

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: P510286

Luminaire Tested: **VERD-M-CA4-240-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-240-750-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1090mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31806 lumens
Efficiency: N/A
Efficacy: 131.3 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

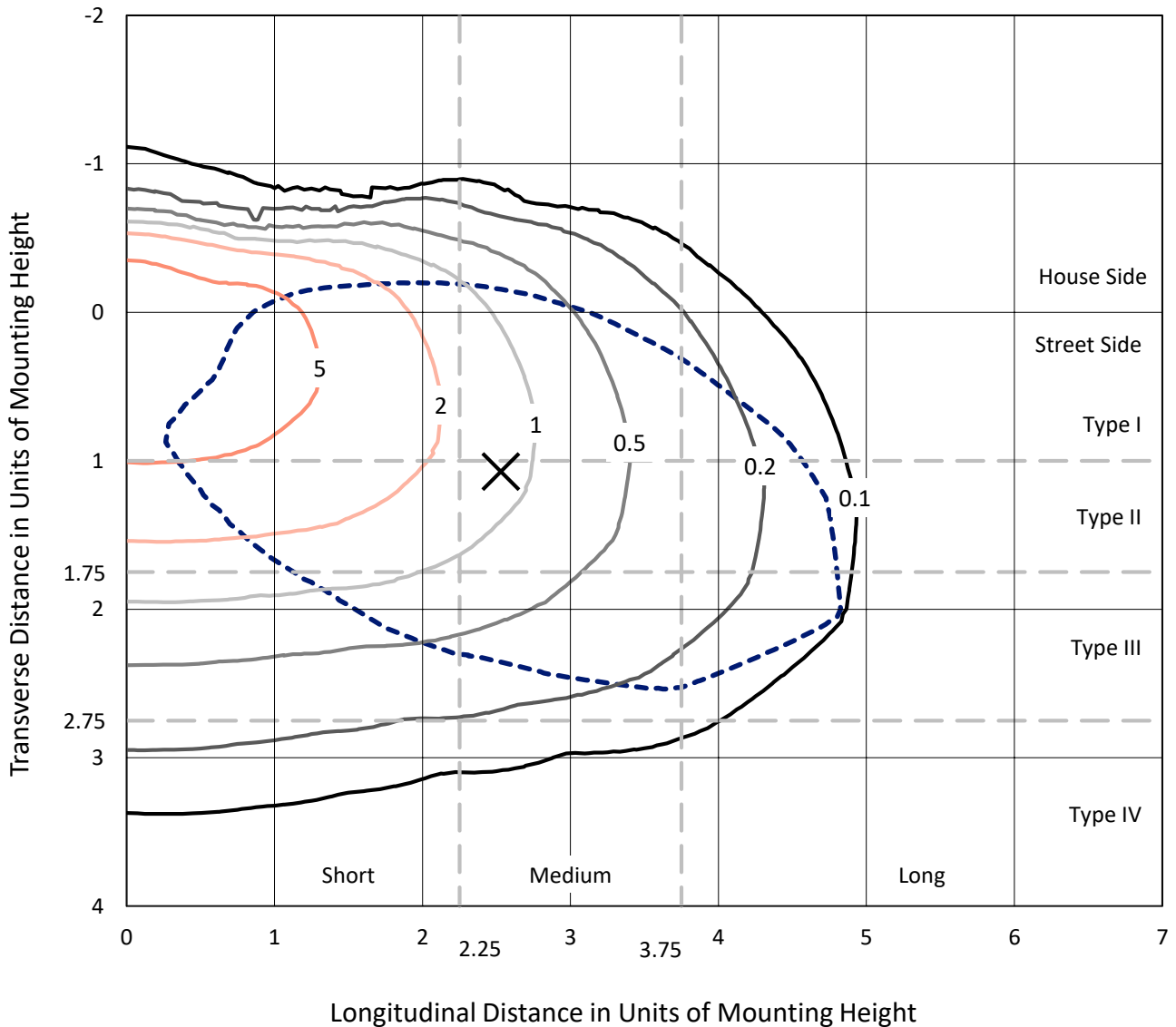
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

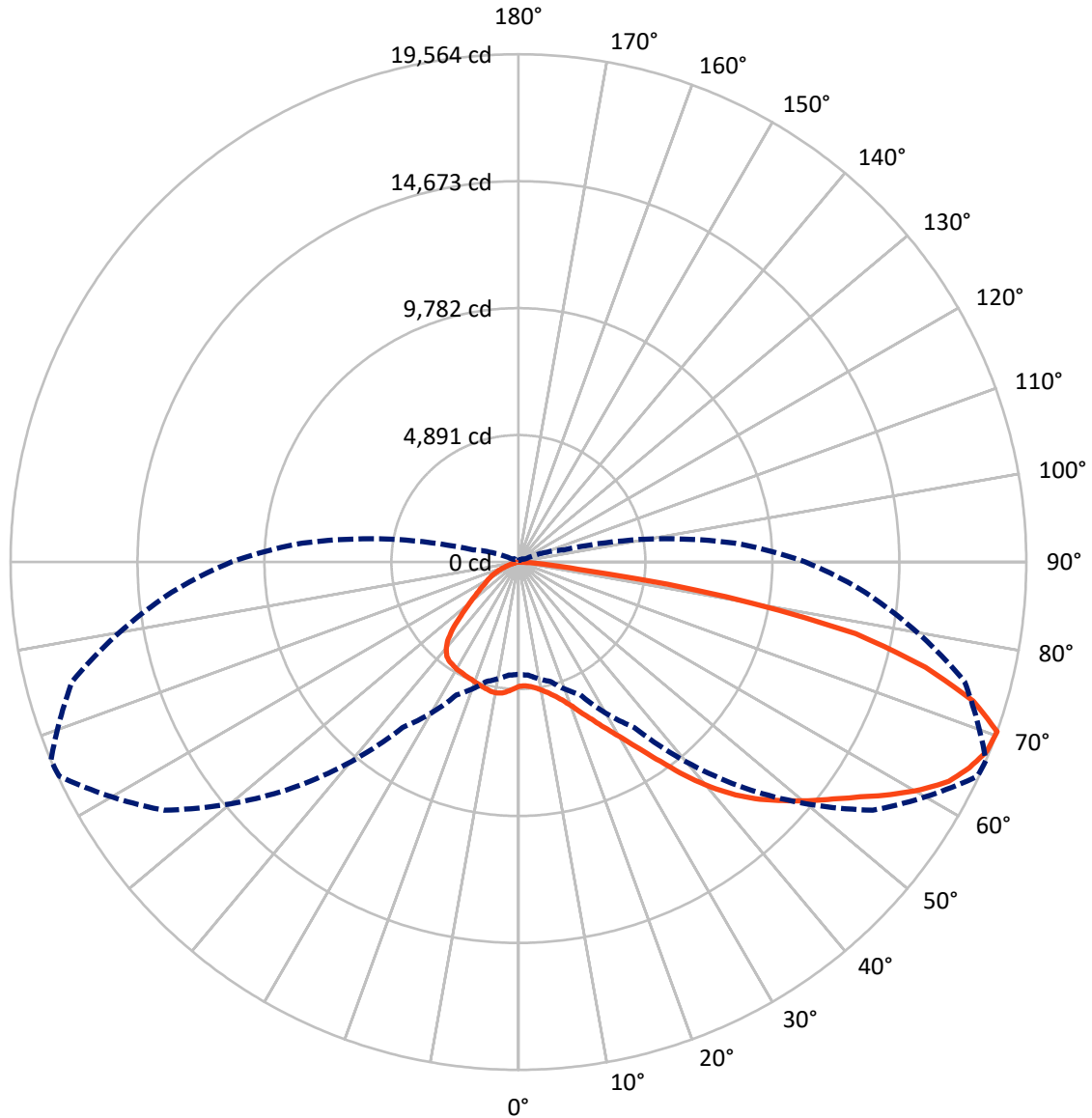
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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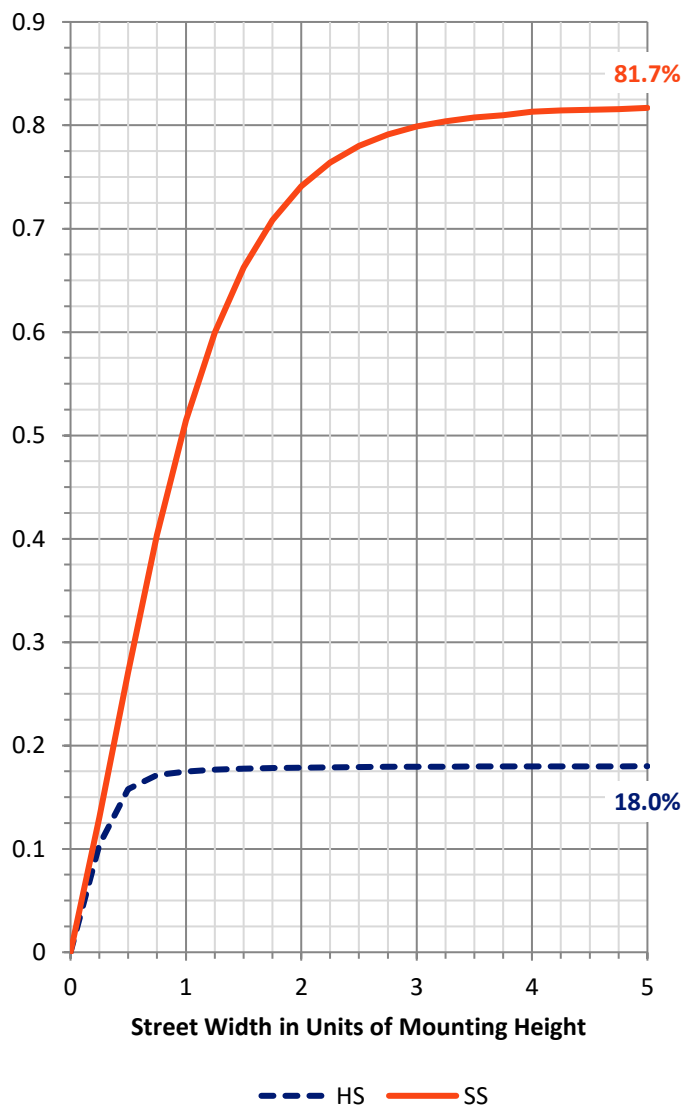
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5795.3	0.0	5795.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	26010.7	0.0	26010.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	31806.0	0.0	31806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.7	1.5
10°-20°	1487.1	4.7
20°-30°	2580.2	8.1
30°-40°	3832.1	12.0
40°-50°	5257.4	16.5
50°-60°	6456.4	20.3
60°-70°	6922.0	21.8
70°-80°	4394.2	13.8
80°-90°	399.9	1.3
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°	31806.0	100.0
0°-180°	31806.0	100.0

Coefficient of Utilization



