

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: P480101

Luminaire Tested: **IFLD-S-SA2A-740-U-SL2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480101
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

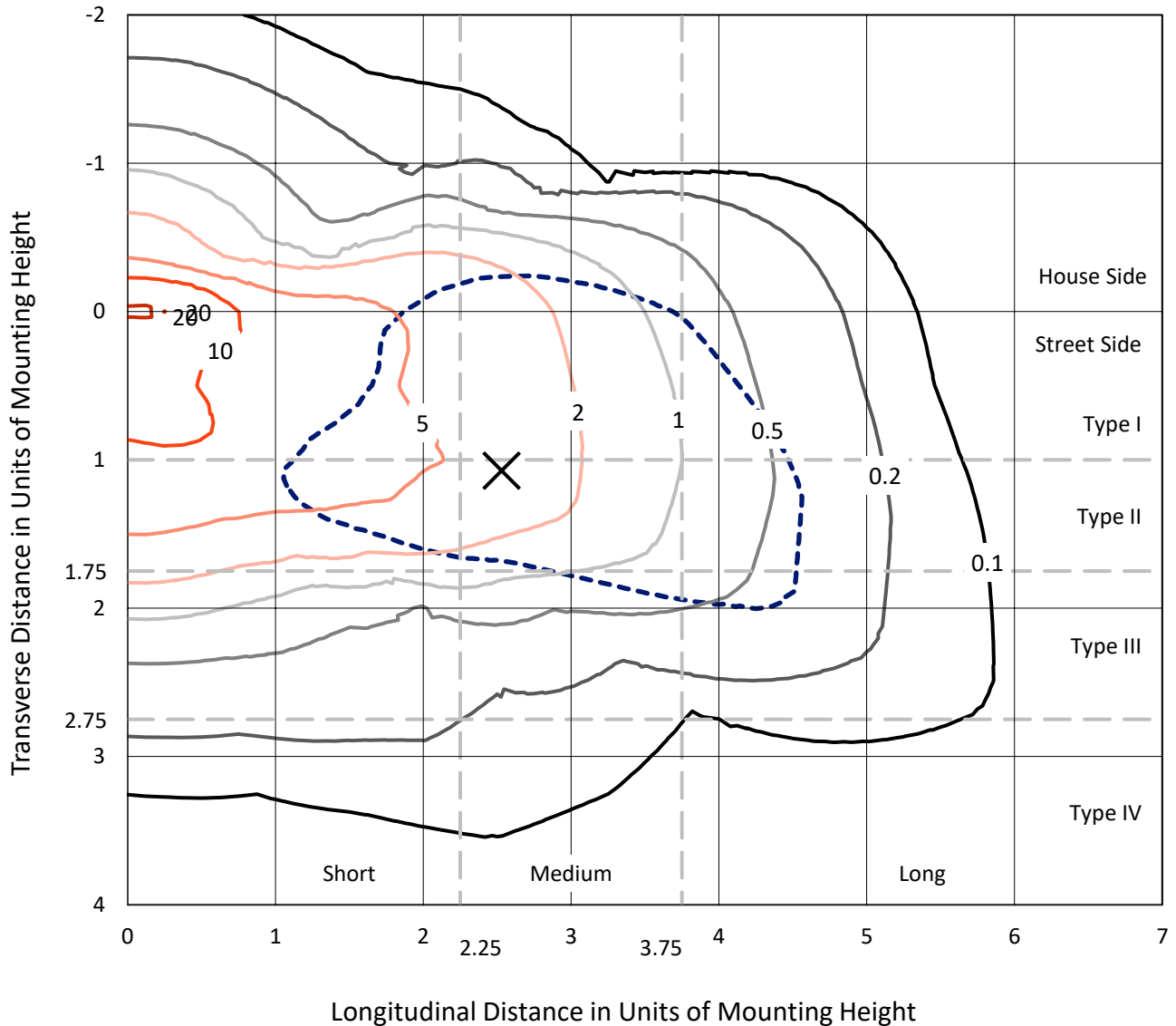
Lumens per Lamp: N/A
Luminaire Lumens: 9205.1 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (A_{in}): 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

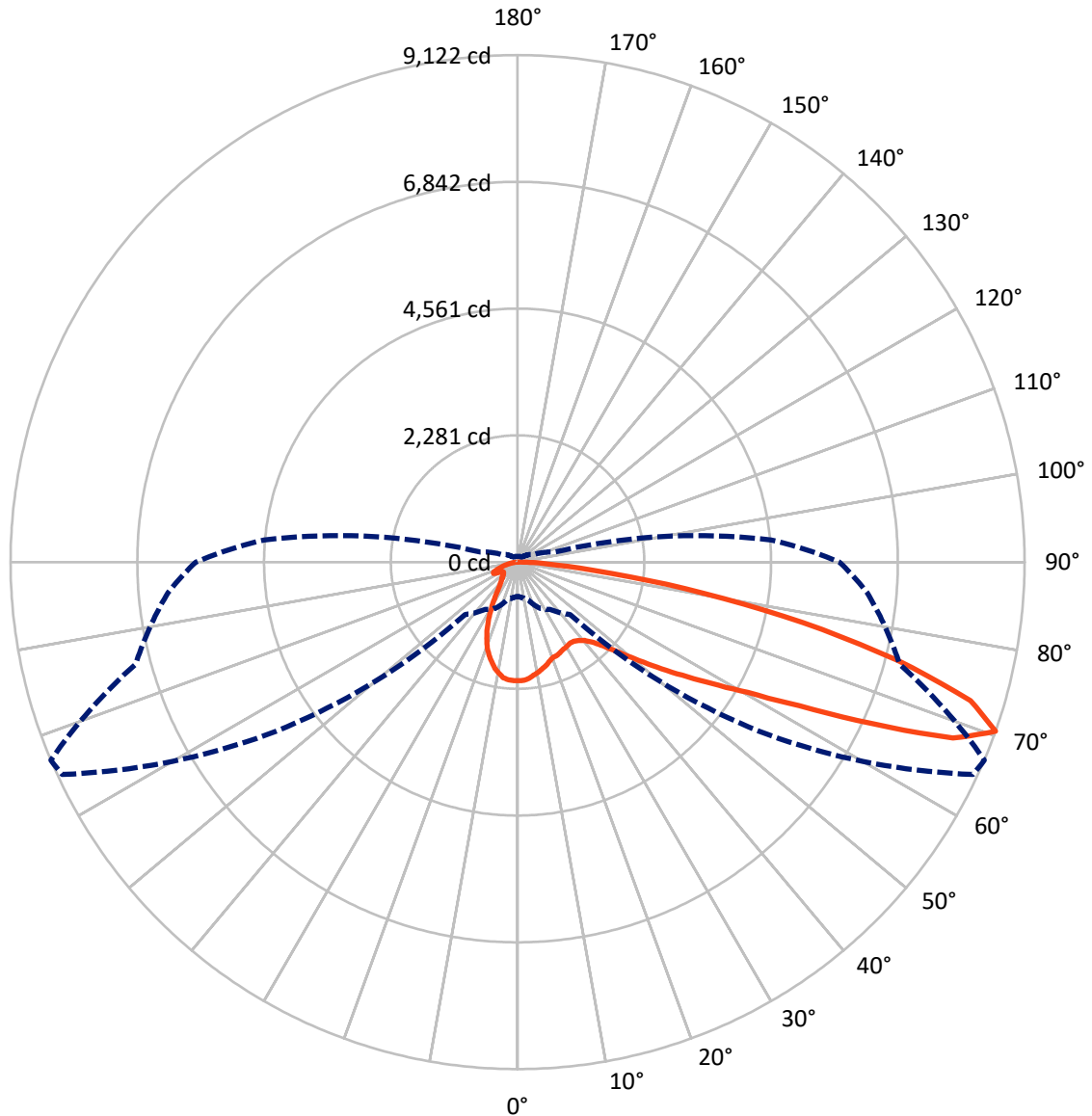
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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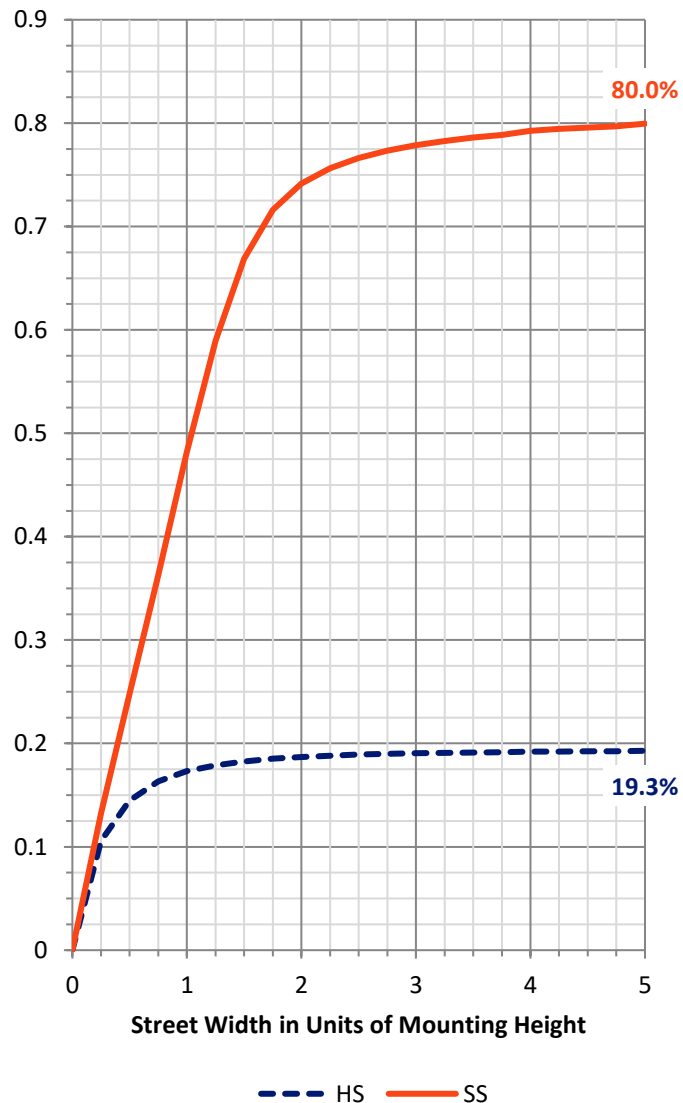
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1792.8	0.0	1792.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7412.3	0.0	7412.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	9205.1	0.0	9205.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	2.0
10°-20°	445.3	4.8
20°-30°	601.3	6.5
30°-40°	804.6	8.7
40°-50°	1183.2	12.9
50°-60°	1844.3	20.0
60°-70°	2271.9	24.7
70°-80°	1605.3	17.4
80°-90°	263.1	2.9
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°	9205.1	100.0
0°-180°	9205.1	100.0

Coefficient of Utilization

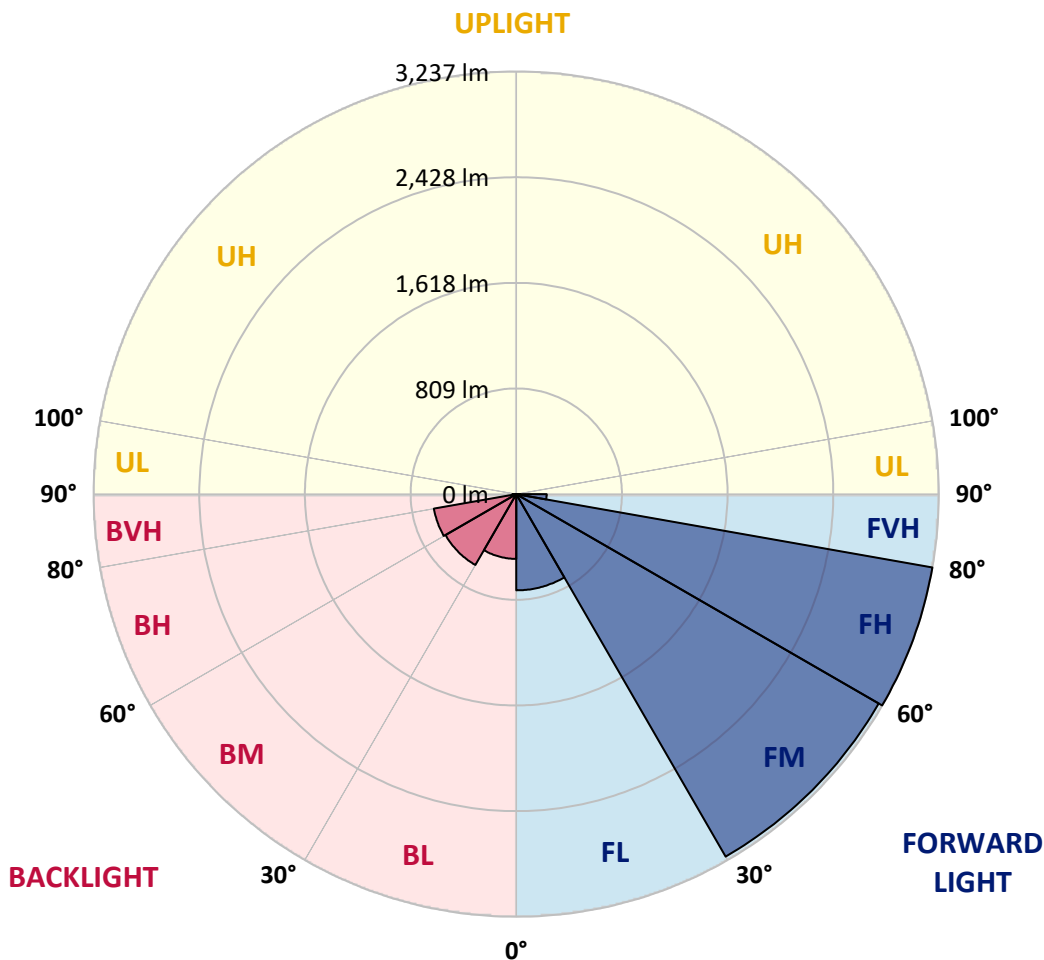


