

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: P510326

Luminaire Tested: **VERD-M-CA4-250-740-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-250-740-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1130mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32281 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

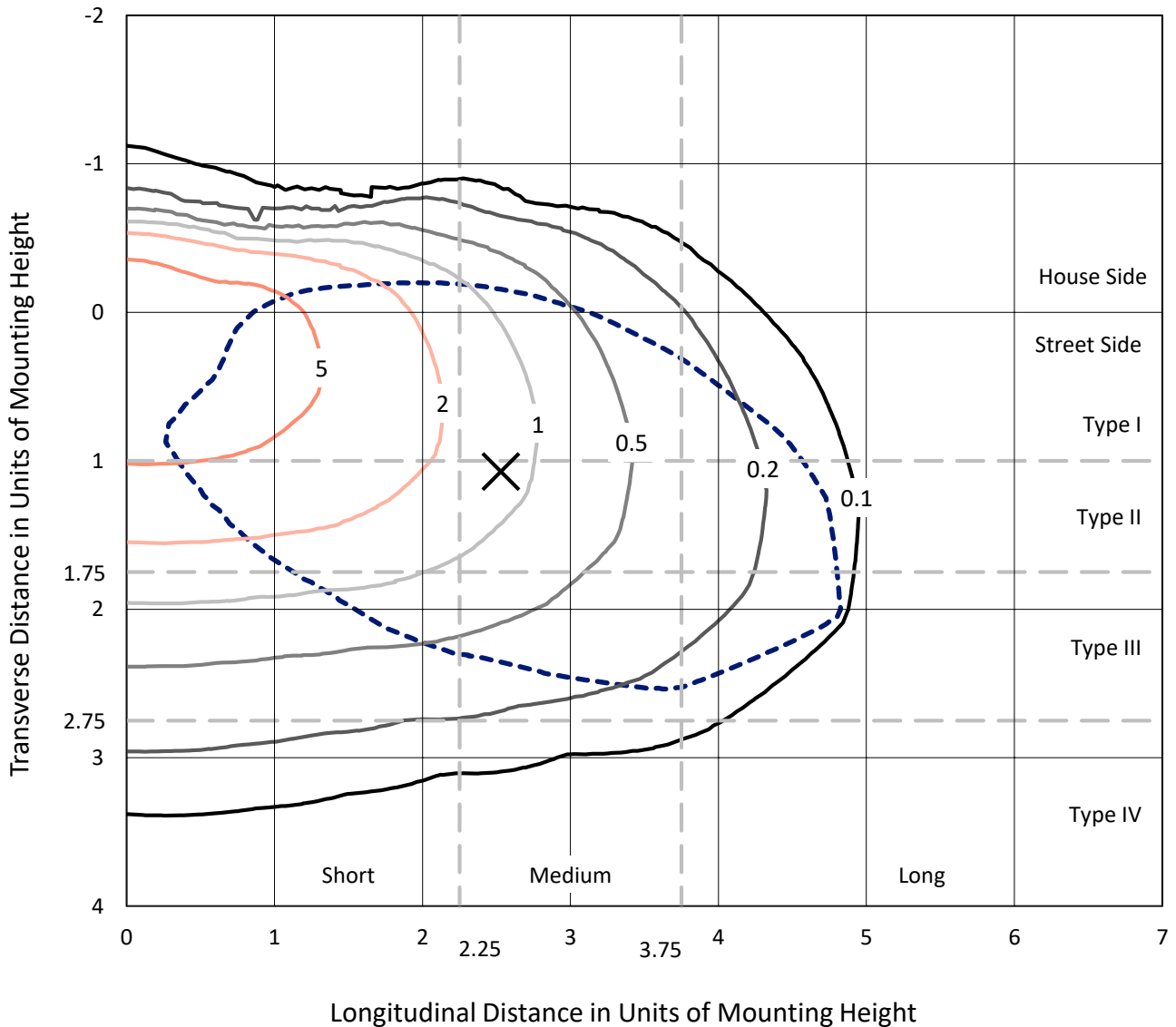
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510326
 CATALOG NUMBER: VERD-M-CA4-250-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

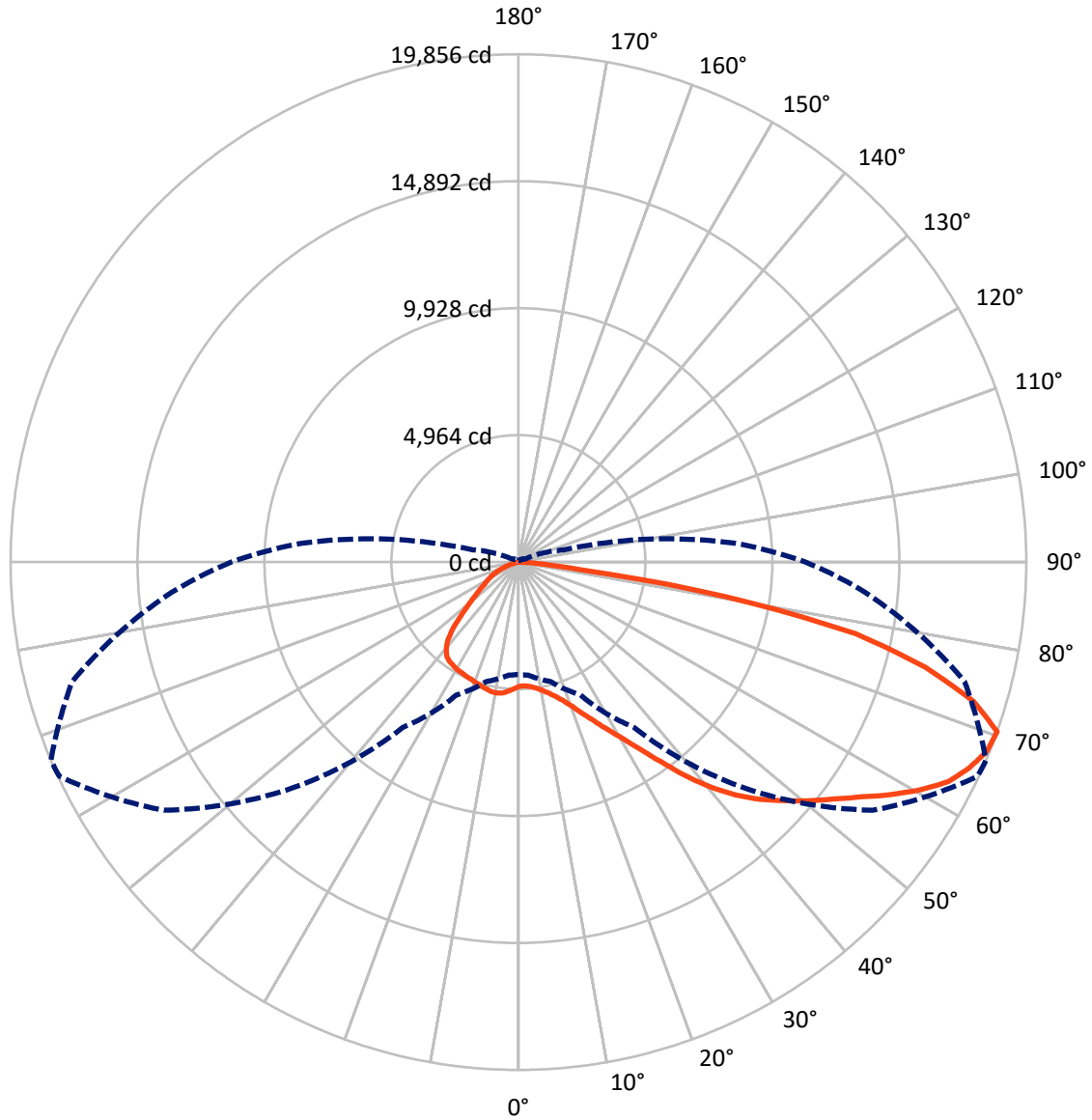
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P510326
CATALOG NUMBER: VERD-M-CA4-250-740-U-T3-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: VERD-M-CA4-250-740-U-T3-HSS

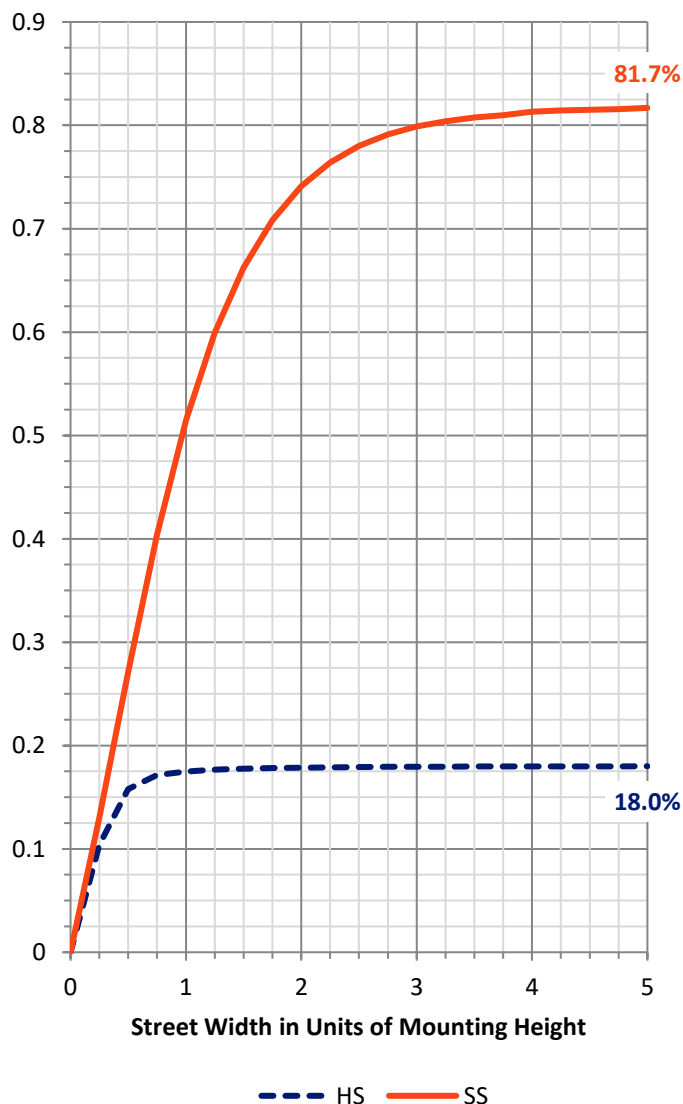
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5881.8	0.0	5881.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	26399.2	0.0	26399.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	32281.0	0.0	32281.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.8	1.5
10°-20°	1509.3	4.7
20°-30°	2618.7	8.1
30°-40°	3889.3	12.0
40°-50°	5336.0	16.5
50°-60°	6552.9	20.3
60°-70°	7025.4	21.8
70°-80°	4459.8	13.8
80°-90°	405.9	1.3
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°	32281.0	100.0
