

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: P510279

Luminaire Tested: **VERD-M-CA4-240-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510279
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-CA4-240-740-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1090mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33515 lumens
Efficiency: N/A
Efficacy: 138.3 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

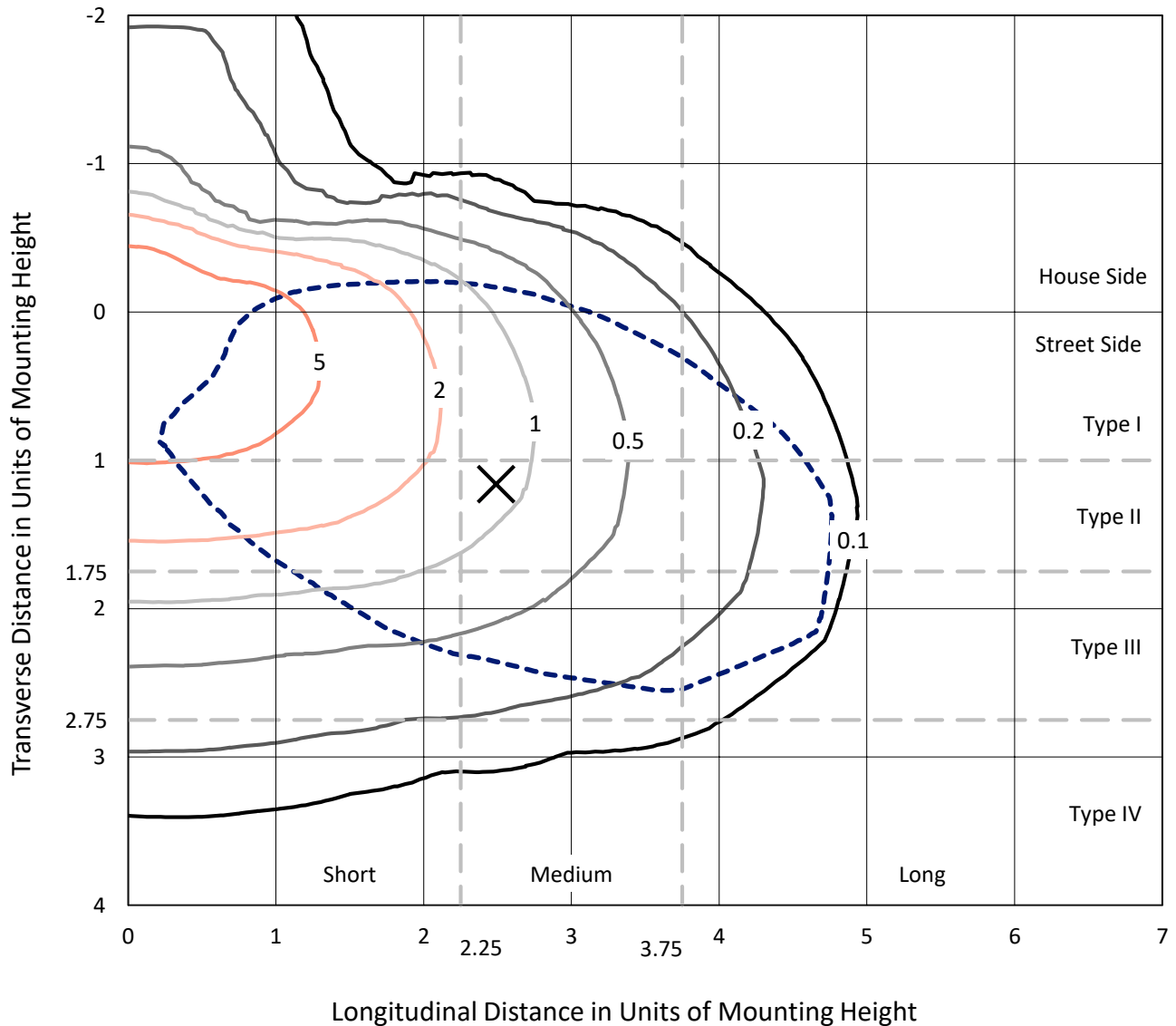
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

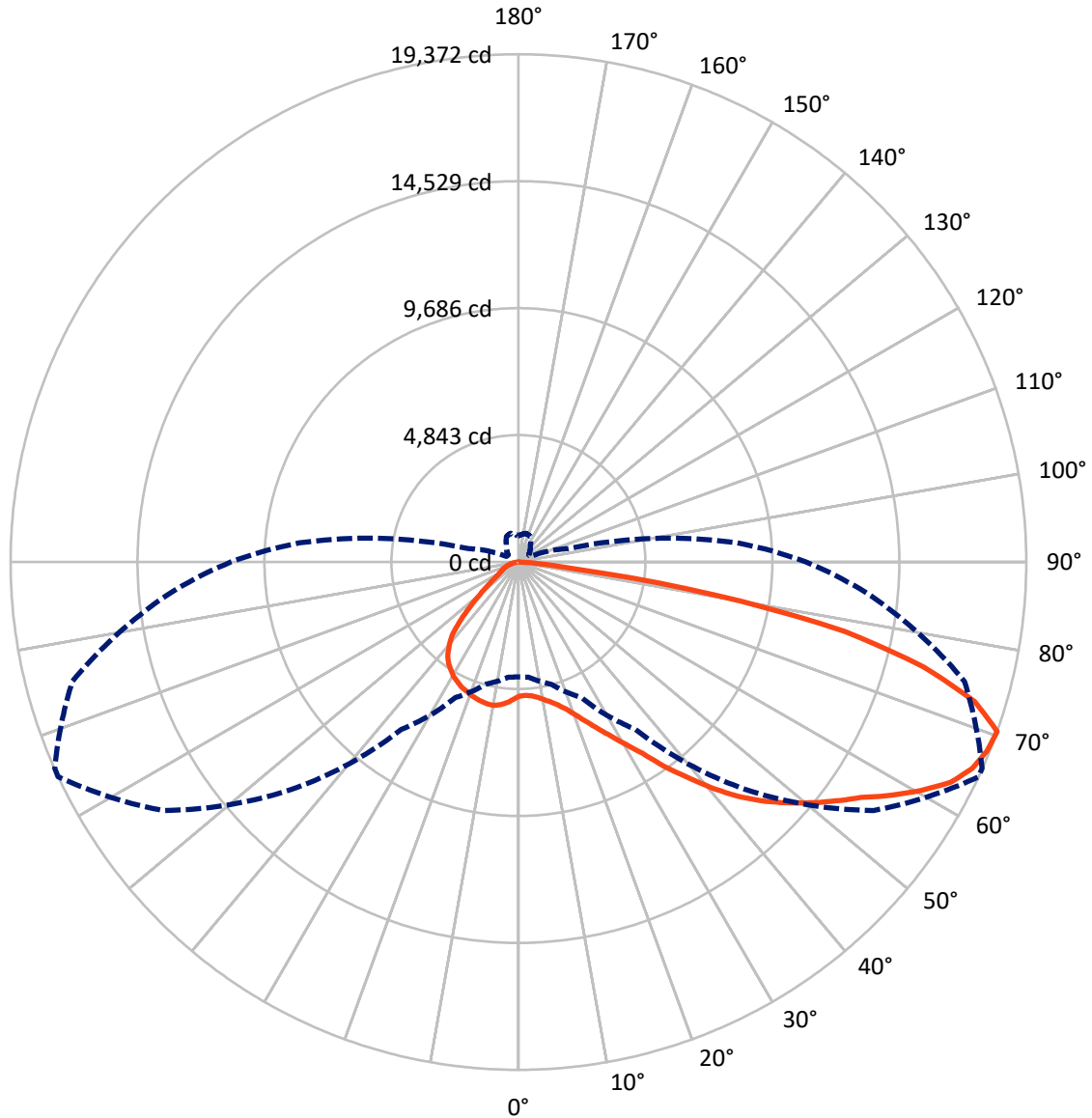
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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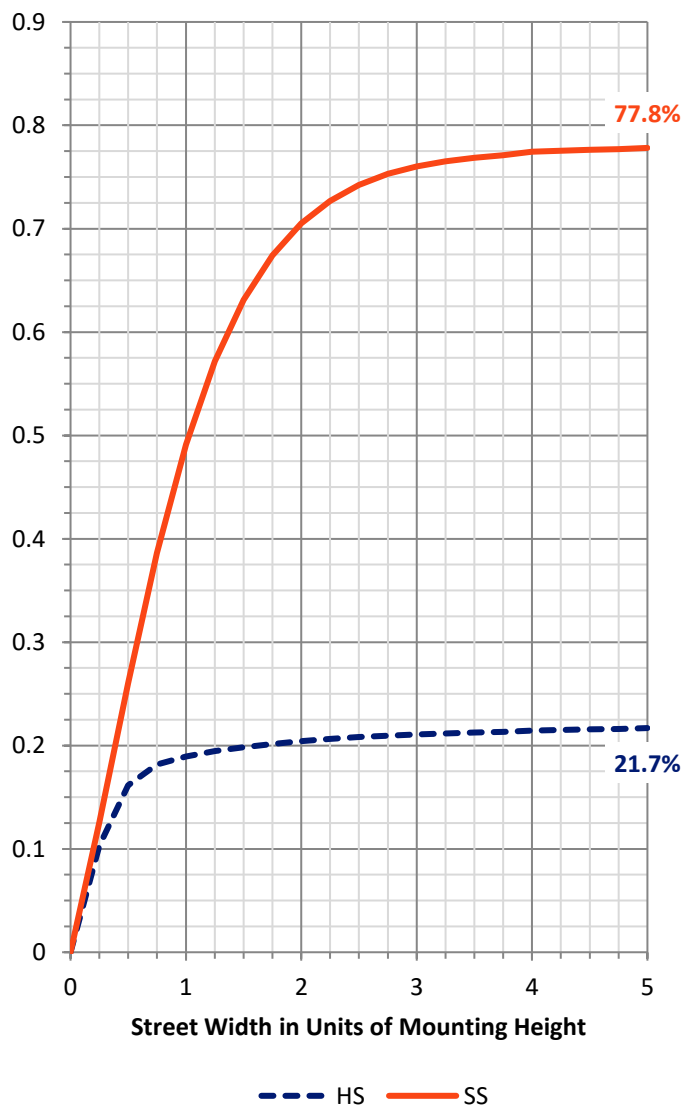
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7393.1	0.0	7393.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26121.9	0.0	26121.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	33515.0	0.0	33515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.3	1.5
10°-20°	1622.3	4.8
20°-30°	2814.4	8.4
30°-40°	4092.0	12.2
40°-50°	5467.0	16.3
50°-60°	6659.3	19.9
60°-70°	7178.9	21.4
70°-80°	4654.3	13.9
80°-90°	513.3	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°	33515.0	100.0
0°-180°	33515.0	100.0

Coefficient of Utilization



