

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: P509406

Luminaire Tested: **VERD-CA2-90-730-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-730-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11913 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

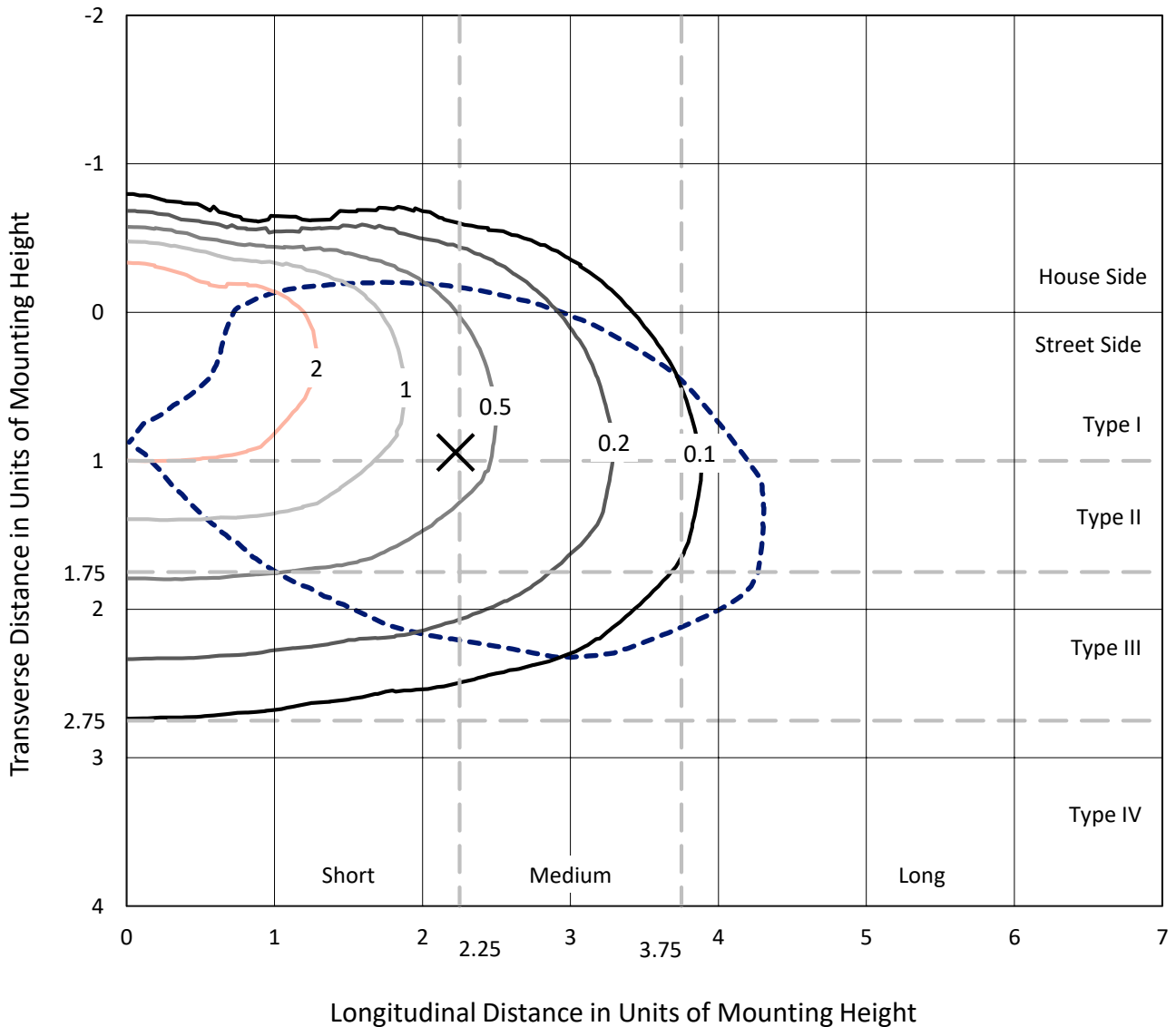
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

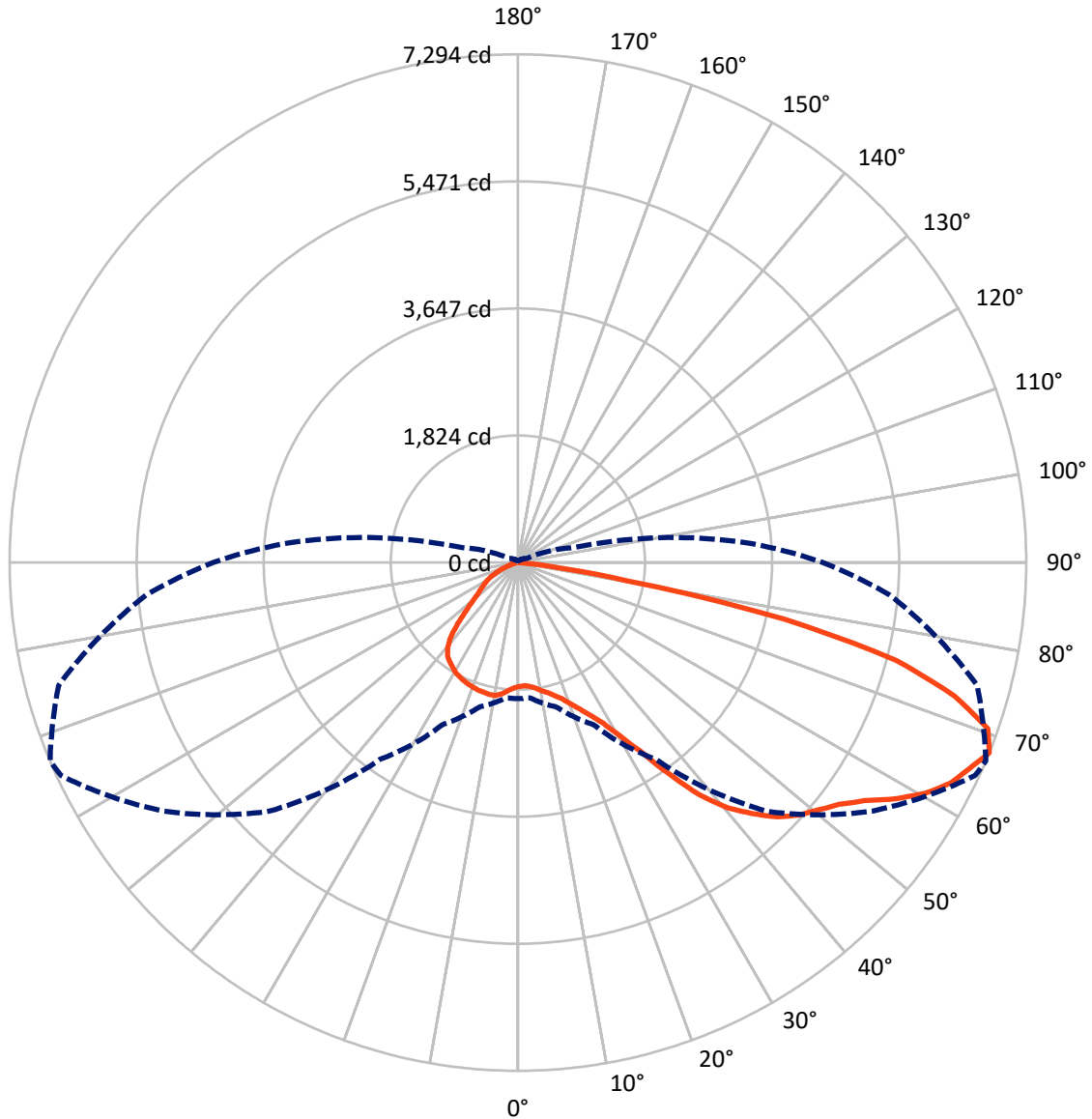
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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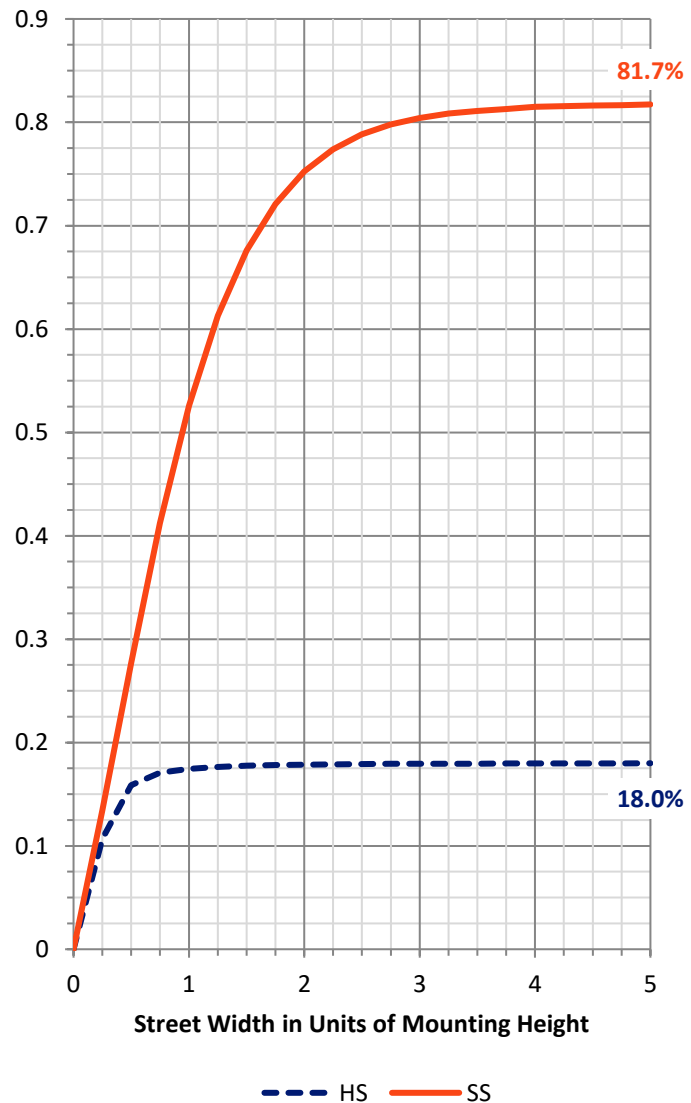
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2170.6	0.0	2170.6
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	9742.4	0.0	9742.4
	% Fixture	81.8	0.0	81.8
Total	Lumens	11913.0	0.0	11913.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	1.5
10°-20°	558.1	4.7
20°-30°	952.4	8.0
30°-40°	1482.4	12.4
40°-50°	2092.6	17.6
50°-60°	2520.4	21.2
60°-70°	2604.6	21.9
70°-80°	1434.8	12.0
80°-90°	89.4	0.8
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°	11913.0	100.0
0°-180°	11913.0	100.0



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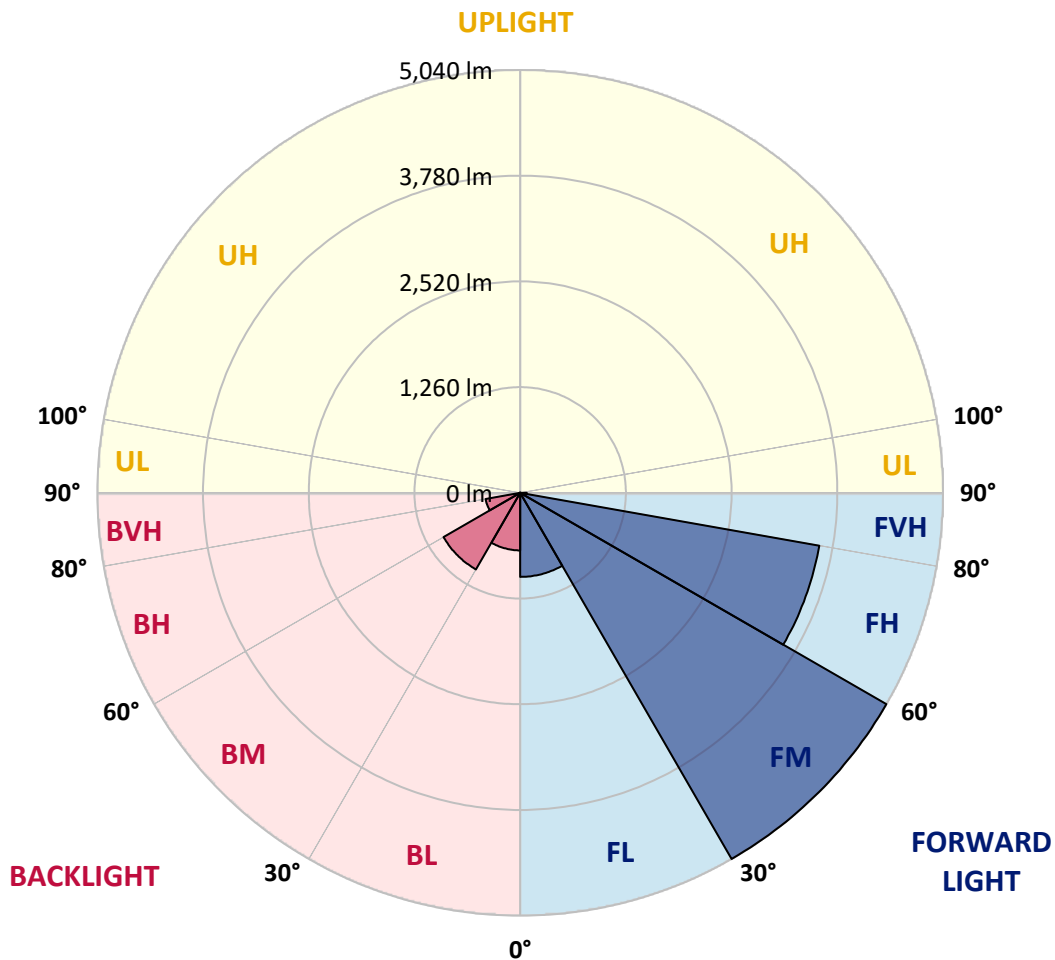
