

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: P510015

Luminaire Tested: **VERD-M-CA4-190-722-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510015  
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-CA4-190-722-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 870mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22582 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

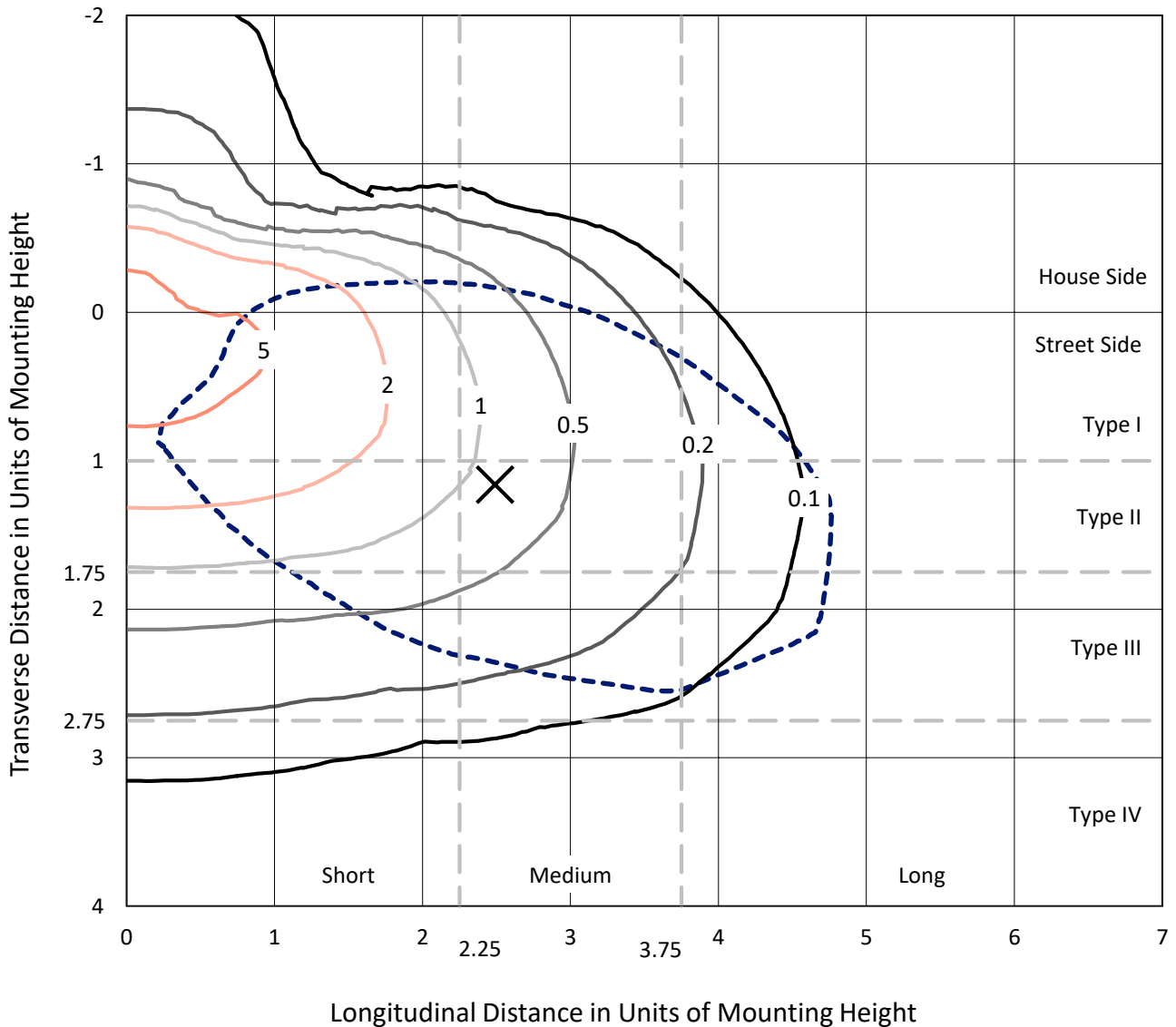
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

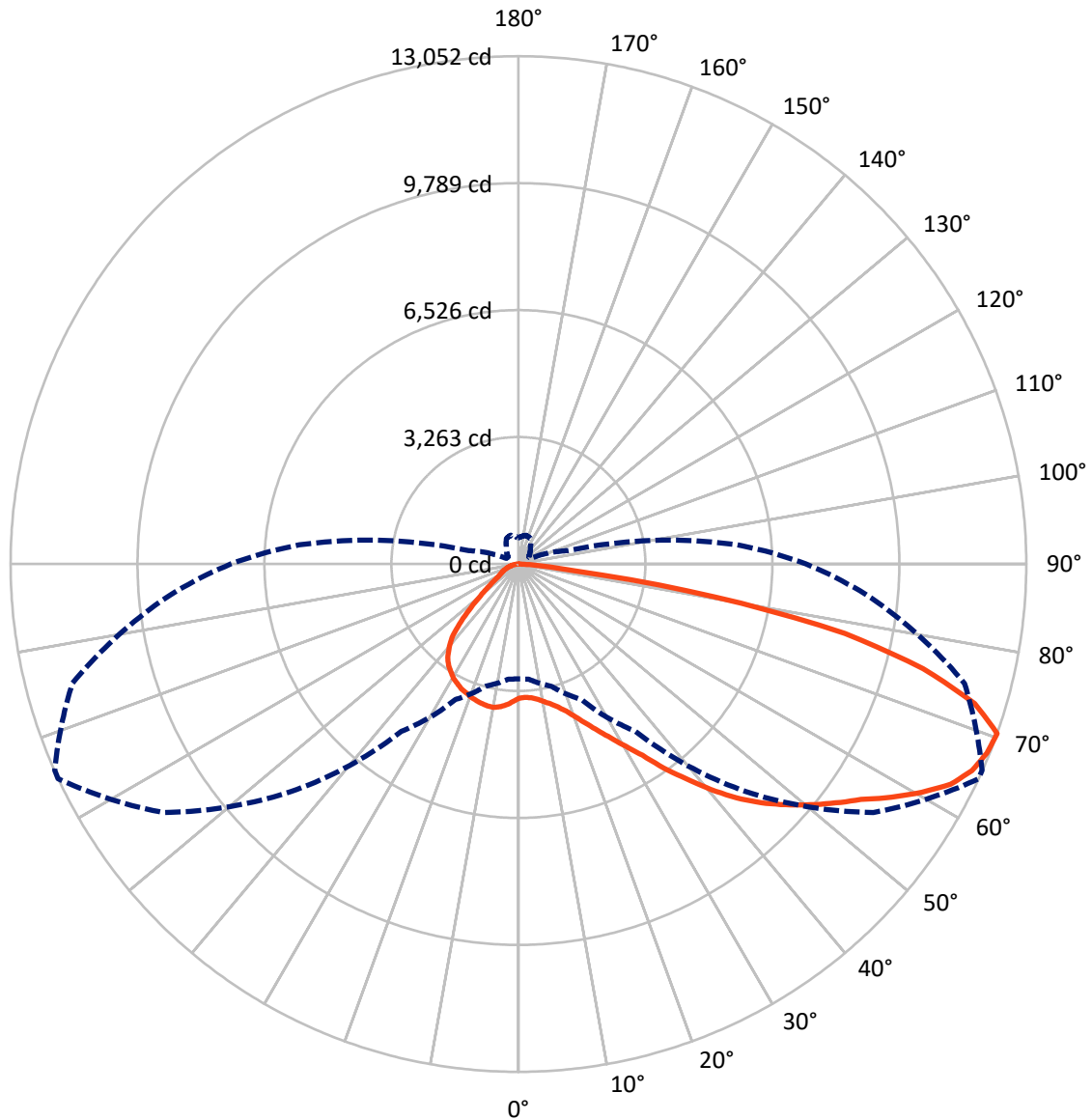
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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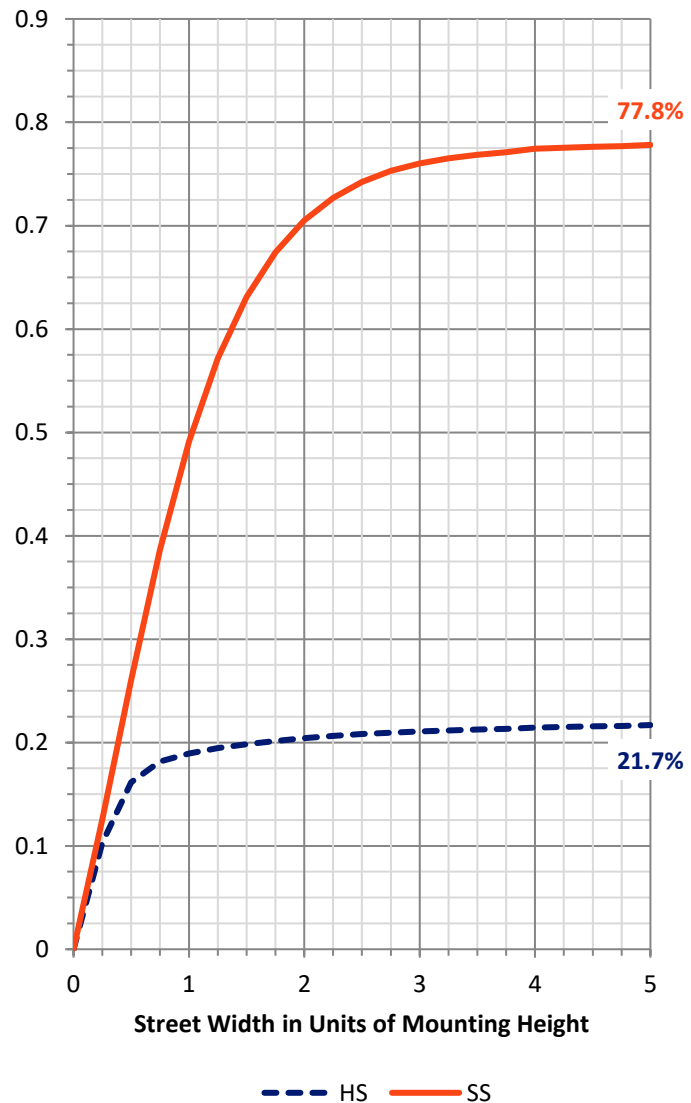
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4981.4	0.0	4981.4
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	17600.6	0.0	17600.6
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	22582.0	0.0	22582.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.9	1.5
10°-20°	1093.1	4.8
20°-30°	1896.3	8.4
30°-40°	2757.2	12.2
40°-50°	3683.6	16.3
50°-60°	4487.0	19.9
60°-70°	4837.1	21.4
70°-80°	3136.0	13.9
80°-90°	345.9	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°	22582.0	100.0
0°-180°	22582.0	100.0



