

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: P510215

Luminaire Tested: **VERD-M-CA4-230-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-230-727-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27502 lumens
Efficiency: N/A
Efficacy: 117.9 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

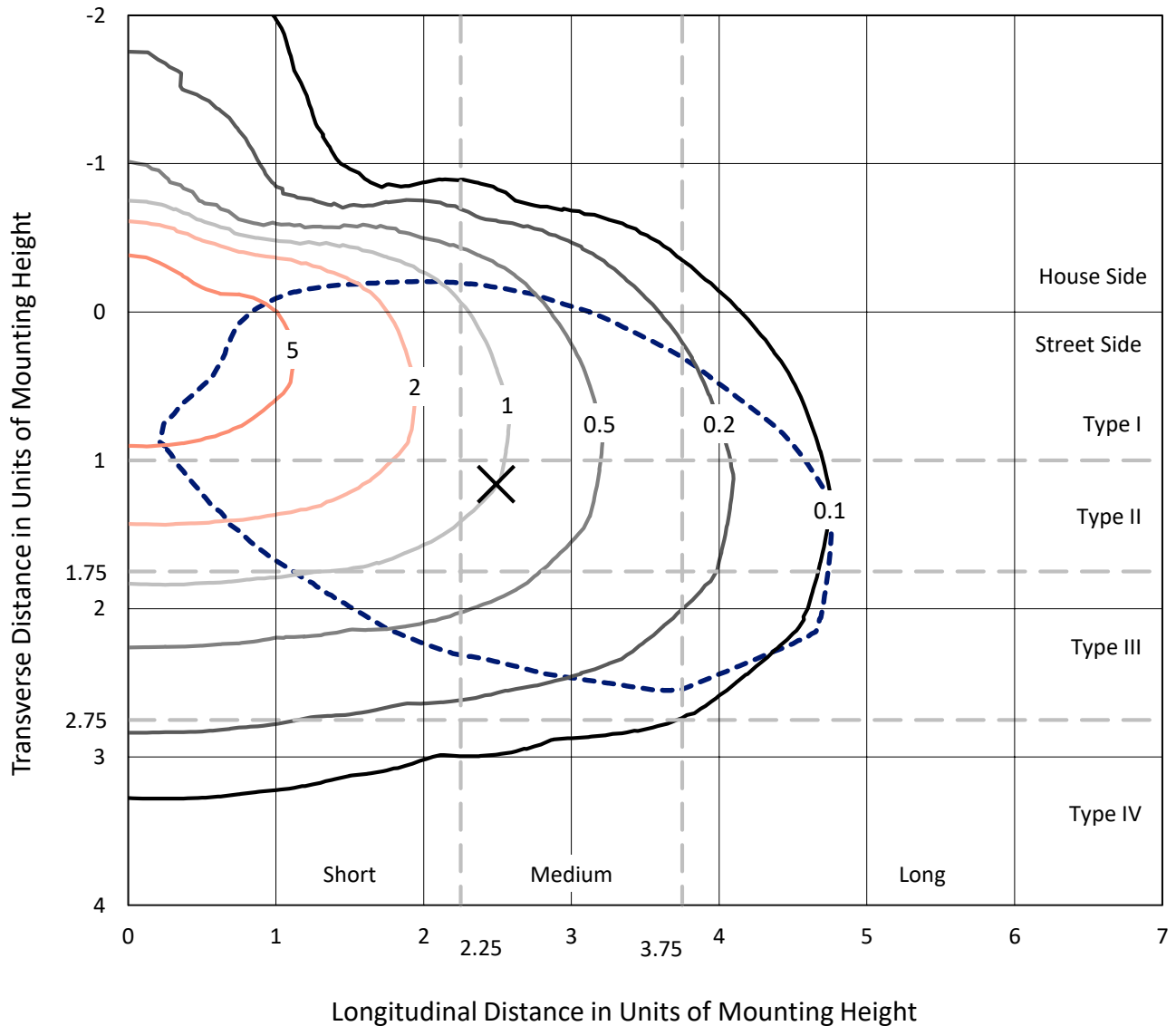
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

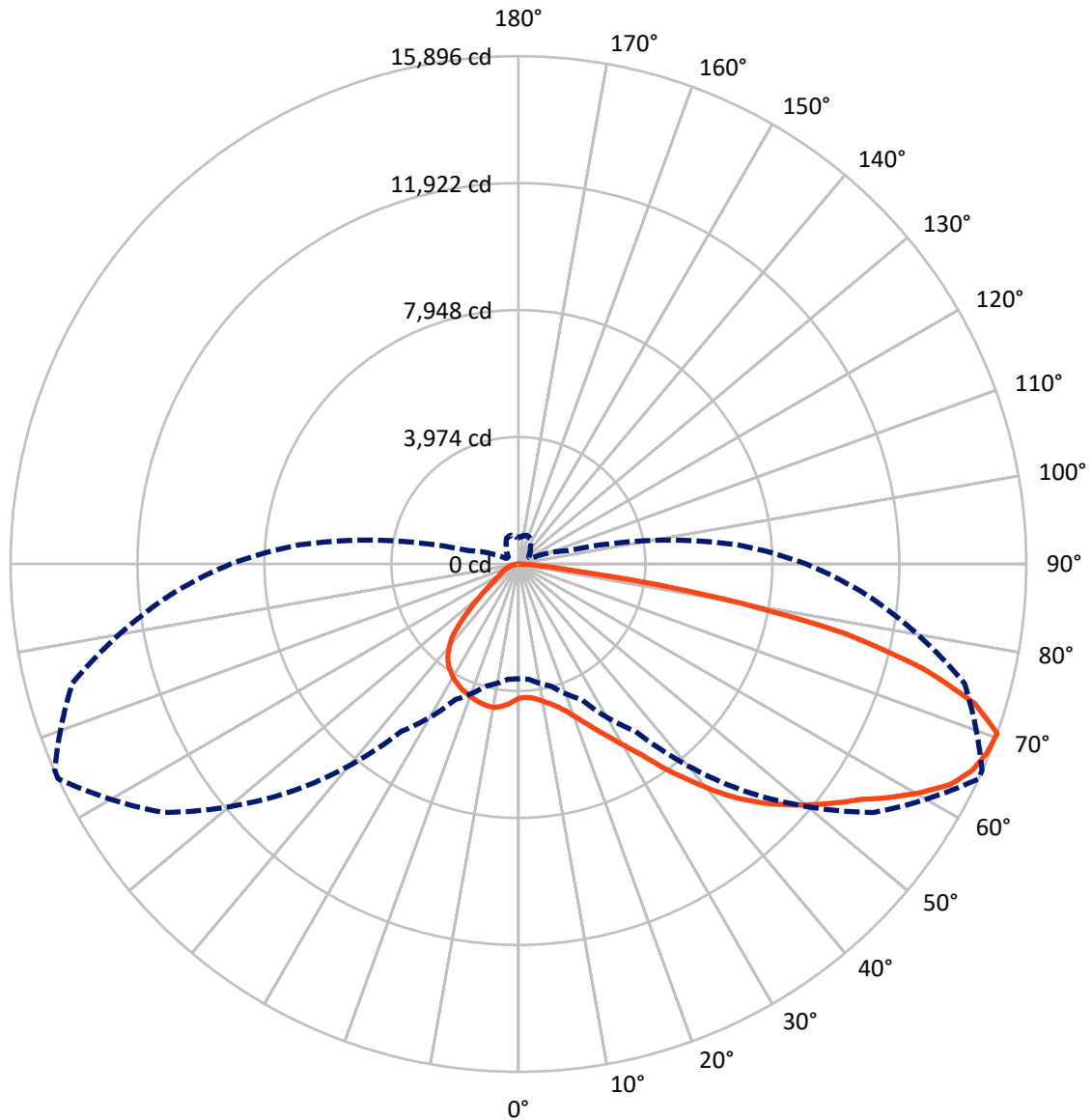
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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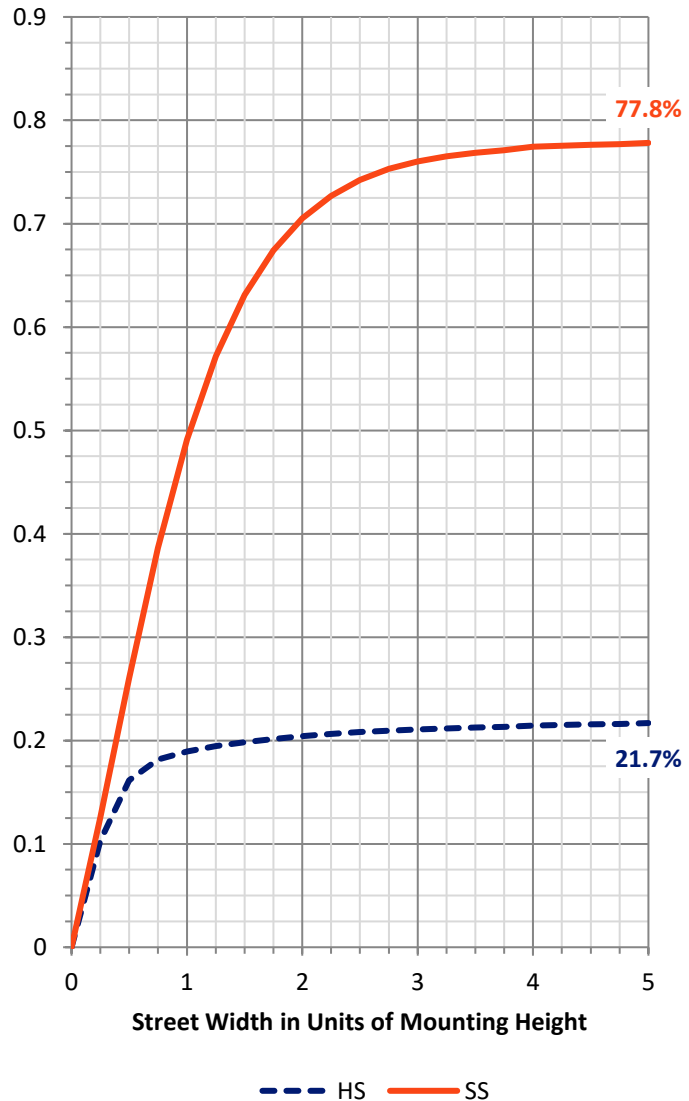
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6066.7	0.0	6066.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21435.3	0.0	21435.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	27502.0	0.0	27502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.2	1.5
10°-20°	1331.2	4.8
20°-30°	2309.5	8.4
30°-40°	3357.9	12.2
40°-50°	4486.2	16.3
50°-60°	5464.6	19.9
60°-70°	5890.9	21.4
70°-80°	3819.3	13.9
80°-90°	421.2	1.5
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°	27502.0	100.0
0°-180°	27502.0	100.0

Coefficient of Utilization



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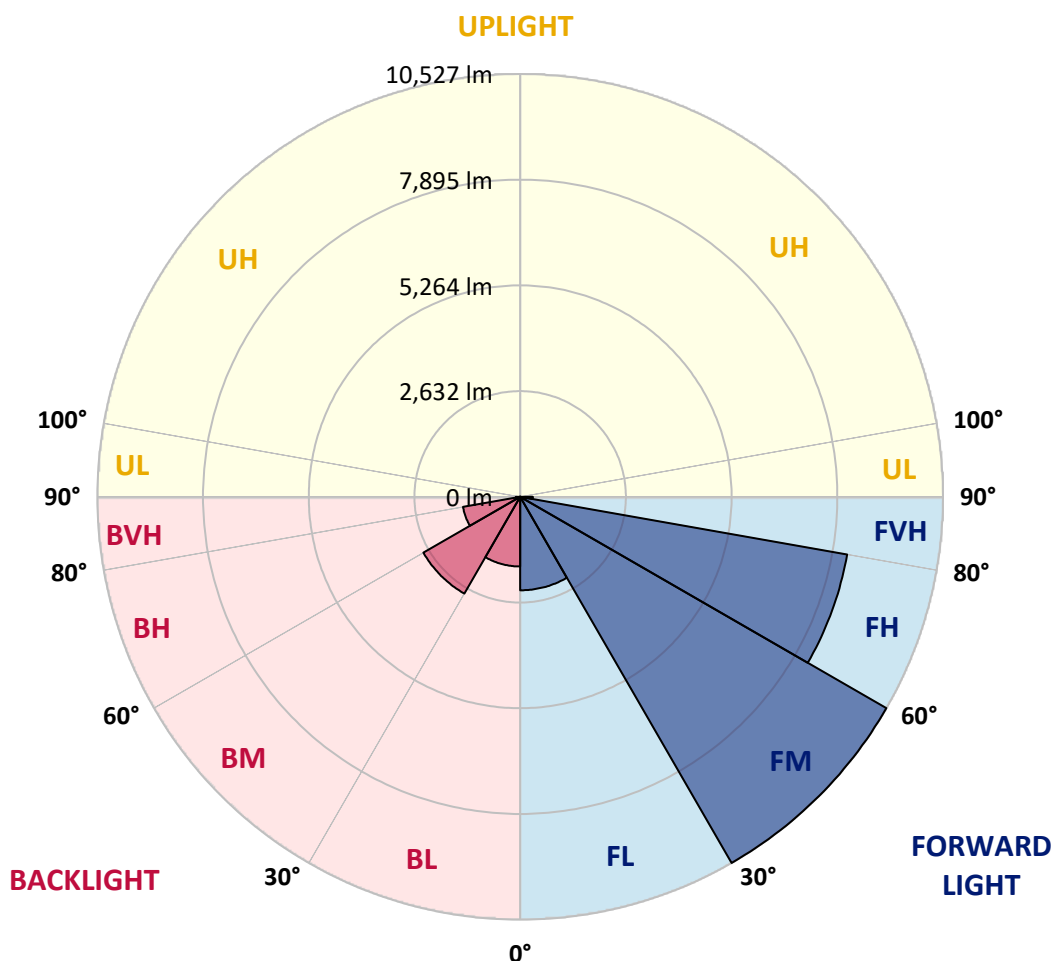
