

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: P510167

Luminaire Tested: **VERD-M-CA4-220-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510167
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-CA4-220-727-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1000mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26477 lumens
Efficiency: N/A
Efficacy: 119.0 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

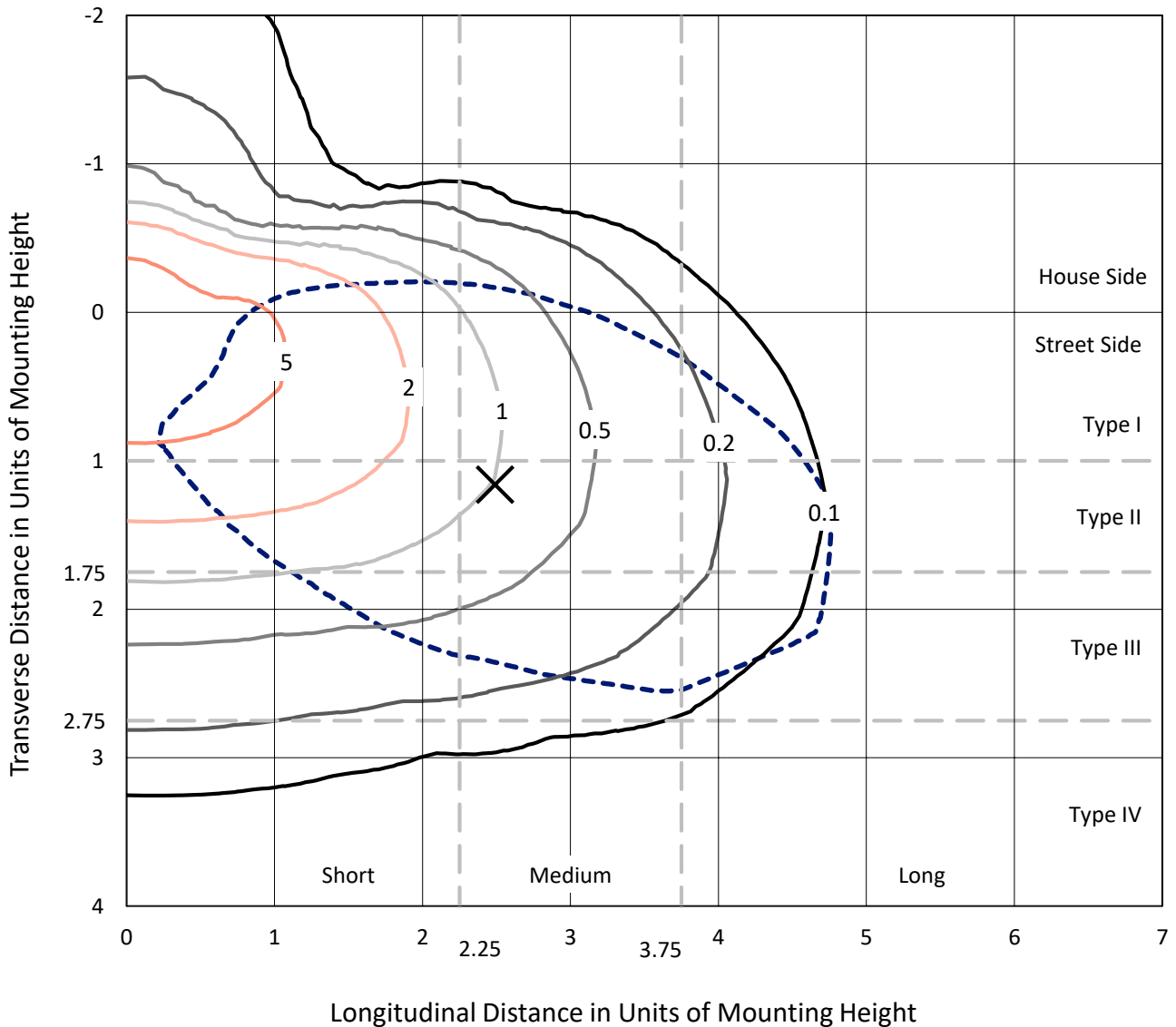
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

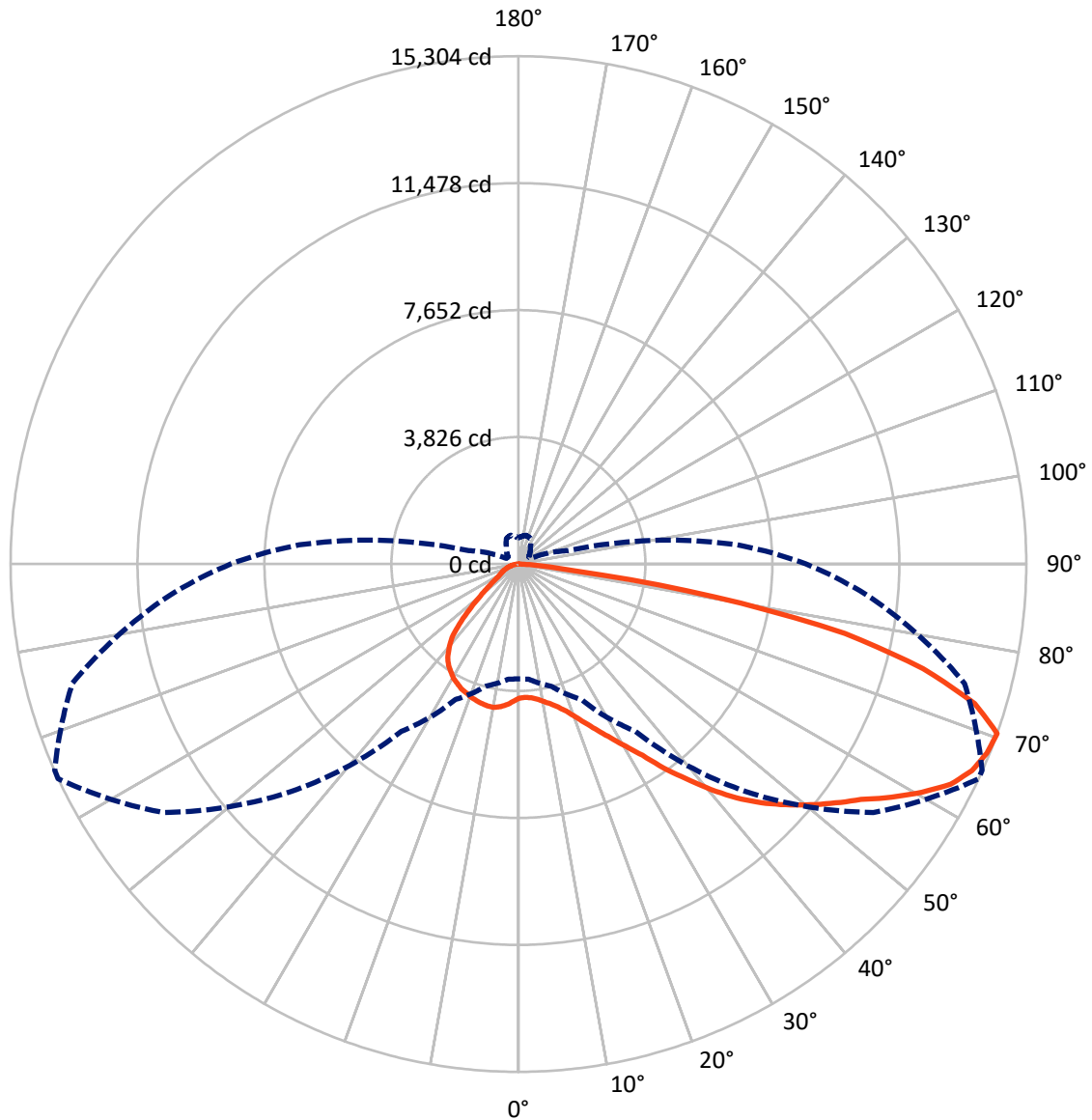
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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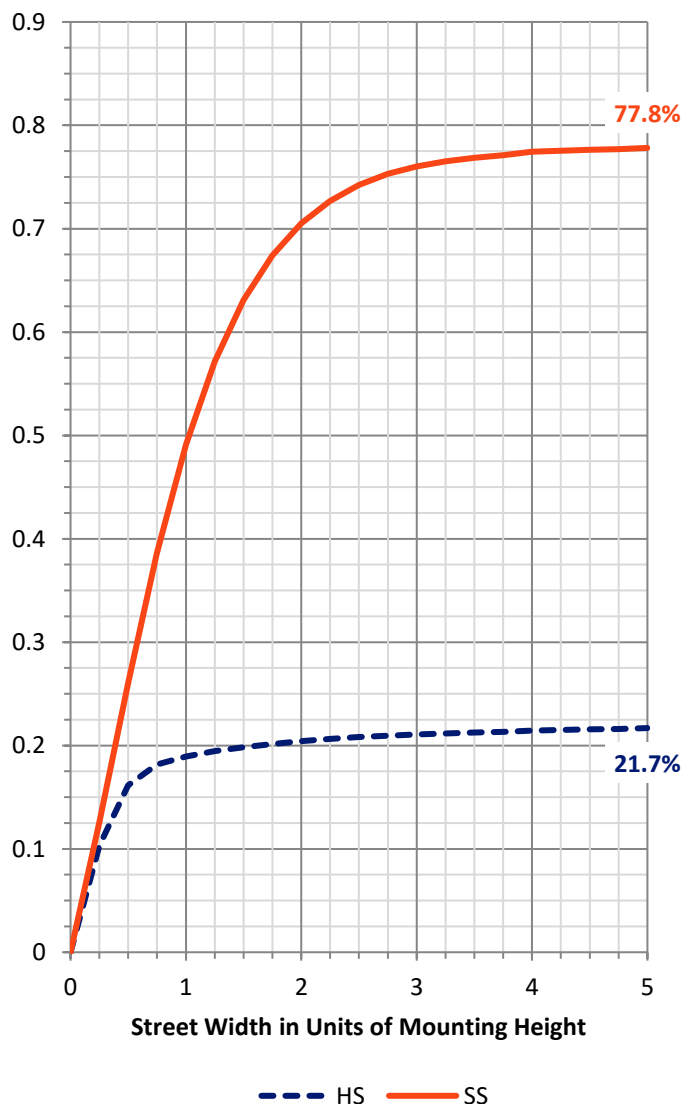
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5840.6	0.0	5840.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20636.4	0.0	20636.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	26477.0	0.0	26477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	1.5
10°-20°	1281.6	4.8
20°-30°	2223.4	8.4
30°-40°	3232.7	12.2
40°-50°	4319.0	16.3
50°-60°	5260.9	19.9
60°-70°	5671.4	21.4
70°-80°	3677.0	13.9
80°-90°	405.5	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°	26477.0	100.0
0°-180°	26477.0	100.0

Coefficient of Utilization



