

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: P509959

Luminaire Tested: **VERD-M-CA3-170-760-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509959  
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-CA3-170-760-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1060mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24407 lumens  
Efficiency: N/A  
Efficacy: 141.2 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

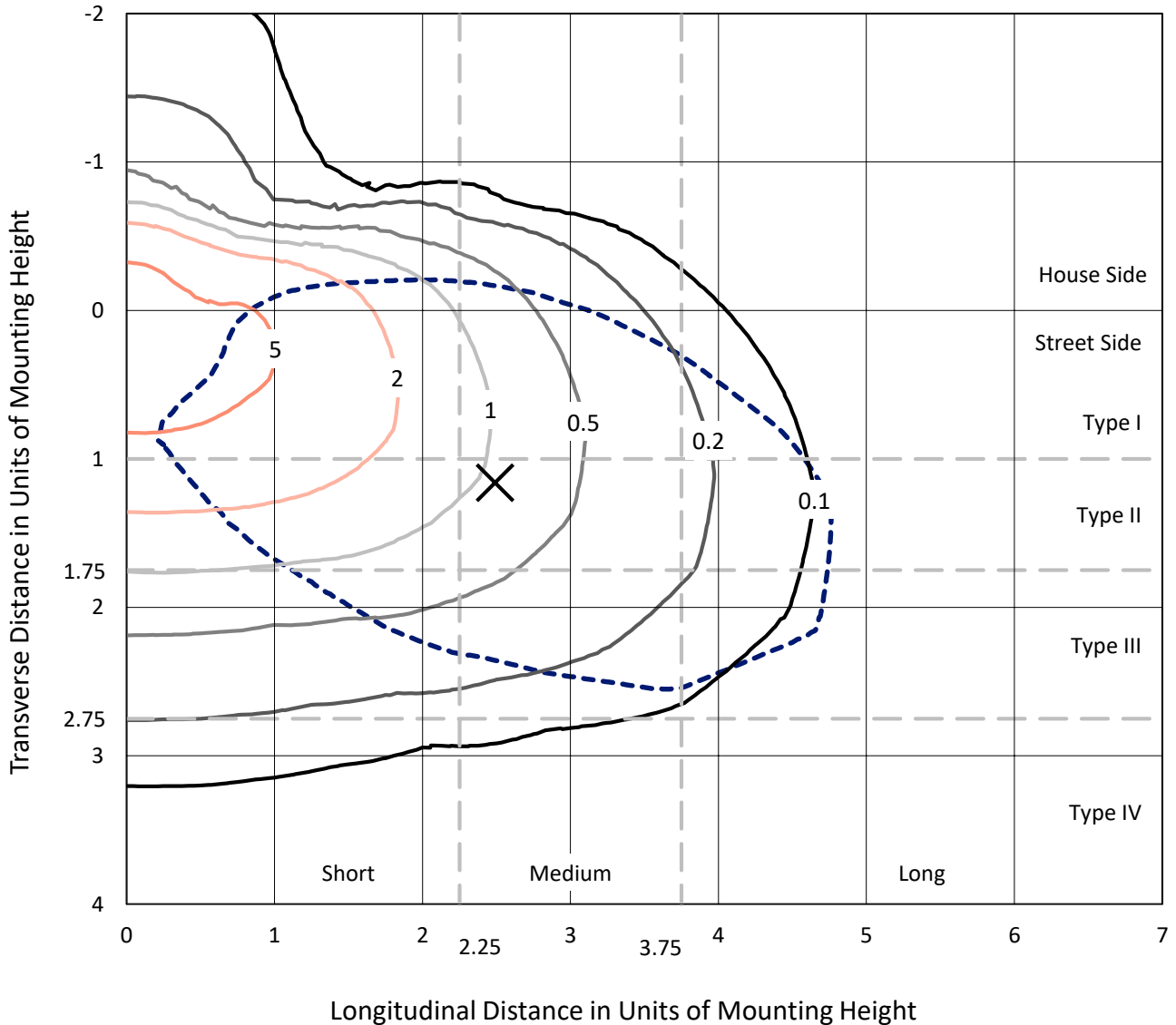
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

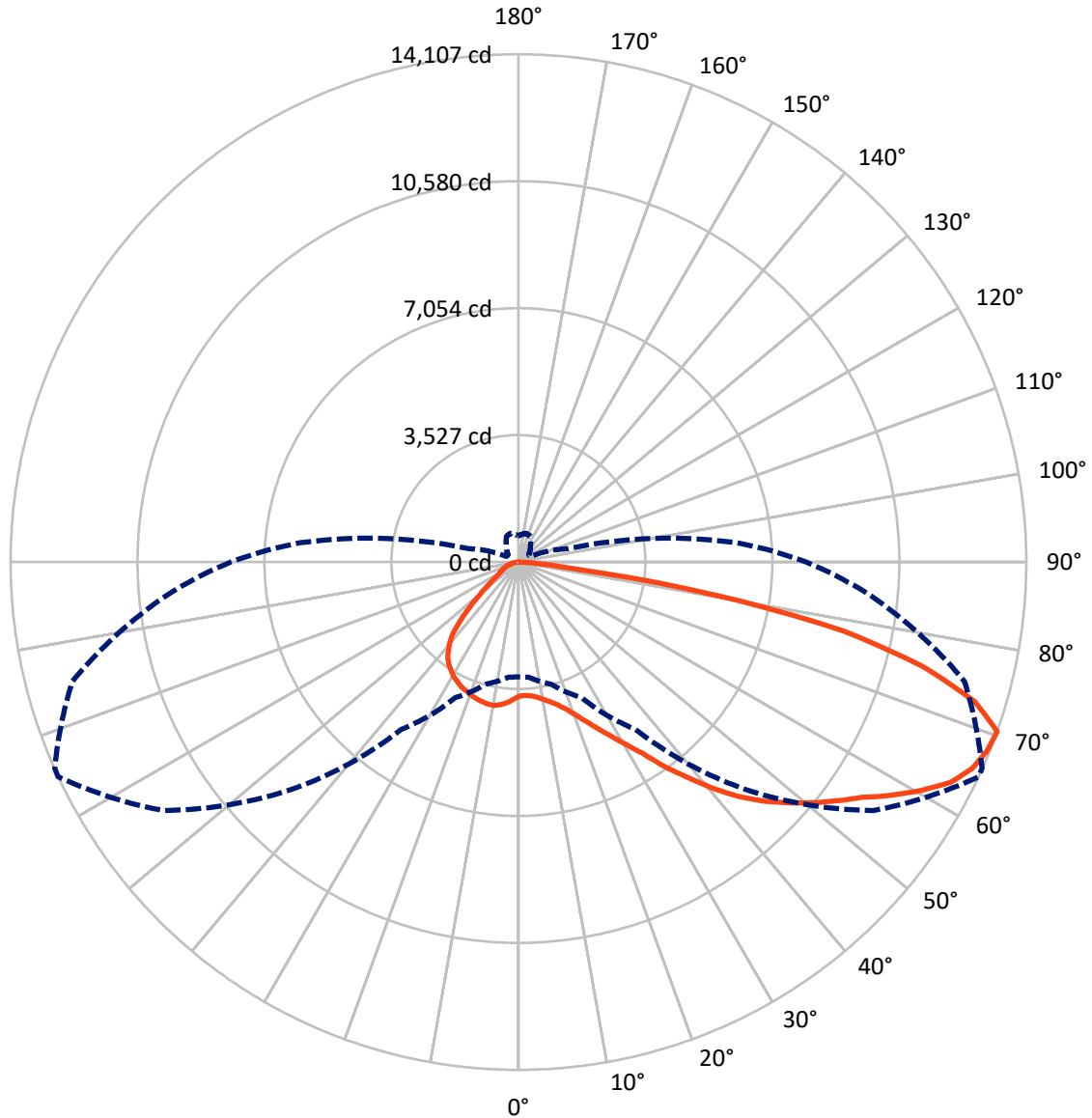
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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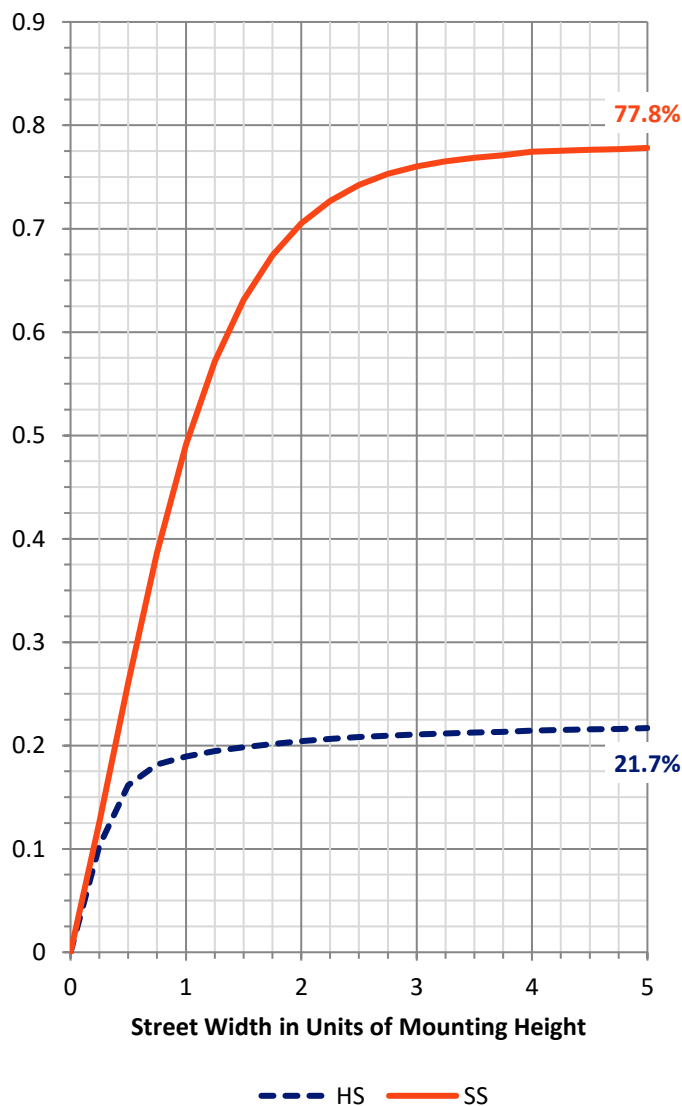
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5383.9	0.0	5383.9
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	19023.0	0.0	19023.0
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	24407.0	0.0	24407.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.8	1.5
10°-20°	1181.4	4.8
20°-30°	2049.6	8.4
30°-40°	2980.0	12.2
40°-50°	3981.3	16.3
50°-60°	4849.6	19.9
60°-70°	5228.0	21.4
70°-80°	3389.5	13.9
80°-90°	373.8	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°	24407.0	100.0
0°-180°	24407.0	100.0

