

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: P478582

Luminaire Tested: **IFLD-S-SA2C-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478582
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

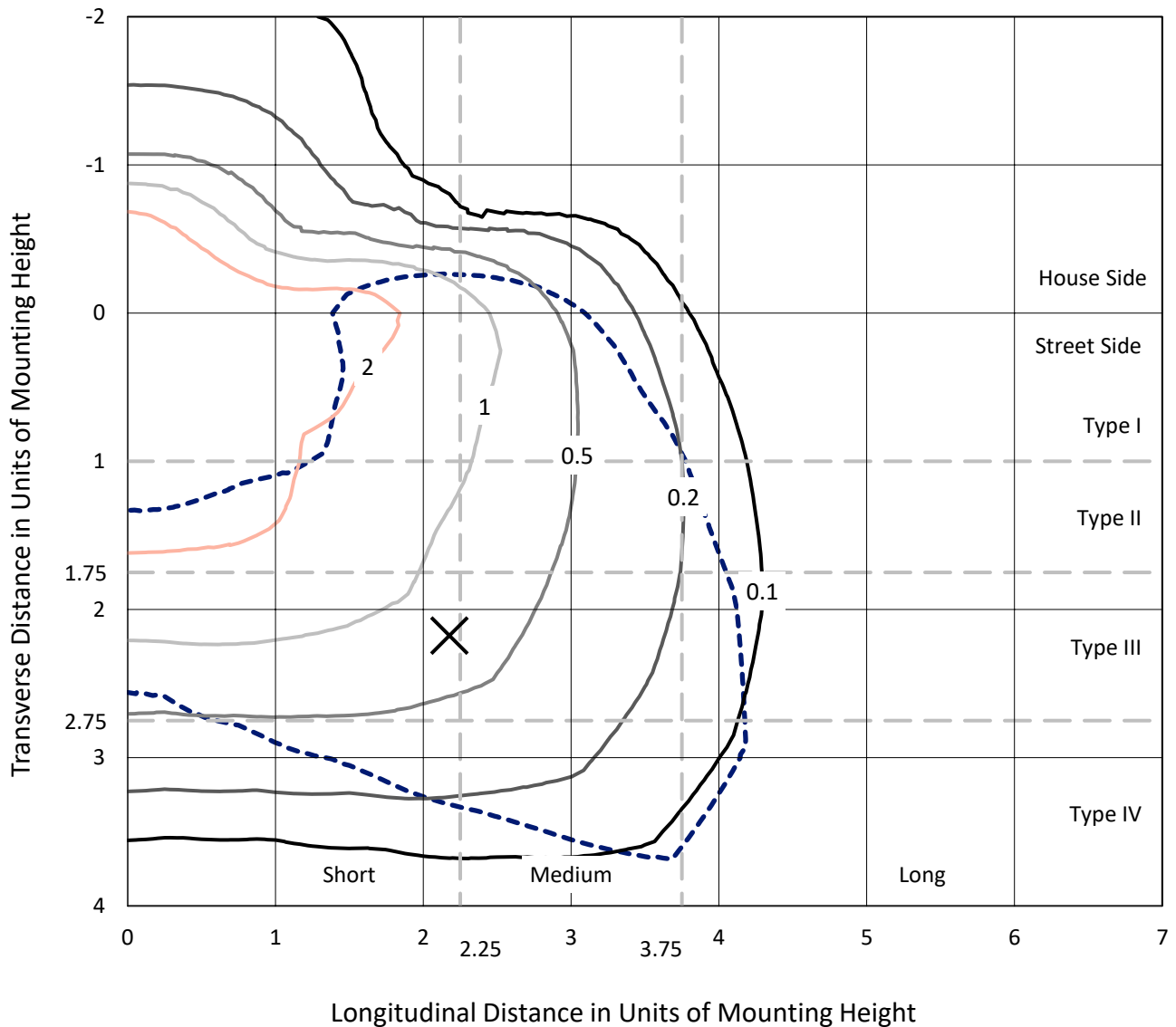
Lumens per Lamp: N/A
Luminaire Lumens: 14695.6 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
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

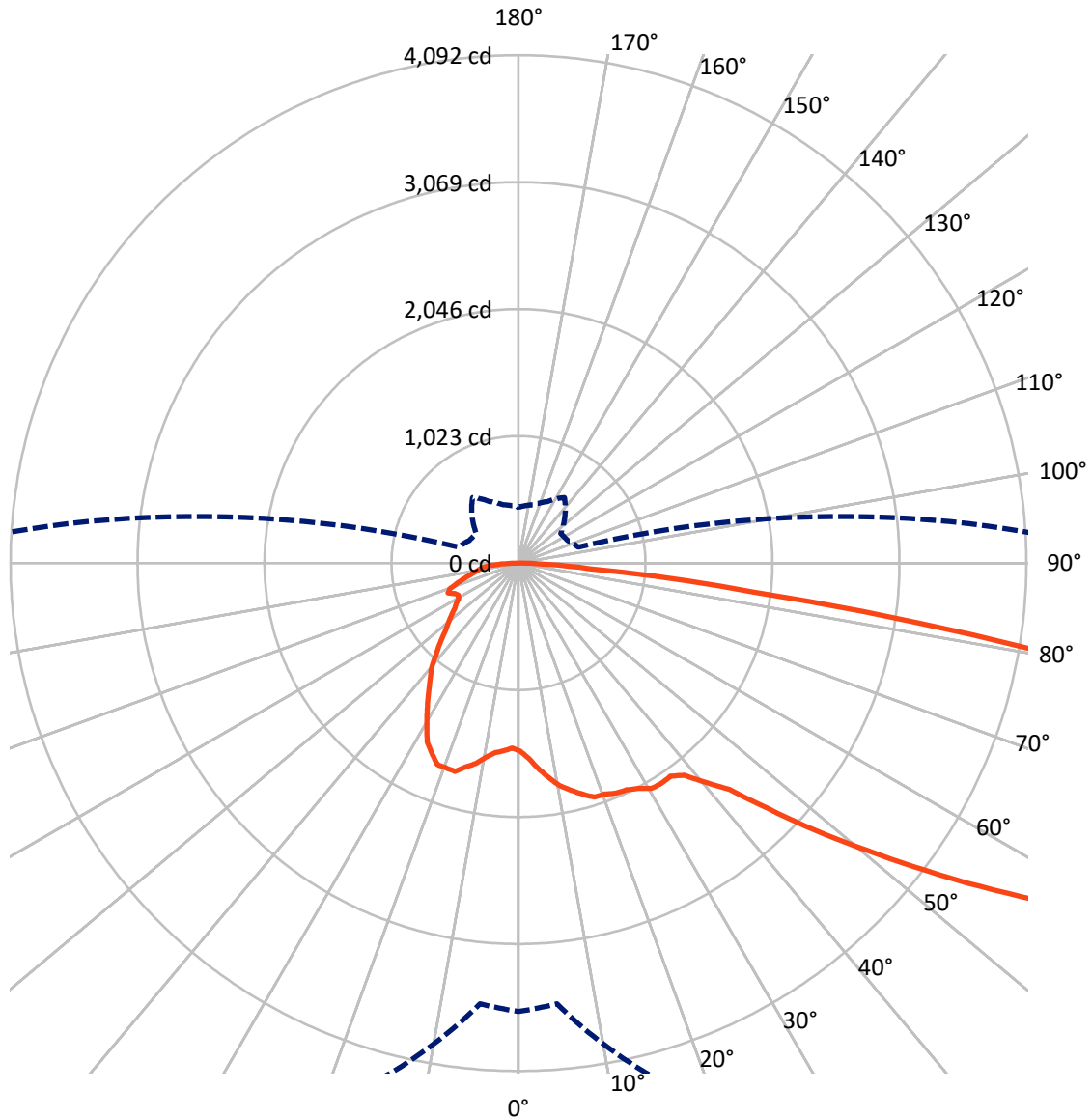
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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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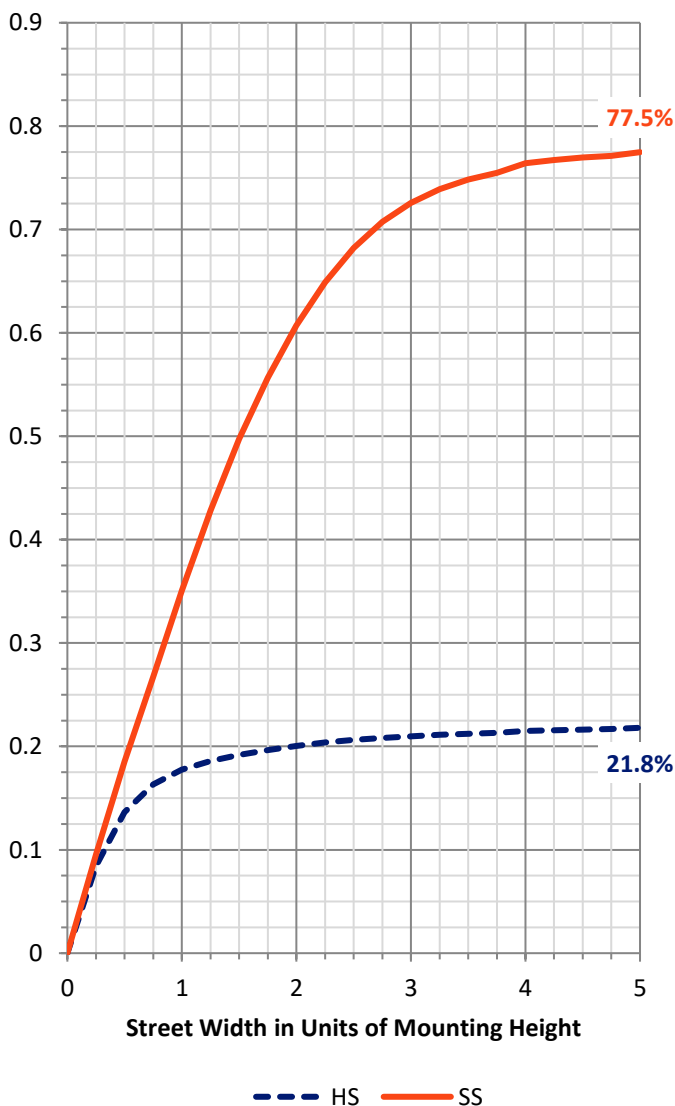
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3271.3	0.0	3271.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11424.3	0.0	11424.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	14695.6	0.0	14695.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	1.1
10°-20°	515.2	3.5
20°-30°	870.1	5.9
30°-40°	1204.1	8.2
40°-50°	1722.3	11.7
50°-60°	2777.8	18.9
60°-70°	4096.9	27.9
70°-80°	2975.1	20.2
80°-90°	379.3	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°	14695.6	100.0
0°-180°	14695.6	100.0

Coefficient of Utilization



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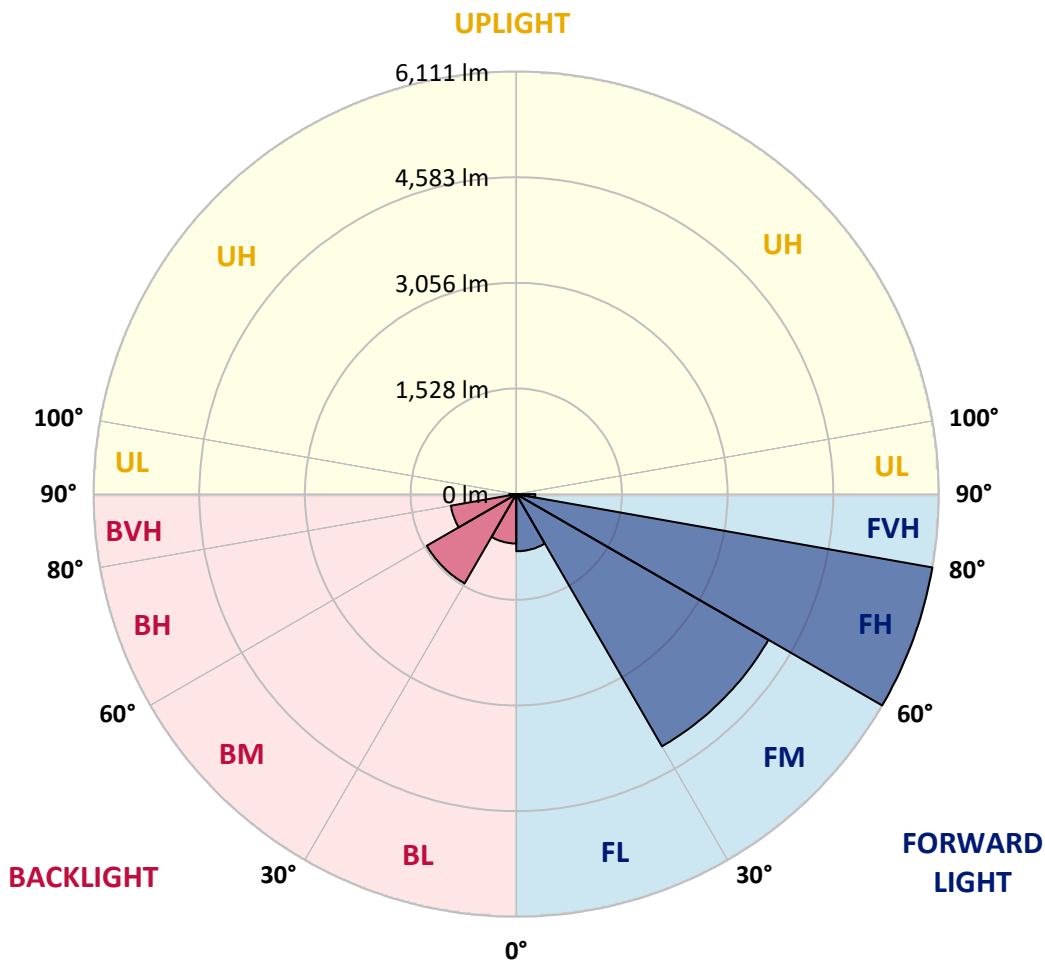