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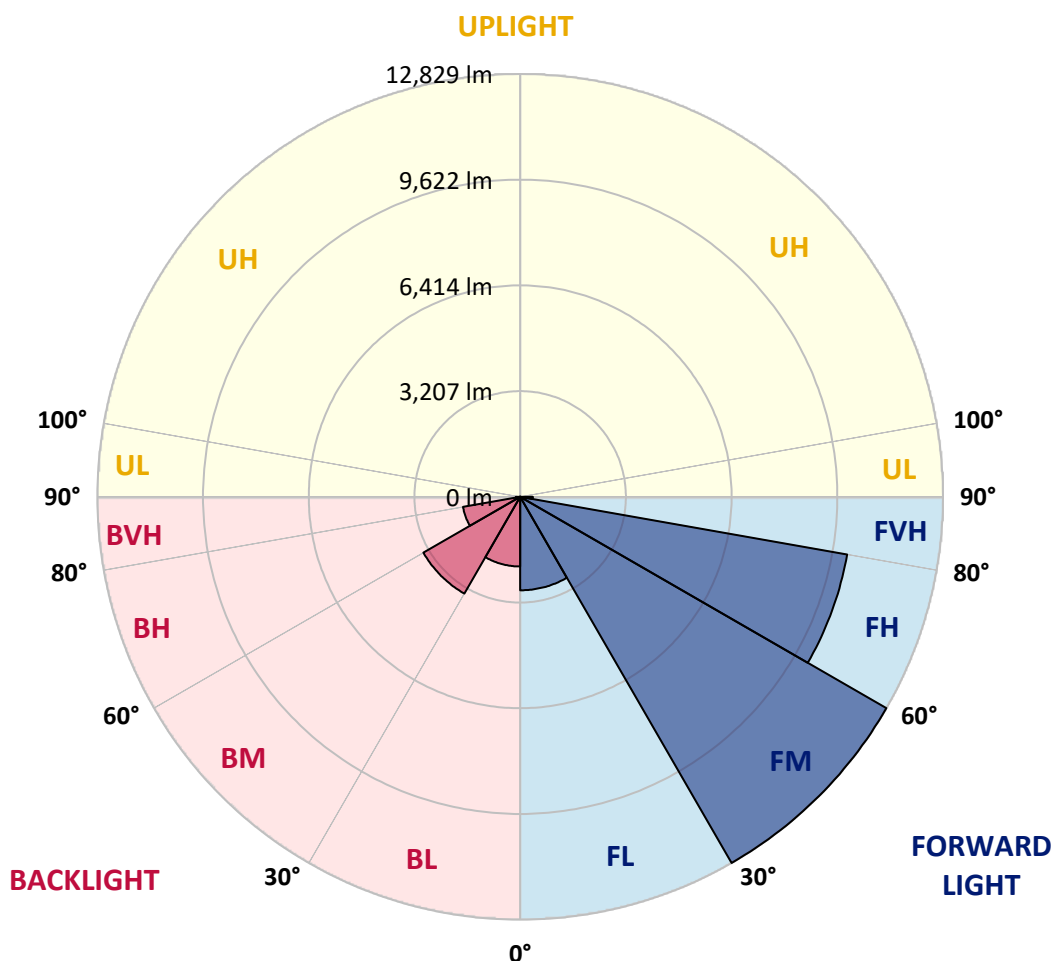
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2836.3	8.5			
FM	(30°-60°)	12828.9	38.3			
FH	(60°-80°)	10073.8	30.1			G4/12000
FVH	(80°-90°)	382.9	1.1			G3/500
BL	(0°-30°)	2113.7	6.3	B3/2500		
BM	(30°-60°)	3389.5	10.1	B3/5000		
BH	(60°-80°)	1759.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	130.5	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°	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8
2.5°	5041.2	5086.6	5062.4	5063.9	5098.6	5069.9	5089.6	5089.6	5088.1	5098.6	5130.4
5°	5165.1	5213.5	5184.8	5166.7	5174.2	5137.9	5130.4	5124.3	5119.8	5131.9	5184.8
7.5°	5346.5	5402.4	5370.7	5354.0	5345.0	5261.9	5246.7	5205.9	5201.4	5212.0	5260.3
10°	5586.8	5662.3	5624.5	5577.7	5546.0	5449.2	5372.2	5335.9	5325.3	5319.3	5369.1
12.5°	5932.8	5999.3	5955.5	5867.8	5825.5	5669.9	5577.7	5474.9	5473.4	5452.3	5490.0
15°	6260.7	6330.2	6274.3	6188.2	6132.3	5922.2	5786.2	5659.3	5644.2	5620.0	5632.1
17.5°	6578.1	6662.7	6623.4	6544.8	6476.8	6242.6	6064.3	5901.1	5884.5	5846.7	5790.8
20°	6972.5	7049.6	7039.0	6968.0	6892.4	6626.4	6431.5	6221.4	6203.3	6135.3	6009.9
22.5°	7366.9	7462.1	7403.2	7391.1	7348.8	7084.3	6812.3	6599.2	6581.1	6491.9	6262.2
