

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: P509414

Luminaire Tested: **VERD-CA2-90-740-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509414
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-CA2-90-740-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12132 lumens
Efficiency: N/A
Efficacy: 128.8 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

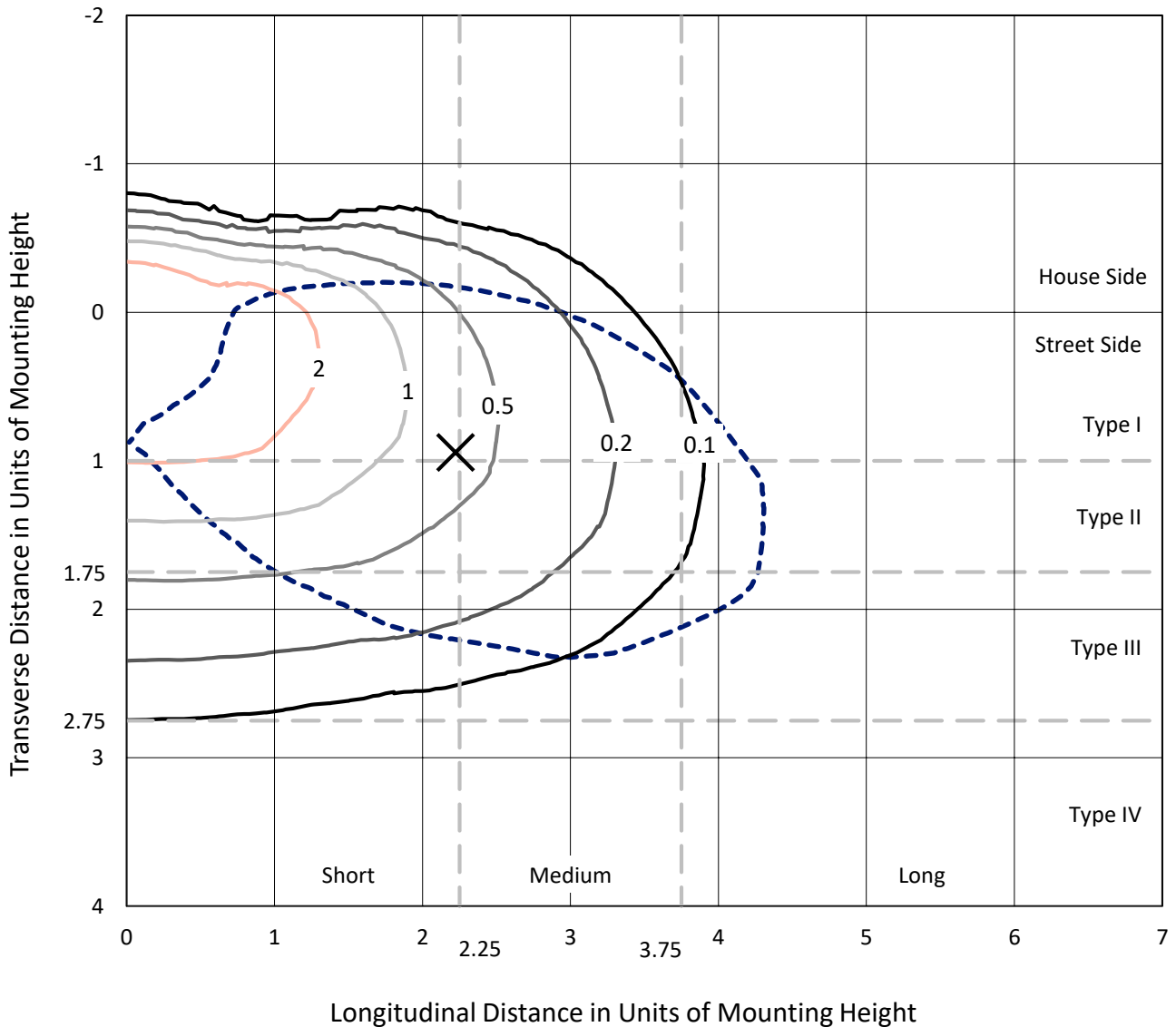
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

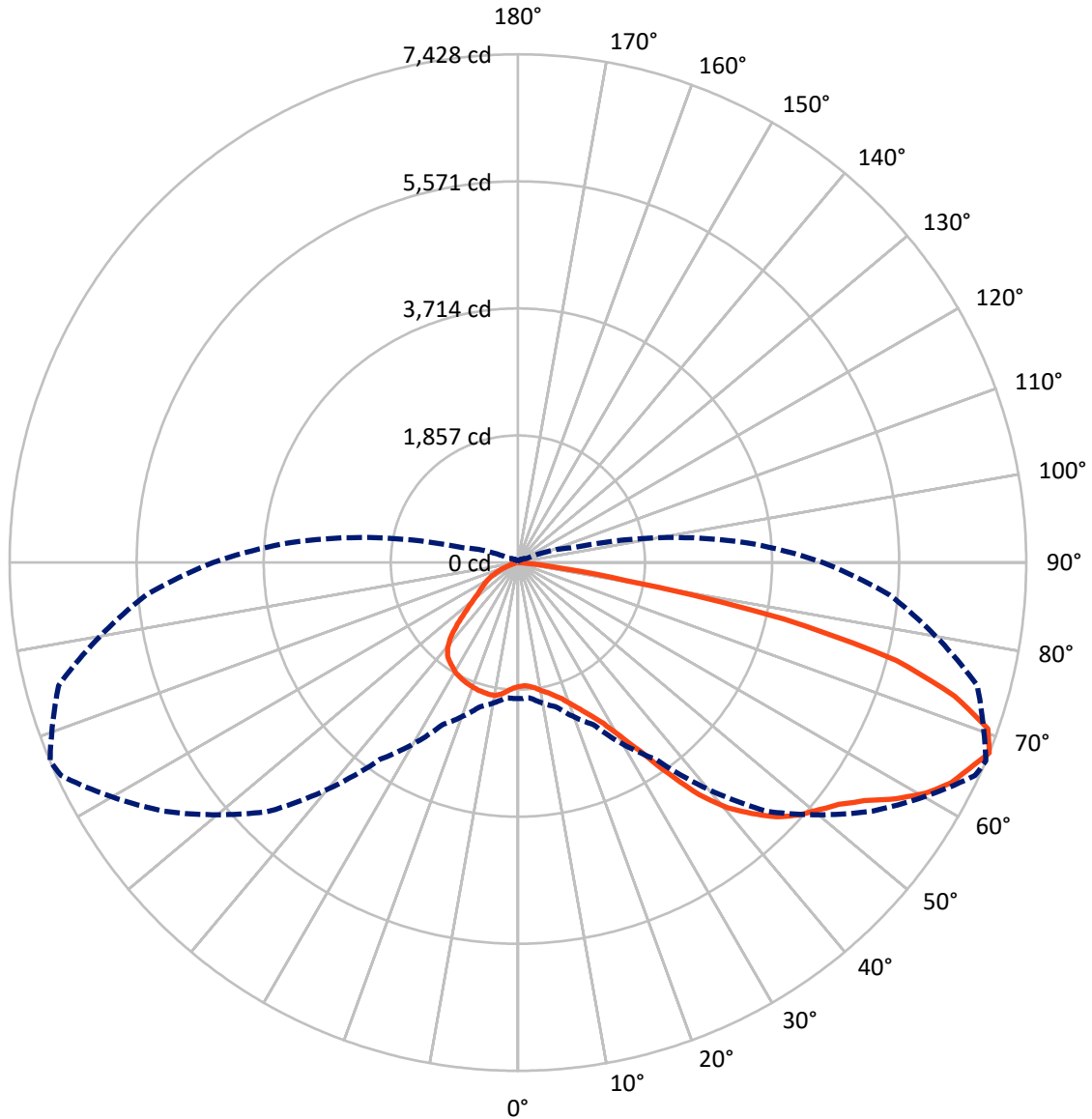
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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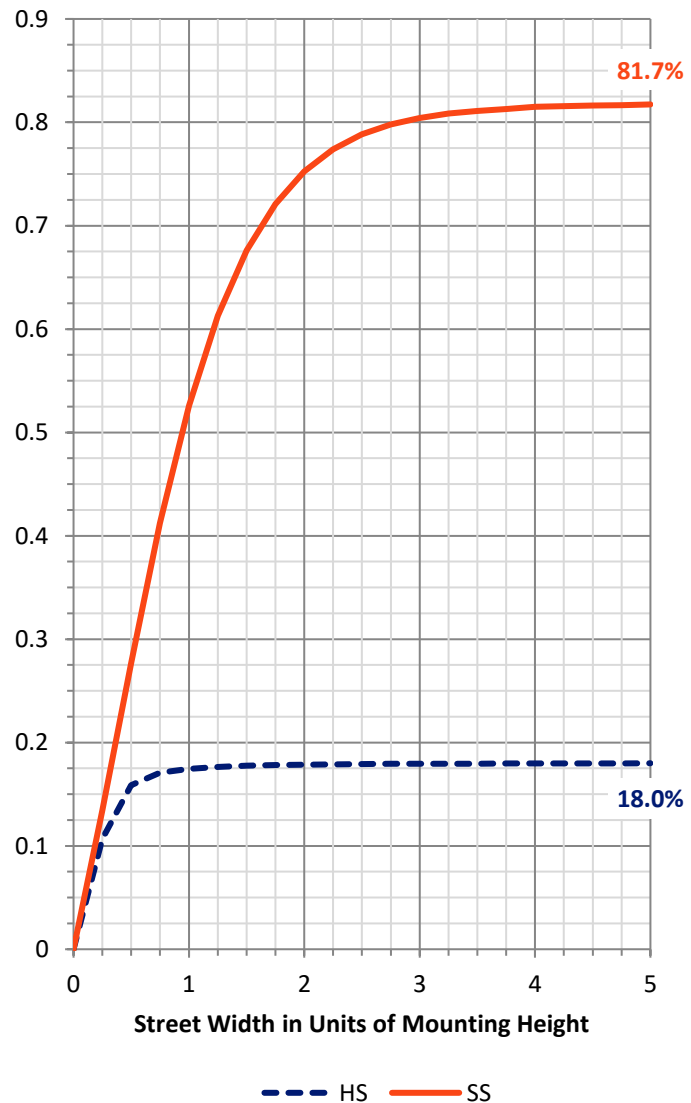
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2210.5	0.0	2210.5
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	9921.5	0.0	9921.5
	% Fixture	81.8	0.0	81.8
Total	Lumens	12132.0	0.0	12132.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	1.5
10°-20°	568.4	4.7
20°-30°	969.9	8.0
30°-40°	1509.6	12.4
40°-50°	2131.1	17.6
50°-60°	2566.7	21.2
60°-70°	2652.5	21.9
70°-80°	1461.2	12.0
80°-90°	91.1	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°	12132.0	100.0
0°-180°	12132.0	100.0