0°-180°	32281.0	100.0



REPORT NUMBER: P510326

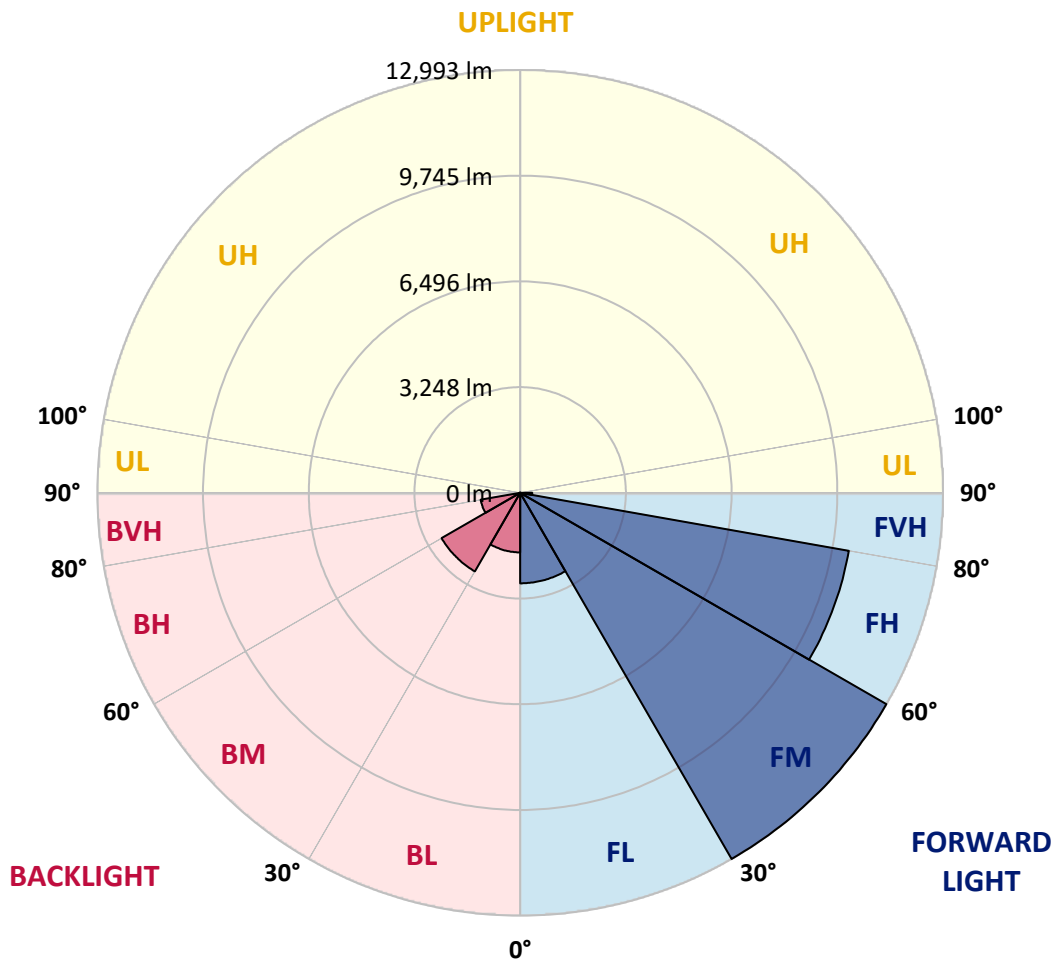
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2781.3	8.6			
FM (30°-60°)	12992.8	40.2			
FH (60°-80°)	10254.9	31.8			G4/12000
FVH (80°-90°)	370.2	1.1			G3/500
BL (0°-30°)	1830.5	5.7	B3/2500		
BM (30°-60°)	2785.4	8.6	B3/5000		
BH (60°-80°)	1230.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	35.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





REPORT NUMBER: P510326

CATALOG NUMBER: VERD-M-CA4-250-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8
2.5°	4812.1	4857.4	4830.8	4827.7	4858.9	4829.2	4849.5	4844.9	4841.7	4846.4	4879.2
5°	4938.6	4991.7	4955.7	4944.8	4962.0	4908.9	4904.2	4893.3	4890.1	4891.7	4938.6
7.5°	5115.1	5177.5	5163.5	5135.4	5126.0	5038.5	5022.9	4983.9	4971.4	4974.5	5021.3
10°	5393.1	5455.5	5427.4	5365.0	5325.9	5225.9	5169.7	5119.7	5094.8	5097.9	5147.9
12.5°	5749.2	5808.5	5761.7	5647.6	5625.8	5464.9	5377.4	5271.2	5254.1	5229.1	5282.2
15°	6085.0	6136.5	6114.6	6008.4	5949.1	5758.5	5597.7	5466.5	5450.9	5427.4	5425.9
17.5°	6456.7	6508.2	6467.6	6389.5	6311.4	6085.0	5911.6	5742.9	5702.3	5682.0	5608.6
20°	6853.4	6934.6	6926.8	6862.8	6769.1	6503.5	6258.3	6067.8	6024.1	5986.6	5831.9
