

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: P510151

Luminaire Tested: **VERD-M-CA4-210-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510151
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-CA4-210-760-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 960mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30079 lumens
Efficiency: N/A
Efficacy: 140.8 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

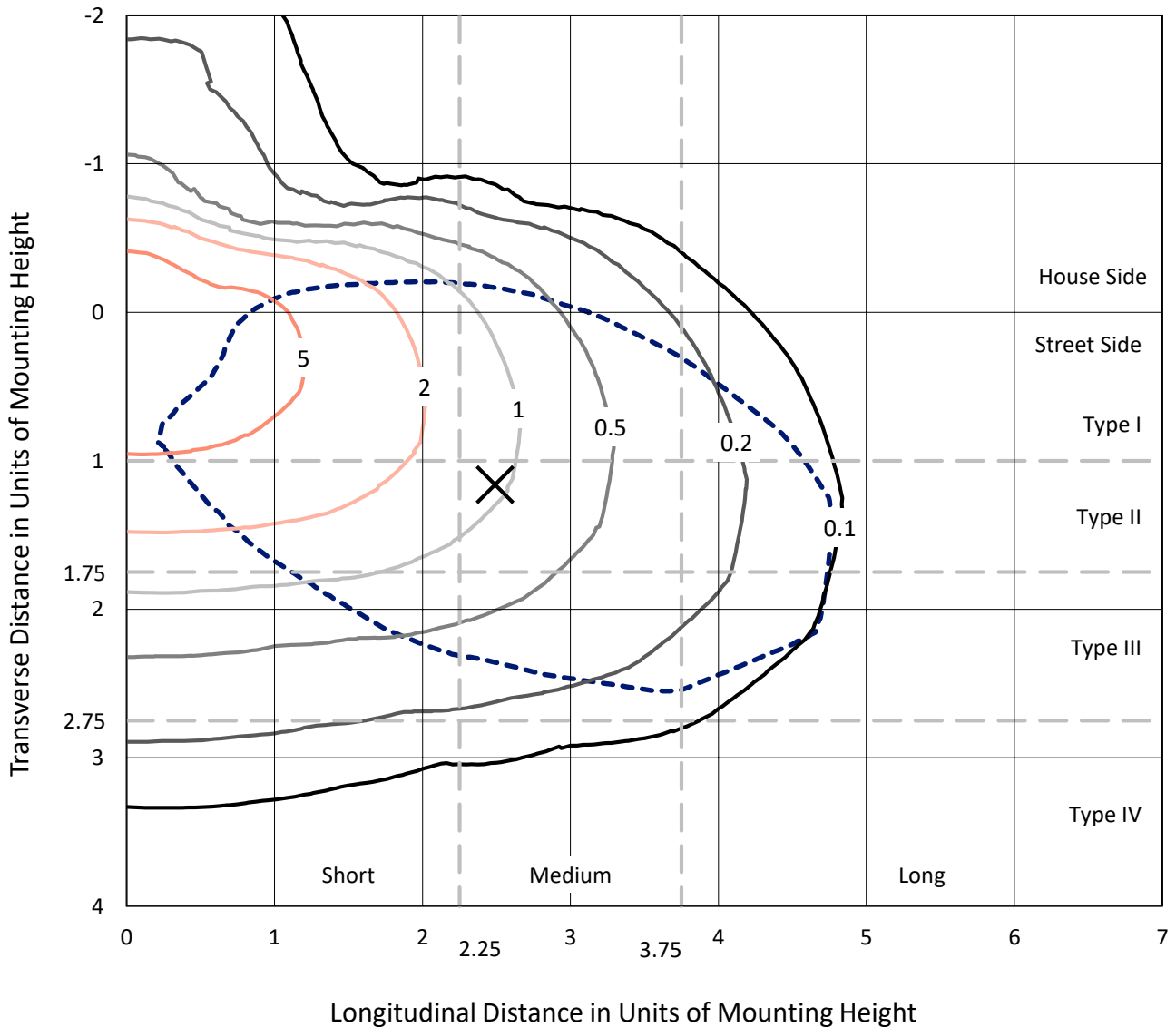
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

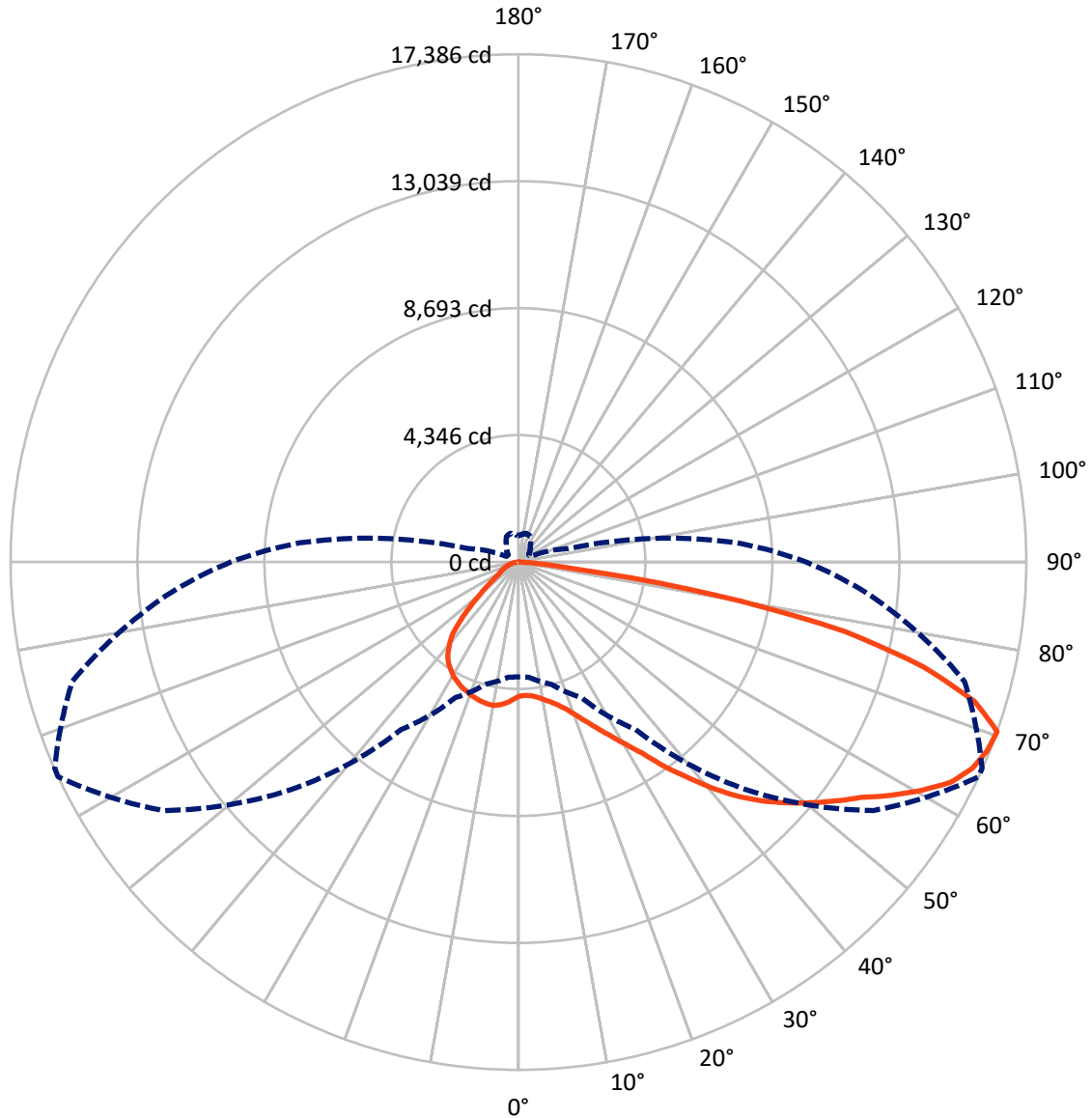
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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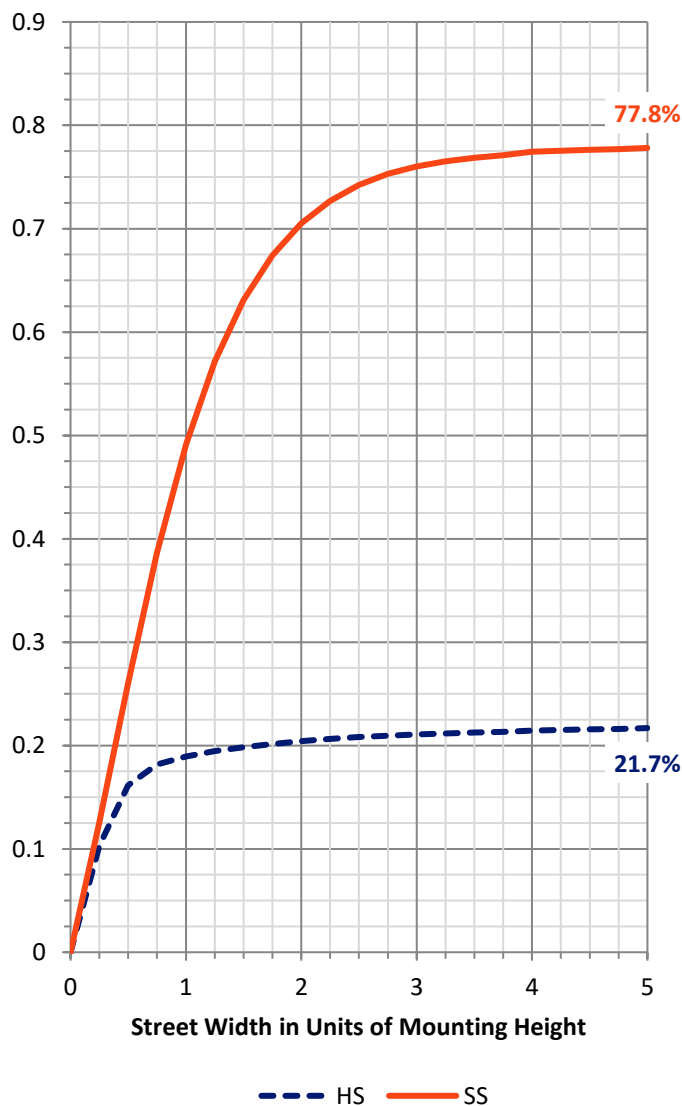
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6635.1	0.0	6635.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	23443.9	0.0	23443.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	30079.0	0.0	30079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.7	1.5
10°-20°	1456.0	4.8
20°-30°	2525.9	8.4
30°-40°	3672.5	12.2
40°-50°	4906.6	16.3
50°-60°	5976.6	19.9
60°-70°	6442.9	21.4
70°-80°	4177.2	13.9
80°-90°	460.7	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°	30079.0	100.0
0°-180°	30079.0	100.0

Coefficient of Utilization