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.9	5.6			
FM (30°-60°)	4211.2	28.7			
FH (60°-80°)	6111.1	41.6			G3/7500
FVH (80°-90°)	276.0	1.9			G3/500
BL (0°-30°)	714.3	4.9	B2/1000		
BM (30°-60°)	1492.9	10.2	B2/2500		
BH (60°-80°)	960.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	103.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4
2.5°	1594.2	1603.7	1594.2	1592.6	1576.8	1565.7	1575.2	1560.9	1545.1	1538.7	1524.5
5°	1740.0	1741.6	1724.1	1725.7	1692.5	1657.6	1663.9	1621.1	1575.2	1557.8	1529.2
7.5°	1889.0	1871.5	1846.2	1838.2	1785.9	1747.9	1743.2	1705.1	1633.8	1594.2	1554.6
10°	1985.6	1992.0	1950.8	1915.9	1871.5	1825.6	1824.0	1752.7	1711.5	1652.8	1602.1
12.5°	2071.2	2072.8	2037.9	1982.5	1927.0	1869.9	1877.9	1846.2	1776.4	1721.0	1670.3
15°	2137.8	2128.2	2090.2	2039.5	1980.9	1936.5	1931.7	1904.8	1846.2	1800.2	1716.2
17.5°	2156.8	2152.0	2114.0	2060.1	2003.1	1969.8	1982.5	1938.1	1914.3	1873.1	1792.3
20°	2120.3	2109.2	2102.9	2042.7	2001.5	1998.3	1987.2	1996.7	1957.1	1919.1	1860.4
22.5°	2053.8	2049.0	2045.8	1998.3	1979.3	1993.5	2012.6	2026.8	2020.5	1984.0	1917.5
25°	1985.6	2007.8	1987.2	1965.0	1992.0	2028.4	2023.7	2069.6	2069.6	2058.5	2003.1