22.5°	7262.6	7368.8	7345.4	7311.0	7272.0	6973.7	6687.8	6467.6	6434.8	6355.2	6111.5
25°	7715.5	7788.9	7771.8	7788.9	7762.4	7498.4	7186.1	6917.4	6873.7	6798.7	6425.4
27.5°	8154.4	8230.9	8260.6	8224.7	8241.9	8052.9	7682.7	7442.2	7400.0	7262.6	6803.4
30°	8551.1	8646.4	8688.6	8704.2	8762.0	8566.7	8293.4	8001.4	7987.3	7846.7	7301.6
32.5°	8868.2	8974.4	9077.5	9144.6	9236.8	9150.9	8879.1	8702.6	8704.2	8577.7	8049.8
35°	9097.8	9219.6	9369.5	9547.6	9741.3	9705.3	9544.5	9547.6	9572.6	9614.7	9004.1
37.5°	9352.4	9450.7	9627.2	9875.6	10170.8	10245.7	10223.9	10472.2	10594.0	10669.0	9842.8
40°	9503.9	9603.8	9824.0	10158.3	10587.8	10767.4	10968.9	11404.6	11563.9	11485.8	10559.7
42.5°	9336.7	9425.8	9808.4	10386.3	10929.8	11337.5	11698.2	12335.5	12451.1	12196.5	11164.1
45°	9119.6	9235.2	9638.2	10448.8	11232.8	11896.6	12457.3	13146.1	13232.0	12871.2	11698.2
47.5°	8941.6	9043.1	9513.2	10381.6	11512.4	12469.8	13124.2	13911.4	13933.3	13488.1	12251.1
50°	8713.6	8836.9	9327.4	10298.8	11681.1	12977.4	13734.9	14625.2	14673.6	14126.9	12719.7
52.5°	8474.6	8594.9	9102.5	10163.0	11802.9	13399.1	14369.0	15384.2	15388.9	14803.2	13219.5
55°	8121.6	8249.7	8812.0	9966.2	11840.4	13678.7	15006.2	16158.9	16207.3	15488.9	13672.4
57.5°	7748.3	7857.7	8462.1	9660.0	11701.4	13942.6	15660.7	17019.5	17152.2	16262.0	14061.3
