

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: P510183

Luminaire Tested: **VERD-M-CA4-220-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510183
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-CA4-220-740-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1000mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31267 lumens
Efficiency: N/A
Efficacy: 140.5 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

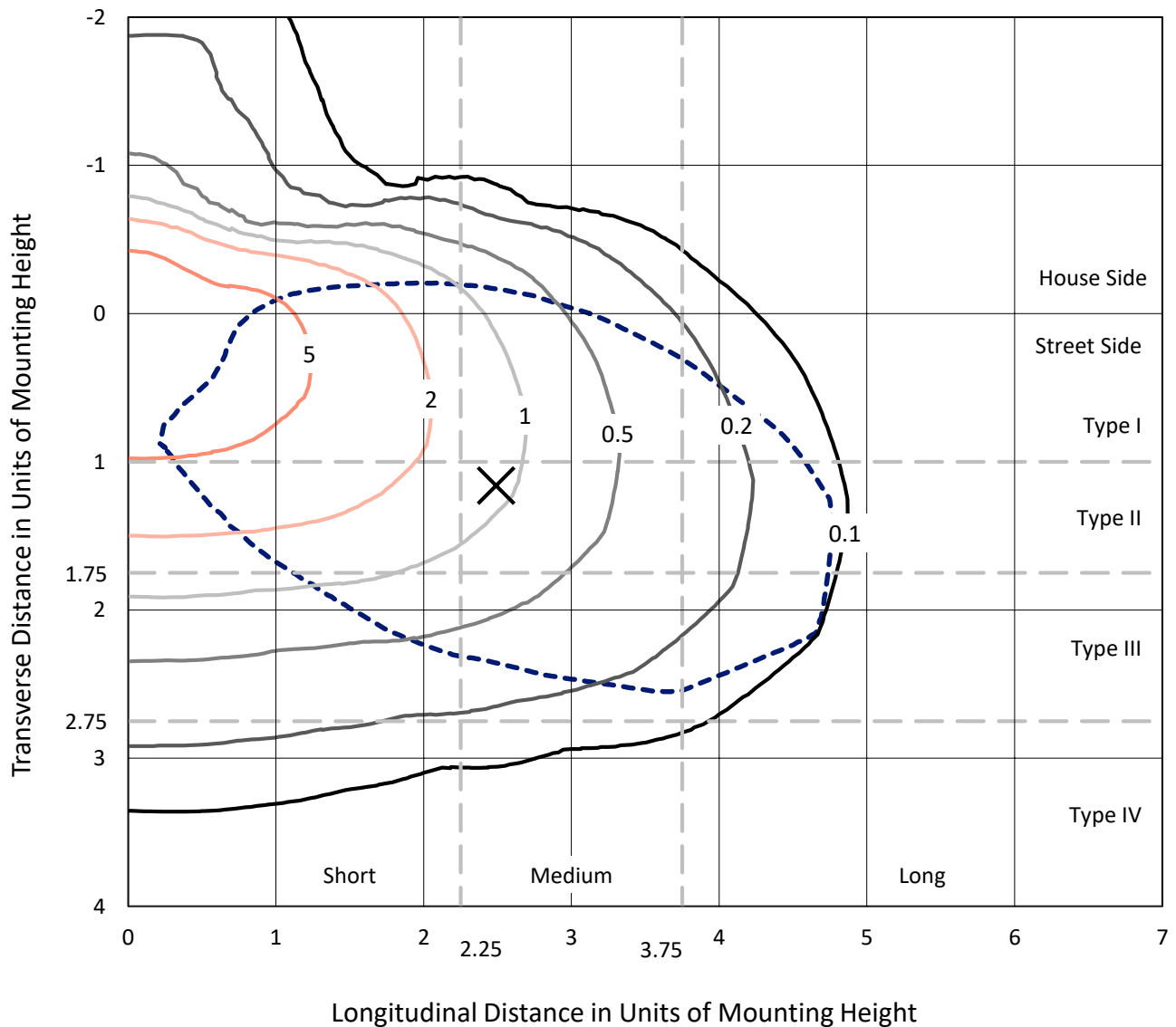
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

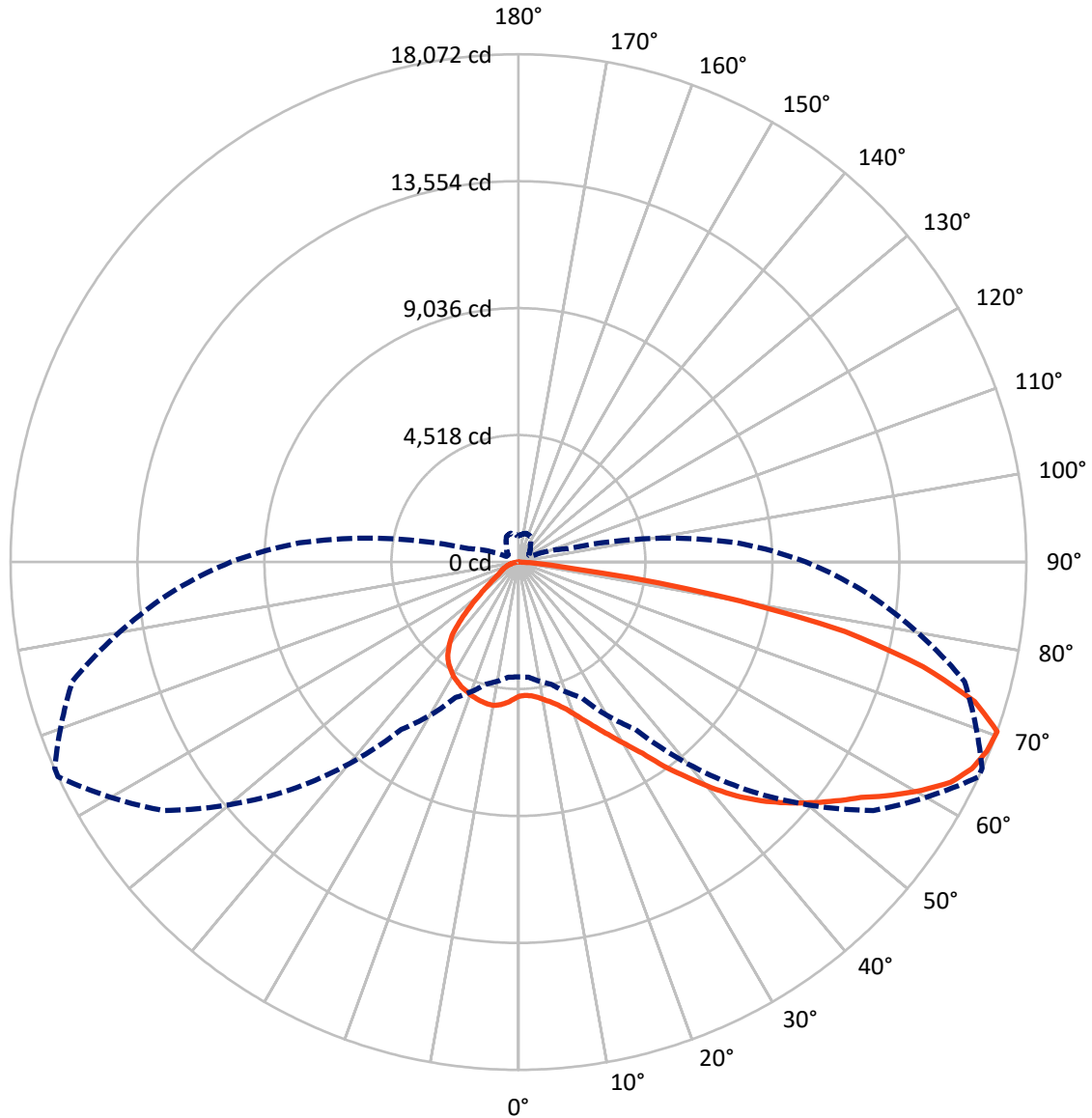
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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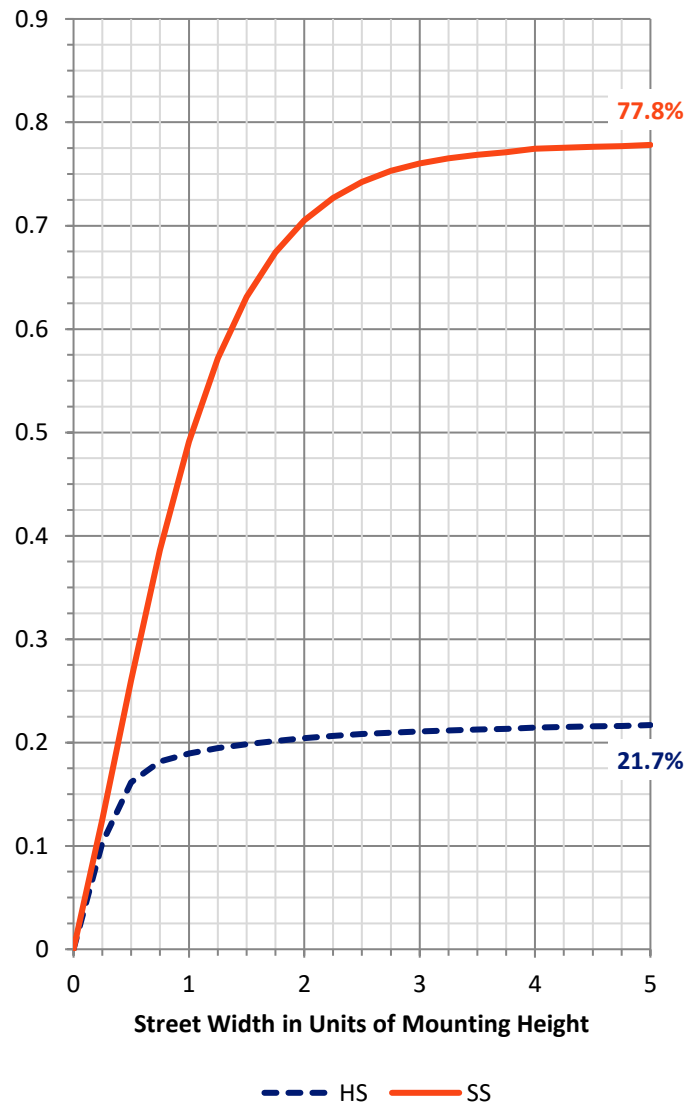
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6897.2	0.0	6897.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	24369.8	0.0	24369.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	31267.0	0.0	31267.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.9	1.5
10°-20°	1513.5	4.8
20°-30°	2625.6	8.4
30°-40°	3817.6	12.2
40°-50°	5100.4	16.3
50°-60°	6212.7	19.9
60°-70°	6697.4	21.4
70°-80°	4342.2	13.9
80°-90°	478.9	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°	31267.0	100.0
0°-180°	31267.0	100.0



