

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: P483850

Luminaire Tested: **IFLD-S-SA3A-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

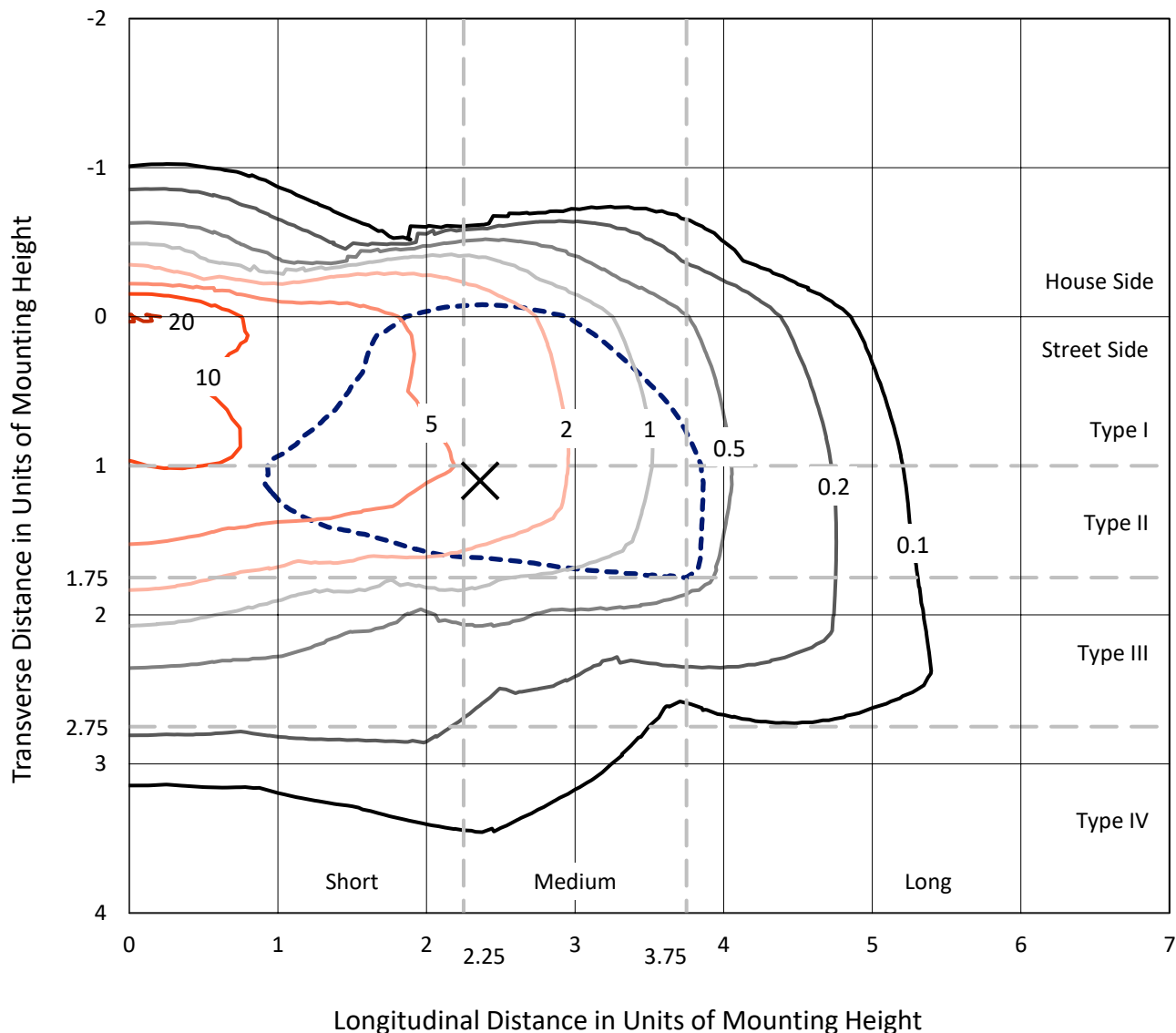
Lumens per Lamp: N/A
Luminaire Lumens: 8341.3 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

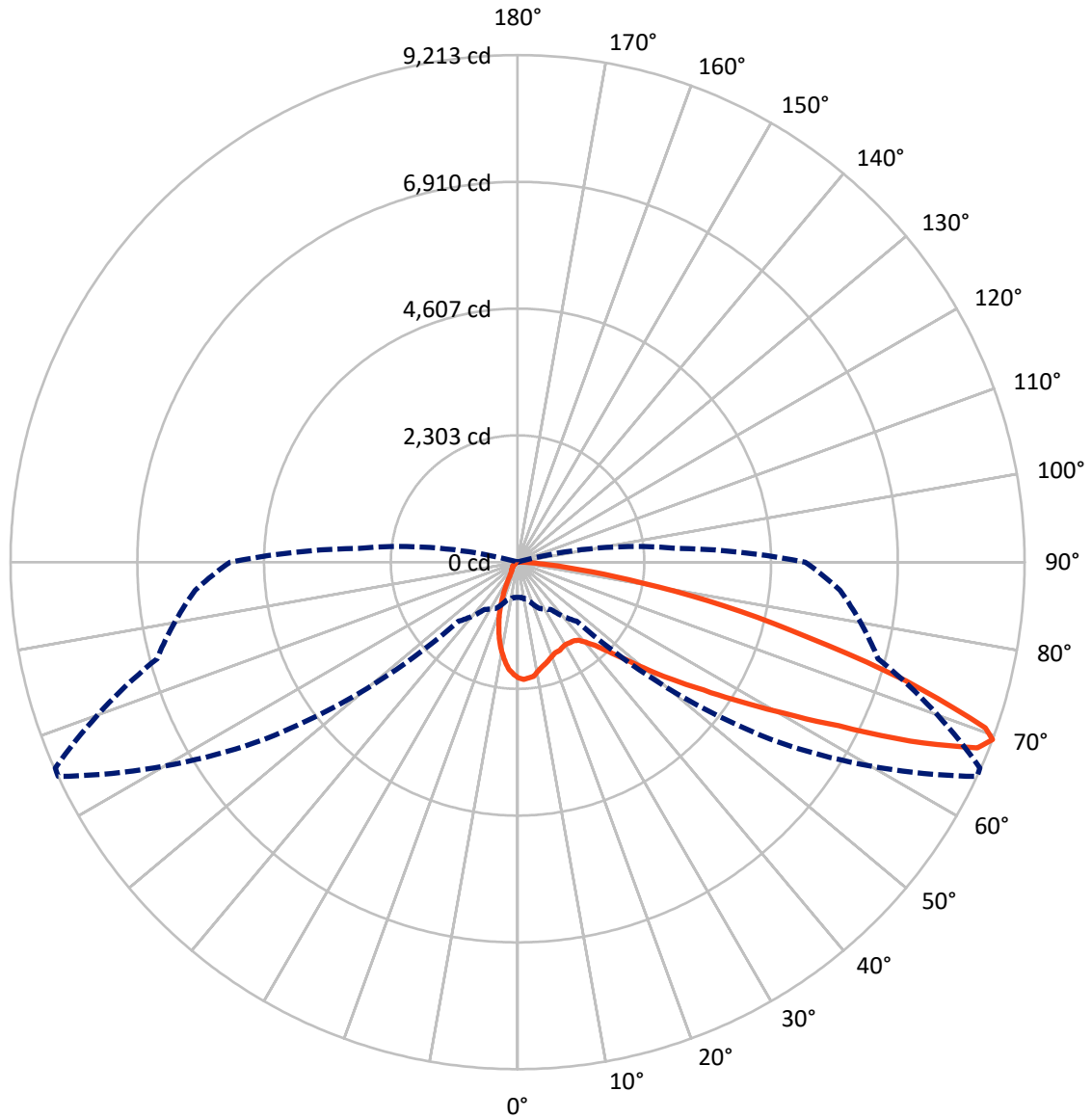
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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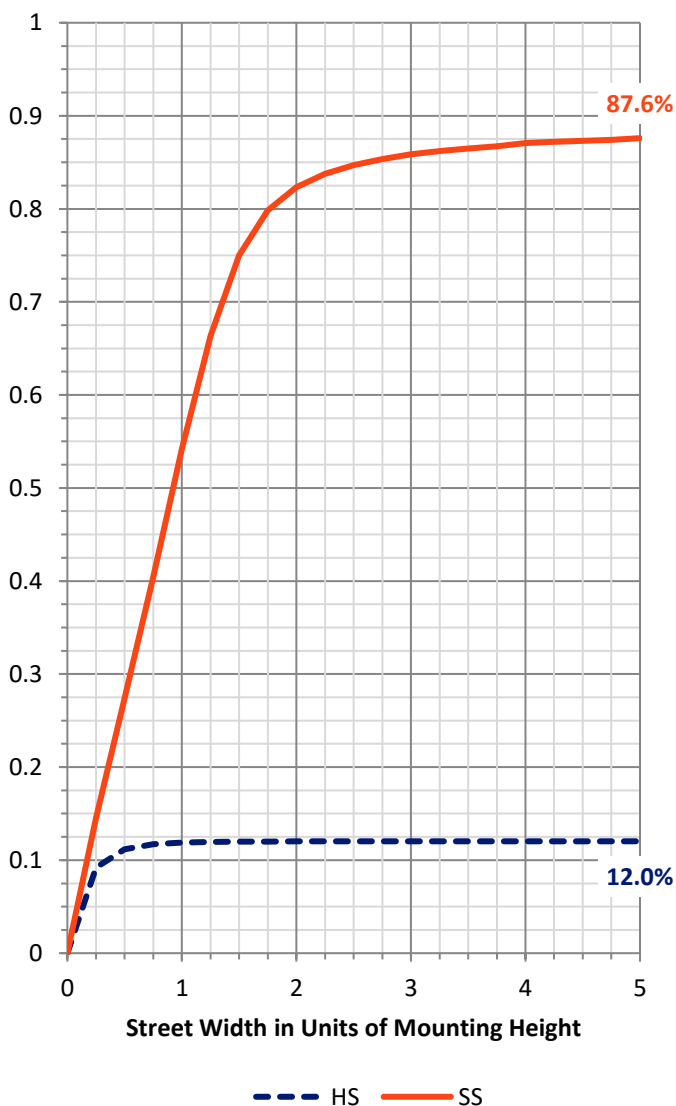
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.9	0.0	1011.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7329.4	0.0	7329.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	8341.3	0.0	8341.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	2.1
10°-20°	376.5	4.5
20°-30°	524.2	6.3
30°-40°	742.9	8.9
40°-50°	1170.8	14.0
50°-60°	1899.8	22.8
60°-70°	2121.6	25.4
70°-80°	1194.7	14.3
80°-90°	138.6	1.7
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°	8341.3	100.0
0°-180°	8341.3	100.0

Coefficient of Utilization

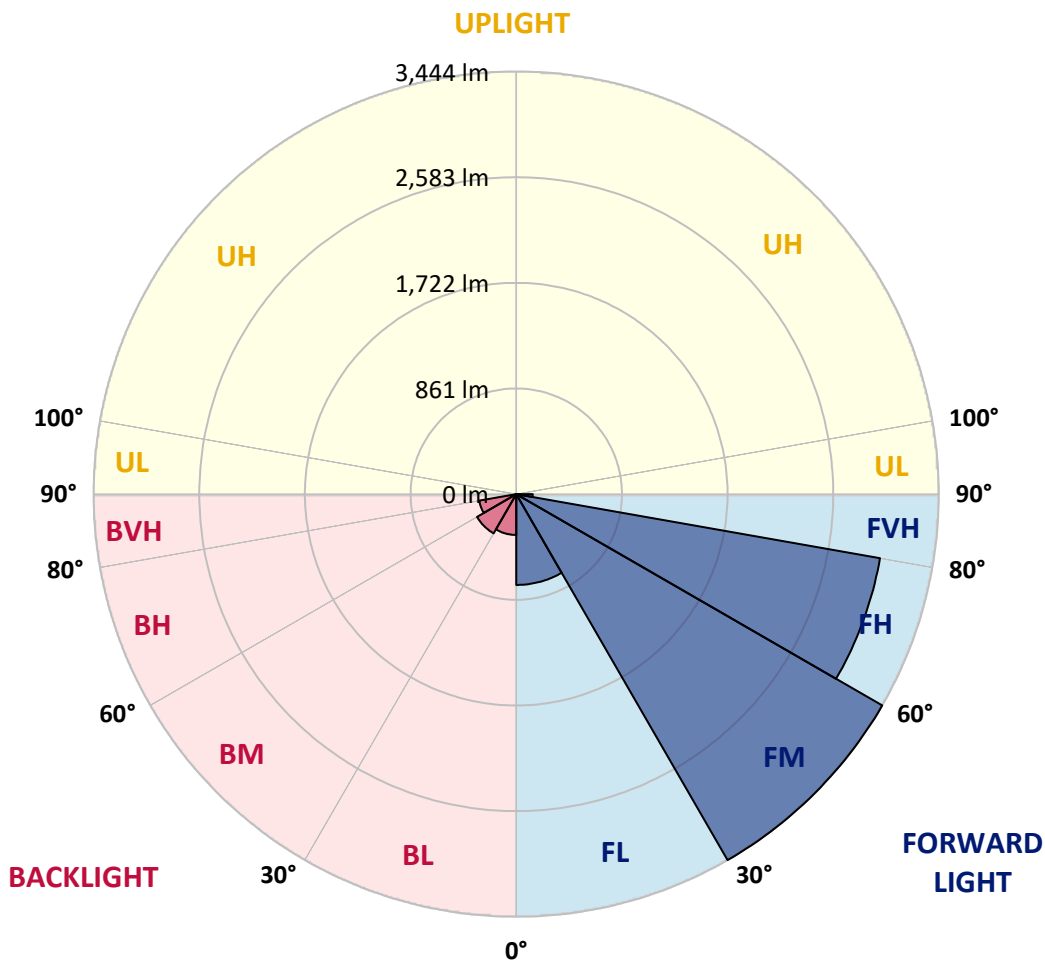


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.2	8.9			