25°	7738.6	7823.3	7844.4	7824.8	7829.3	7567.9	7297.4	7029.9	7011.8	6890.9	6558.4
27.5°	8178.4	8258.5	8264.5	8269.1	8322.0	8104.3	7787.0	7512.0	7499.9	7363.9	6942.3
30°	8515.4	8648.4	8675.6	8701.3	8728.5	8612.1	8323.5	8066.6	8042.4	7894.3	7374.5
32.5°	8823.7	8923.4	9020.1	9073.0	9195.4	9091.1	8853.9	8695.2	8696.7	8627.2	8063.5
35°	9062.4	9172.7	9295.1	9488.6	9666.9	9623.1	9549.0	9558.1	9559.6	9589.8	8992.9
37.5°	9290.6	9390.3	9544.5	9775.7	10090.0	10147.4	10197.3	10386.2	10452.7	10594.7	9851.2
40°	9428.1	9533.9	9733.4	10053.7	10461.8	10668.8	10819.9	11305.0	11419.8	11421.3	10514.6
42.5°	9227.1	9343.5	9700.1	10269.8	10797.2	11184.1	11581.5	12193.5	12276.7	12090.8	11081.3
45°	9047.3	9154.6	9538.4	10303.1	11060.2	11734.1	12287.2	12996.0	13056.4	12681.6	11604.2
47.5°	8873.5	8958.1	9402.4	10233.6	11329.2	12285.7	12888.7	13721.3	13765.1	13328.4	12115.0
50°	8633.2	8734.5	9206.0	10152.0	11490.9	12758.7	13478.0	14437.6	14431.6	13910.2	12577.4
52.5°	8370.3	8470.0	8976.3	10002.4	11596.6	13125.9	14149.0	15138.8	15143.3	14578.1	13035.3
55°	8039.4	8161.8	8695.2	9799.9	11622.3	13414.6	14730.8	15858.1	15932.1	15259.7	13476.5
57.5°	7643.4	7765.8	8349.2	9503.7	11469.7	13656.3	15351.9	16776.9	16816.2	15956.3	13805.9
60°	7182.5	7330.6	7888.2	9107.8	11178.0	13937.4	16104.4	17677.5	17691.1	16578.9	14081.0
