

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: P510319

Luminaire Tested: **VERD-M-CA4-250-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510319
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-CA4-250-730-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1130mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34012 lumens
Efficiency: N/A
Efficacy: 135.1 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

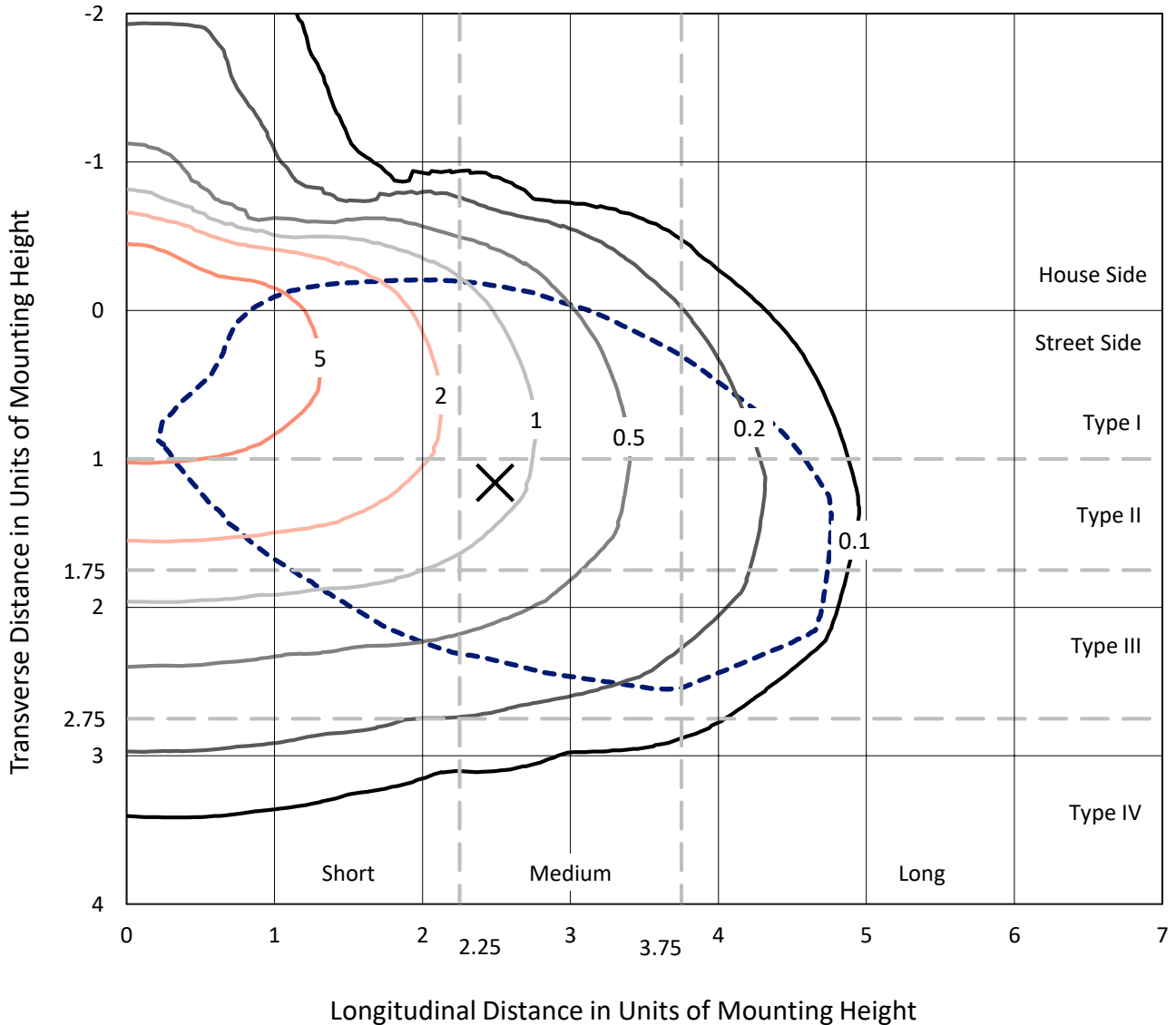
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

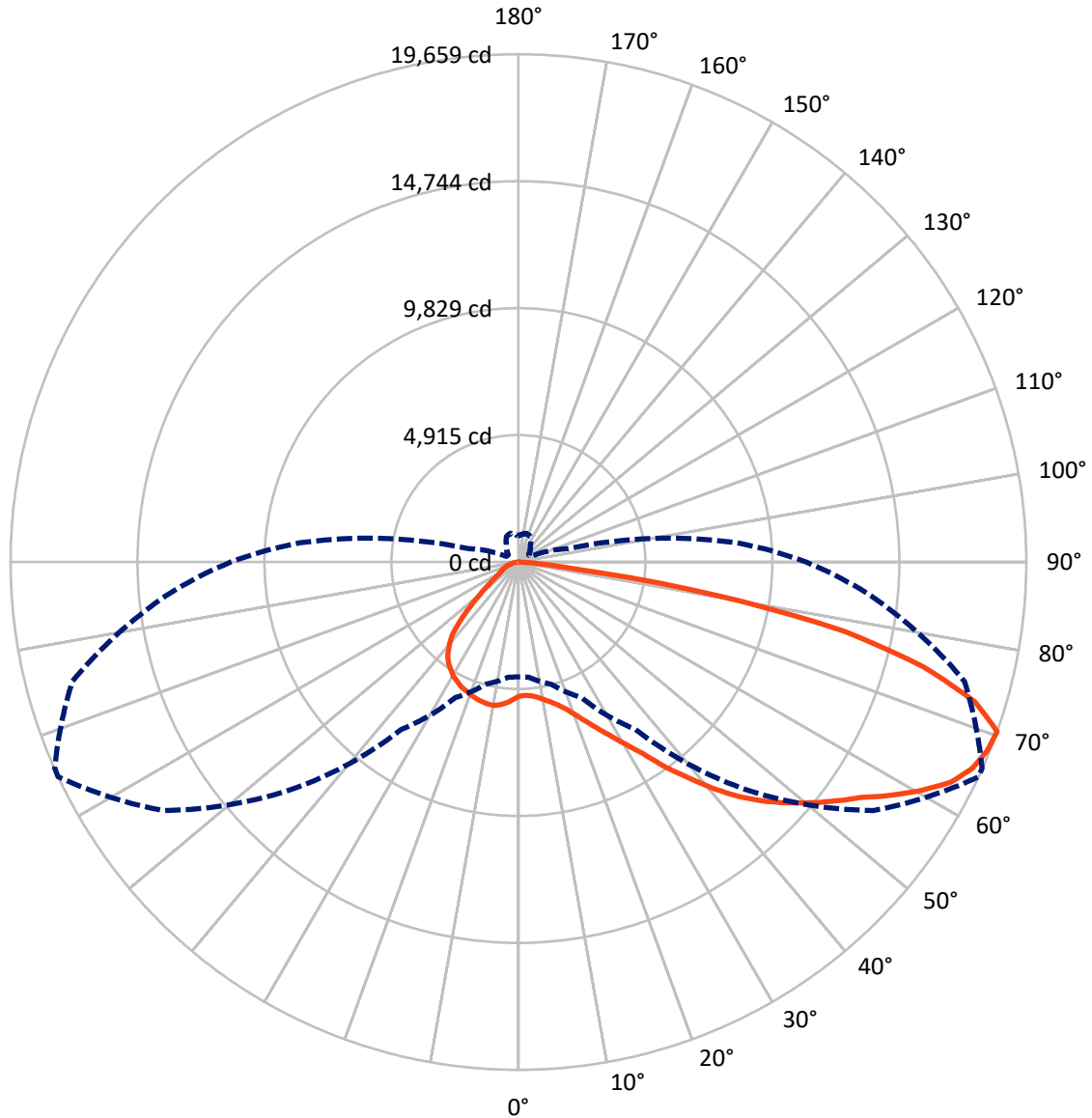
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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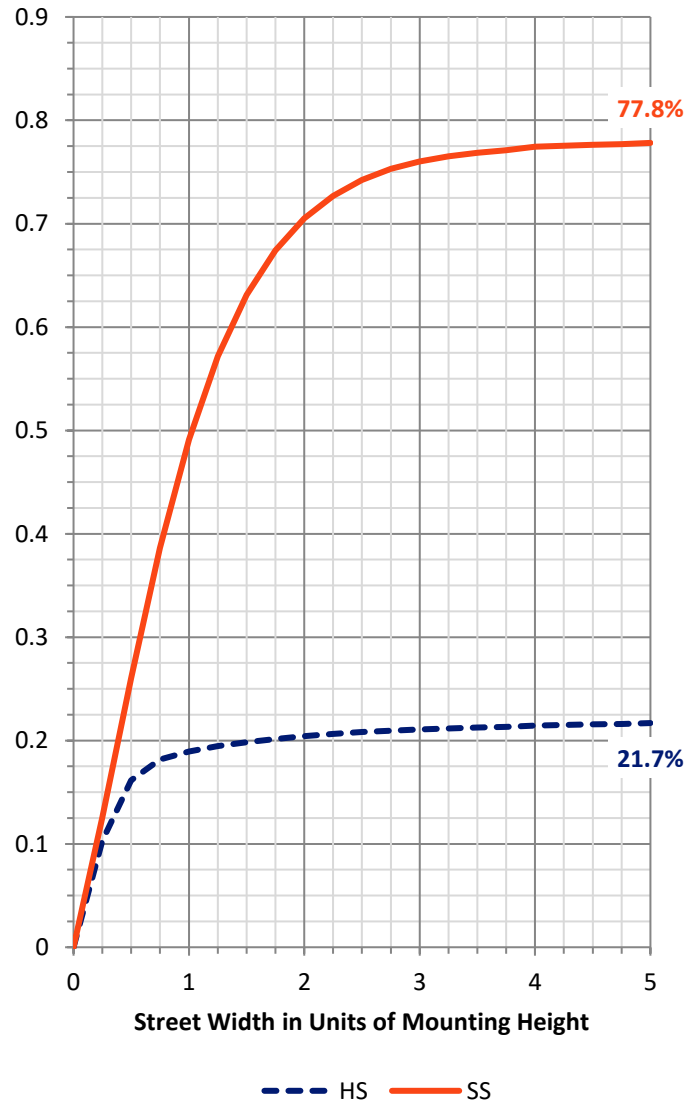
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7502.7	0.0	7502.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26509.3	0.0	26509.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	34012.0	0.0	34012.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.9	1.5
10°-20°	1646.4	4.8
20°-30°	2856.1	8.4
30°-40°	4152.7	12.2
40°-50°	5548.1	16.3
50°-60°	6758.1	19.9
60°-70°	7285.4	21.4
70°-80°	4723.4	13.9
80°-90°	520.9	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°	34012.0	100.0
0°-180°	34012.0	100.0