**Coefficient of Utilization**



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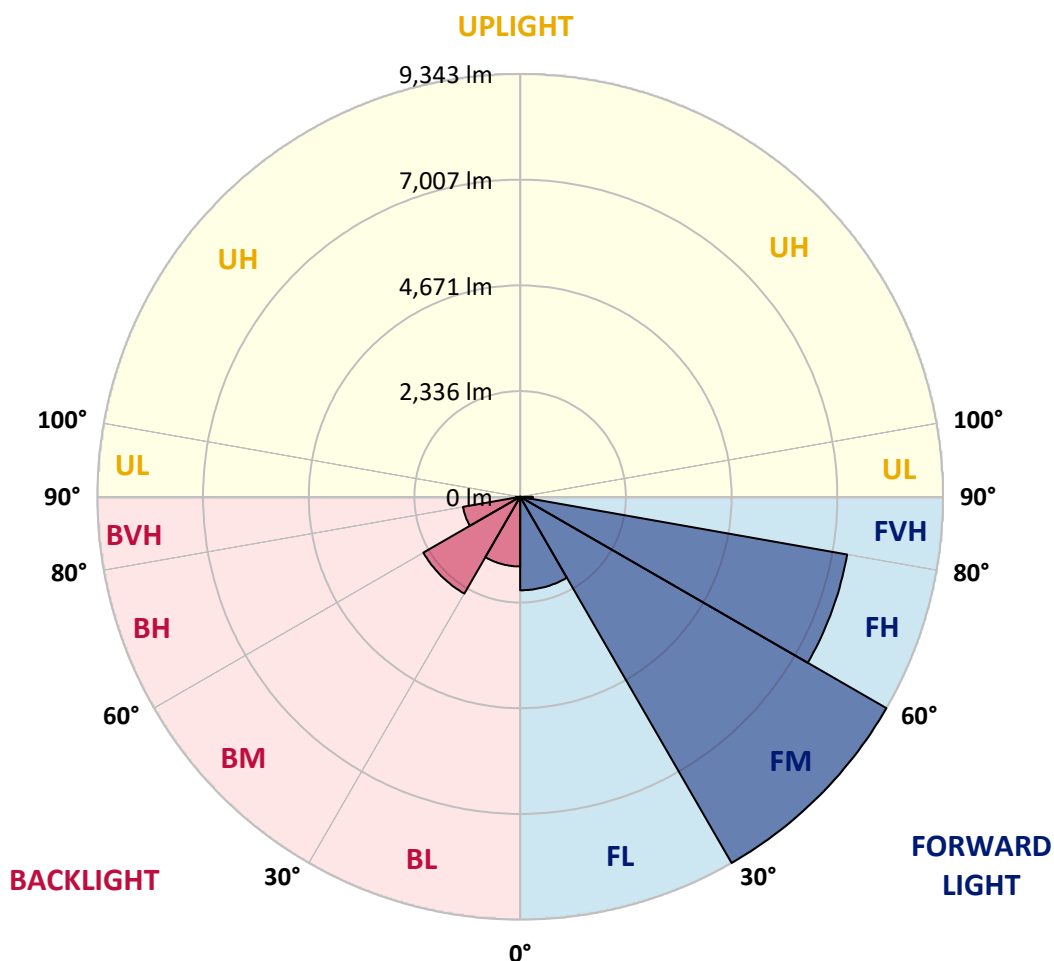
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2065.5	8.5			
FM (30°-60°)	9342.6	38.3			
FH (60°-80°)	7336.1	30.1			G3/7500
FVH (80°-90°)	278.8	1.1			G3/500
BL (0°-30°)	1539.3	6.3	B3/2500		
BM (30°-60°)	2468.4	10.1	B2/2500		
BH (60°-80°)	1281.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	95.0	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°	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3
2.5°	3671.2	3704.2	3686.6	3687.7	3713.0	3692.1	3706.4	3706.4	3705.3	3713.0	3736.2
5°	3761.5	3796.7	3775.8	3762.6	3768.1	3741.7	3736.2	3731.8	3728.5	3737.3	3775.8
7.5°	3893.5	3934.2	3911.1	3899.0	3892.4	3831.9	3820.9	3791.2	3787.9	3795.6	3830.8
10°	4068.5	4123.5	4096.0	4061.9	4038.8	3968.4	3912.2	3885.8	3878.1	3873.7	3910.0
12.5°	4320.5	4368.9	4337.0	4273.2	4242.4	4129.0	4061.9	3987.1	3986.0	3970.6	3998.1
15°	4559.3	4609.9	4569.2	4506.5	4465.8	4312.8	4213.8	4121.3	4110.3	4092.7	4101.5
17.5°	4790.4	4852.1	4823.4	4766.2	4716.7	4546.1	4416.3	4297.4	4285.3	4257.8	4217.1
20°	5077.7	5133.8	5126.1	5074.3	5019.3	4825.6	4683.7	4530.7	4517.5	4468.0	4376.6
22.5°	5364.9	5434.2	5391.3	5382.5	5351.7	5159.1	4961.0	4805.8	4792.6	4727.7	4560.4