62.5°	6649.1	6754.9	7341.2	8533.5	10712.6	14049.2	16727.0	18504.1	18507.2	17048.9	14204.9
65°	6071.8	6112.6	6603.8	7752.2	10034.1	13866.4	16965.8	19007.4	18993.8	17461.4	14142.9
67.5°	5384.3	5364.6	5889.0	6786.6	9175.8	13257.4	16849.4	19265.8	19306.6	17778.8	13943.5
70°	4377.8	4406.5	4823.6	5706.1	7790.0	12279.7	16529.1	19371.5	19361.0	17620.1	13301.2
72.5°	3323.0	3374.4	3676.6	4338.5	6046.1	10327.3	15156.9	18201.9	18223.1	16501.9	12145.2
75°	2055.2	2203.3	2458.7	2862.1	3788.5	7398.6	12900.8	15944.2	16051.5	14560.0	10000.8
77.5°	900.7	935.4	1063.9	1379.7	1981.1	3714.4	9536.9	12733.0	13050.4	11774.9	7214.3
80°	557.6	557.6	593.9	692.1	884.0	1381.2	3821.7	7602.6	7280.8	6735.2	3182.5
82.5°	463.9	463.9	482.1	498.7	453.3	584.8	1278.4	2130.7	2283.4	1848.1	977.7
85°	252.4	258.4	259.9	264.5	259.9	315.8	503.2	630.2	637.7	577.3	347.6
87.5°	92.2	98.2	95.2	89.2	80.1	75.6	96.7	98.2	101.2	93.7	51.4
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°	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8	5116.8
2.5°	5151.5	5172.7	5228.6	5233.1	5254.3	5261.9	5280.0	5305.7	5351.0	5328.3	5302.7
5°	5210.5	5237.7	5326.8	5372.2	5431.1	5465.9	5523.3	5552.0	5621.5	5598.8	5595.8
7.5°	5299.6	5357.1	5437.1	5481.0	5558.0	5580.7	5623.0	5623.0	5680.4	5651.7	5644.2