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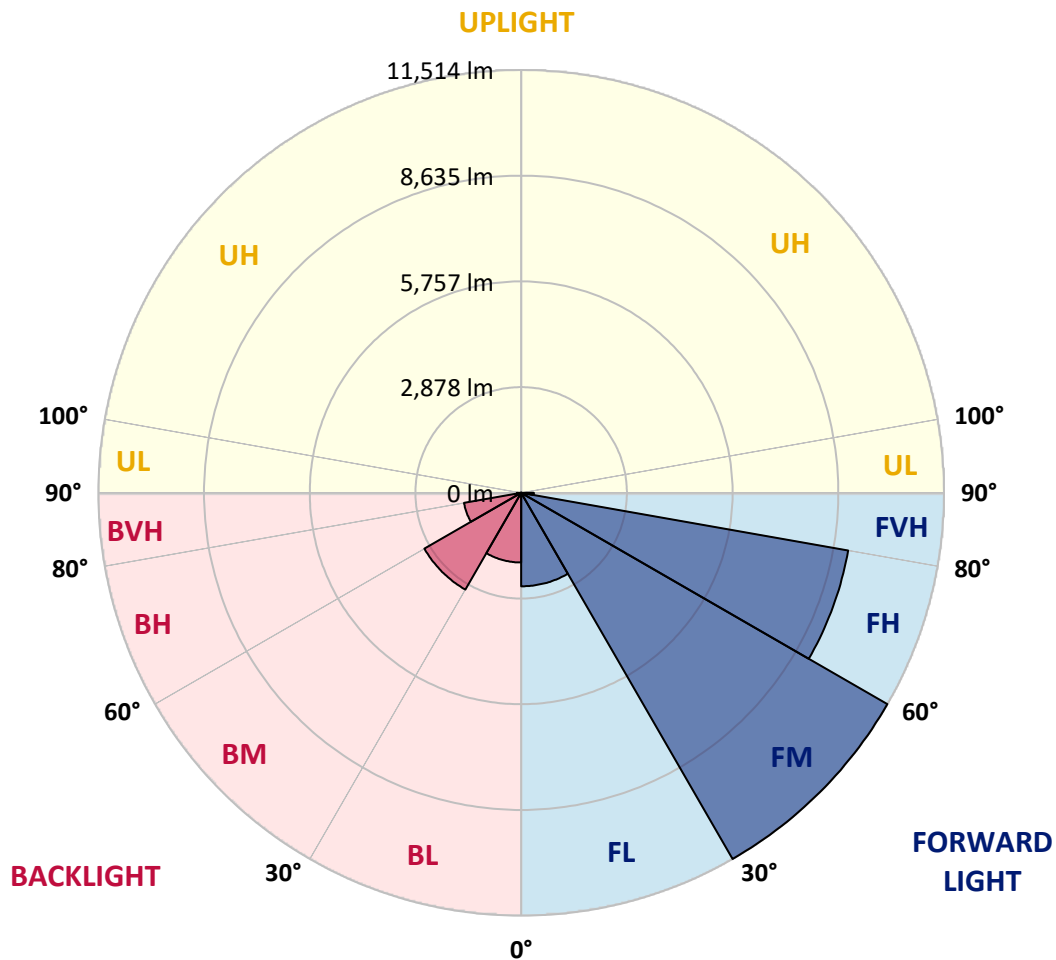
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2545.5	8.5			
FM	(30°-60°)	11513.7	38.3			
FH	(60°-80°)	9041.0	30.1			G4/12000
FVH	(80°-90°)	343.6	1.1			G3/500
BL	(0°-30°)	1897.0	6.3	B3/2500		
BM	(30°-60°)	3042.0	10.1	B3/5000		
BH	(60°-80°)	1579.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	117.1	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°	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2
2.5°	4524.4	4565.1	4543.4	4544.7	4575.9	4550.2	4567.8	4567.8	4566.4	4575.9	4604.4
5°	4635.6	4679.0	4653.2	4637.0	4643.7	4611.2	4604.4	4599.0	4594.9	4605.8	4653.2
7.5°	4798.4	4848.5	4820.1	4805.1	4797.0	4722.4	4708.8	4672.2	4668.2	4677.6	4721.0
10°	5014.0	5081.8	5047.9	5005.9	4977.4	4890.6	4821.4	4788.9	4779.4	4773.9	4818.7
12.5°	5324.6	5384.2	5344.9	5266.3	5228.3	5088.6	5005.9	4913.6	4912.3	4893.3	4927.2
15°	5618.9	5681.3	5631.1	5553.8	5503.6	5315.1	5193.0	5079.1	5065.5	5043.8	5054.7
17.5°	5903.7	5979.6	5944.4	5873.8	5812.8	5602.6	5442.6	5296.1	5281.2	5247.3	5197.1
20°	6257.7	6326.8	6317.3	6253.6	6185.8	5947.1	5772.1	5583.6	5567.3	5506.3	5393.7
22.5°	6611.6	6697.1	6644.2	6633.3	6595.4	6358.0	6113.9	5922.7	5906.4	5826.4	5620.2