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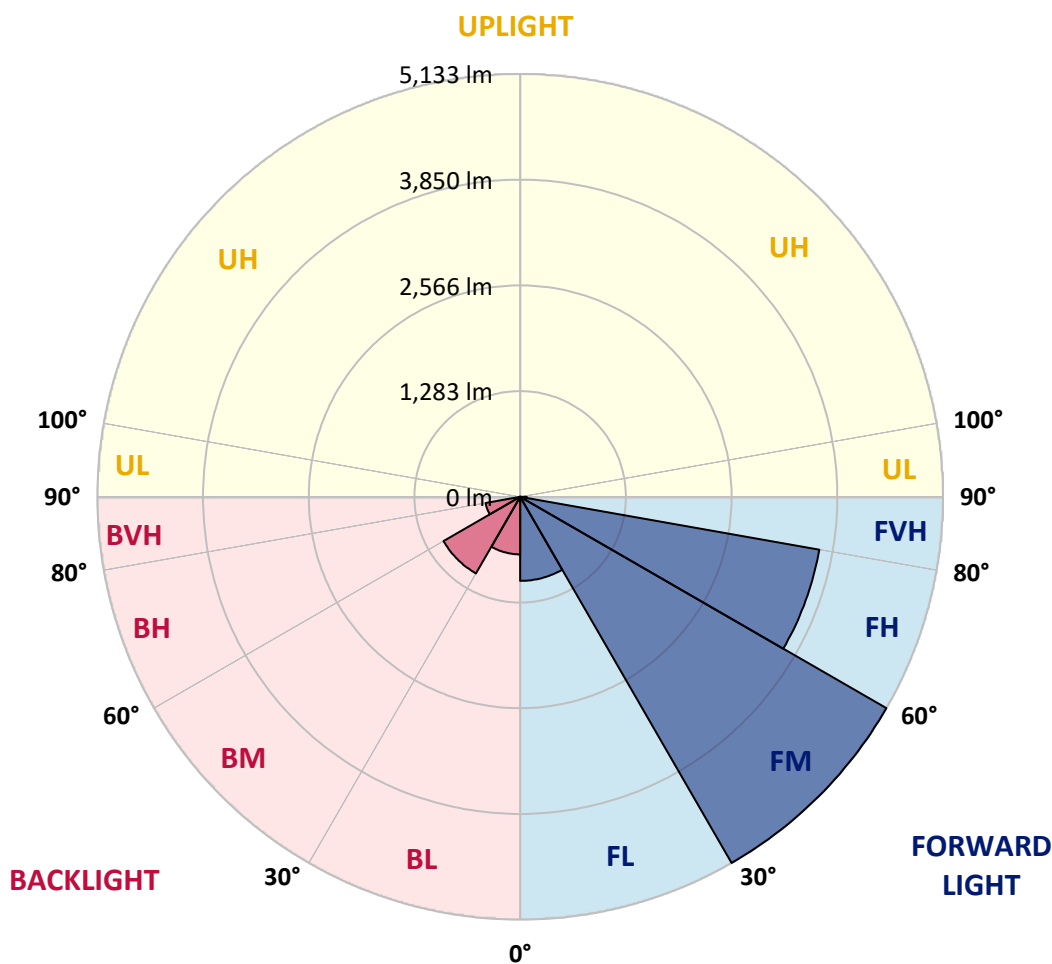
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1020.8	8.4			
FM	(30°-60°)	5132.9	42.3			
FH	(60°-80°)	3687.7	30.4			G2/5000
FVH	(80°-90°)	80.1	0.7			G1/100
BL	(0°-30°)	698.9	5.8	B2/1000		
BM	(30°-60°)	1074.6	8.9	B2/2500		
BH	(60°-80°)	426.1	3.5	B1/500		G1/500
BVH	(80°-90°)	11.0	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°	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4
2.5°	1794.6	1812.8	1812.8	1807.2	1810.0	1797.4	1789.0	1798.8	1801.6	1810.0	1821.3
5°	1829.7	1850.8	1849.4	1839.5	1831.1	1819.9	1808.6	1817.1	1818.5	1821.3	1835.3
7.5°	1904.1	1923.8	1915.4	1905.5	1901.3	1876.0	1852.2	1850.8	1853.6	1862.0	1877.4
10°	2001.0	2016.5	2013.7	1998.2	1987.0	1949.1	1915.4	1902.7	1904.1	1906.9	1933.6
12.5°	2110.5	2131.6	2116.2	2095.1	2075.4	2020.7	1974.3	1956.1	1953.3	1960.3	1982.8
15°	2218.7	2241.1	2229.9	2217.3	2172.3	2111.9	2053.0	2023.5	2020.7	2020.7	2034.7
17.5°	2360.5	2368.9	2361.9	2343.6	2293.1	2217.3	2147.1	2103.5	2096.5	2100.7	2103.5
20°	2517.8	2533.2	2524.8	2505.1	2432.1	2350.7	2262.2	2210.2	2206.0	2210.2	2183.6
22.5°	2708.7	2714.4	2710.1	2677.8	2611.9	2503.7	2387.2	2328.2	2328.2	2332.4	2277.6
