

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: P157380

Luminaire Tested: **VST-E08-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157380
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E08-LED-E-U-5MQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25590.9 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 194.5
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: 28.75 FT

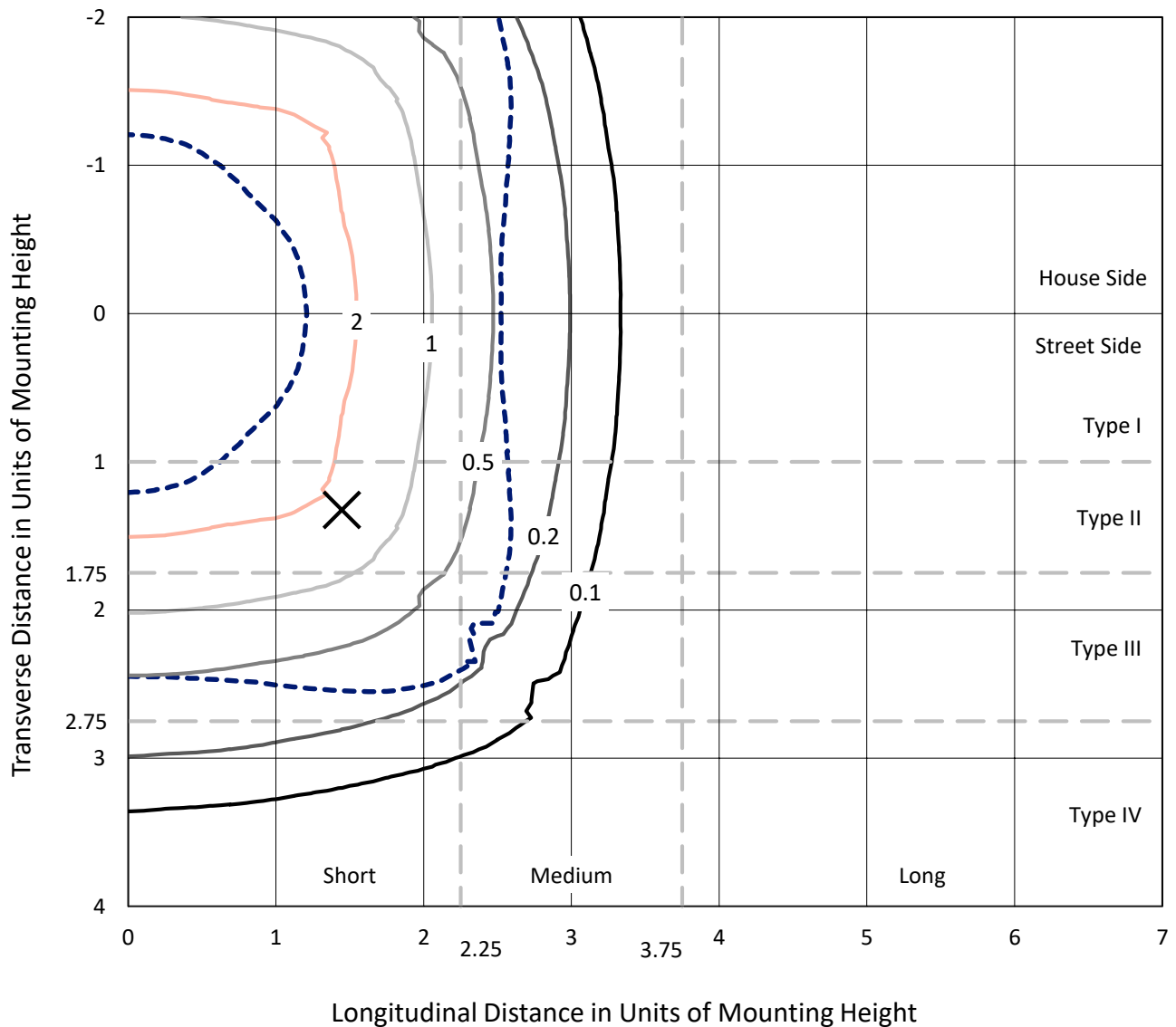


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

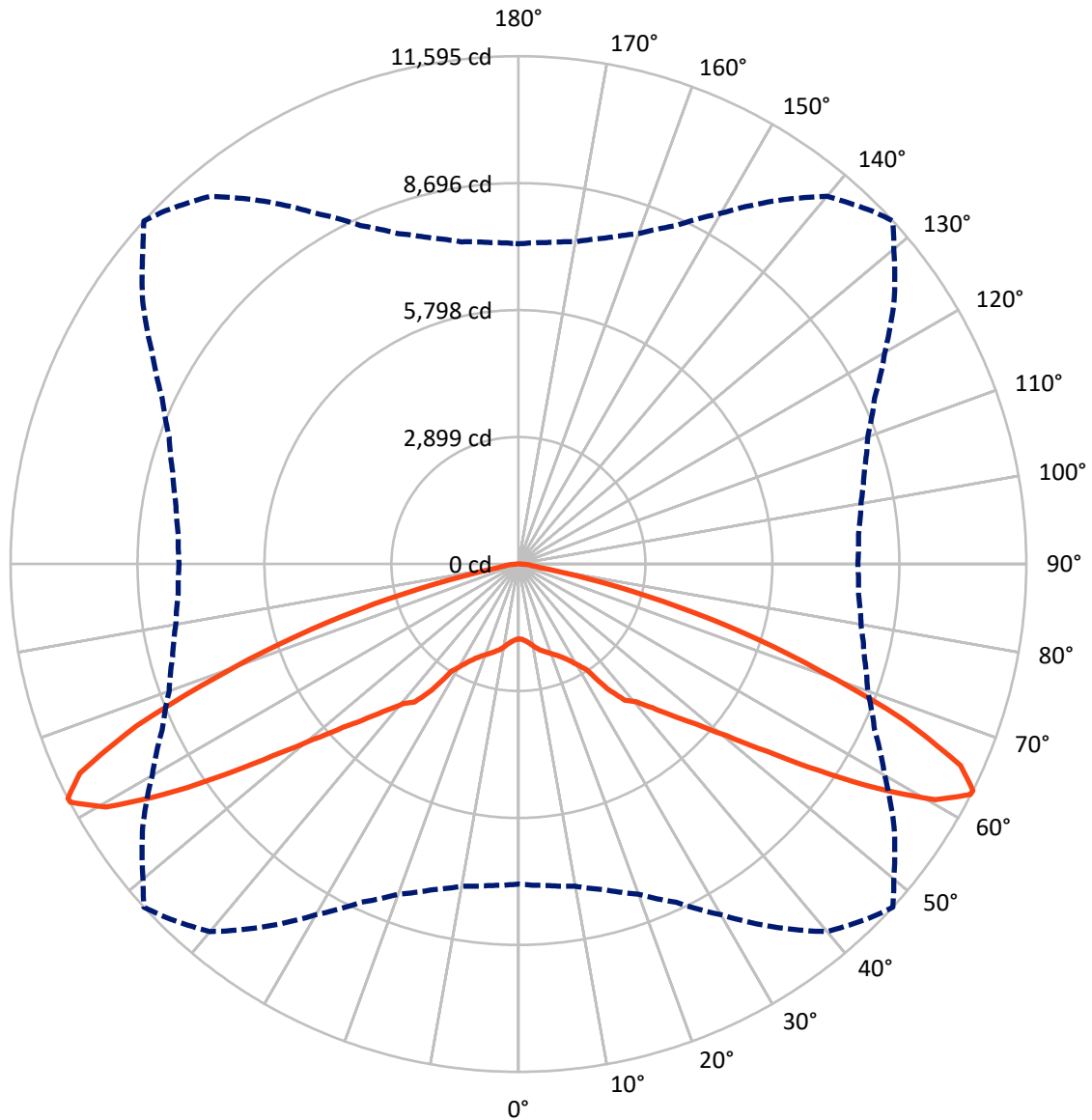


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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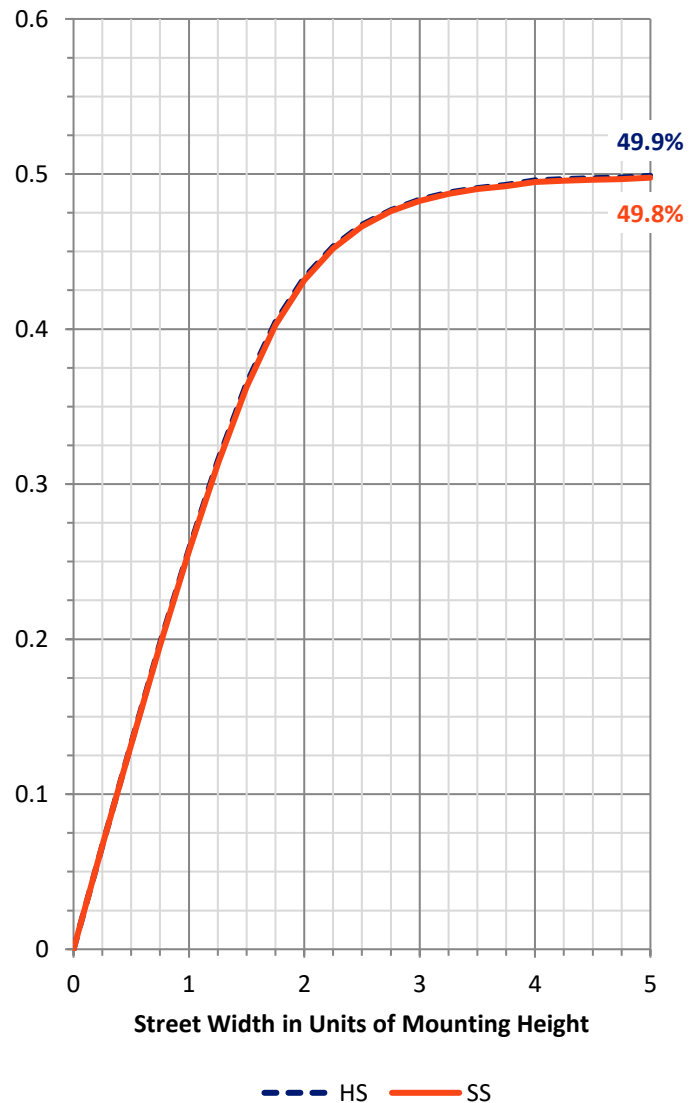
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12795.4	0.0	12795.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12795.4	0.0	12795.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	25590.9	0.0	25590.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	0.7
10°-20°	583.2	2.3
20°-30°	1115.5	4.4
30°-40°	2133.8	8.3
40°-50°	3692.2	14.4
50°-60°	6630.9	25.9
60°-70°	8063.3	31.5
70°-80°	2912.1	11.4
80°-90°	288.4	1.1
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°	25590.9	100.0