25°	5635.6	5697.2	5712.6	5698.3	5701.6	5511.2	5314.3	5119.5	5106.3	5018.2	4776.1
27.5°	5955.8	6014.2	6018.6	6021.9	6060.4	5901.9	5670.8	5470.5	5461.7	5362.7	5055.6
30°	6201.2	6298.1	6317.9	6336.6	6356.4	6271.7	6061.5	5874.4	5856.8	5748.9	5370.4
32.5°	6425.7	6498.4	6568.8	6607.3	6696.5	6620.5	6447.8	6332.2	6333.3	6282.7	5872.2
35°	6599.6	6680.0	6769.1	6910.0	7039.8	7007.9	6954.0	6960.6	6961.7	6983.7	6549.0
37.5°	6765.8	6838.4	6950.7	7119.1	7348.0	7389.8	7426.1	7563.7	7612.1	7715.5	7174.1
40°	6865.9	6943.0	7088.2	7321.5	7618.7	7769.4	7879.5	8232.7	8316.4	8317.5	7657.2
42.5°	6719.6	6804.3	7064.0	7478.9	7863.0	8144.7	8434.1	8879.8	8940.4	8805.0	8069.9
45°	6588.6	6666.8	6946.3	7503.1	8054.5	8545.3	8948.1	9464.2	9508.2	9235.3	8450.6
47.5°	6462.1	6523.7	6847.2	7452.5	8250.4	8947.0	9386.1	9992.4	10024.3	9706.3	8822.6
50°	6287.1	6360.8	6704.2	7393.1	8368.1	9291.4	9815.3	10514.1	10509.7	10130.0	9159.4
52.5°	6095.6	6168.2	6536.9	7284.1	8445.1	9558.8	10303.9	11024.7	11028.0	10616.4	9492.8
55°	5854.6	5943.7	6332.2	7136.7	8463.9	9769.0	10727.6	11548.5	11602.4	11112.7	9814.2
57.5°	5566.3	5655.4	6080.2	6921.0	8352.7	9945.1	11179.9	12217.6	12246.2	11620.1	10054.1
60°	5230.6	5338.5	5744.5	6632.6	8140.3	10149.8	11727.9	12873.5	12883.4	12073.5	10254.3