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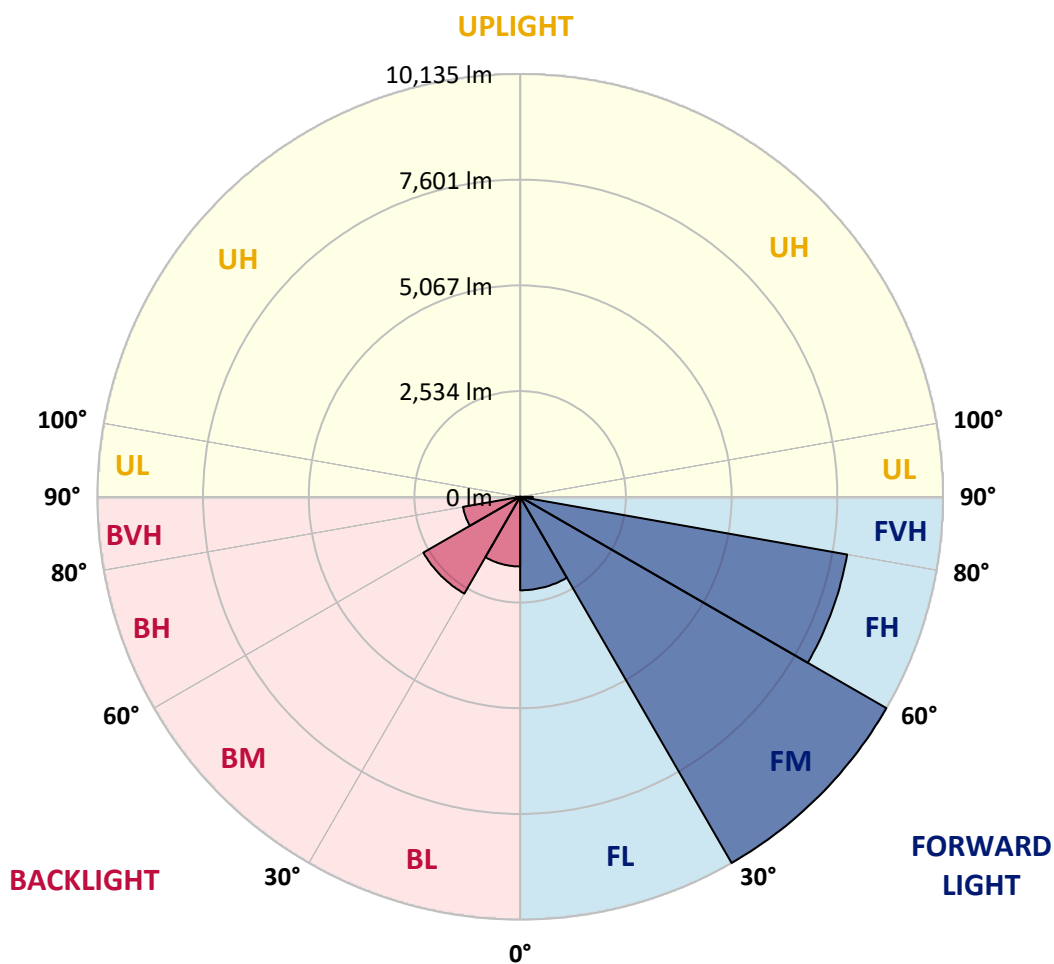
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2240.7	8.5			
FM	(30°-60°)	10134.9	38.3			
FH	(60°-80°)	7958.3	30.1			G4/12000
FVH	(80°-90°)	302.5	1.1			G3/500
BL	(0°-30°)	1669.8	6.3	B3/2500		
BM	(30°-60°)	2677.7	10.1	B3/5000		
BH	(60°-80°)	1390.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	103.1	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°	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3
2.5°	3982.6	4018.4	3999.3	4000.5	4028.0	4005.3	4020.8	4020.8	4019.6	4028.0	4053.0
5°	4080.5	4118.7	4096.0	4081.7	4087.6	4059.0	4053.0	4048.3	4044.7	4054.2	4096.0
7.5°	4223.7	4267.9	4242.8	4229.7	4222.5	4156.9	4145.0	4112.7	4109.1	4117.5	4155.7
10°	4413.6	4473.3	4443.4	4406.4	4381.3	4304.9	4244.0	4215.4	4207.0	4202.3	4241.7
12.5°	4686.9	4739.5	4704.9	4635.6	4602.2	4479.2	4406.4	4325.2	4324.0	4307.3	4337.2
15°	4946.0	5000.9	4956.7	4888.7	4844.5	4678.6	4571.1	4470.9	4458.9	4439.8	4449.4
17.5°	5196.7	5263.6	5232.5	5170.4	5116.7	4931.7	4790.8	4661.9	4648.7	4618.9	4574.7
20°	5508.3	5569.2	5560.8	5504.7	5445.0	5234.9	5080.9	4915.0	4900.6	4846.9	4747.8
22.5°	5819.9	5895.1	5848.5	5839.0	5805.6	5596.6	5381.8	5213.4	5199.1	5128.7	4947.2