0°-180°	25590.9	100.0



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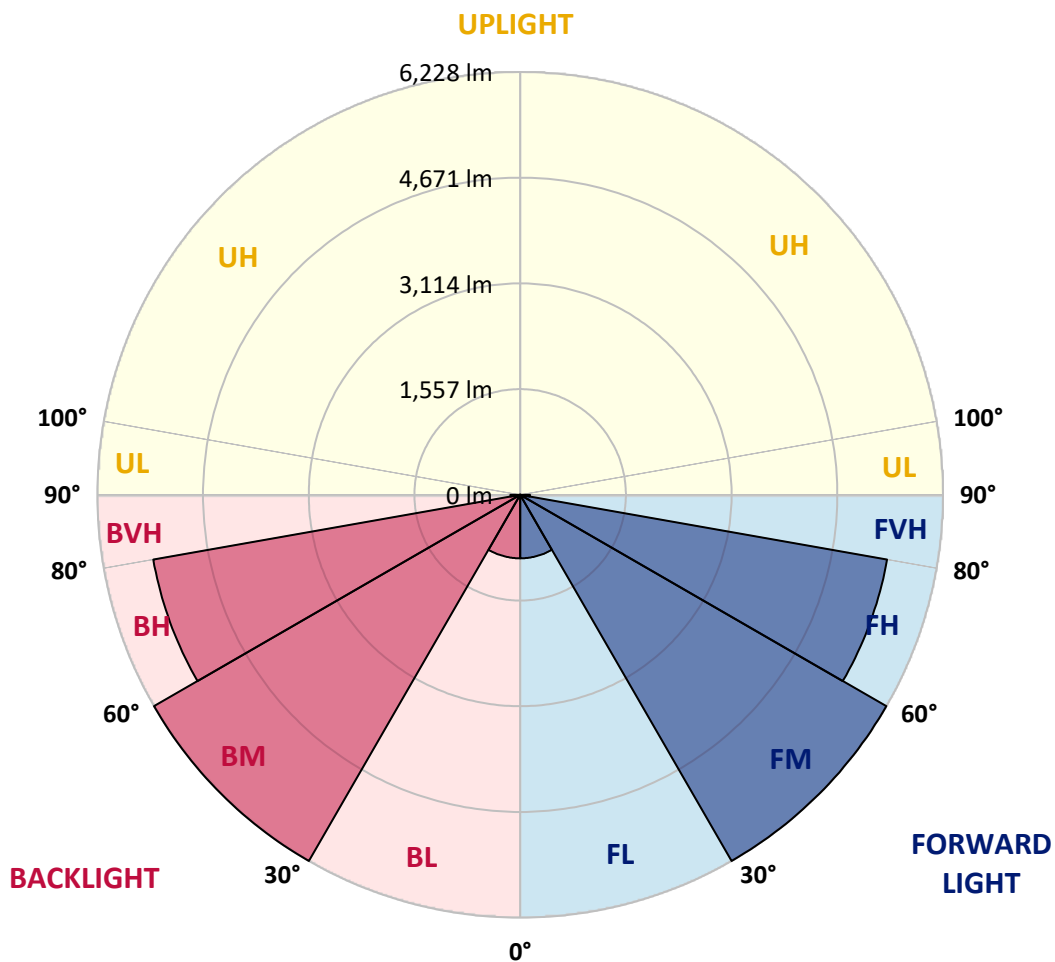
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	935.1	3.7			
FM	(30°-60°)	6228.5	24.3			
FH	(60°-80°)	5487.7	21.4			G3/7500
FVH	(80°-90°)	144.2	0.6			G2/225
BL	(0°-30°)	935.1	3.7	B2/1000		
BM	(30°-60°)	6228.5	24.3	B4/8500		
BH	(60°-80°)	5487.7	21.4	B5		G3/7500
BVH	(80°-90°)	144.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8
2.5°	1720.0	1716.8	1718.4	1720.0	1718.4	1716.8	1716.8	1716.8	1720.0	1716.8	1724.8
5°	1753.6	1750.4	1752.0	1752.0	1752.0	1748.8	1748.8	1748.8	1747.2	1748.8	1766.4
7.5°	1817.6	1812.8	1811.2	1814.4	1811.2	1809.6	1808.0	1808.0	1804.8	1804.8	1827.2
10°	1894.4	1888.0	1891.2	1892.8	1888.0	1884.8	1884.8	1884.8	1880.0	1878.4	1907.2
12.5°	1979.2	1976.0	1976.0	1972.8	1971.2	1968.0	1966.4	1968.0	1961.6	1961.6	1990.4
15°	2060.8	2054.4	2056.0	2051.2	2048.0	2044.8	2043.2	2041.6	2038.4	2038.4	2056.0
17.5°	2136.0	2131.2	2129.6	2124.8	2120.0	2115.2	2112.0	2110.4	2105.6	2105.6	2121.6
20°	2214.4	2209.6	2206.4	2198.4	2190.4	2185.6	2179.2	2176.0	2169.6	2171.2	2188.8
22.5°	2304.0	2296.0	2289.6	2283.2	2268.8	2259.2	2251.2	2244.8	2241.6	2241.6	2265.6