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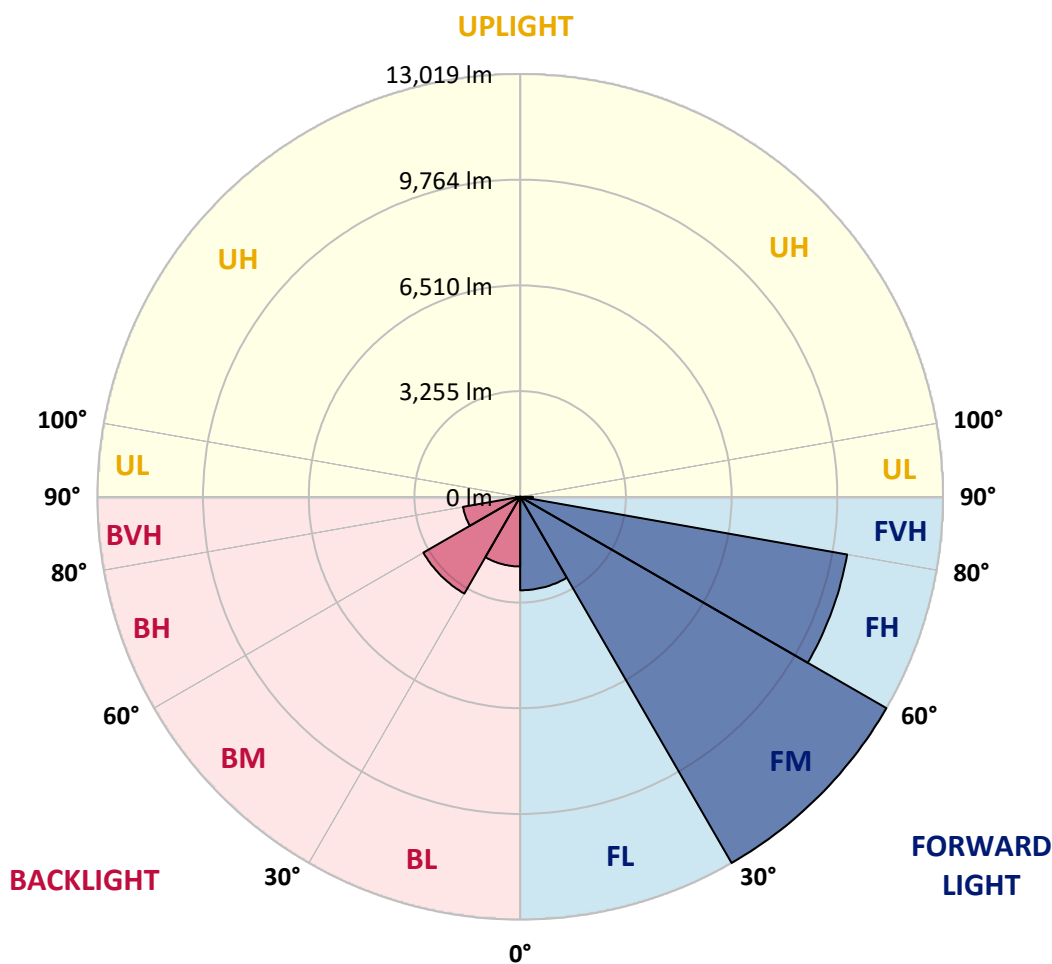
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2878.4	8.5			
FM	(30°-60°)	13019.2	38.3			
FH	(60°-80°)	10223.2	30.1			G4/12000
FVH	(80°-90°)	388.5	1.1			G3/500
BL	(0°-30°)	2145.0	6.3	B3/2500		
BM	(30°-60°)	3439.8	10.1	B3/5000		
BH	(60°-80°)	1785.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	132.4	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°	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7
2.5°	5116.0	5162.0	5137.5	5139.0	5174.3	5145.1	5165.1	5165.1	5163.5	5174.3	5206.5
5°	5241.7	5290.8	5261.7	5243.3	5250.9	5214.1	5206.5	5200.3	5195.7	5208.0	5261.7
7.5°	5425.8	5482.5	5450.3	5433.4	5424.2	5339.9	5324.5	5283.1	5278.5	5289.3	5338.4
10°	5669.6	5746.3	5707.9	5660.4	5628.2	5530.0	5451.8	5415.0	5404.3	5398.2	5448.8
12.5°	6020.8	6088.3	6043.8	5954.8	5911.9	5753.9	5660.4	5556.1	5554.6	5533.1	5571.5
15°	6353.6	6424.1	6367.4	6280.0	6223.2	6010.1	5872.0	5743.2	5727.9	5703.3	5715.6
17.5°	6675.6	6761.5	6721.6	6641.9	6572.9	6335.2	6154.2	5988.6	5971.7	5933.4	5876.6
20°	7075.9	7154.1	7143.4	7071.3	6994.6	6724.7	6526.9	6313.7	6295.3	6226.3	6099.0
22.5°	7476.1	7572.8	7512.9	7500.7	7457.7	7189.4	6913.3	6697.1	6678.7	6588.2	6355.1
25°	7853.4	7939.3	7960.8	7940.8	7945.4	7680.1	7405.6	7134.2	7115.8	6993.1	6655.7