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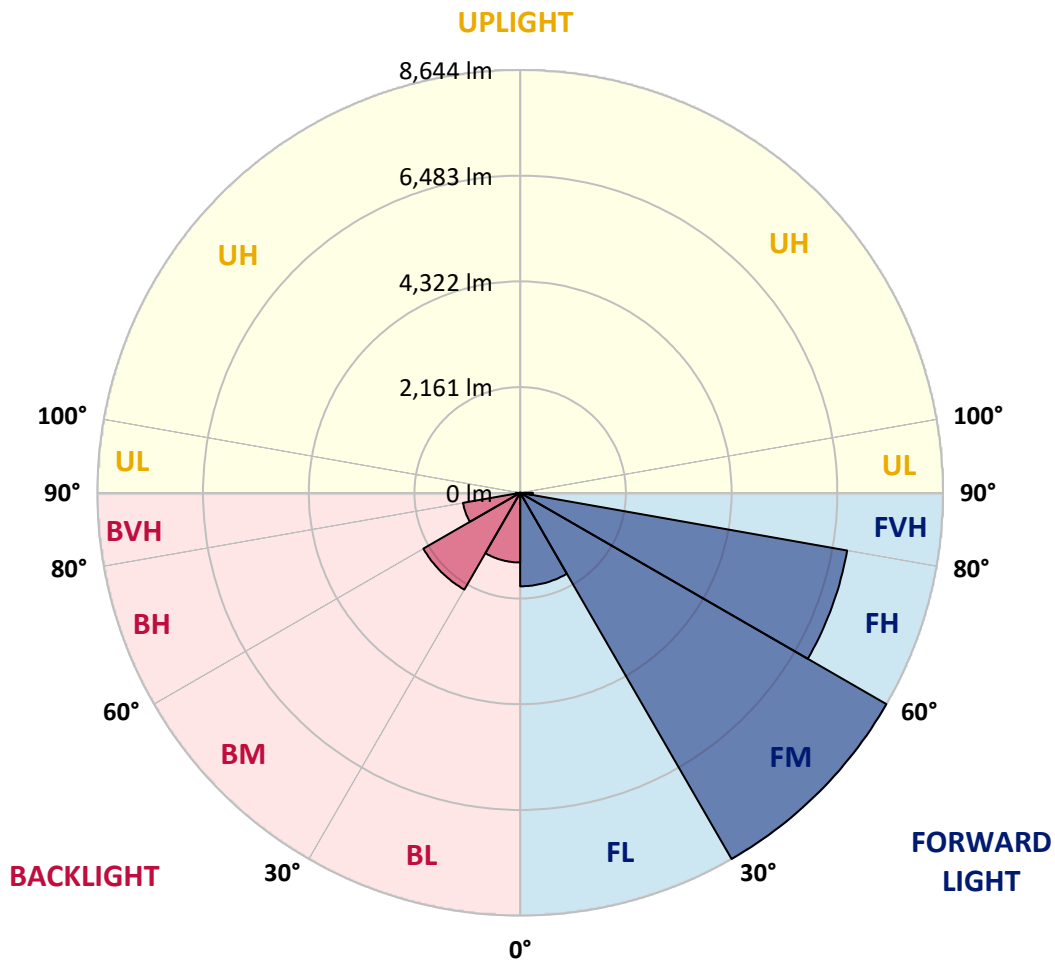
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1911.1	8.5			
FM (30°-60°)	8644.0	38.3			
FH (60°-80°)	6787.6	30.1			G3/7500
FVH (80°-90°)	258.0	1.1			G3/500
BL (0°-30°)	1424.2	6.3	B3/2500		
BM (30°-60°)	2283.8	10.1	B2/2500		
BH (60°-80°)	1185.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	87.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6
2.5°	3396.7	3427.3	3411.0	3412.0	3435.4	3416.1	3429.3	3429.3	3428.3	3435.4	3456.8
5°	3480.2	3512.8	3493.4	3481.2	3486.3	3461.9	3456.8	3452.7	3449.7	3457.8	3493.4
7.5°	3602.4	3640.1	3618.7	3607.5	3601.4	3545.4	3535.2	3507.7	3504.6	3511.8	3544.4
10°	3764.3	3815.2	3789.7	3758.2	3736.8	3671.6	3619.7	3595.3	3588.1	3584.1	3617.7
12.5°	3997.5	4042.3	4012.7	3953.7	3925.2	3820.3	3758.2	3688.9	3687.9	3673.7	3699.1
15°	4218.4	4265.2	4227.6	4169.5	4131.9	3990.3	3898.7	3813.2	3803.0	3786.7	3794.8
17.5°	4432.2	4489.2	4462.8	4409.8	4364.0	4206.2	4086.0	3976.1	3964.9	3939.4	3901.7
20°	4698.0	4749.9	4742.8	4694.9	4644.0	4464.8	4333.5	4191.9	4179.7	4133.9	4049.4
22.5°	4963.7	5027.9	4988.2	4980.0	4951.5	4773.3	4590.0	4446.5	4434.3	4374.2	4219.4
25°	5214.2	5271.2	5285.5	5272.2	5275.3	5099.1	4916.9	4736.7	4724.4	4643.0	4419.0