25°	2424.0	2419.2	2409.6	2388.8	2371.2	2356.8	2344.0	2337.6	2331.2	2328.0	2364.8
27.5°	2571.2	2566.4	2553.6	2532.8	2508.8	2484.8	2470.4	2459.2	2451.2	2446.4	2499.2
30°	2766.4	2758.4	2747.2	2713.6	2692.8	2656.0	2640.0	2624.0	2606.4	2611.2	2673.6
32.5°	3148.8	3137.6	3102.4	3065.6	3001.6	2952.0	2900.8	2862.4	2825.6	2820.8	2888.0
35°	3496.0	3491.2	3484.8	3459.2	3435.2	3404.8	3380.8	3340.8	3307.2	3299.2	3488.0
37.5°	3683.2	3694.4	3684.8	3681.6	3681.6	3696.0	3740.8	3785.6	3817.6	3836.8	3942.4
40°	3969.6	3969.6	3958.4	3952.0	3939.2	3958.4	3977.6	4011.2	4025.6	4027.2	4134.4
42.5°	4294.4	4296.0	4284.8	4265.6	4259.2	4276.8	4302.4	4334.4	4353.6	4358.4	4483.2
45°	4656.0	4651.2	4641.6	4635.2	4640.0	4656.0	4686.4	4748.8	4777.6	4800.0	4936.0
47.5°	5048.0	5080.0	5052.8	5057.6	5057.6	5107.2	5176.0	5227.2	5273.6	5316.8	5460.8
50°	5561.6	5566.4	5571.2	5585.6	5595.2	5660.8	5747.2	5808.0	5875.2	5931.2	6166.4
52.5°	6248.0	6238.4	6262.4	6278.4	6332.8	6368.0	6512.0	6588.8	6681.6	6753.6	7097.6
55°	7068.8	7064.0	7099.2	7112.0	7184.0	7270.4	7430.4	7598.4	7756.8	7844.8	8315.2
57.5°	7657.6	7670.4	7731.2	7816.0	7956.8	8140.8	8379.2	8750.4	9051.2	9147.2	9665.6