27.5°	2033.2	2018.9	2003.1	1992.0	2001.5	2058.5	2055.3	2110.8	2131.4	2110.8	2047.4
30°	2152.0	2137.8	2091.8	2042.7	2030.0	2091.8	2107.6	2156.8	2166.3	2115.6	2061.7
32.5°	2375.5	2367.5	2294.6	2150.4	2072.8	2107.6	2115.6	2171.0	2163.1	2131.4	2109.2
35°	2706.7	2679.7	2578.3	2334.3	2163.1	2128.2	2107.6	2152.0	2182.1	2166.3	2145.7
37.5°	3069.6	3039.4	2914.3	2605.2	2326.3	2183.7	2167.9	2204.3	2239.2	2231.2	2188.5
40°	3416.6	3416.6	3304.1	2944.4	2568.8	2318.4	2321.6	2280.4	2312.1	2297.8	2305.7
42.5°	3758.9	3746.2	3700.3	3342.1	2828.7	2543.4	2492.7	2389.7	2446.8	2442.0	2453.1
45°	4105.9	4096.4	4083.8	3712.9	3201.1	2847.7	2820.8	2635.3	2687.6	2665.5	2713.0
47.5°	4383.3	4394.4	4394.4	4126.5	3598.8	3253.4	3213.8	2920.6	3020.4	3031.5	3042.6
50°	4619.4	4624.1	4619.4	4521.1	4042.6	3717.7	3636.9	3338.9	3438.8	3525.9	3627.4
52.5°	4945.8	4952.2	4930.0	4891.9	4644.7	4205.8	4115.4	3784.2	3988.7	4080.6	4262.8
55°	5348.3	5300.8	5259.6	5288.1	5223.1	4743.0	4649.5	4243.8	4551.2	4673.3	5037.7
57.5°	5422.8	5464.0	5568.6	5795.2	5888.7	5265.9	5212.1	4808.0	5186.7	5292.9	5901.4
60°	5685.9	5617.7	5874.5	6365.7	6470.3	5947.4	5891.9	5426.0	5819.0	5929.9	6698.5
62.5°	5858.6	5855.4	6235.8	6818.9	7056.6	6654.1	6541.6	6229.4	6502.0	6609.8	7566.9
65°	5807.9	5853.9	6528.9	7085.2	7546.3	7457.6	7392.6	6920.4	7280.1	7270.6	8132.6