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2327.4	8.5			
FM	(30°-60°)	10527.3	38.3			
FH	(60°-80°)	8266.4	30.1			G4/12000
FVH	(80°-90°)	314.2	1.1			G3/500
BL	(0°-30°)	1734.4	6.3	B3/2500		
BM	(30°-60°)	2781.4	10.1	B3/5000		
BH	(60°-80°)	1443.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	107.1	0.4			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8
2.5°	4136.8	4174.0	4154.1	4155.4	4183.9	4160.3	4176.4	4176.4	4175.2	4183.9	4209.9
5°	4238.5	4278.1	4254.6	4239.7	4245.9	4216.1	4209.9	4205.0	4201.3	4211.2	4254.6
7.5°	4387.3	4433.1	4407.1	4393.5	4386.0	4317.8	4305.4	4271.9	4268.2	4276.9	4316.6
10°	4584.4	4646.4	4615.4	4577.0	4550.9	4471.6	4408.3	4378.6	4369.9	4364.9	4405.9
12.5°	4868.4	4923.0	4887.0	4815.1	4780.3	4652.6	4577.0	4492.7	4491.4	4474.1	4505.1
15°	5137.5	5194.5	5148.6	5078.0	5032.1	4859.7	4748.1	4643.9	4631.5	4611.7	4621.6
17.5°	5397.9	5467.3	5435.1	5370.6	5314.8	5122.6	4976.3	4842.4	4828.7	4797.7	4751.8
20°	5721.5	5784.8	5776.1	5717.8	5655.8	5437.6	5277.6	5105.2	5090.4	5034.6	4931.6
22.5°	6045.2	6123.3	6074.9	6065.0	6030.3	5813.3	5590.1	5415.2	5400.4	5327.2	5138.7
25°	6350.2	6419.7	6437.0	6420.9	6424.6	6210.1	5988.1	5768.7	5753.8	5654.6	5381.8