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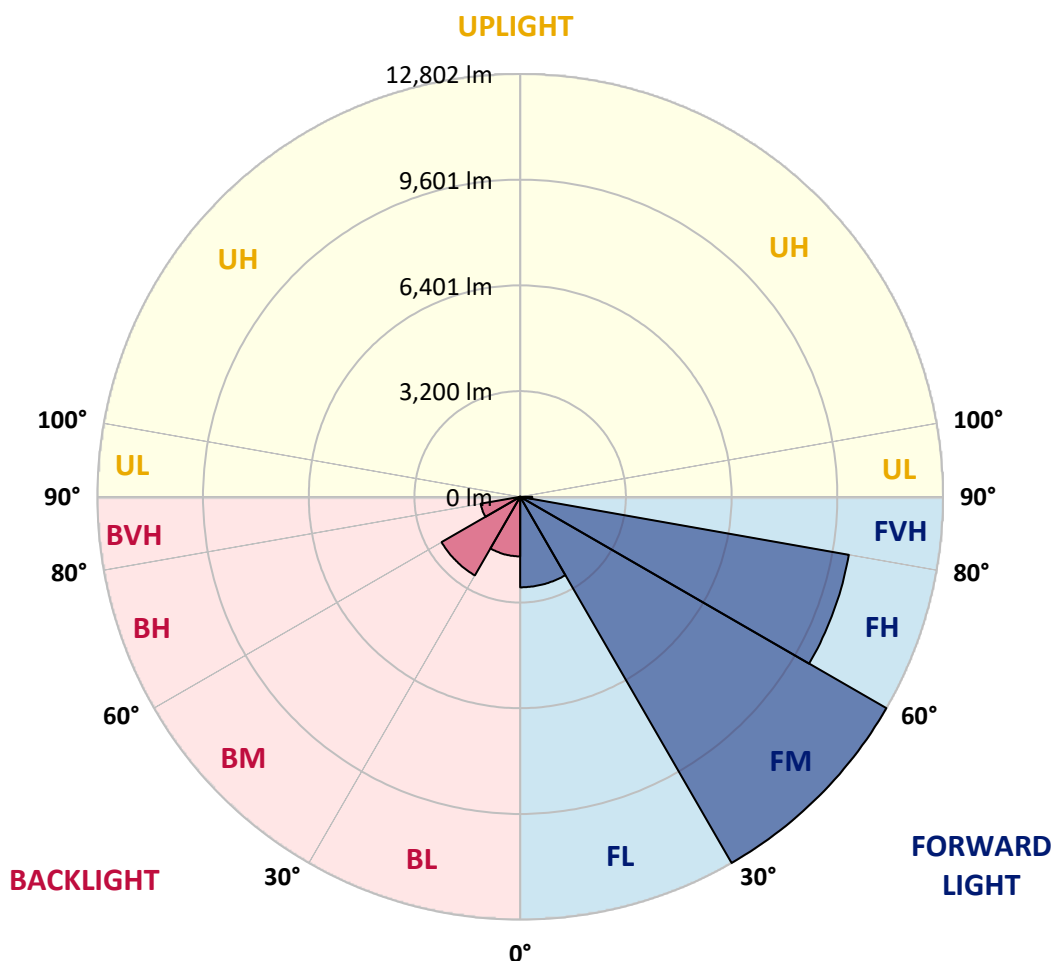
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2740.4	8.6			
FM	(30°-60°)	12801.6	40.2			
FH	(60°-80°)	10104.0	31.8			G4/12000
FVH	(80°-90°)	364.7	1.1			G3/500
BL	(0°-30°)	1803.6	5.7	B3/2500		
BM	(30°-60°)	2744.4	8.6	B3/5000		
BH	(60°-80°)	1212.2	3.8	B3/2500		G3/2500
BVH	(80°-90°)	35.1	0.1			G1/100
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°	67°	75°	85°
0°	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3
2.5°	4741.2	4785.9	4759.7	4756.6	4787.4	4758.2	4778.2	4773.6	4770.5	4775.1	4807.4
5°	4865.9	4918.2	4882.8	4872.1	4889.0	4836.7	4832.0	4821.3	4818.2	4819.7	4865.9
7.5°	5039.8	5101.3	5087.5	5059.8	5050.6	4964.4	4949.0	4910.5	4898.2	4901.3	4947.5
10°	5313.7	5375.3	5347.6	5286.0	5247.5	5149.0	5093.6	5044.4	5019.8	5022.9	5072.1
12.5°	5664.6	5723.0	5676.9	5564.5	5543.0	5384.5	5298.3	5193.7	5176.7	5152.1	5204.4
15°	5995.4	6046.2	6024.7	5920.0	5861.5	5673.8	5515.3	5386.0	5370.6	5347.6	5346.0
17.5°	6361.7	6412.5	6372.4	6295.5	6218.6	5995.4	5824.6	5658.4	5618.4	5598.4	5526.1
20°	6752.5	6832.6	6824.9	6761.8	6669.4	6407.8	6166.2	5978.5	5935.4	5898.5	5746.1
22.5°	7155.7	7260.4	7237.3	7203.4	7165.0	6871.0	6589.4	6372.4	6340.1	6261.7	6021.6