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.8	8.0			
FM (30°-60°)	3205.9	34.8			
FH (60°-80°)	3236.8	35.2			G2/5000
FVH (80°-90°)	232.8	2.5			G3/500
BL (0°-30°)	495.8	5.4	B1/500		
BM (30°-60°)	626.3	6.8	B1/1000		
BH (60°-80°)	640.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	30.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9
2.5°	1984.2	2006.6	2014.8	2027.0	2058.6	2082.0	2096.3	2112.6	2132.0	2148.3	2158.5
5°	1845.6	1857.8	1877.2	1890.4	1930.2	1993.4	2036.2	2105.5	2103.4	2128.9	2167.6
7.5°	1711.1	1723.3	1732.5	1759.0	1816.0	1873.1	1951.6	2063.7	2055.5	2114.6	2174.8
10°	1627.5	1618.3	1621.4	1666.2	1711.1	1775.3	1874.1	1988.3	2017.8	2109.5	2195.1
12.5°	1549.0	1538.8	1563.3	1591.8	1646.9	1705.0	1823.2	1926.1	1970.9	2091.2	2204.3
15°	1500.1	1493.0	1523.6	1535.8	1601.0	1670.3	1753.9	1879.2	1928.1	2068.8	2190.0
17.5°	1472.6	1478.7	1489.9	1516.4	1558.2	1617.3	1709.0	1847.6	1869.0	2041.3	2187.0
20°	1477.7	1484.8	1485.9	1497.1	1525.6	1571.5	1665.2	1814.0	1828.3	2036.2	2195.1
22.5°	1518.5	1508.3	1512.3	1505.2	1513.4	1549.0	1631.6	1769.2	1824.2	1993.4	2177.8
25°	1579.6	1565.3	1563.3	1538.8	1523.6	1533.7	1625.5	1758.0	1793.6	1980.1	2176.8