27.5°	8299.7	8380.9	8387.1	8391.7	8445.4	8224.5	7902.5	7623.4	7611.1	7473.1	7045.2
30°	8641.7	8776.6	8804.2	8830.3	8857.9	8739.8	8446.9	8186.2	8161.6	8011.4	7483.8
32.5°	8954.5	9055.7	9153.9	9207.5	9331.8	9225.9	8985.2	8824.2	8825.7	8755.1	8183.1
35°	9196.8	9308.8	9433.0	9629.3	9810.2	9765.8	9690.6	9699.8	9701.4	9732.0	9126.3
37.5°	9428.4	9529.6	9686.0	9920.7	10239.6	10297.9	10348.5	10540.2	10607.7	10751.8	9997.3
40°	9567.9	9675.3	9877.7	10202.8	10616.9	10827.0	10980.3	11472.6	11589.2	11590.7	10670.6
42.5°	9364.0	9482.1	9844.0	10422.1	10957.3	11349.9	11753.3	12374.4	12458.7	12270.1	11245.7
45°	9181.5	9290.4	9679.9	10455.9	11224.2	11908.2	12469.4	13188.7	13250.0	12869.7	11776.3
47.5°	9005.1	9091.0	9541.9	10385.3	11497.2	12467.9	13079.8	13924.8	13969.3	13526.1	12294.6
50°	8761.3	8864.0	9342.5	10302.5	11661.3	12947.9	13677.9	14651.7	14645.6	14116.5	12763.9
52.5°	8494.4	8595.6	9109.4	10150.7	11768.6	13320.6	14358.8	15363.3	15367.9	14794.3	13228.6
55°	8158.6	8282.8	8824.2	9945.2	11794.7	13613.5	14949.2	16093.3	16168.4	15486.0	13676.4
57.5°	7756.8	7881.0	8473.0	9644.6	11639.8	13858.9	15579.5	17025.7	17065.5	16192.9	14010.7
60°	7289.0	7439.3	8005.2	9242.8	11343.8	14144.1	16343.2	17939.7	17953.5	16824.8	14289.8