25°	6113.6	6180.4	6197.1	6181.6	6185.2	5978.7	5765.0	5553.7	5539.3	5443.8	5181.2
27.5°	6461.0	6524.2	6529.0	6532.6	6574.4	6402.5	6151.8	5934.5	5924.9	5817.5	5484.4
30°	6727.2	6832.2	6853.7	6874.0	6895.5	6803.6	6575.6	6372.6	6353.5	6236.5	5825.9
32.5°	6970.7	7049.5	7125.9	7167.7	7264.4	7182.0	6994.6	6869.3	6870.4	6815.5	6370.2
35°	7159.4	7246.5	7343.2	7496.0	7636.9	7602.3	7543.8	7550.9	7552.1	7576.0	7104.4
37.5°	7339.6	7418.4	7540.2	7722.8	7971.2	8016.5	8055.9	8205.1	8257.7	8369.9	7782.5
40°	7448.3	7531.8	7689.4	7942.5	8264.8	8428.4	8547.8	8931.0	9021.7	9022.9	8306.6
42.5°	7289.5	7381.4	7663.1	8113.2	8529.9	8835.5	9149.5	9633.0	9698.6	9551.8	8754.3
45°	7147.4	7232.2	7535.4	8139.5	8737.6	9270.0	9707.0	10266.9	10314.6	10018.6	9167.4
47.5°	7010.1	7077.0	7428.0	8084.6	8950.1	9705.8	10182.1	10839.9	10874.5	10529.5	9570.9
50°	6820.3	6900.3	7272.8	8020.1	9077.8	10079.4	10647.7	11405.8	11401.0	10989.1	9936.2
52.5°	6612.6	6691.4	7091.3	7901.9	9161.4	10369.5	11177.8	11959.7	11963.3	11516.8	10297.9
55°	6351.1	6447.8	6869.3	7741.9	9181.7	10597.6	11637.4	12528.0	12586.5	12055.2	10646.5
57.5°	6038.4	6135.1	6595.9	7507.9	9061.1	10788.6	12128.0	13253.8	13284.9	12605.6	10906.8
60°	5674.2	5791.2	6231.8	7195.2	8830.7	11010.6	12722.6	13965.3	13976.1	13097.4	11124.0