FM (30°-60°)	3444.2	41.3			
FH (60°-80°)	3010.2	36.1			G2/5000
FVH (80°-90°)	134.8	1.6			G2/225
BL (0°-30°)	332.7	4.0	B1/500		
BM (30°-60°)	369.2	4.4	B1/1000		
BH (60°-80°)	306.1	3.7	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0
2.5°	2025.4	2041.1	2045.6	2061.4	2069.3	2103.0	2122.2	2133.4	2127.8	2140.2	2141.3
5°	1881.4	1872.4	1896.0	1912.9	1948.9	2007.4	2067.0	2113.1	2134.5	2154.8	2151.4
7.5°	1727.2	1722.7	1746.3	1784.6	1817.2	1888.1	1983.7	2097.4	2092.9	2142.4	2157.0
10°	1621.4	1625.9	1633.8	1672.1	1720.5	1792.5	1911.7	2017.5	2041.1	2145.8	2175.0
12.5°	1524.7	1532.5	1547.2	1586.5	1642.8	1717.1	1833.0	1956.7	1992.8	2126.7	2185.2
15°	1493.2	1475.2	1504.4	1533.7	1592.2	1658.6	1756.5	1910.6	1926.4	2104.1	2202.0
17.5°	1467.3	1456.0	1469.5	1493.2	1555.0	1609.1	1701.3	1861.1	1890.4	2095.1	2199.8
20°	1475.2	1465.0	1470.7	1488.7	1516.8	1567.4	1652.9	1813.8	1845.3	2053.5	2196.4
22.5°	1497.7	1505.5	1495.4	1499.9	1508.9	1534.8	1627.1	1780.1	1807.1	2045.6	2215.5
25°	1598.9	1585.4	1571.9	1566.3	1513.4	1524.7	1619.2	1777.8	1797.0	2017.5	2199.8
27.5°	1704.7	1693.4	1687.8	1655.2	1583.2	1549.4	1620.3	1746.3	1772.2	2006.3	2180.7