62.5°	6747.7	6855.0	7450.1	8660.1	10871.5	14257.6	16975.1	18778.5	18781.6	17301.7	14415.5
65°	6161.9	6203.3	6701.7	7867.2	10182.9	14072.0	17217.4	19289.2	19275.4	17720.4	14352.7
67.5°	5464.1	5444.2	5976.3	6887.3	9311.8	13454.0	17099.3	19551.5	19592.9	18042.4	14150.2
70°	4442.7	4471.9	4895.1	5790.8	7905.5	12461.8	16774.2	19658.8	19648.1	17881.4	13498.5
72.5°	3372.3	3424.5	3731.2	4402.9	6135.8	10480.4	15381.7	18471.8	18493.3	16746.6	12325.3
75°	2085.7	2235.9	2495.1	2904.6	3844.7	7508.3	13092.1	16180.7	16289.6	14775.9	10149.2
77.5°	914.0	949.3	1079.6	1400.1	2010.5	3769.5	9678.3	12921.8	13243.9	11949.6	7321.3
80°	565.9	565.9	602.7	702.4	897.1	1401.7	3878.4	7715.4	7388.7	6835.1	3229.7
82.5°	470.8	470.8	489.2	506.1	460.1	593.5	1297.4	2162.3	2317.2	1875.6	992.2
85°	256.1	262.2	263.8	268.4	263.8	320.5	510.7	639.5	647.2	585.8	352.7
87.5°	93.5	99.7	96.6	90.5	81.3	76.7	98.1	99.7	102.7	95.1	52.1
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°	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7
2.5°	5227.9	5249.4	5306.1	5310.7	5332.2	5339.9	5358.3	5384.4	5430.4	5407.4	5381.3
5°	5287.7	5315.3	5405.8	5451.8	5511.6	5546.9	5605.2	5634.3	5704.9	5681.9	5678.8
7.5°	5378.2	5436.5	5517.8	5562.3	5640.5	5663.5	5706.4	5706.4	5764.7	5735.5	5727.9