10°	5420.5	5458.3	5542.9	5546.0	5589.8	5589.8	5639.6	5607.9	5663.8	5630.6	5629.1
12.5°	5517.2	5538.4	5570.1	5544.4	5567.1	5541.4	5567.1	5529.3	5564.1	5521.8	5512.7
15°	5626.0	5597.3	5565.6	5505.2	5485.5	5444.7	5423.5	5384.3	5387.3	5338.9	5331.4
17.5°	5748.4	5674.4	5582.2	5450.7	5378.2	5273.9	5230.1	5174.2	5142.5	5098.6	5118.3
20°	5896.5	5786.2	5594.3	5390.3	5236.2	5077.5	4974.7	4884.1	4876.5	4837.2	4816.1
22.5°	6088.5	5911.7	5647.2	5304.2	5056.3	4829.7	4677.0	4525.9	4510.8	4430.7	4400.5
25°	6325.7	6077.9	5674.4	5237.7	4846.3	4535.0	4294.7	4084.7	3983.4	3898.8	3879.1
27.5°	6644.6	6322.7	5728.8	5118.3	4598.5	4169.3	3824.7	3546.7	3425.8	3383.5	3339.7
30°	7017.8	6621.9	5830.1	5018.6	4305.3	3702.3	3282.2	2951.3	2819.8	2753.3	2732.2
32.5°	7567.9	6999.7	5923.7	4853.8	3950.2	3188.5	2641.5	2275.8	2195.7	2183.6	2212.3
35°	8368.8	7709.9	6059.7	4701.2	3533.1	2617.3	2012.9	1774.1	1757.5	1760.5	1760.5
37.5°	9203.0	8386.9	6463.2	4476.1	3022.3	1970.6	1532.3	1402.4	1408.4	1408.4	1406.9
40°	9747.0	8930.9	6756.4	4157.2	2387.6	1412.9	1136.4	1038.2	1080.5	1137.9	1168.1
42.5°	10346.9	9425.1	6958.9	3790.0	1660.8	998.9	826.6	861.4	985.3	1072.9	1085.0
45°	10857.7	9845.2	6981.6	3218.8	1069.9	758.6	754.1	853.8	997.4	1092.6	1100.1
47.5°	11295.9	10227.5	6839.5	2565.9	779.8	708.7	754.1	879.5	1009.5	1068.4	1074.4