27.5°	5510.5	5564.5	5568.5	5571.6	5607.2	5460.6	5246.8	5061.5	5053.3	4961.7	4677.6
30°	5737.6	5827.2	5845.5	5862.8	5881.1	5802.7	5608.2	5435.2	5418.9	5319.1	4968.8
32.5°	5945.3	6012.5	6077.6	6113.3	6195.7	6125.5	5965.6	5858.7	5859.7	5812.9	5433.1
35°	6106.1	6180.5	6263.0	6393.3	6513.4	6483.9	6434.0	6440.1	6441.1	6461.5	6059.3
37.5°	6259.9	6327.1	6431.0	6586.7	6798.5	6837.2	6870.8	6998.1	7042.9	7138.6	6637.6
40°	6352.6	6423.8	6558.2	6774.1	7049.0	7188.5	7290.3	7617.2	7694.5	7695.6	7084.6
42.5°	6217.1	6295.5	6535.8	6919.7	7275.0	7535.7	7803.5	8215.9	8271.9	8146.6	7466.5
45°	6096.0	6168.3	6426.9	6942.1	7452.2	7906.3	8279.0	8756.5	8797.3	8544.7	7818.8
47.5°	5978.9	6035.9	6335.2	6895.3	7633.4	8278.0	8684.2	9245.3	9274.8	8980.5	8162.9
50°	5817.0	5885.2	6202.9	6840.3	7742.4	8596.7	9081.3	9727.9	9723.8	9372.5	8474.5
52.5°	5639.8	5707.0	6048.1	6739.5	7813.7	8844.1	9533.4	10200.3	10203.4	9822.6	8783.0
55°	5416.8	5499.3	5858.7	6603.0	7831.0	9038.6	9925.4	10685.0	10734.9	10281.8	9080.3
57.5°	5150.1	5232.5	5625.6	6403.5	7728.1	9201.5	10343.9	11304.1	11330.5	10751.2	9302.3
60°	4839.5	4939.3	5315.0	6136.7	7531.6	9390.9	10851.0	11910.9	11920.1	11170.7	9487.6