25°	7602.0	7674.3	7657.4	7674.3	7648.2	7388.1	7080.3	6815.6	6772.6	6698.7	6330.9
27.5°	8034.4	8109.8	8139.1	8103.7	8120.6	7934.4	7569.7	7332.7	7291.2	7155.7	6703.3
30°	8425.3	8519.2	8560.7	8576.1	8633.0	8440.7	8171.4	7883.6	7869.8	7731.3	7194.2
32.5°	8737.7	8842.3	8943.9	9010.1	9100.9	9016.2	8748.5	8574.6	8576.1	8451.5	7931.3
35°	8963.9	9083.9	9231.7	9407.1	9597.9	9562.5	9404.0	9407.1	9431.7	9473.3	8871.6
37.5°	9214.7	9311.7	9485.6	9730.3	10021.1	10095.0	10073.4	10318.1	10438.1	10512.0	9697.9
40°	9364.0	9462.5	9679.5	10008.8	10432.0	10608.9	10807.5	11236.8	11393.8	11316.8	10404.3
42.5°	9199.3	9287.1	9664.1	10233.5	10769.0	11170.6	11526.1	12154.0	12267.8	12017.0	10999.8
45°	8985.4	9099.3	9496.3	10295.0	11067.5	11721.6	12274.0	12952.6	13037.3	12681.8	11526.1
47.5°	8810.0	8910.0	9373.2	10228.8	11343.0	12286.3	12931.1	13706.7	13728.2	13289.7	12070.9
50°	8585.3	8706.9	9190.1	10147.3	11509.2	12786.4	13532.8	14410.0	14457.7	13919.1	12532.5
52.5°	8349.9	8468.4	8968.5	10013.4	11629.2	13201.9	14157.6	15157.8	15162.5	14585.4	13025.0
55°	8002.1	8128.3	8682.3	9819.5	11666.2	13477.4	14785.4	15921.1	15968.8	15260.9	13471.2
57.5°	7634.3	7742.0	8337.6	9517.9	11529.2	13737.5	15430.2	16769.0	16899.8	16022.7	13854.4
60°	7146.5	7254.2	7883.6	9122.4	11238.3	14029.9	16168.9	17790.8	17804.7	16639.8	14133.0