30°	1833.0	1847.6	1825.1	1785.7	1685.6	1602.3	1632.7	1730.6	1766.6	1963.5	2168.3
32.5°	1968.0	1975.9	1987.1	1957.9	1828.5	1682.2	1669.8	1745.2	1747.5	1963.5	2140.2
35°	2121.0	2109.8	2139.0	2141.3	2027.6	1824.0	1740.7	1755.3	1779.0	1954.5	2130.0
37.5°	2252.7	2271.8	2305.6	2359.6	2242.5	2024.3	1851.0	1802.6	1812.7	1996.1	2137.9
40°	2396.7	2415.8	2492.3	2546.4	2480.0	2249.3	2018.6	1912.9	1920.7	2058.0	2178.4
42.5°	2555.4	2592.5	2683.6	2778.2	2760.1	2535.1	2234.7	2074.9	2071.5	2212.2	2261.7
45°	2770.3	2819.8	2918.8	3027.9	3043.7	2862.5	2522.7	2316.8	2328.1	2413.6	2433.8
47.5°	3069.6	3067.3	3164.1	3285.6	3376.8	3202.4	2867.0	2642.0	2640.9	2732.0	2689.3
50°	3358.8	3359.9	3385.8	3526.4	3762.7	3673.8	3293.5	3074.1	3061.7	3106.7	3038.1
52.5°	3492.7	3476.9	3457.8	3627.7	4059.8	4267.9	3833.6	3563.5	3553.4	3526.4	3508.4
55°	3352.0	3357.6	3356.5	3533.2	4216.2	4894.7	4526.7	4102.5	4085.6	4001.3	4026.0
57.5°	2900.8	2882.8	2922.2	3197.9	4037.3	5322.3	5518.0	4782.2	4738.3	4458.1	4401.8
60°	2159.3	2164.9	2197.5	2522.7	3592.8	5412.3	6466.6	5579.9	5390.9	4779.9	4702.3
62.5°	1507.8	1496.5	1508.9	1691.2	2568.9	5052.2	7108.0	6549.9	6367.6	5145.6	5100.6