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1002.4	8.4			
FM	(30°-60°)	5040.2	42.3			
FH	(60°-80°)	3621.1	30.4			G2/5000
FVH	(80°-90°)	78.7	0.7			G1/100
BL	(0°-30°)	686.3	5.8	B2/1000		
BM	(30°-60°)	1055.2	8.9	B2/2500		
BH	(60°-80°)	418.4	3.5	B1/500		G1/500
BVH	(80°-90°)	10.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7
2.5°	1762.2	1780.1	1780.1	1774.6	1777.4	1765.0	1756.7	1766.3	1769.1	1777.4	1788.4
5°	1796.7	1817.4	1816.0	1806.3	1798.1	1787.0	1776.0	1784.3	1785.6	1788.4	1802.2
7.5°	1869.8	1889.1	1880.8	1871.1	1867.0	1842.2	1818.7	1817.4	1820.1	1828.4	1843.6
10°	1964.9	1980.1	1977.3	1962.1	1951.1	1913.9	1880.8	1868.4	1869.8	1872.5	1898.7
12.5°	2072.4	2093.1	2078.0	2057.3	2038.0	1984.2	1938.7	1920.8	1918.0	1924.9	1947.0
15°	2178.6	2200.7	2189.7	2177.2	2133.1	2073.8	2015.9	1987.0	1984.2	1984.2	1998.0
17.5°	2317.9	2326.2	2319.3	2301.3	2251.7	2177.2	2108.3	2065.6	2058.7	2062.8	2065.6
20°	2472.3	2487.5	2479.2	2459.9	2388.2	2308.2	2221.4	2170.3	2166.2	2170.3	2144.1
22.5°	2659.8	2665.4	2661.2	2629.5	2564.7	2458.5	2344.1	2286.2	2286.2	2290.3	2236.5
25°	2819.8	2852.9	2843.2	2804.6	2728.8	2636.4	2498.5	2426.8	2431.0	2433.7	2359.3