62.5°	4842.1	4919.2	5346.2	6214.5	7801.4	10231.2	12181.3	13475.5	13477.7	12415.7	10344.6
65°	4421.8	4451.5	4809.1	5645.5	7307.2	10098.1	12355.2	13841.9	13832.0	12716.1	10299.5
67.5°	3921.0	3906.7	4288.6	4942.3	6682.2	9654.6	12270.4	14030.1	14059.8	12947.2	10154.2
70°	3188.1	3209.0	3512.8	4155.4	5673.0	8942.6	12037.1	14107.2	14099.5	12831.7	9686.5
72.5°	2420.0	2457.4	2677.5	3159.5	4403.1	7520.7	11037.9	13255.4	13270.8	12017.3	8844.6
75°	1496.7	1604.5	1790.5	2084.3	2758.9	5388.0	9394.9	11611.2	11689.4	10603.2	7283.0
77.5°	655.9	681.2	774.7	1004.7	1442.7	2705.0	6945.2	9272.7	9503.8	8575.0	5253.7
80°	406.1	406.1	432.5	504.0	643.8	1005.8	2783.1	5536.6	5302.2	4904.9	2317.6
82.5°	337.8	337.8	351.1	363.2	330.1	425.9	931.0	1551.7	1662.8	1345.9	712.0
85°	183.8	188.2	189.3	192.6	189.3	230.0	366.5	458.9	464.4	420.4	253.1
87.5°	67.1	71.5	69.3	64.9	58.3	55.0	70.4	71.5	73.7	68.2	37.4
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°	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3	3726.3
2.5°	3751.6	3767.0	3807.7	3811.0	3826.4	3831.9	3845.1	3863.8	3896.8	3880.3	3861.6
5°	3794.5	3814.3	3879.2	3912.2	3955.2	3980.5	4022.3	4043.2	4093.8	4077.3	4075.1
7.5°	3859.4	3901.2	3959.6	3991.5	4047.6	4064.1	4094.9	4094.9	4136.7	4115.8	4110.3