25°	2871.6	2905.3	2895.5	2856.2	2779.0	2684.9	2544.4	2471.4	2475.6	2478.5	2402.6
27.5°	3061.2	3089.3	3082.3	3052.8	3002.2	2882.9	2714.4	2666.6	2662.4	2658.2	2540.2
30°	3242.3	3263.4	3277.5	3270.4	3229.7	3117.4	2967.1	2932.0	2943.2	2934.8	2731.2
32.5°	3389.8	3426.3	3465.6	3474.0	3462.8	3363.1	3253.6	3271.8	3285.9	3385.6	3263.4
35°	3516.2	3555.5	3620.1	3687.5	3700.1	3660.8	3606.0	3739.4	3780.2	3983.8	3854.6
37.5°	3648.2	3681.9	3746.5	3853.2	3923.4	3944.5	3997.8	4208.5	4306.7	4482.3	4242.2
40°	3708.5	3742.2	3854.6	3989.4	4135.4	4253.4	4360.1	4604.4	4714.0	4767.3	4455.6
42.5°	3648.2	3680.5	3861.6	4115.8	4313.8	4575.0	4695.7	4940.1	5013.1	5007.5	4718.2
45°	3589.2	3620.1	3809.7	4148.1	4475.3	4871.2	4973.8	5247.6	5300.9	5233.5	4869.8
47.5°	3513.4	3555.5	3752.1	4128.4	4619.9	5139.4	5233.5	5466.6	5514.4	5414.7	5044.0
50°	3420.7	3457.2	3686.1	4097.5	4715.4	5340.3	5440.0	5671.6	5684.3	5591.6	5201.2
52.5°	3314.0	3333.6	3582.2	4035.7	4798.2	5487.7	5601.4	5844.4	5873.9	5848.6	5388.0
55°	3155.3	3190.4	3457.2	3938.8	4803.8	5564.9	5726.4	6088.7	6142.1	6083.1	5501.7
57.5°	2988.2	3026.1	3302.7	3804.0	4721.0	5614.1	5953.9	6406.1	6511.4	6321.8	5594.4