25°	6945.3	7021.2	7040.2	7022.6	7026.6	6792.0	6549.2	6309.2	6292.9	6184.4	5886.1
27.5°	7339.9	7411.8	7417.2	7421.3	7468.8	7273.5	6988.7	6741.8	6731.0	6608.9	6230.5
30°	7642.4	7761.7	7786.1	7809.2	7833.6	7729.2	7470.1	7239.6	7217.9	7085.0	6618.4
32.5°	7919.0	8008.6	8095.4	8142.8	8252.7	8159.1	7946.2	7803.8	7805.1	7742.7	7236.9
35°	8133.3	8232.3	8342.2	8515.8	8675.8	8636.5	8570.0	8578.2	8579.5	8606.7	8070.9
37.5°	8338.1	8427.6	8566.0	8773.5	9055.6	9107.1	9151.9	9321.4	9381.1	9508.5	8841.3
40°	8461.5	8556.5	8735.5	9023.0	9389.2	9575.0	9710.6	10146.0	10249.1	10250.4	9436.7
42.5°	8281.2	8385.6	8705.7	9217.0	9690.3	10037.5	10394.2	10943.4	11018.0	10851.2	9945.3
45°	8119.8	8216.1	8560.5	9246.8	9926.3	10531.1	11027.5	11663.6	11717.9	11381.5	10414.5
47.5°	7963.8	8039.7	8438.5	9184.4	10167.7	11026.2	11567.3	12314.6	12353.9	11962.0	10872.9
50°	7748.2	7839.0	8262.2	9111.2	10312.8	11450.7	12096.2	12957.4	12952.0	12484.1	11287.9
52.5°	7512.2	7601.7	8056.0	8976.9	10407.7	11780.2	12698.4	13586.7	13590.8	13083.6	11698.9
55°	7215.2	7325.0	7803.8	8795.2	10430.8	12039.3	13220.6	14232.3	14298.8	13695.2	12094.9
57.5°	6859.8	6969.7	7493.2	8529.3	10293.8	12256.3	13778.0	15056.9	15092.2	14320.5	12390.5
60°	6446.2	6579.1	7079.5	8174.0	10032.1	12508.5	14453.4	15865.2	15877.4	14879.2	12637.4