27.5°	1687.6	1666.2	1666.2	1629.5	1567.4	1551.1	1608.1	1739.6	1771.2	1967.9	2153.4
30°	1791.6	1791.6	1792.6	1740.6	1671.3	1590.8	1615.3	1732.5	1752.9	1931.2	2121.8
32.5°	1917.9	1914.9	1909.8	1884.3	1777.3	1657.1	1649.9	1723.3	1733.5	1919.0	2112.6
35°	2041.3	2033.1	2072.9	2050.4	1941.4	1786.5	1685.6	1727.4	1749.8	1900.6	2084.1
37.5°	2134.0	2139.1	2221.6	2235.9	2142.2	1933.2	1786.5	1768.1	1789.5	1927.1	2084.1
40°	2254.3	2274.6	2352.1	2400.0	2342.9	2126.9	1946.5	1836.4	1851.7	1986.2	2128.9
42.5°	2412.2	2429.5	2528.4	2590.6	2574.3	2373.5	2104.4	1979.1	1966.9	2085.1	2196.2
45°	2621.1	2624.2	2724.1	2809.7	2843.3	2631.3	2355.1	2159.5	2149.3	2255.3	2319.5
47.5°	2869.8	2866.7	2928.9	3020.6	3111.3	2939.1	2643.5	2433.6	2396.9	2498.8	2524.3
50°	3110.3	3097.0	3111.3	3228.5	3402.8	3324.3	2994.1	2768.9	2732.2	2788.3	2832.1
52.5°	3242.8	3259.1	3220.4	3375.3	3712.6	3779.8	3458.8	3169.4	3137.8	3165.3	3241.8
55°	3150.0	3183.7	3158.2	3304.9	3848.1	4335.3	4060.1	3633.1	3592.3	3582.1	3707.5
57.5°	2755.7	2816.8	2821.9	3054.2	3801.2	4765.3	4906.0	4180.4	4119.2	4015.3	4144.7
60°	2115.7	2176.8	2223.7	2498.8	3399.7	5022.1	5886.3	4958.9	4757.2	4488.1	4565.6