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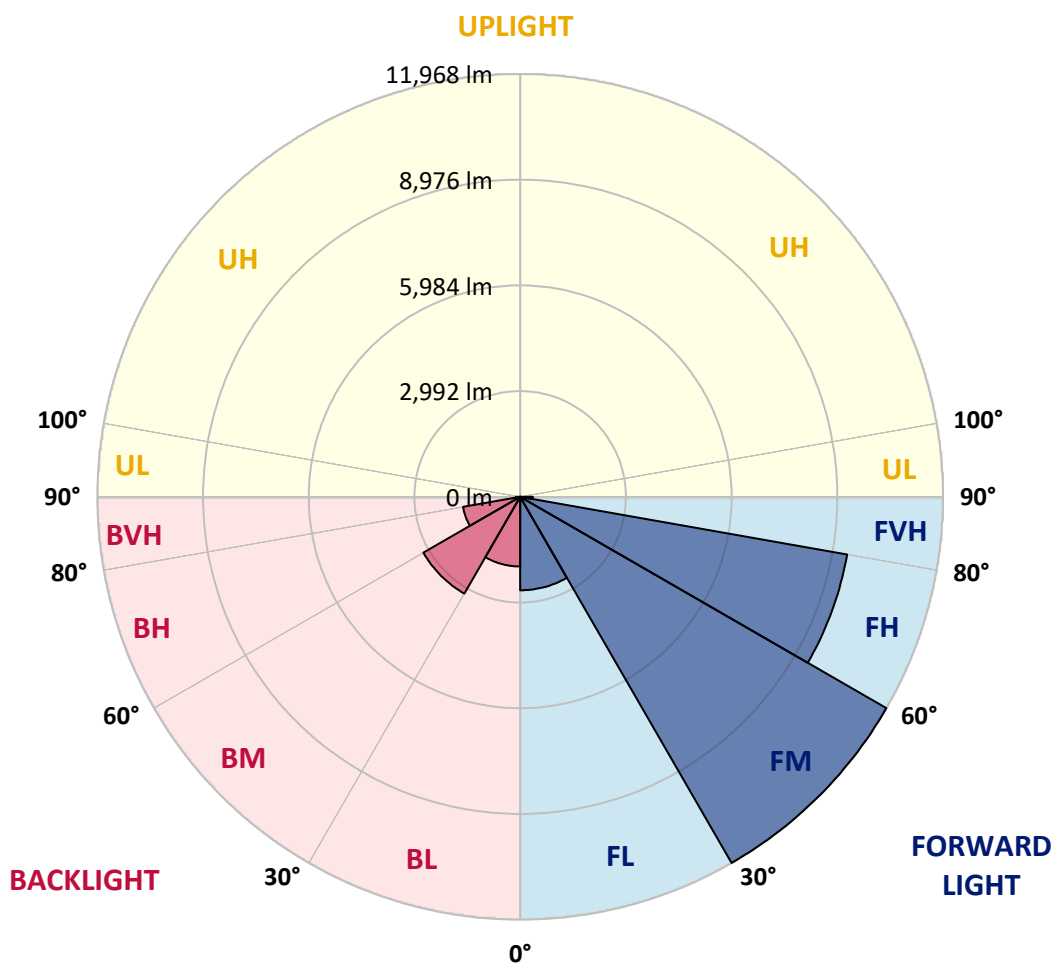
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2646.1	8.5			
FM	(30°-60°)	11968.4	38.3			
FH	(60°-80°)	9398.1	30.1			G4/12000
FVH	(80°-90°)	357.2	1.1			G3/500
BL	(0°-30°)	1971.9	6.3	B3/2500		
BM	(30°-60°)	3162.1	10.1	B3/5000		
BH	(60°-80°)	1641.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	121.7	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°	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6
2.5°	4703.1	4745.4	4722.8	4724.2	4756.7	4729.9	4748.2	4748.2	4746.8	4756.7	4786.3
5°	4818.7	4863.8	4837.0	4820.1	4827.2	4793.3	4786.3	4780.6	4776.4	4787.7	4837.0
7.5°	4987.9	5040.0	5010.4	4994.9	4986.5	4908.9	4894.8	4856.8	4852.5	4862.4	4907.5
10°	5212.0	5282.5	5247.3	5203.6	5174.0	5083.7	5011.8	4978.0	4968.1	4962.5	5009.0
12.5°	5534.9	5596.9	5556.0	5474.2	5434.8	5289.6	5203.6	5107.7	5106.3	5086.6	5121.8
15°	5840.8	5905.6	5853.5	5773.1	5721.0	5525.0	5398.1	5279.7	5265.6	5243.0	5254.3
17.5°	6136.9	6215.8	6179.1	6105.8	6042.4	5823.9	5657.5	5505.3	5489.8	5454.5	5402.3
20°	6504.8	6576.7	6566.8	6500.6	6430.1	6182.0	6000.1	5804.1	5787.2	5723.8	5606.8
22.5°	6872.8	6961.6	6906.6	6895.3	6855.9	6609.1	6355.4	6156.6	6139.7	6056.5	5842.2