62.5°	5967.4	6062.4	6588.6	7658.6	9614.3	12608.9	15012.1	16607.1	16609.8	15301.0	12748.6
65°	5449.3	5486.0	5926.7	6957.5	9005.4	12444.8	15226.4	17058.7	17046.5	15671.3	12693.0
67.5°	4832.3	4814.6	5285.2	6090.8	8235.0	11898.2	15122.0	17290.6	17327.2	15956.1	12514.0
70°	3929.0	3954.8	4329.1	5121.1	6991.4	11020.7	14834.5	17385.5	17376.1	15813.7	11937.6
72.5°	2982.4	3028.5	3299.7	3893.7	5426.3	9268.5	13603.0	16335.8	16354.8	14810.1	10900.0
75°	1844.5	1977.4	2206.6	2568.7	3400.1	6640.1	11578.2	14309.6	14405.9	13067.3	8975.5
77.5°	808.3	839.5	954.8	1238.2	1778.0	3333.6	8559.2	11427.6	11712.4	10567.8	6474.7
80°	500.4	500.4	533.0	621.2	793.4	1239.6	3429.9	6823.2	6534.3	6044.7	2856.2
82.5°	416.4	416.4	432.6	447.6	406.9	524.9	1147.4	1912.3	2049.3	1658.7	877.5
85°	226.5	231.9	233.3	237.3	233.3	283.5	451.6	565.5	572.3	518.1	311.9
87.5°	82.7	88.2	85.4	80.0	71.9	67.8	86.8	88.2	90.9	84.1	46.1
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°	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2	4592.2
2.5°	4623.4	4642.4	4692.6	4696.6	4715.6	4722.4	4738.7	4761.7	4802.4	4782.1	4759.0
5°	4676.3	4700.7	4780.7	4821.4	4874.3	4905.5	4957.0	4982.8	5045.2	5024.8	5022.1
7.5°	4756.3	4807.8	4879.7	4919.1	4988.2	5008.6	5046.5	5046.5	5098.1	5072.3	5065.5