65°	1079.1	1064.5	1114.0	1225.4	1542.7	3862.9	7199.1	7841.6	7678.5	5729.6	5621.6
67.5°	776.4	774.1	831.5	1034.1	1096.0	2224.5	6524.0	9011.8	8912.8	6422.7	5938.9
69°	642.5	643.6	698.8	926.1	1046.4	1519.0	5613.7	9213.2	9195.2	6780.5	5879.2
70°	560.4	564.9	629.0	861.9	1026.2	1249.0	4839.5	9015.2	8997.2	6850.3	5682.3
72.5°	345.4	348.8	433.2	690.9	975.6	1019.4	2894.0	7375.8	7437.7	6530.7	4895.8
75°	165.4	166.5	227.3	499.6	940.7	966.6	1550.5	5442.7	5573.2	5272.7	3825.7
77.5°	87.8	87.8	109.1	265.6	761.8	909.2	920.4	3839.2	3947.2	3334.0	2175.0
80°	43.9	45.0	66.4	138.4	472.6	891.2	719.0	2289.8	2348.3	1360.4	677.4
82.5°	16.9	18.0	31.5	83.3	245.3	752.8	631.2	1126.3	1111.7	318.4	165.4
85°	2.3	2.3	11.3	49.5	104.6	331.9	521.0	470.3	454.6	69.8	79.9
87.5°	0.0	0.0	2.3	14.6	31.5	96.8	201.4	129.4	144.0	19.1	39.4
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°	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0	2103.0
2.5°	2135.7	2112.0	2076.0	2041.1	2004.0	1959.0	1909.5	1891.5	1860.0	1857.7	1875.7
5°	2133.4	2095.1	2032.1	1957.9	1852.1	1772.2	1685.6	1622.6	1574.2	1542.7	1550.5