27.5°	3005.9	3033.5	3026.6	2997.7	2948.0	2830.8	2665.4	2618.5	2614.3	2610.2	2494.4
30°	3183.8	3204.5	3218.3	3211.4	3171.4	3061.1	2913.6	2879.1	2890.1	2881.8	2681.9
32.5°	3328.6	3364.5	3403.1	3411.3	3400.3	3302.4	3194.8	3212.8	3226.6	3324.5	3204.5
35°	3452.7	3491.3	3554.7	3620.9	3633.3	3594.7	3540.9	3671.9	3711.9	3911.9	3785.0
37.5°	3582.3	3615.4	3678.8	3783.6	3852.6	3873.3	3925.7	4132.5	4229.0	4401.4	4165.6
40°	3641.6	3674.7	3785.0	3917.4	4060.8	4176.6	4281.4	4521.3	4628.9	4681.3	4375.2
42.5°	3582.3	3614.0	3791.9	4041.5	4235.9	4492.4	4611.0	4850.9	4922.6	4917.1	4633.0
45°	3524.4	3554.7	3740.9	4073.2	4394.5	4783.3	4884.0	5152.8	5205.2	5139.1	4781.9
47.5°	3449.9	3491.3	3684.3	4053.9	4536.5	5046.7	5139.1	5368.0	5414.8	5316.9	4952.9
50°	3358.9	3394.8	3619.5	4023.6	4630.3	5243.9	5341.8	5569.3	5581.7	5490.7	5107.3
52.5°	3254.1	3273.4	3517.5	3962.9	4711.6	5388.6	5500.3	5738.9	5767.8	5743.0	5290.7
55°	3098.3	3132.8	3394.8	3867.7	4717.1	5464.5	5623.0	5978.8	6031.2	5973.3	5402.4
57.5°	2934.2	2971.5	3243.1	3735.4	4635.8	5512.7	5846.4	6290.4	6393.8	6207.7	5493.4
60°	2753.6	2786.7	3054.2	3539.6	4491.0	5581.7	6076.7	6655.8	6720.6	6407.6	5554.1