62.5°	5252.8	5336.4	5799.6	6741.5	8463.0	11099.0	13214.4	14618.4	14620.7	13468.7	11221.9
65°	4796.8	4829.0	5217.0	6124.3	7927.0	10954.5	13403.0	15015.9	15005.2	13794.6	11173.0
67.5°	4253.6	4238.1	4652.3	5361.5	7248.9	10473.4	13311.1	15220.0	15252.3	14045.3	11015.4
70°	3458.5	3481.2	3810.7	4507.9	6154.2	9701.0	13058.0	15303.6	15295.2	13920.0	10508.0
72.5°	2625.2	2665.8	2904.6	3427.5	4776.5	8158.6	11974.0	14379.6	14396.3	13036.5	9594.7
75°	1623.6	1740.6	1942.3	2261.1	2992.9	5845.0	10191.7	12596.0	12680.8	11502.5	7900.7
77.5°	711.5	739.0	840.5	1090.0	1565.1	2934.4	7534.2	10059.1	10309.8	9302.3	5699.3
80°	440.5	440.5	469.2	546.8	698.4	1091.2	3019.2	6006.1	5751.8	5320.9	2514.2
82.5°	366.5	366.5	380.8	394.0	358.1	462.0	1010.0	1683.3	1803.9	1460.0	772.4
85°	199.4	204.1	205.3	208.9	205.3	249.5	397.5	497.8	503.8	456.0	274.6
87.5°	72.8	77.6	75.2	70.4	63.3	59.7	76.4	77.6	80.0	74.0	40.6
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°	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3	4042.3
2.5°	4069.7	4086.5	4130.6	4134.2	4150.9	4156.9	4171.2	4191.5	4227.3	4209.4	4189.1
5°	4116.3	4137.8	4208.2	4244.0	4290.6	4318.1	4363.4	4386.1	4441.0	4423.1	4420.7
7.5°	4186.7	4232.1	4295.4	4330.0	4390.9	4408.8	4442.2	4442.2	4487.6	4464.9	4458.9