60°	7787.2	7828.8	7920.0	8089.6	8331.2	8673.6	9142.4	9710.4	10260.8	10444.8	10931.2
62.5°	7424.0	7472.0	7606.4	7809.6	8124.8	8632.0	9308.8	10110.4	10928.0	11337.6	11582.4
63°	7308.8	7368.0	7468.8	7704.0	8024.0	8524.8	9244.8	10108.8	10956.8	11403.2	11595.2
65°	6768.0	6779.2	6929.6	7164.8	7524.8	8044.8	8771.2	9769.6	10710.4	11225.6	11092.8
67.5°	5824.0	5870.4	5996.8	6233.6	6584.0	7124.8	7913.6	8836.8	9664.0	10075.2	9481.6
70°	4705.6	4702.4	4859.2	5049.6	5358.4	5833.6	6524.8	7358.4	8014.4	8313.6	7320.0
72.5°	3361.6	3278.4	3393.6	3604.8	3857.6	4236.8	4784.0	5432.0	6019.2	6278.4	5352.0
75°	1531.2	1508.8	1611.2	1820.8	2076.8	2414.4	2864.0	3424.0	3987.2	4291.2	3409.6
77.5°	515.2	521.6	561.6	636.8	774.4	944.0	1224.0	1582.4	2038.4	2339.2	1600.0
80°	345.6	355.2	368.0	379.2	395.2	420.8	481.6	574.4	715.2	865.6	505.6
82.5°	283.2	294.4	323.2	336.0	345.6	353.6	358.4	364.8	364.8	368.0	320.0
85°	203.2	222.4	260.8	284.8	294.4	300.8	308.8	318.4	304.0	291.2	248.0
87.5°	70.4	96.0	140.8	155.2	166.4	168.0	179.2	198.4	188.8	153.6	75.2
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8
2.5°	1716.8	1715.2	1716.8	1718.4	1718.4	1718.4	1720.0	1721.6	1721.6
5°	1748.8	1750.4	1748.8	1750.4	1750.4	1752.0	1752.0	1755.2	1755.2