25°	7219.6	7298.5	7318.3	7299.9	7304.2	7060.3	6807.9	6558.4	6541.5	6428.7	6118.5
27.5°	7629.8	7704.5	7710.2	7714.4	7763.8	7560.7	7264.7	7008.1	6996.8	6869.9	6476.6
30°	7944.2	8068.3	8093.7	8117.6	8143.0	8034.4	7765.2	7525.5	7502.9	7364.8	6879.8
32.5°	8231.8	8324.9	8415.1	8464.4	8578.6	8481.3	8260.0	8112.0	8113.4	8048.5	7522.7
35°	8454.6	8557.5	8671.7	8852.1	9018.5	8977.6	8908.5	8917.0	8918.4	8946.6	8389.7
37.5°	8667.4	8760.5	8904.3	9120.0	9413.2	9466.8	9513.3	9689.5	9751.6	9884.1	9190.5
40°	8795.7	8894.4	9080.5	9379.4	9760.0	9953.2	10094.2	10546.7	10653.8	10655.3	9809.4
42.5°	8608.2	8716.8	9049.5	9581.0	10073.0	10433.9	10804.7	11375.7	11453.2	11279.8	10338.1
45°	8440.5	8540.6	8898.6	9612.0	10318.3	10947.1	11463.1	12124.3	12180.7	11831.0	10825.8
47.5°	8278.3	8357.3	8771.8	9547.2	10569.3	11461.7	12024.2	12801.0	12841.9	12434.4	11302.4
50°	8054.2	8148.6	8588.5	9471.0	10720.1	11902.9	12574.0	13469.2	13463.6	12977.2	11733.8
52.5°	7808.9	7901.9	8374.2	9331.5	10818.8	12245.5	13199.9	14123.4	14127.6	13600.3	12160.9
55°	7500.1	7614.3	8112.0	9142.5	10842.8	12514.8	13742.7	14794.4	14863.5	14236.1	12572.6
57.5°	7130.8	7245.0	7789.1	8866.2	10700.4	12740.4	14322.1	15651.6	15688.2	14886.1	12879.9
60°	6700.8	6838.9	7359.1	8496.9	10428.3	13002.6	15024.2	16491.8	16504.5	15466.9	13136.5