67.5°	5345.2	5475.1	6343.5	7276.9	8275.3	8436.9	8416.3	7891.8	7912.4	7711.1	8384.6
70°	4703.4	4659.0	5559.1	7077.2	8639.7	9598.5	9593.7	8614.4	8481.3	7807.8	7662.0
72°	3613.1	3564.0	4304.0	6077.3	8448.0	10062.8	10205.4	9115.2	8474.9	7406.9	6329.3
72.5°	3280.3	3237.5	3974.4	5720.7	8235.7	10183.2	10116.7	9134.2	8408.4	7218.3	5912.5
75°	1510.2	1461.1	1985.6	3502.2	6424.3	9023.2	9249.9	8547.8	7343.5	5746.1	3541.8
77.5°	450.1	435.8	638.6	1413.5	3733.5	6647.8	6734.9	6449.7	5126.5	3147.2	1313.7
80°	250.4	252.0	329.6	529.3	1641.7	3842.9	4156.7	3983.9	2514.9	1039.6	437.4
82.5°	139.5	147.4	206.0	313.8	754.3	1763.8	1898.5	1830.3	909.6	488.1	239.3
85°	72.9	76.1	107.8	168.0	427.9	557.8	573.7	614.9	472.2	332.8	128.4
87.5°	28.5	28.5	39.6	69.7	158.5	172.7	155.3	188.6	271.0	215.5	63.4
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°	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4
2.5°	1537.2	1524.5	1522.9	1502.3	1508.6	1491.2	1492.8	1489.6	1491.2	1488.0	1480.1
5°	1529.2	1519.7	1492.8	1510.2	1494.4	1516.6	1534.0	1527.6	1532.4	1530.8	1532.4
7.5°	1540.3	1527.6	1524.5	1515.0	1529.2	1538.7	1553.0	1592.6	1589.4	1594.2	1603.7
10°	1573.6	1559.3	1549.8	1564.1	1556.2	1586.3	1602.1	1622.7	1659.2	1660.8	1641.7