62.5°	6621.7	6715.6	7294.2	8502.2	10787.5	14142.2	16802.9	18608.0	18606.4	17189.1	14271.5
65°	5998.5	6037.0	6626.4	7740.5	10087.3	13977.5	17083.0	19146.6	19094.3	17584.6	14225.3
67.5°	5259.8	5301.4	5747.7	6794.1	9071.6	13334.3	16958.3	19406.7	19459.0	17937.0	14025.2
70°	4324.2	4373.5	4762.8	5646.1	7777.4	12307.9	16665.9	19519.0	19563.6	17795.5	13408.1
72.5°	3191.6	3257.8	3496.3	4202.6	5903.1	10341.2	15311.7	18289.4	18314.1	16613.6	12123.2
75°	1982.1	2103.6	2328.3	2793.0	3830.2	7252.7	13088.1	16350.5	16196.6	14819.3	10031.9
77.5°	792.5	812.5	924.9	1308.0	1868.2	3776.4	9487.1	12997.3	13291.2	11857.0	7175.7
80°	461.7	458.6	484.7	609.4	801.7	1291.1	3690.2	7291.2	8126.8	6512.5	3228.5
82.5°	372.4	358.6	358.6	390.9	384.7	543.2	1209.5	2129.8	2336.0	2072.9	918.7
85°	195.4	190.8	155.4	192.4	192.4	270.8	464.7	603.2	637.1	555.5	344.7
87.5°	49.2	49.2	49.2	60.0	47.7	56.9	78.5	95.4	98.5	80.0	50.8
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°	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3	4784.3
2.5°	4819.7	4833.6	4887.4	4879.7	4889.0	4889.0	4904.4	4921.3	4972.1	4942.8	4930.5
5°	4875.1	4902.8	4970.5	4995.2	5032.1	5036.7	5067.5	5078.3	5133.7	5102.9	5102.9