60°	7253.2	7362.6	8001.4	9258.6	11406.2	14239.4	16410.3	18056.5	18070.6	16888.3	14344.0
62.5°	6720.6	6815.9	7403.2	8629.2	10948.6	14353.4	17053.8	18885.9	18884.3	17445.9	14484.6
65°	6088.1	6127.1	6725.3	7856.1	10237.9	14186.3	17338.1	19432.5	19379.4	17847.2	14437.7
67.5°	5338.4	5380.6	5833.5	6895.6	9207.1	13533.4	17211.6	19696.5	19749.6	18204.9	14234.7
70°	4388.8	4438.8	4833.9	5730.4	7893.6	12491.7	16914.8	19810.5	19855.8	18061.2	13608.4
72.5°	3239.3	3306.4	3548.5	4265.4	5991.3	10495.6	15540.4	18562.6	18587.6	16861.7	12304.2
75°	2011.7	2135.0	2363.1	2834.8	3887.4	7361.0	13283.5	16594.6	16438.5	15040.6	10181.7
77.5°	804.4	824.7	938.7	1327.6	1896.1	3832.8	9628.8	13191.4	13489.7	12034.0	7282.9
80°	468.6	465.4	492.0	618.5	813.7	1310.4	3745.3	7400.0	8248.1	6609.7	3276.8
82.5°	378.0	363.9	363.9	396.7	390.5	551.3	1227.6	2161.6	2370.9	2103.8	932.4
85°	198.4	193.7	157.7	195.2	195.2	274.9	471.7	612.2	646.6	563.8	349.9
87.5°	50.0	50.0	50.0	60.9	48.4	57.8	79.7	96.8	100.0	81.2	51.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510326

CATALOG NUMBER: VERD-M-CA4-250-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8	4855.8
2.5°	4891.7	4905.8	4960.4	4952.6	4962.0	4962.0	4977.6	4994.8	5046.3	5016.7	5004.2
5°	4947.9	4976.1	5044.8	5069.8	5107.2	5111.9	5143.2	5154.1	5210.3	5179.1	5179.1