7.5°	2144.7	2098.5	1989.4	1829.6	1693.4	1534.8	1400.9	1308.6	1224.2	1182.6	1178.1
10°	2126.7	2064.8	1905.0	1681.1	1480.8	1259.1	1063.3	939.6	813.5	767.4	769.6
12.5°	2136.8	2050.1	1813.8	1528.0	1252.4	964.3	730.3	561.5	443.3	405.1	400.6
15°	2143.5	2018.6	1726.1	1344.6	999.2	657.1	423.1	318.4	281.3	274.6	273.4
17.5°	2117.7	1980.4	1602.3	1163.5	740.4	399.5	281.3	259.9	253.2	248.7	246.4
20°	2116.5	1957.9	1495.4	977.8	494.0	272.3	243.0	235.2	225.0	221.7	221.7
22.5°	2097.4	1910.6	1367.1	774.1	315.1	234.0	218.3	205.9	194.7	190.2	189.0
25°	2091.8	1855.5	1246.7	581.7	239.7	209.3	193.5	175.5	162.0	155.3	151.9
27.5°	2076.0	1808.2	1125.2	409.6	209.3	186.8	166.5	147.4	131.6	121.5	120.4
30°	2019.8	1758.7	990.2	283.6	190.2	165.4	142.9	120.4	104.6	97.9	95.6
32.5°	1996.1	1712.6	842.8	218.3	173.3	146.3	120.4	100.1	87.8	81.0	79.9
35°	1968.0	1645.1	699.9	190.2	157.5	127.1	101.3	84.4	74.3	68.6	68.6
37.5°	1971.4	1591.1	566.0	172.2	140.7	109.1	86.6	72.0	63.0	57.4	57.4
40°	1961.2	1548.3	440.0	156.4	124.9	93.4	73.1	60.8	52.9	47.3	46.1
42.5°	2007.4	1537.0	331.9	142.9	109.1	79.9	63.0	51.8	43.9	37.1	37.1
45°	2085.0	1555.0	258.8	130.5	93.4	68.6	54.0	42.8	34.9	30.4	29.3