62.5°	4480.1	4551.4	4946.4	5749.8	7218.0	9466.2	11270.5	12467.9	12469.9	11487.3	9571.1
65°	4091.1	4118.6	4449.5	5223.4	6760.9	9343.0	11431.3	12806.9	12797.8	11765.3	9529.3
67.5°	3627.8	3614.6	3967.9	4572.7	6182.5	8932.7	11352.9	12981.0	13008.5	11979.1	9394.9
70°	2949.7	2969.1	3250.1	3844.7	5248.8	8273.9	11137.1	13052.3	13045.2	11872.2	8962.2
72.5°	2239.0	2273.6	2477.3	2923.3	4073.8	6958.4	10212.6	12264.2	12278.5	11118.7	8183.3
75°	1384.8	1484.5	1656.6	1928.5	2552.6	4985.1	8692.4	10743.0	10815.3	9810.4	6738.5
77.5°	606.8	630.3	716.8	929.6	1334.9	2502.7	6425.9	8579.4	8793.2	7933.8	4860.9
80°	375.7	375.7	400.2	466.3	595.6	930.6	2575.0	5122.6	4905.7	4538.1	2144.3
82.5°	312.6	312.6	324.8	336.0	305.5	394.0	861.4	1435.7	1538.5	1245.3	658.8
85°	170.0	174.1	175.1	178.2	175.1	212.8	339.1	424.6	429.7	389.0	234.2
87.5°	62.1	66.2	64.1	60.1	54.0	50.9	65.2	66.2	68.2	63.1	34.6
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°	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6	3447.6
2.5°	3471.0	3485.3	3523.0	3526.0	3540.3	3545.4	3557.6	3574.9	3605.4	3590.2	3572.9
5°	3510.8	3529.1	3589.2	3619.7	3659.4	3682.8	3721.5	3740.9	3787.7	3772.4	3770.4
7.5°	3570.8	3609.5	3663.5	3693.0	3744.9	3760.2	3788.7	3788.7	3827.4	3808.1	3803.0