62.5°	2544.0	2570.2	2825.3	3302.4	4269.0	5563.8	6275.3	6949.5	6970.2	6586.9	5548.6
65°	2288.9	2287.6	2524.7	2971.5	3905.0	5420.4	6311.1	7097.1	7121.9	6702.7	5498.9
67.5°	1952.5	1948.3	2146.9	2567.5	3445.8	5046.7	6216.0	7234.9	7294.2	6824.0	5354.2
70°	1530.5	1536.1	1686.4	2061.4	2796.4	4477.2	5965.0	7142.6	7155.0	6591.0	4979.1
72.5°	1082.4	1079.7	1181.7	1435.4	2066.9	3495.4	5242.5	6512.4	6551.0	6014.6	4337.9
75°	496.4	517.1	772.2	877.0	1247.9	2379.9	4313.1	5533.4	5607.9	5177.7	3382.4
77.5°	92.4	95.1	165.5	333.7	488.1	859.0	2577.1	3747.8	3903.6	3528.5	1905.6
80°	73.1	74.5	97.9	159.9	204.1	386.1	848.0	1544.3	1578.8	1376.1	686.7
82.5°	53.8	55.2	73.1	103.4	95.1	166.8	353.0	449.5	477.1	444.0	273.0
85°	31.7	33.1	42.7	51.0	49.6	66.2	59.3	53.8	48.3	40.0	34.5
87.5°	8.3	11.0	17.9	17.9	13.8	12.4	11.0	9.7	11.0	9.7	9.7
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°	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7
2.5°	1791.2	1789.8	1793.9	1804.9	1814.6	1816.0	1829.8	1847.7	1839.4	1862.9	1854.6
5°	1810.5	1814.6	1829.8	1847.7	1864.2	1878.0	1898.7	1929.0	1919.4	1941.5	1933.2
7.5°	1854.6	1861.5	1884.9	1902.8	1922.1	1918.0	1935.9	1953.9	1931.8	1955.2	1944.2