27.5°	6711.1	6776.8	6781.8	6785.5	6828.9	6650.3	6389.9	6164.2	6154.3	6042.7	5696.7
30°	6987.6	7096.7	7119.1	7140.1	7162.5	7067.0	6830.1	6619.3	6599.5	6478.0	6051.4
32.5°	7240.6	7322.4	7401.8	7445.2	7545.6	7460.1	7265.4	7135.2	7136.4	7079.4	6616.8
35°	7436.5	7527.0	7627.5	7786.2	7932.5	7896.6	7835.8	7843.2	7844.5	7869.3	7379.5
37.5°	7623.8	7705.6	7832.1	8021.8	8279.7	8326.9	8367.8	8522.8	8577.3	8693.9	8083.8
40°	7736.6	7823.4	7987.1	8250.0	8584.8	8754.7	8878.7	9276.7	9371.0	9372.2	8628.2
42.5°	7571.7	7667.2	7959.8	8427.3	8860.1	9177.5	9503.7	10005.9	10074.1	9921.5	9093.2
45°	7424.1	7512.2	7827.1	8454.6	9075.8	9628.9	10082.8	10664.3	10713.9	10406.4	9522.3
47.5°	7281.5	7350.9	7715.5	8397.5	9296.6	10081.5	10576.3	11259.5	11295.5	10937.1	9941.4
50°	7084.3	7167.4	7554.3	8330.6	9429.3	10469.6	11059.9	11847.3	11842.4	11414.6	10320.8
52.5°	6868.6	6950.4	7365.8	8207.8	9516.1	10771.0	11610.5	12422.7	12426.4	11962.7	10696.6
55°	6597.0	6697.4	7135.2	8041.6	9537.1	11007.8	12087.9	13013.0	13073.7	12521.9	11058.7
57.5°	6272.1	6372.6	6851.2	7798.6	9411.9	11206.2	12597.6	13766.9	13799.1	13093.6	11329.0
60°	5893.9	6015.4	6473.0	7473.7	9172.6	11436.9	13215.1	14506.0	14517.1	13604.5	11554.7