10°	4282.2	4312.1	4378.9	4381.3	4415.9	4415.9	4455.3	4430.3	4474.4	4448.2	4447.0
12.5°	4358.6	4375.4	4400.4	4380.1	4398.0	4377.7	4398.0	4368.2	4395.7	4362.2	4355.1
15°	4444.6	4421.9	4396.8	4349.1	4333.6	4301.3	4284.6	4253.6	4256.0	4217.8	4211.8
17.5°	4541.3	4482.8	4410.0	4306.1	4248.8	4166.4	4131.8	4087.6	4062.6	4028.0	4043.5
20°	4658.3	4571.1	4419.5	4258.4	4136.6	4011.2	3930.1	3858.4	3852.5	3821.4	3804.7
22.5°	4809.9	4670.2	4461.3	4190.3	3994.5	3815.5	3694.9	3575.5	3563.6	3500.3	3476.4
25°	4997.3	4801.6	4482.8	4137.8	3828.6	3582.7	3392.8	3226.9	3146.9	3080.1	3064.5
27.5°	5249.2	4995.0	4525.8	4043.5	3632.8	3293.8	3021.6	2801.9	2706.4	2673.0	2638.3
30°	5544.1	5231.3	4605.8	3964.7	3401.2	2924.9	2593.0	2331.5	2227.7	2175.1	2158.4
32.5°	5978.7	5529.8	4679.8	3834.6	3120.7	2519.0	2086.8	1797.9	1734.6	1725.1	1747.8
35°	6611.4	6090.9	4787.2	3714.0	2791.2	2067.7	1590.2	1401.5	1388.4	1390.8	1390.8
37.5°	7270.4	6625.7	5106.0	3536.1	2387.6	1556.7	1210.5	1107.9	1112.6	1112.6	1111.4
40°	7700.2	7055.5	5337.6	3284.2	1886.2	1116.2	897.8	820.2	853.6	898.9	922.8
42.5°	8174.1	7445.9	5497.6	2994.1	1312.0	789.1	653.0	680.5	778.4	847.6	857.2
45°	8577.6	7777.8	5515.5	2542.8	845.2	599.3	595.7	674.5	787.9	863.1	869.1