7.5°	5055.7	5088.5	5152.5	5161.9	5179.1	5149.4	5157.2	5122.9	5160.3	5122.9	5124.4
10°	5177.5	5199.4	5243.1	5180.7	5154.1	5083.8	5068.2	4983.9	5013.5	4965.1	4952.6
12.5°	5294.7	5286.9	5254.1	5143.2	5069.8	4954.2	4905.8	4791.8	4785.5	4721.5	4709.0
15°	5405.6	5350.9	5244.7	5072.9	4947.9	4787.1	4671.5	4546.5	4502.8	4429.4	4423.2
17.5°	5541.4	5447.7	5258.7	5005.7	4801.1	4566.8	4402.9	4262.3	4171.7	4104.5	4103.0
20°	5707.0	5563.3	5265.0	4929.2	4649.6	4349.7	4120.2	3942.1	3812.5	3728.1	3726.6
22.5°	5914.7	5719.5	5322.8	4841.7	4456.0	4087.4	3801.5	3493.9	3315.8	3144.0	3112.8
25°	6158.4	5877.2	5372.8	4796.4	4265.4	3814.0	3389.2	2939.4	2663.0	2525.5	2474.0
27.5°	6500.4	6139.6	5446.2	4710.5	4085.8	3476.7	2858.2	2367.8	2035.1	1918.0	1918.0
30°	6895.6	6470.7	5583.6	4659.0	3835.9	3003.4	2275.6	1749.3	1440.0	1263.5	1258.9
32.5°	7498.4	6865.9	5708.6	4548.1	3532.9	2488.0	1646.2	1127.7	879.3	770.0	763.7
35°	8365.3	7618.7	5910.0	4437.2	3094.0	1852.4	1044.9	646.6	501.4	438.9	435.8
37.5°	9199.3	8335.6	6344.2	4217.0	2470.8	1163.6	579.4	373.3	306.1	298.3	295.2
40°	9786.5	8954.1	6650.4	3881.2	1755.5	616.9	335.8	270.2	265.5	262.4	260.8
42.5°	10426.9	9413.3	6867.4	3453.2	1041.8	357.7	273.3	243.6	235.8	232.7	232.7
45°	10947.0	9855.3	6908.1	2841.0	524.8	295.2	249.9	221.8	212.4	218.7	220.2