62.5°	5456.2	5543.0	6024.1	7002.5	8790.6	11528.6	13726.0	15184.3	15186.8	13990.1	11656.4
65°	4982.5	5016.0	5419.0	6361.4	8233.9	11378.6	13921.9	15597.2	15586.0	14328.6	11605.5
67.5°	4418.3	4402.1	4832.4	5569.0	7529.5	10878.9	13826.4	15809.2	15842.7	14589.1	11441.8
70°	3592.4	3616.0	3958.2	4682.4	6392.4	10076.6	13563.5	15896.1	15887.4	14458.8	10914.8
72.5°	2726.8	2769.0	3017.0	3560.2	4961.4	8474.4	12437.6	14936.3	14953.6	13541.2	9966.2
75°	1686.5	1808.0	2017.5	2348.6	3108.8	6071.2	10586.2	13083.6	13171.7	11947.8	8206.6
77.5°	739.1	767.6	873.0	1132.2	1625.7	3048.0	7825.9	10448.6	10709.0	9662.4	5919.9
80°	457.6	457.6	487.3	567.9	725.4	1133.4	3136.1	6238.6	5974.5	5526.9	2611.5
82.5°	380.7	380.7	395.6	409.2	372.0	479.9	1049.1	1748.5	1873.7	1516.6	802.3
85°	207.1	212.0	213.3	217.0	213.3	259.2	412.9	517.1	523.3	473.7	285.2
87.5°	75.6	80.6	78.1	73.2	65.7	62.0	79.4	80.6	83.1	76.9	42.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8
2.5°	4227.3	4244.7	4290.5	4294.3	4311.6	4317.8	4332.7	4353.8	4391.0	4372.4	4351.3
5°	4275.7	4298.0	4371.1	4408.3	4456.7	4485.2	4532.3	4555.9	4612.9	4594.3	4591.9
7.5°	4348.8	4395.9	4461.7	4497.6	4560.9	4579.5	4614.2	4614.2	4661.3	4637.7	4631.5
10°	4448.0	4479.0	4548.5	4550.9	4586.9	4586.9	4627.8	4601.8	4647.7	4620.4	4619.1