12.5°	1638.6	1629.1	1610.0	1613.2	1640.2	1649.7	1659.2	1671.9	1695.6	1690.9	1708.3
15°	1713.1	1692.5	1681.4	1678.2	1684.5	1695.6	1694.0	1706.7	1719.4	1730.5	1725.7
17.5°	1766.9	1740.0	1743.2	1759.0	1757.4	1754.3	1733.7	1727.3	1733.7	1740.0	1736.8
20°	1822.4	1825.6	1801.8	1787.5	1781.2	1749.5	1733.7	1714.6	1695.6	1705.1	1719.4
22.5°	1892.1	1877.9	1843.0	1800.2	1768.5	1749.5	1700.4	1667.1	1667.1	1676.6	1671.9
25°	1971.4	1941.2	1881.0	1803.4	1763.8	1682.9	1648.1	1643.3	1630.6	1644.9	1651.3
27.5°	2033.2	2006.2	1923.8	1792.3	1682.9	1618.0	1597.4	1591.0	1611.6	1613.2	1638.6
30°	2058.5	2050.6	1930.2	1763.8	1600.5	1496.0	1483.3	1511.8	1534.0	1567.3	1568.8
32.5°	2091.8	2095.0	1939.7	1697.2	1492.8	1388.2	1369.2	1404.0	1467.4	1494.4	1515.0
35°	2147.3	2163.1	1931.7	1614.8	1378.7	1278.8	1275.7	1285.2	1347.0	1394.5	1421.5
37.5°	2243.9	2240.8	1930.2	1516.6	1288.4	1183.8	1158.4	1161.6	1202.8	1242.4	1237.6
40°	2373.9	2361.2	1925.4	1388.2	1171.1	1102.9	1060.2	1044.3	1041.1	1030.1	1033.2
42.5°	2551.4	2526.0	1923.8	1258.2	1064.9	992.0	961.9	920.7	890.6	833.5	836.7
45°	2798.6	2754.2	1882.6	1136.2	960.3	900.1	854.1	824.0	759.1	687.8	687.8
47.5°	3180.5	3036.3	1884.2	1001.5	858.9	809.8	778.1	725.8	656.1	599.0	592.7