47.5°	11426.5	10272.3	6770.6	2136.6	354.5	274.9	234.3	206.2	199.9	215.5	215.5
50°	11835.7	10625.3	6455.1	1594.6	332.7	259.3	218.7	190.5	189.0	203.0	204.6
52.5°	12243.3	10909.5	5958.5	1204.2	315.5	242.1	203.0	176.5	171.8	181.2	182.7
55°	12566.6	11011.0	5589.9	896.5	303.0	226.5	189.0	162.4	151.5	149.9	153.1
57.5°	12744.7	10922.0	5229.1	659.1	288.9	212.4	174.9	143.7	126.5	126.5	126.5
60°	12747.8	10814.2	4843.3	521.7	273.3	196.8	159.3	123.4	106.2	103.1	103.1
62.5°	12713.5	10622.1	4282.6	452.9	256.1	184.3	139.0	104.6	92.1	87.5	87.5
65°	12562.0	10259.8	3603.2	387.3	235.8	174.9	118.7	93.7	82.8	76.5	76.5
67.5°	12090.3	9580.4	2773.8	337.4	217.1	154.6	107.8	84.3	73.4	67.2	65.6
70°	11225.0	8482.4	1830.5	287.4	198.4	137.4	98.4	76.5	65.6	59.4	57.8
72.5°	9774.1	6903.4	919.9	243.6	170.2	126.5	89.0	67.2	56.2	50.0	50.0
75°	7659.3	4791.8	501.4	193.7	134.3	110.9	78.1	56.2	48.4	43.7	43.7
77.5°	4696.5	2375.6	342.0	149.9	101.5	90.6	62.5	46.9	42.2	40.6	40.6
80°	1713.3	777.8	229.6	106.2	76.5	70.3	50.0	40.6	39.0	39.0	39.0
82.5°	618.5	395.1	154.6	71.8	48.4	53.1	40.6	34.4	32.8	34.4	35.9
85°	254.6	173.4	56.2	40.6	26.6	28.1	25.0	23.4	25.0	26.6	26.6
87.5°	39.0	34.4	20.3	20.3	15.6	14.1	10.9	12.5	15.6	18.7	18.7
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)