12.5°	4527.4	4544.7	4570.8	4549.7	4568.3	4547.2	4568.3	4537.3	4565.8	4531.1	4523.7
15°	4616.7	4593.1	4567.1	4517.5	4501.3	4467.9	4450.5	4418.3	4420.7	4381.1	4374.9
17.5°	4717.1	4656.3	4580.7	4472.8	4413.3	4327.7	4291.8	4245.9	4219.9	4183.9	4200.0
20°	4838.6	4748.1	4590.6	4423.2	4296.7	4166.5	4082.2	4007.8	4001.6	3969.4	3952.0
22.5°	4996.1	4851.0	4634.0	4352.5	4149.2	3963.2	3837.9	3713.9	3701.5	3635.8	3611.0
25°	5190.8	4987.4	4656.3	4298.0	3976.8	3721.4	3524.2	3351.8	3268.7	3199.3	3183.2
27.5°	5452.4	5188.3	4701.0	4200.0	3773.4	3421.3	3138.5	2910.4	2811.2	2776.4	2740.5
30°	5758.7	5433.8	4784.1	4118.2	3532.9	3038.1	2693.4	2421.8	2313.9	2259.4	2242.0
32.5°	6210.1	5743.9	4861.0	3983.0	3241.5	2616.5	2167.6	1867.5	1801.8	1791.9	1815.4
35°	6867.3	6326.7	4972.6	3857.8	2899.2	2147.7	1651.7	1455.8	1442.2	1444.6	1444.6
37.5°	7551.8	6882.2	5303.6	3673.0	2480.1	1617.0	1257.4	1150.8	1155.7	1155.7	1154.5
40°	7998.2	7328.6	5544.2	3411.3	1959.3	1159.4	932.5	851.9	886.6	933.7	958.5
42.5°	8490.5	7734.1	5710.4	3110.0	1362.8	819.7	678.3	706.8	808.5	880.4	890.3
45°	8909.7	8078.9	5729.0	2641.3	877.9	622.5	618.8	700.6	818.4	896.5	902.7
47.5°	9269.3	8392.6	5612.4	2105.6	639.9	581.6	618.8	721.7	828.3	876.7	881.7