10°	3947.5	3975.0	4036.6	4038.8	4070.7	4070.7	4107.0	4083.9	4124.6	4100.4	4099.3
12.5°	4017.9	4033.3	4056.4	4037.7	4054.2	4035.5	4054.2	4026.7	4052.0	4021.2	4014.6
15°	4097.1	4076.2	4053.1	4009.1	3994.8	3965.1	3949.7	3921.0	3923.2	3888.0	3882.5
17.5°	4186.3	4132.3	4065.2	3969.5	3916.6	3840.7	3808.8	3768.1	3745.0	3713.0	3727.4
20°	4294.1	4213.8	4074.0	3925.4	3813.2	3697.6	3622.8	3556.8	3551.3	3522.7	3507.3
22.5°	4433.9	4305.1	4112.5	3862.7	3682.2	3517.2	3406.0	3296.0	3285.0	3226.6	3204.6
25°	4606.6	4426.2	4132.3	3814.3	3529.3	3302.6	3127.6	2974.6	2900.9	2839.3	2825.0
27.5°	4838.8	4604.4	4171.9	3727.4	3348.8	3036.2	2785.3	2582.8	2494.8	2464.0	2432.1
30°	5110.7	4822.3	4245.7	3654.7	3135.3	2696.2	2390.3	2149.3	2053.5	2005.1	1989.7
32.5°	5511.2	5097.5	4313.9	3534.8	2876.7	2322.0	1923.7	1657.3	1599.0	1590.2	1611.1
35°	6094.5	5614.7	4413.0	3423.6	2572.9	1906.0	1465.8	1292.0	1279.9	1282.1	1282.1
37.5°	6702.0	6107.7	4706.8	3259.6	2201.0	1435.0	1115.9	1021.3	1025.7	1025.7	1024.6
40°	7098.1	6503.9	4920.3	3027.4	1738.8	1029.0	827.6	756.0	786.8	828.7	850.7
42.5°	7535.0	6863.7	5067.7	2760.0	1209.4	727.4	602.0	627.3	717.5	781.3	790.2
45°	7907.0	7169.7	5084.3	2344.0	779.1	552.4	549.1	621.8	726.3	795.7	801.2