50°	3743.0	3413.4	1830.3	895.4	776.5	743.2	709.9	649.7	583.2	543.5	548.3
52.5°	4468.8	3976.0	1828.7	800.3	711.5	687.8	651.3	597.4	548.3	522.9	513.4
55°	5334.1	4720.8	1885.8	722.6	645.0	632.3	616.4	572.1	524.5	502.3	500.8
57.5°	6219.9	5448.2	1977.7	667.2	587.9	597.4	586.3	551.5	513.4	488.1	484.9
60°	7007.5	6025.0	1792.3	600.6	537.2	557.8	573.7	543.5	522.9	521.4	510.3
62.5°	7601.8	6272.2	1362.8	549.9	510.3	548.3	591.1	610.1	600.6	613.3	614.9
65°	7818.9	6123.3	938.1	522.9	489.7	570.5	665.6	659.2	603.8	580.0	592.7
67.5°	7514.6	5519.5	695.7	491.3	475.4	616.4	708.4	629.1	545.1	542.0	532.5
70°	6462.4	4678.0	567.3	458.0	451.6	591.1	689.3	583.2	513.4	492.8	483.3
72°	5148.7	3643.2	497.6	434.2	413.6	527.7	645.0	546.7	486.5	461.1	450.1
72.5°	4700.2	3377.0	488.1	423.1	405.7	513.4	622.8	535.6	480.2	458.0	440.5
75°	2578.3	1728.9	429.5	388.2	342.3	443.7	576.8	502.3	453.2	421.5	418.4
77.5°	958.7	670.3	370.8	343.9	296.3	383.5	524.5	477.0	412.0	372.4	364.5
80°	367.6	353.4	302.7	290.0	248.8	336.0	483.3	427.9	350.2	310.6	297.9
82.5°	223.4	206.0	229.8	226.6	190.2	305.8	454.8	400.9	310.6	252.0	244.0
85°	122.0	122.0	160.1	153.7	133.1	244.0	343.9	266.2	196.5	161.6	164.8
87.5°	53.9	63.4	85.6	80.8	72.9	137.9	168.0	141.0	98.3	66.6	71.3
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)