60°	2804.2	2837.9	3110.4	3604.6	4573.5	5684.3	6188.4	6778.2	6844.2	6525.4	5656.2
62.5°	2590.8	2617.5	2877.2	3363.1	4347.5	5666.0	6390.6	7077.3	7098.3	6708.0	5650.6
65°	2331.0	2329.6	2571.1	3026.1	3976.8	5520.0	6427.1	7227.5	7252.8	6825.9	5600.0
67.5°	1988.4	1984.2	2186.4	2614.7	3509.1	5139.4	6330.2	7367.9	7428.3	6949.5	5452.6
70°	1558.7	1564.3	1717.4	2099.3	2847.8	4559.5	6074.7	7273.9	7286.5	6712.2	5070.6
72.5°	1102.3	1099.5	1203.4	1461.8	2104.9	3559.7	5338.8	6632.1	6671.5	6125.2	4417.7
75°	505.5	526.6	786.4	893.1	1270.8	2423.7	4392.4	5635.1	5711.0	5272.9	3444.6
77.5°	94.1	96.9	168.5	339.8	497.1	874.8	2624.5	3816.7	3975.4	3593.4	1940.6
80°	74.4	75.8	99.7	162.9	207.8	393.2	863.6	1572.7	1607.8	1401.4	699.3
82.5°	54.8	56.2	74.4	105.3	96.9	169.9	359.5	457.8	485.9	452.2	278.0
85°	32.3	33.7	43.5	52.0	50.6	67.4	60.4	54.8	49.1	40.7	35.1
87.5°	8.4	11.2	18.3	18.3	14.0	12.6	11.2	9.8	11.2	9.8	9.8
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°	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4
2.5°	1824.1	1822.7	1826.9	1838.1	1848.0	1849.4	1863.4	1881.7	1873.2	1897.1	1888.7
5°	1843.7	1848.0	1863.4	1881.7	1898.5	1912.5	1933.6	1964.5	1954.7	1977.1	1968.7