62.5°	1482.8	1524.6	1571.5	1740.6	2621.1	4871.3	6734.2	6055.5	5683.5	4986.5	5083.3
65°	1080.2	1112.9	1160.8	1260.6	1610.2	4030.5	7127.6	7357.9	7005.3	5620.3	5608.1
67.5°	813.2	833.6	896.8	1056.8	1115.9	2489.7	6720.0	8733.7	8448.4	6324.5	6030.0
70°	615.5	632.9	692.0	911.1	1042.5	1335.0	5301.4	9040.5	9122.0	7114.3	6313.3
72.5°	423.9	443.3	509.6	759.2	992.6	1058.8	3327.4	8212.9	8521.7	7439.4	6009.6
75°	259.9	273.1	311.8	575.8	985.5	1035.4	1831.3	6730.1	7057.3	6873.8	5257.5
77.5°	183.4	182.4	189.6	337.3	854.0	1041.5	1129.2	4931.4	5249.4	5066.0	3567.9
80°	133.5	134.5	141.7	201.8	579.9	1058.8	889.7	3302.9	3397.7	2641.5	1407.4
82.5°	80.5	84.6	101.9	136.6	348.5	955.9	822.4	1835.4	1717.2	847.9	387.3
85°	42.8	42.8	60.1	86.6	185.5	713.4	791.8	873.4	731.7	262.9	143.7
87.5°	10.2	10.2	17.3	34.6	74.4	341.4	540.1	347.5	278.2	88.7	59.1
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°	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9
2.5°	2154.4	2142.2	2157.4	2126.9	2102.4	2103.4	2065.7	2063.7	2058.6	2032.1	2041.3
5°	2178.8	2168.6	2151.3	2117.7	2063.7	2009.7	1977.1	1935.3	1917.9	1908.8	1912.9
7.5°	2202.3	2183.9	2134.0	2087.1	2003.6	1901.6	1842.5	1786.5	1715.1	1707.0	1692.7