10°	4864.8	4898.7	4974.7	4977.4	5016.7	5016.7	5061.5	5033.0	5083.2	5053.3	5052.0
12.5°	4951.6	4970.6	4999.1	4976.0	4996.4	4973.3	4996.4	4962.5	4993.6	4955.7	4947.5
15°	5049.3	5023.5	4995.0	4940.8	4923.1	4886.5	4867.5	4832.3	4835.0	4791.6	4784.8
17.5°	5159.1	5092.7	5009.9	4891.9	4826.8	4733.3	4693.9	4643.7	4615.3	4575.9	4593.6
20°	5292.0	5193.0	5020.8	4837.7	4699.3	4556.9	4464.7	4383.3	4376.6	4341.3	4322.3
22.5°	5464.3	5305.6	5068.2	4760.4	4538.0	4334.5	4197.5	4061.9	4048.4	3976.5	3949.4
25°	5677.2	5454.8	5092.7	4700.7	4349.4	4070.1	3854.4	3665.9	3575.0	3499.1	3481.4
27.5°	5963.4	5674.5	5141.5	4593.6	4127.0	3741.8	3432.6	3183.1	3074.6	3036.6	2997.3
30°	6298.3	5943.0	5232.3	4504.0	3863.9	3322.8	2945.7	2648.7	2530.7	2471.1	2452.1
32.5°	6792.0	6282.1	5316.4	4356.2	3545.2	2861.7	2370.7	2042.5	1970.6	1959.8	1985.5
35°	7510.8	6919.5	5438.5	4219.2	3170.9	2349.0	1806.5	1592.2	1577.3	1580.0	1580.0
37.5°	8259.5	7527.1	5800.6	4017.2	2712.5	1768.5	1375.2	1258.6	1264.0	1264.0	1262.7
40°	8747.7	8015.3	6063.7	3731.0	2142.8	1268.1	1019.9	931.7	969.7	1021.2	1048.4
42.5°	9286.1	8458.8	6245.5	3401.4	1490.5	896.5	741.9	773.1	884.3	962.9	973.8
45°	9744.5	8835.9	6265.8	2888.8	960.2	680.8	676.8	766.3	895.1	980.6	987.3
47.5°	10137.8	9179.0	6138.3	2302.9	699.8	636.1	676.8	789.3	906.0	958.9	964.3