7.5°	1888.7	1895.7	1919.6	1937.8	1957.5	1953.3	1971.5	1989.8	1967.3	1991.2	1980.0
10°	1942.0	1950.5	1964.5	1971.5	1965.9	1963.1	1958.9	1956.1	1926.6	1943.4	1936.4
12.5°	1989.8	1991.2	1987.0	1968.7	1956.1	1922.4	1906.9	1899.9	1855.0	1867.6	1859.2
15°	2036.1	2016.5	1995.4	1953.3	1918.2	1866.2	1832.5	1803.0	1760.9	1777.7	1760.9
17.5°	2086.7	2057.2	2002.4	1940.6	1869.0	1793.2	1738.4	1690.7	1627.5	1624.7	1619.1
20°	2151.3	2107.7	2019.3	1918.2	1815.7	1701.9	1614.9	1534.8	1439.3	1426.7	1401.4
22.5°	2232.7	2168.1	2044.5	1888.7	1749.7	1606.4	1459.0	1327.0	1206.2	1168.3	1154.3
25°	2326.8	2246.8	2058.6	1862.0	1686.5	1467.4	1266.6	1095.3	953.5	912.7	901.5
27.5°	2444.7	2346.5	2079.7	1822.7	1585.4	1297.5	1036.3	846.7	720.4	654.4	644.5
30°	2607.6	2457.4	2109.1	1783.4	1463.2	1098.1	803.2	582.8	463.4	424.1	417.1
32.5°	3051.4	2721.4	2141.4	1713.1	1301.7	876.2	533.6	372.1	292.1	259.8	257.0
35°	3614.5	3204.4	2259.4	1633.1	1106.5	608.0	331.4	221.9	178.3	165.7	165.7
37.5°	3978.2	3579.4	2456.0	1520.8	849.6	372.1	199.4	144.6	136.2	134.8	134.8
40°	4169.1	3745.1	2597.8	1366.3	568.7	216.3	140.4	125.0	122.2	119.4	119.4
42.5°	4412.1	3886.9	2720.0	1157.1	330.0	151.7	123.6	113.7	109.5	106.7	106.7
