	264.3	356.9	513.4	454.5	372.0	329.9	316.5
82.5°	237.4	218.8	244.1	240.7	202.0	324.9	483.1	425.9	329.9	267.7	259.2
85°	129.6	129.6	170.0	163.3	141.4	259.2	365.3	282.8	208.7	171.7	175.1
87.5°	57.2	67.3	90.9	85.9	77.4	146.5	178.4	149.8	104.4	70.7	75.8
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)