50°	11720.5	10531.3	6505.5	1972.1	710.2	690.6	763.1	884.0	965.6	1006.4	1000.4
52.5°	12098.3	10807.8	6022.0	1538.4	683.0	678.5	770.7	879.5	930.9	927.9	923.3
55°	12385.5	10889.4	5644.2	1199.9	660.4	671.0	775.2	884.0	921.8	894.6	888.6
57.5°	12533.6	10788.2	5326.8	953.5	636.2	663.4	787.3	882.5	949.0	1000.4	997.4
60°	12530.5	10673.3	4935.4	822.1	612.0	657.4	807.0	958.1	1198.3	1246.7	1248.2
62.5°	12482.2	10476.9	4399.0	743.5	584.8	660.4	820.6	1088.0	1364.6	1325.3	1293.6
65°	12322.0	10108.1	3679.7	658.9	550.1	663.4	814.5	1177.2	1251.2	1110.7	1091.1
67.5°	11876.2	9394.9	2889.3	589.4	518.3	646.8	825.1	1094.1	1150.0	1060.8	1032.1
70°	10971.0	8390.0	1958.5	507.7	482.1	622.6	800.9	1075.9	1134.9	1044.2	1001.9
72.5°	9536.9	6733.7	1145.5	436.7	429.2	572.7	788.8	1088.0	1153.0	1051.8	997.4
75°	7422.8	4720.9	661.9	353.6	358.1	528.9	723.8	1026.1	1142.4	1063.9	992.8
77.5°	4791.9	2292.4	466.9	282.6	279.6	417.1	587.8	897.6	1100.1	1074.4	1015.5
80°	1715.2	837.2	327.9	210.1	204.0	282.6	451.8	722.3	930.9	964.1	964.1
82.5°	616.6	420.1	210.1	128.4	126.9	179.8	337.0	548.6	675.5	761.6	782.8
85°	258.4	182.9	102.8	65.0	52.9	69.5	173.8	340.0	457.9	492.6	536.5
87.5°	37.8	33.2	27.2	21.2	18.1	18.1	22.7	98.2	163.2	234.2	290.1
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)