10°	1907.0	1915.3	1929.0	1935.9	1930.4	1927.7	1923.5	1920.8	1891.8	1908.4	1901.5
12.5°	1953.9	1955.2	1951.1	1933.2	1920.8	1887.7	1872.5	1865.6	1821.5	1833.9	1825.6
15°	1999.4	1980.1	1959.4	1918.0	1883.5	1832.5	1799.4	1770.5	1729.1	1745.7	1729.1
17.5°	2049.0	2020.0	1966.3	1905.6	1835.3	1760.8	1707.0	1660.2	1598.1	1595.4	1589.8
20°	2112.4	2069.7	1982.8	1883.5	1782.9	1671.2	1585.7	1507.1	1413.3	1400.9	1376.1
22.5°	2192.4	2129.0	2007.6	1854.6	1718.1	1577.4	1432.6	1303.0	1184.5	1147.2	1133.4
25°	2284.8	2206.2	2021.4	1828.4	1656.0	1440.9	1243.7	1075.5	936.3	896.3	885.2
27.5°	2400.6	2304.1	2042.1	1789.8	1556.7	1274.1	1017.6	831.5	707.4	642.6	632.9
30°	2560.6	2413.0	2071.1	1751.2	1436.8	1078.3	788.7	572.2	455.0	416.4	409.5
32.5°	2996.3	2672.3	2102.8	1682.2	1278.2	860.4	524.0	365.4	286.8	255.1	252.3
35°	3549.2	3146.6	2218.6	1603.6	1086.6	597.1	325.4	217.9	175.1	162.7	162.7
37.5°	3906.3	3514.7	2411.6	1493.3	834.2	365.4	195.8	142.0	133.8	132.4	132.4
40°	4093.9	3677.5	2550.9	1341.6	558.4	212.3	137.9	122.7	120.0	117.2	117.2
42.5°	4332.4	3816.7	2670.9	1136.2	324.0	148.9	121.3	111.7	107.6	104.8	104.8
45°	4464.8	3968.4	2595.0	892.1	184.8	133.8	111.7	100.7	96.5	96.5	96.5