47.5°	8923.8	8079.8	5403.2	2027.1	616.0	559.9	595.7	694.8	797.5	844.0	848.8
50°	9259.3	8319.7	5139.4	1557.9	561.1	545.6	602.9	698.4	762.9	795.1	790.3
52.5°	9557.7	8538.2	4757.4	1215.3	539.6	536.0	608.8	694.8	735.4	733.0	729.4
55°	9784.6	8602.7	4458.9	947.9	521.7	530.1	612.4	698.4	728.2	706.7	702.0
57.5°	9901.6	8522.7	4208.2	753.3	502.6	524.1	622.0	697.2	749.7	790.3	787.9
60°	9899.2	8432.0	3899.0	649.4	483.5	519.3	637.5	756.9	946.7	984.9	986.1
62.5°	9861.0	8276.8	3475.2	587.4	462.0	521.7	648.2	859.6	1078.0	1047.0	1021.9
65°	9734.4	7985.5	2907.0	520.5	434.6	524.1	643.5	930.0	988.5	877.5	861.9
67.5°	9382.2	7422.0	2282.6	465.6	409.5	511.0	651.8	864.3	908.5	838.1	815.4
70°	8667.1	6628.1	1547.2	401.1	380.8	491.9	632.7	850.0	896.6	824.9	791.5
72.5°	7534.2	5319.7	904.9	345.0	339.0	452.5	623.2	859.6	910.9	830.9	787.9
75°	5864.1	3729.5	522.9	279.4	282.9	417.8	571.8	810.6	902.5	840.5	784.3
77.5°	3785.6	1811.0	368.9	223.2	220.9	329.5	464.4	709.1	869.1	848.8	802.2
80°	1355.0	661.4	259.1	165.9	161.2	223.2	357.0	570.6	735.4	761.7	761.7
82.5°	487.1	331.9	165.9	101.5	100.3	142.1	266.2	433.4	533.6	601.7	618.4
85°	204.1	144.5	81.2	51.3	41.8	54.9	137.3	268.6	361.7	389.2	423.8
87.5°	29.8	26.3	21.5	16.7	14.3	14.3	17.9	77.6	128.9	185.0	229.2
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)