47.5°	8226.1	7448.1	4980.8	1868.6	567.9	516.1	549.1	640.5	735.1	778.0	782.4
50°	8535.4	7669.3	4737.6	1436.1	517.2	502.9	555.7	643.8	703.2	732.9	728.5
52.5°	8810.5	7870.7	4385.4	1120.3	497.4	494.1	561.2	640.5	677.9	675.7	672.4
55°	9019.6	7930.1	4110.3	873.8	480.9	488.6	564.6	643.8	671.3	651.5	647.1
57.5°	9127.4	7856.4	3879.2	694.4	463.3	483.1	573.4	642.7	691.1	728.5	726.3
60°	9125.2	7772.7	3594.2	598.7	445.7	478.7	587.7	697.7	872.7	907.9	909.0
62.5°	9090.0	7629.7	3203.5	541.4	425.9	480.9	597.6	792.4	993.7	965.1	942.0
65°	8973.4	7361.2	2679.7	479.8	400.6	483.1	593.2	857.3	911.2	808.9	794.6
67.5°	8648.7	6841.7	2104.1	429.2	377.5	471.0	600.9	796.8	837.5	772.5	751.6
70°	7989.5	6109.9	1426.2	369.8	351.1	453.4	583.3	783.5	826.5	760.4	729.6
72.5°	6945.2	4903.8	834.2	318.0	312.5	417.1	574.5	792.4	839.7	765.9	726.3
75°	5405.6	3437.9	482.0	257.5	260.8	385.2	527.1	747.2	832.0	774.7	723.0
77.5°	3489.6	1669.4	340.1	205.8	203.6	303.7	428.1	653.7	801.2	782.4	739.5
80°	1249.1	609.7	238.8	153.0	148.6	205.8	329.0	526.0	677.9	702.1	702.1
82.5°	449.0	305.9	153.0	93.5	92.4	131.0	245.4	399.5	491.9	554.6	570.1
85°	188.2	133.2	74.8	47.3	38.5	50.6	126.6	247.6	333.4	358.8	390.7
87.5°	27.5	24.2	19.8	15.4	13.2	13.2	16.5	71.5	118.9	170.6	211.3
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)