50°	9617.7	8641.8	5338.4	1618.3	582.8	566.7	626.2	725.4	792.4	825.9	820.9
52.5°	9927.7	8868.8	4941.6	1262.4	560.5	556.8	632.4	721.7	763.9	761.4	757.7
55°	10163.4	8935.7	4631.5	984.6	541.9	550.6	636.1	725.4	756.4	734.1	729.1
57.5°	10284.9	8852.6	4371.1	782.5	522.1	544.4	646.1	724.2	778.7	820.9	818.4
60°	10282.4	8758.4	4050.0	674.6	502.2	539.4	662.2	786.2	983.4	1023.0	1024.3
62.5°	10242.7	8597.2	3609.8	610.1	479.9	541.9	673.3	892.8	1119.8	1087.5	1061.5
65°	10111.3	8294.6	3019.5	540.7	451.4	544.4	668.4	966.0	1026.8	911.4	895.3
67.5°	9745.5	7709.3	2371.0	483.6	425.3	530.7	677.1	897.8	943.7	870.5	846.9
70°	9002.7	6884.7	1607.1	416.7	395.6	510.9	657.2	882.9	931.3	856.9	822.1
72.5°	7825.9	5525.6	939.9	358.4	352.2	470.0	647.3	892.8	946.1	863.1	818.4
75°	6091.1	3873.9	543.1	290.2	293.9	434.0	594.0	842.0	937.5	873.0	814.7
77.5°	3932.2	1881.1	383.2	231.9	229.4	342.3	482.4	736.6	902.7	881.7	833.3
80°	1407.4	687.0	269.1	172.4	167.4	231.9	370.8	592.7	763.9	791.1	791.1
82.5°	505.9	344.7	172.4	105.4	104.2	147.6	276.5	450.1	554.3	625.0	642.3
85°	212.0	150.0	84.3	53.3	43.4	57.0	142.6	279.0	375.7	404.3	440.2
87.5°	31.0	27.3	22.3	17.4	14.9	14.9	18.6	80.6	133.9	192.2	238.1
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)