62.5°	6203.1	6301.8	6848.8	7961.1	9994.1	13106.9	15605.1	17263.0	17265.8	15905.3	13252.1
65°	5664.6	5702.6	6160.8	7232.3	9361.1	12936.3	15827.8	17732.4	17719.8	16290.2	13194.3
67.5°	5023.1	5004.8	5494.0	6331.4	8560.3	12368.2	15719.3	17973.5	18011.6	16586.3	13008.2
70°	4084.2	4111.0	4500.1	5323.4	7267.5	11456.0	15420.4	18072.2	18062.3	16438.3	12409.0
72.5°	3100.1	3148.1	3430.0	4047.5	5640.6	9634.6	14140.3	16981.0	17000.8	15395.0	11330.6
75°	1917.3	2055.5	2293.7	2670.2	3534.4	6902.4	12035.5	14874.8	14974.9	13583.4	9330.0
77.5°	840.2	872.7	992.5	1287.1	1848.2	3465.3	8897.2	11879.0	12175.0	10985.2	6730.4
80°	520.2	520.2	554.1	645.7	824.7	1288.6	3565.4	7092.7	6792.4	6283.5	2969.0
82.5°	432.8	432.8	449.7	465.2	422.9	545.6	1192.7	1987.8	2130.2	1724.2	912.1
85°	235.4	241.1	242.5	246.7	242.5	294.6	469.5	587.9	594.9	538.5	324.3
87.5°	86.0	91.6	88.8	83.2	74.7	70.5	90.2	91.6	94.5	87.4	47.9
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°	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6	4773.6
2.5°	4806.0	4825.7	4877.9	4882.1	4901.9	4908.9	4925.8	4949.8	4992.1	4970.9	4947.0
5°	4861.0	4886.4	4969.5	5011.8	5066.8	5099.2	5152.8	5179.6	5244.5	5223.3	5220.5
7.5°	4944.2	4997.7	5072.5	5113.3	5185.2	5206.4	5245.9	5245.9	5299.4	5272.6	5265.6