47.5°	4594.4	4113.2	2498.5	641.2	157.2	122.7	104.8	93.8	89.6	92.4	92.4
50°	4741.9	4211.1	2345.5	479.8	148.9	114.4	95.1	85.5	82.7	86.9	86.9
52.5°	4879.8	4220.7	2100.0	383.3	137.9	106.2	88.2	78.6	75.8	78.6	78.6
55°	4919.8	4190.4	2029.7	304.7	131.0	97.9	82.7	73.1	66.2	66.2	64.8
57.5°	4910.2	4131.1	1858.7	257.8	122.7	89.6	75.8	64.8	56.5	53.8	53.8
60°	4877.1	4048.4	1678.1	224.8	114.4	82.7	67.6	55.2	46.9	44.1	44.1
62.5°	4835.7	3892.6	1423.0	195.8	106.2	80.0	56.5	45.5	40.0	37.2	37.2
65°	4662.0	3649.9	1138.9	166.8	97.9	70.3	49.6	40.0	34.5	31.7	31.7
67.5°	4373.8	3280.3	823.2	142.0	91.0	59.3	44.1	34.5	29.0	27.6	26.2
70°	3943.6	2770.2	510.2	122.7	78.6	53.8	38.6	30.3	26.2	22.1	22.1
72.5°	3287.2	2169.0	267.5	96.5	62.0	45.5	34.5	27.6	22.1	19.3	17.9
75°	2311.0	1337.5	193.0	74.5	42.7	37.2	29.0	23.4	19.3	16.5	15.2
77.5°	1115.5	460.5	135.1	55.2	30.3	27.6	22.1	19.3	15.2	13.8	13.8
80°	408.1	262.0	96.5	40.0	24.8	22.1	16.5	15.2	12.4	11.0	11.0
82.5°	183.4	124.1	55.2	26.2	17.9	16.5	12.4	9.7	9.7	9.7	9.7
85°	30.3	26.2	17.9	12.4	9.7	8.3	8.3	6.9	6.9	6.9	6.9
87.5°	8.3	8.3	6.9	6.9	5.5	4.1	2.8	2.8	2.8	4.1	4.1
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)