10°	5500.9	5539.2	5625.1	5628.2	5672.7	5672.7	5723.3	5691.1	5747.8	5714.1	5712.5
12.5°	5599.1	5620.5	5652.7	5626.7	5649.7	5623.6	5649.7	5611.3	5646.6	5603.7	5594.5
15°	5709.5	5680.3	5648.1	5586.8	5566.9	5525.4	5504.0	5464.1	5467.2	5418.1	5410.4
17.5°	5833.7	5758.5	5665.0	5531.6	5458.0	5352.2	5307.7	5250.9	5218.7	5174.3	5194.2
20°	5984.0	5872.0	5677.3	5470.2	5313.8	5152.8	5048.5	4956.5	4948.8	4909.0	4887.5
22.5°	6178.7	5999.3	5730.9	5382.8	5131.3	4901.3	4746.4	4593.0	4577.7	4496.4	4465.8
25°	6419.5	6168.0	5758.5	5315.3	4918.2	4602.2	4358.4	4145.2	4042.5	3956.6	3936.7
27.5°	6743.1	6416.4	5813.8	5194.2	4666.6	4231.1	3881.5	3599.3	3476.6	3433.7	3389.2
30°	7121.9	6720.1	5916.5	5093.0	4369.1	3757.2	3330.9	2995.1	2861.6	2794.2	2772.7
32.5°	7680.1	7103.5	6011.6	4925.8	4008.7	3235.8	2680.7	2309.6	2228.3	2216.0	2245.1
35°	8492.9	7824.3	6149.6	4770.9	3585.5	2656.1	2042.7	1800.4	1783.5	1786.6	1786.6
37.5°	9339.4	8511.3	6559.1	4542.4	3067.1	1999.8	1555.0	1423.2	1429.3	1429.3	1427.8
40°	9891.5	9063.4	6856.6	4218.8	2423.0	1433.9	1153.2	1053.6	1096.5	1154.8	1185.4
42.5°	10500.3	9564.9	7062.1	3846.2	1685.4	1013.7	838.9	874.1	999.9	1088.8	1101.1
45°	11018.7	9991.2	7085.1	3266.5	1085.8	769.9	765.3	866.5	1012.2	1108.8	1116.4
47.5°	11463.4	10379.2	6940.9	2604.0	791.3	719.2	765.3	892.5	1024.4	1084.2	1090.4