7.5°	1803.2	1806.4	1804.8	1808.0	1808.0	1811.2	1809.6	1814.4	1814.4
10°	1876.8	1880.0	1883.2	1884.8	1883.2	1886.4	1889.6	1891.2	1889.6
12.5°	1960.0	1961.6	1960.0	1963.2	1963.2	1966.4	1966.4	1971.2	1971.2
15°	2036.8	2035.2	2033.6	2038.4	2041.6	2043.2	2046.4	2051.2	2046.4
17.5°	2105.6	2107.2	2104.0	2108.8	2115.2	2120.0	2123.2	2129.6	2128.0
20°	2174.4	2171.2	2174.4	2182.4	2188.8	2195.2	2201.6	2211.2	2209.6
22.5°	2241.6	2244.8	2252.8	2259.2	2270.4	2280.0	2288.0	2300.8	2305.6
25°	2336.0	2336.0	2348.8	2356.8	2372.8	2385.6	2403.2	2417.6	2425.6
27.5°	2456.0	2456.0	2470.4	2488.0	2512.0	2534.4	2553.6	2572.8	2569.6
30°	2619.2	2627.2	2640.0	2662.4	2694.4	2721.6	2747.2	2766.4	2768.0
32.5°	2833.6	2843.2	2881.6	2939.2	3006.4	3057.6	3096.0	3142.4	3148.8
35°	3320.0	3344.0	3393.6	3440.0	3467.2	3497.6	3516.8	3518.4	3521.6
37.5°	3832.0	3790.4	3752.0	3716.8	3700.8	3697.6	3697.6	3704.0	3707.2
40°	4019.2	3998.4	3980.8	3958.4	3964.8	3963.2	3974.4	3984.0	3990.4
42.5°	4339.2	4323.2	4307.2	4278.4	4294.4	4289.6	4305.6	4320.0	4328.0
45°	4785.6	4736.0	4700.8	4654.4	4670.4	4660.8	4660.8	4678.4	4681.6
47.5°	5278.4	5220.8	5148.8	5091.2	5072.0	5054.4	5070.4	5070.4	5052.8