10°	5056.9	5092.2	5171.1	5174.0	5214.8	5214.8	5261.4	5231.8	5283.9	5252.9	5251.5
12.5°	5147.2	5166.9	5196.5	5172.6	5193.7	5169.7	5193.7	5158.5	5190.9	5151.4	5142.9
15°	5248.7	5221.9	5192.3	5135.9	5117.6	5079.5	5059.8	5023.1	5025.9	4980.8	4973.8
17.5°	5362.9	5293.8	5207.8	5085.1	5017.5	4920.2	4879.3	4827.2	4797.5	4756.7	4775.0
20°	5501.0	5398.1	5219.1	5028.8	4885.0	4736.9	4641.1	4556.5	4549.4	4512.8	4493.0
22.5°	5680.1	5515.1	5268.4	4948.4	4717.2	4505.7	4363.3	4222.3	4208.2	4133.5	4105.3
25°	5901.4	5670.2	5293.8	4886.4	4521.2	4230.8	4006.6	3810.7	3716.2	3637.3	3619.0
27.5°	6198.9	5898.6	5344.5	4775.0	4290.0	3889.6	3568.2	3308.8	3196.0	3156.5	3115.7
30°	6547.1	6177.7	5439.0	4681.9	4016.5	3454.0	3062.1	2753.3	2630.7	2568.7	2548.9
32.5°	7060.3	6530.2	5526.4	4528.3	3685.2	2974.7	2464.3	2123.2	2048.4	2037.2	2063.9
35°	7807.5	7192.8	5653.3	4385.9	3296.1	2441.8	1877.9	1655.1	1639.6	1642.4	1642.4
37.5°	8585.7	7824.4	6029.7	4175.8	2819.6	1838.4	1429.5	1308.3	1313.9	1313.9	1312.5
40°	9093.2	8331.9	6303.2	3878.4	2227.5	1318.2	1060.2	968.5	1008.0	1061.6	1089.8
42.5°	9652.9	8792.9	6492.1	3535.8	1549.4	931.9	771.2	803.6	919.2	1001.0	1012.2
45°	10129.4	9184.8	6513.3	3002.9	998.1	707.7	703.5	796.5	930.5	1019.3	1026.3
47.5°	10538.2	9541.5	6380.7	2393.8	727.5	661.2	703.5	820.5	941.7	996.7	1002.4