50°	11894.4	10687.4	6602.0	2001.3	720.8	700.8	774.5	897.1	979.9	1021.4	1015.2
52.5°	12277.7	10968.1	6111.3	1561.2	693.2	688.6	782.1	892.5	944.7	941.6	937.0
55°	12569.1	11050.9	5727.9	1217.7	670.2	680.9	786.7	897.1	935.5	907.9	901.7
57.5°	12719.4	10948.1	5405.8	967.7	645.6	673.2	799.0	895.6	963.1	1015.2	1012.2
60°	12716.3	10831.6	5008.6	834.3	621.1	667.1	818.9	972.3	1216.1	1265.2	1266.7
62.5°	12667.3	10632.2	4464.2	754.5	593.5	670.2	832.7	1104.2	1384.8	1344.9	1312.7
65°	12504.7	10258.0	3734.2	668.6	558.2	673.2	826.6	1194.6	1269.8	1127.2	1107.2
67.5°	12052.3	9534.2	2932.2	598.1	526.0	656.4	837.3	1110.3	1167.0	1076.6	1047.4
70°	11133.7	8514.4	1987.5	515.3	489.2	631.8	812.8	1091.9	1151.7	1059.7	1016.8
72.5°	9678.3	6833.6	1162.4	443.2	435.5	581.2	800.5	1104.2	1170.1	1067.4	1012.2
75°	7532.9	4790.9	671.7	358.9	363.5	536.7	734.6	1041.3	1159.4	1079.6	1007.6
77.5°	4862.9	2326.4	473.9	286.8	283.7	423.3	596.6	910.9	1116.4	1090.4	1030.6
80°	1740.6	849.6	332.8	213.2	207.0	286.8	458.5	733.0	944.7	978.4	978.4
82.5°	625.7	426.3	213.2	130.4	128.8	182.5	342.0	556.7	685.5	772.9	794.4
85°	262.2	185.6	104.3	65.9	53.7	70.5	176.4	345.1	464.7	499.9	544.4
87.5°	38.3	33.7	27.6	21.5	18.4	18.4	23.0	99.7	165.6	237.7	294.4
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)