10°	3652.3	3677.7	3734.8	3736.8	3766.3	3766.3	3799.9	3778.5	3816.2	3793.8	3792.8
12.5°	3717.4	3731.7	3753.1	3735.8	3751.1	3733.7	3751.1	3725.6	3749.0	3720.5	3714.4
15°	3790.8	3771.4	3750.0	3709.3	3696.1	3668.6	3654.3	3627.8	3629.9	3597.3	3592.2
17.5°	3873.2	3823.3	3761.2	3672.6	3623.8	3553.5	3524.0	3486.3	3464.9	3435.4	3448.6
20°	3973.0	3898.7	3769.4	3631.9	3528.1	3421.2	3351.9	3290.8	3285.7	3259.3	3245.0
22.5°	4102.3	3983.2	3805.0	3573.9	3406.9	3254.2	3151.3	3049.5	3039.3	2985.4	2965.0
25°	4262.2	4095.2	3823.3	3529.1	3265.4	3055.6	2893.7	2752.2	2684.0	2627.0	2613.7
27.5°	4477.0	4260.2	3860.0	3448.6	3098.4	2809.2	2577.1	2389.7	2308.3	2279.8	2250.2
30°	4728.5	4461.8	3928.2	3381.4	2900.9	2494.6	2211.5	1988.5	1900.0	1855.2	1840.9
32.5°	5099.1	4716.3	3991.3	3270.5	2661.6	2148.4	1779.8	1533.4	1479.4	1471.3	1490.6
35°	5638.8	5194.9	4083.0	3167.6	2380.6	1763.5	1356.2	1195.4	1184.2	1186.2	1186.2
37.5°	6200.8	5651.0	4354.8	3015.9	2036.4	1327.7	1032.5	944.9	949.0	949.0	947.9
40°	6567.4	6017.6	4552.4	2801.1	1608.8	952.0	765.7	699.5	728.0	766.7	787.1
42.5°	6971.6	6350.5	4688.8	2553.6	1119.0	673.0	557.0	580.4	663.9	722.9	731.1
45°	7315.8	6633.6	4704.1	2168.8	720.9	511.1	508.1	575.3	672.0	736.2	741.2
47.5°	7611.0	6891.2	4608.4	1728.9	525.4	477.5	508.1	592.6	680.2	719.9	723.9