45°	4546.9	4041.3	2642.7	908.5	188.2	136.2	113.7	102.5	98.3	98.3	98.3
47.5°	4678.9	4188.8	2544.4	653.0	160.1	125.0	106.7	95.5	91.3	94.1	94.1
50°	4829.1	4288.5	2388.6	488.7	151.7	116.6	96.9	87.1	84.3	88.5	88.5
52.5°	4969.5	4298.3	2138.6	390.4	140.4	108.1	89.9	80.0	77.2	80.0	80.0
55°	5010.3	4267.4	2067.0	310.3	133.4	99.7	84.3	74.4	67.4	67.4	66.0
57.5°	5000.4	4207.0	1892.9	262.6	125.0	91.3	77.2	66.0	57.6	54.8	54.8
60°	4966.7	4122.8	1708.9	228.9	116.6	84.3	68.8	56.2	47.7	44.9	44.9
62.5°	4924.6	3964.1	1449.2	199.4	108.1	81.4	57.6	46.3	40.7	37.9	37.9
65°	4747.7	3717.0	1159.9	169.9	99.7	71.6	50.6	40.7	35.1	32.3	32.3
67.5°	4454.2	3340.6	838.3	144.6	92.7	60.4	44.9	35.1	29.5	28.1	26.7
70°	4016.1	2821.1	519.6	125.0	80.0	54.8	39.3	30.9	26.7	22.5	22.5
72.5°	3347.7	2208.8	272.4	98.3	63.2	46.3	35.1	28.1	22.5	19.7	18.3
75°	2353.5	1362.1	196.6	75.8	43.5	37.9	29.5	23.9	19.7	16.9	15.4
77.5°	1136.0	469.0	137.6	56.2	30.9	28.1	22.5	19.7	15.4	14.0	14.0
80°	415.6	266.8	98.3	40.7	25.3	22.5	16.9	15.4	12.6	11.2	11.2
82.5°	186.8	126.4	56.2	26.7	18.3	16.9	12.6	9.8	9.8	9.8	9.8
85°	30.9	26.7	18.3	12.6	9.8	8.4	8.4	7.0	7.0	7.0	7.0
87.5°	8.4	8.4	7.0	7.0	5.6	4.2	2.8	2.8	2.8	4.2	4.2
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)