10°	2208.4	2169.7	2105.5	2005.6	1894.5	1781.4	1646.9	1542.9	1487.9	1445.1	1428.8
12.5°	2199.2	2182.9	2059.6	1931.2	1763.0	1585.7	1428.8	1282.0	1180.1	1127.1	1112.9
15°	2198.2	2169.7	2008.6	1818.1	1603.0	1371.7	1148.5	972.2	865.2	821.4	821.4
17.5°	2199.2	2130.9	1948.5	1703.9	1414.5	1101.6	856.0	711.3	652.2	646.1	651.2
20°	2178.8	2102.4	1885.3	1569.4	1178.1	827.5	621.7	562.5	562.5	570.7	573.8
22.5°	2160.5	2059.6	1785.5	1403.3	937.6	599.2	505.5	488.1	507.5	521.8	527.9
25°	2135.0	2023.9	1683.6	1231.1	713.4	483.1	439.2	443.3	461.7	487.1	485.1
27.5°	2098.3	1961.8	1562.3	1031.3	531.0	416.8	405.6	407.6	427.0	438.2	436.2
30°	2056.5	1898.6	1450.2	832.6	420.9	382.2	381.1	386.2	389.3	395.4	394.4
32.5°	2003.6	1815.0	1330.9	647.1	379.1	362.8	358.7	355.7	358.7	357.7	354.6
35°	1965.8	1770.2	1209.7	493.2	355.7	345.5	342.4	337.3	333.2	327.1	326.1
37.5°	1955.7	1725.3	1082.3	402.5	337.3	332.2	322.0	312.9	307.8	304.7	302.7
40°	1949.5	1695.8	958.0	353.6	322.0	316.9	304.7	292.5	287.4	284.3	285.3
42.5°	1970.9	1679.5	831.6	329.2	308.8	299.6	286.4	272.1	271.1	269.0	272.1
45°	2046.4	1699.9	714.4	311.8	295.5	280.3	262.9	255.8	254.8	252.7	254.8
47.5°	2217.6	1750.8	614.5	300.6	281.3	268.0	249.7	239.5	238.5	237.5	237.5