50°	7897.2	7095.8	4383.4	1328.8	478.6	465.3	514.2	595.6	650.6	678.1	674.0
52.5°	8151.7	7282.2	4057.5	1036.5	460.2	457.2	519.3	592.6	627.2	625.2	622.1
55°	8345.2	7337.2	3803.0	808.5	445.0	452.1	522.3	595.6	621.1	602.8	598.7
57.5°	8445.0	7268.9	3589.2	642.5	428.7	447.0	530.5	594.6	639.4	674.0	672.0
60°	8442.9	7191.5	3325.4	553.9	412.4	442.9	543.7	645.5	807.4	840.0	841.0
62.5°	8410.3	7059.2	2964.0	501.0	394.0	445.0	552.9	733.1	919.4	893.0	871.6
65°	8302.4	6810.7	2479.3	443.9	370.6	447.0	548.8	793.2	843.1	748.4	735.1
67.5°	8002.0	6330.2	1946.8	397.1	349.2	435.8	555.9	737.2	774.9	714.8	695.4
70°	7392.1	5653.0	1319.6	342.1	324.8	419.5	539.6	725.0	764.7	703.6	675.1
72.5°	6425.9	4537.1	771.8	294.3	289.2	385.9	531.5	733.1	776.9	708.7	672.0
75°	5001.4	3180.9	446.0	238.3	241.3	356.4	487.7	691.4	769.8	716.8	669.0
77.5°	3228.7	1544.6	314.6	190.4	188.4	281.0	396.1	604.8	741.2	723.9	684.2
80°	1155.7	564.1	220.9	141.5	137.5	190.4	304.4	486.7	627.2	649.6	649.6
82.5°	415.4	283.1	141.5	86.5	85.5	121.2	227.1	369.6	455.1	513.2	527.4
85°	174.1	123.2	69.2	43.8	35.6	46.8	117.1	229.1	308.5	331.9	361.5
87.5°	25.5	22.4	18.3	14.3	12.2	12.2	15.3	66.2	110.0	157.8	195.5
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)