7.5°	4981.3	5013.6	5076.7	5086.0	5102.9	5073.6	5081.3	5047.5	5084.4	5047.5	5049.0
10°	5101.3	5122.9	5166.0	5104.4	5078.3	5009.0	4993.6	4910.5	4939.8	4892.1	4879.7
12.5°	5216.8	5209.1	5176.7	5067.5	4995.2	4881.3	4833.6	4721.2	4715.1	4652.0	4639.7
15°	5326.0	5272.2	5167.5	4998.2	4875.1	4716.6	4602.8	4479.6	4436.6	4364.2	4358.1
17.5°	5459.9	5367.6	5181.4	4932.1	4730.5	4499.6	4338.1	4199.6	4110.3	4044.1	4042.6
20°	5623.0	5481.4	5187.5	4856.7	4581.2	4285.7	4059.5	3884.1	3756.4	3673.3	3671.7
22.5°	5827.7	5635.3	5244.5	4770.5	4390.4	4027.2	3745.6	3442.4	3267.0	3097.7	3067.0
25°	6067.8	5790.8	5293.7	4725.9	4202.6	3757.9	3339.3	2896.1	2623.8	2488.3	2437.6
27.5°	6404.8	6049.3	5366.0	4641.2	4025.7	3425.5	2816.1	2332.9	2005.1	1889.7	1889.7
30°	6794.1	6375.5	5501.4	4590.4	3779.5	2959.2	2242.1	1723.5	1418.8	1244.9	1240.3
32.5°	7388.1	6764.9	5624.6	4481.2	3480.9	2451.4	1622.0	1111.1	866.4	758.7	752.5
35°	8242.2	7506.6	5823.1	4371.9	3048.5	1825.1	1029.5	637.1	494.0	432.4	429.3
37.5°	9063.9	8212.9	6250.9	4154.9	2434.5	1146.5	570.9	367.8	301.6	293.9	290.8
40°	9642.5	8822.3	6552.5	3824.1	1729.7	607.9	330.9	266.2	261.6	258.5	257.0
42.5°	10273.5	9274.8	6766.4	3402.4	1026.4	352.4	269.3	240.1	232.4	229.3	229.3
45°	10785.9	9710.3	6806.4	2799.2	517.1	290.8	246.2	218.5	209.3	215.4	217.0