50°	5868.8	5800.0	5715.2	5622.4	5590.4	5572.8	5579.2	5587.2	5537.6
52.5°	6670.4	6593.6	6473.6	6332.8	6302.4	6288.0	6284.8	6273.6	6260.8
55°	7756.8	7612.8	7465.6	7280.0	7224.0	7208.0	7209.6	7196.8	7227.2
57.5°	9038.4	8827.2	8488.0	8262.4	8128.0	8076.8	8030.4	8011.2	8012.8
60°	10307.2	9876.8	9369.6	8976.0	8694.4	8515.2	8374.4	8296.0	8273.6
62.5°	11124.8	10448.0	9686.4	9048.0	8585.6	8289.6	8067.2	7926.4	7881.6
63°	11188.8	10472.0	9657.6	8972.8	8486.4	8176.0	7942.4	7796.8	7748.8
65°	11049.6	10230.4	9281.6	8465.6	7932.8	7588.8	7336.0	7198.4	7161.6
67.5°	9968.0	9286.4	8320.0	7476.8	6939.2	6590.4	6300.8	6169.6	6128.0
70°	8108.8	7641.6	6849.6	6129.6	5628.8	5292.8	5000.0	4891.2	4889.6
72.5°	6011.2	5404.8	4932.8	4404.8	3968.0	3700.8	3446.4	3324.8	3264.0
75°	3976.0	3326.4	2798.4	2353.6	1918.4	1678.4	1392.0	1268.8	1196.8
77.5°	2003.2	1484.8	1064.0	737.6	572.8	470.4	430.4	409.6	408.0
80°	667.2	500.8	430.4	403.2	395.2	396.8	392.0	384.0	374.4
82.5°	369.6	388.8	392.0	380.8	380.8	374.4	368.0	337.6	321.6
85°	316.8	348.8	352.0	345.6	344.0	334.4	323.2	281.6	257.6
87.5°	198.4	228.8	224.0	200.0	220.8	206.4	195.2	126.4	92.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)