50°	10934.4	9824.9	6069.2	1839.8	662.6	644.3	711.9	824.7	900.9	938.9	933.3
52.5°	11286.8	10082.9	5618.0	1435.2	637.2	633.0	719.0	820.5	868.4	865.6	861.4
55°	11554.7	10159.0	5265.6	1119.4	616.1	626.0	723.2	824.7	860.0	834.6	829.0
57.5°	11692.9	10064.6	4969.5	889.6	593.5	618.9	734.5	823.3	885.4	933.3	930.5
60°	11690.1	9957.4	4604.4	766.9	571.0	613.3	752.8	893.8	1118.0	1163.1	1164.5
62.5°	11644.9	9774.1	4103.9	693.6	545.6	616.1	765.5	1015.1	1273.0	1236.4	1206.8
65°	11495.5	9430.1	3432.9	614.7	513.2	618.9	759.9	1098.2	1167.3	1036.2	1017.9
67.5°	11079.6	8764.7	2695.5	549.8	483.6	603.4	769.8	1020.7	1072.9	989.7	962.9
70°	10235.1	7827.2	1827.1	473.7	449.7	580.8	747.2	1003.8	1058.8	974.2	934.7
72.5°	8897.2	6282.1	1068.6	407.4	400.4	534.3	735.9	1015.1	1075.7	981.2	930.5
75°	6924.9	4404.2	617.5	329.9	334.1	493.4	675.3	957.3	1065.8	992.5	926.2
77.5°	4470.5	2138.7	435.6	263.6	260.8	389.1	548.4	837.4	1026.3	1002.4	947.4
80°	1600.1	781.0	305.9	196.0	190.3	263.6	421.5	673.9	868.4	899.5	899.5
82.5°	575.2	391.9	196.0	119.8	118.4	167.8	314.4	511.8	630.2	710.5	730.3
85°	241.1	170.6	95.9	60.6	49.3	64.9	162.1	317.2	427.2	459.6	500.5
87.5°	35.2	31.0	25.4	19.7	16.9	16.9	21.1	91.6	152.3	218.5	270.7
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)