50°	10518.9	9451.6	5838.6	1769.9	637.4	619.8	684.9	793.4	866.6	903.3	897.8
52.5°	10858.0	9699.8	5404.6	1380.6	613.0	608.9	691.7	789.3	835.4	832.7	828.7
55°	11115.7	9773.0	5065.5	1076.8	592.7	602.2	695.7	793.4	827.3	802.9	797.5
57.5°	11248.6	9682.1	4780.7	855.8	571.0	595.4	706.6	792.0	851.7	897.8	895.1
60°	11245.9	9579.1	4429.5	737.8	549.3	590.0	724.2	859.9	1075.5	1118.9	1120.2
62.5°	11202.5	9402.8	3948.0	667.3	524.9	592.7	736.4	976.5	1224.7	1189.4	1160.9
65°	11058.7	9071.8	3302.4	591.3	493.7	595.4	731.0	1056.5	1123.0	996.8	979.2
67.5°	10658.6	8431.7	2593.1	528.9	465.2	580.5	740.5	981.9	1032.1	952.1	926.3
70°	9846.3	7529.8	1757.7	455.7	432.6	558.8	718.8	965.6	1018.5	937.2	899.2
72.5°	8559.2	6043.4	1028.0	392.0	385.2	514.0	708.0	976.5	1034.8	943.9	895.1
75°	6661.8	4236.9	594.0	317.4	321.4	474.7	649.6	920.9	1025.3	954.8	891.0
77.5°	4300.6	2057.4	419.1	253.6	250.9	374.3	527.6	805.6	987.3	964.3	911.4
80°	1539.3	751.4	294.3	188.5	183.1	253.6	405.5	648.3	835.4	865.3	865.3
82.5°	553.3	377.0	188.5	115.3	113.9	161.4	302.4	492.3	606.2	683.5	702.5
85°	231.9	164.1	92.2	58.3	47.5	62.4	156.0	305.2	410.9	442.1	481.5
87.5°	33.9	29.8	24.4	19.0	16.3	16.3	20.3	88.2	146.5	210.2	260.4
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)