47.5°	2292.1	1625.9	202.5	120.4	79.9	59.6	45.0	34.9	28.1	23.6	22.5
50°	2592.5	1784.6	172.2	105.8	67.5	50.6	37.1	27.0	22.5	18.0	16.9
52.5°	3020.1	2051.3	156.4	93.4	56.3	41.6	29.3	21.4	16.9	13.5	12.4
55°	3485.9	2384.3	141.8	78.8	47.3	33.8	23.6	16.9	12.4	9.0	7.9
57.5°	3849.4	2672.4	129.4	65.3	38.3	27.0	18.0	12.4	9.0	5.6	4.5
60°	4246.6	2874.9	113.6	51.8	31.5	20.3	13.5	9.0	6.8	3.4	3.4
62.5°	4656.1	3112.3	93.4	40.5	24.8	15.8	10.1	6.8	4.5	1.1	1.1
65°	5225.5	3298.0	72.0	31.5	19.1	11.3	7.9	5.6	2.3	0.0	0.0
67.5°	5386.4	3206.9	52.9	24.8	13.5	7.9	5.6	3.4	1.1	0.0	0.0
69°	5225.5	2888.4	46.1	21.4	11.3	6.8	4.5	2.3	1.1	0.0	0.0
70°	4931.8	2640.9	40.5	18.0	10.1	6.8	3.4	2.3	1.1	0.0	0.0
72.5°	4125.0	2025.4	31.5	13.5	7.9	5.6	3.4	2.3	0.0	0.0	0.0
75°	3025.7	1251.2	23.6	10.1	6.8	4.5	3.4	2.3	0.0	0.0	0.0
77.5°	1621.4	456.8	16.9	6.8	4.5	3.4	3.4	2.3	0.0	0.0	0.0
80°	444.5	135.0	12.4	4.5	3.4	2.3	2.3	1.1	0.0	0.0	0.0
82.5°	121.5	34.9	7.9	4.5	3.4	2.3	1.1	0.0	0.0	0.0	0.0
85°	65.3	13.5	4.5	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	33.8	4.5	3.4	2.3	2.3	1.1	0.0	0.0	0.0	0.0	0.0
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)