50°	2454.0	1907.8	531.0	287.4	272.1	253.8	236.4	225.2	223.2	219.1	219.1
52.5°	2824.9	2171.7	481.0	280.3	255.8	240.5	222.2	209.9	204.8	200.8	200.8
55°	3242.8	2498.8	471.8	268.0	238.5	224.2	207.9	195.7	190.6	185.5	183.4
57.5°	3718.7	2932.0	537.1	259.9	226.2	207.9	189.6	178.3	174.3	169.2	167.1
60°	4162.0	3364.1	739.9	247.6	215.0	192.6	174.3	163.1	158.0	152.9	152.9
62.5°	4674.6	3899.1	1083.3	247.6	204.8	176.3	158.0	149.8	146.8	141.7	140.6
65°	5281.0	4452.5	1334.0	262.9	201.8	162.0	142.7	134.5	131.5	128.4	127.4
67.5°	5742.6	4770.4	1147.5	303.7	215.0	149.8	127.4	122.3	120.3	117.2	115.2
70°	5791.6	4576.8	692.0	328.2	228.3	137.6	114.1	109.0	109.0	106.0	103.9
72.5°	5352.3	4061.1	465.7	292.5	206.9	123.3	100.9	96.8	94.8	92.7	91.7
75°	4479.0	3444.6	367.9	233.4	159.0	101.9	87.6	83.6	80.5	79.5	77.5
77.5°	3008.4	2239.0	272.1	182.4	117.2	82.5	73.4	69.3	66.2	65.2	62.2
80°	1155.7	853.0	175.3	132.5	82.5	65.2	58.1	54.0	52.0	48.9	46.9
82.5°	340.4	276.2	97.8	81.5	53.0	44.8	41.8	38.7	35.7	32.6	31.6
85°	140.6	126.4	60.1	42.8	32.6	26.5	24.5	21.4	18.3	16.3	14.3
87.5°	65.2	54.0	27.5	16.3	11.2	6.1	3.1	1.0	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)