47.5°	11258.4	10121.1	6671.0	2105.2	349.3	270.8	230.8	203.1	197.0	212.4	212.4
50°	11661.5	10468.9	6360.1	1571.2	327.8	255.5	215.4	187.7	186.2	200.1	201.6
52.5°	12063.2	10749.0	5870.8	1186.5	310.9	238.5	200.1	173.9	169.3	178.5	180.0
55°	12381.7	10849.0	5507.6	883.3	298.5	223.1	186.2	160.0	149.3	147.7	150.8
57.5°	12557.2	10761.3	5152.1	649.4	284.7	209.3	172.4	141.6	124.6	124.6	124.6
60°	12560.2	10655.1	4772.0	514.0	269.3	193.9	157.0	121.6	104.6	101.6	101.6
62.5°	12526.4	10465.8	4219.6	446.3	252.4	181.6	137.0	103.1	90.8	86.2	86.2
65°	12377.1	10108.8	3550.2	381.6	232.4	172.4	117.0	92.3	81.6	75.4	75.4
67.5°	11912.4	9439.4	2733.0	332.4	213.9	152.3	106.2	83.1	72.3	66.2	64.6
70°	11059.8	8357.6	1803.6	283.2	195.4	135.4	96.9	75.4	64.6	58.5	56.9
72.5°	9630.2	6801.8	906.4	240.1	167.7	124.6	87.7	66.2	55.4	49.2	49.2
75°	7546.6	4721.2	494.0	190.8	132.3	109.3	76.9	55.4	47.7	43.1	43.1
77.5°	4627.4	2340.6	337.0	147.7	100.0	89.3	61.6	46.2	41.5	40.0	40.0
80°	1688.1	766.4	226.2	104.6	75.4	69.2	49.2	40.0	38.5	38.5	38.5
82.5°	609.4	389.3	152.3	70.8	47.7	52.3	40.0	33.9	32.3	33.9	35.4
85°	250.8	170.8	55.4	40.0	26.2	27.7	24.6	23.1	24.6	26.2	26.2
87.5°	38.5	33.9	20.0	20.0	15.4	13.8	10.8	12.3	15.4	18.5	18.5
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)