

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: P510287

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510287
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-CA4-240-750-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1090mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34130 lumens
Efficiency: N/A
Efficacy: 140.9 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

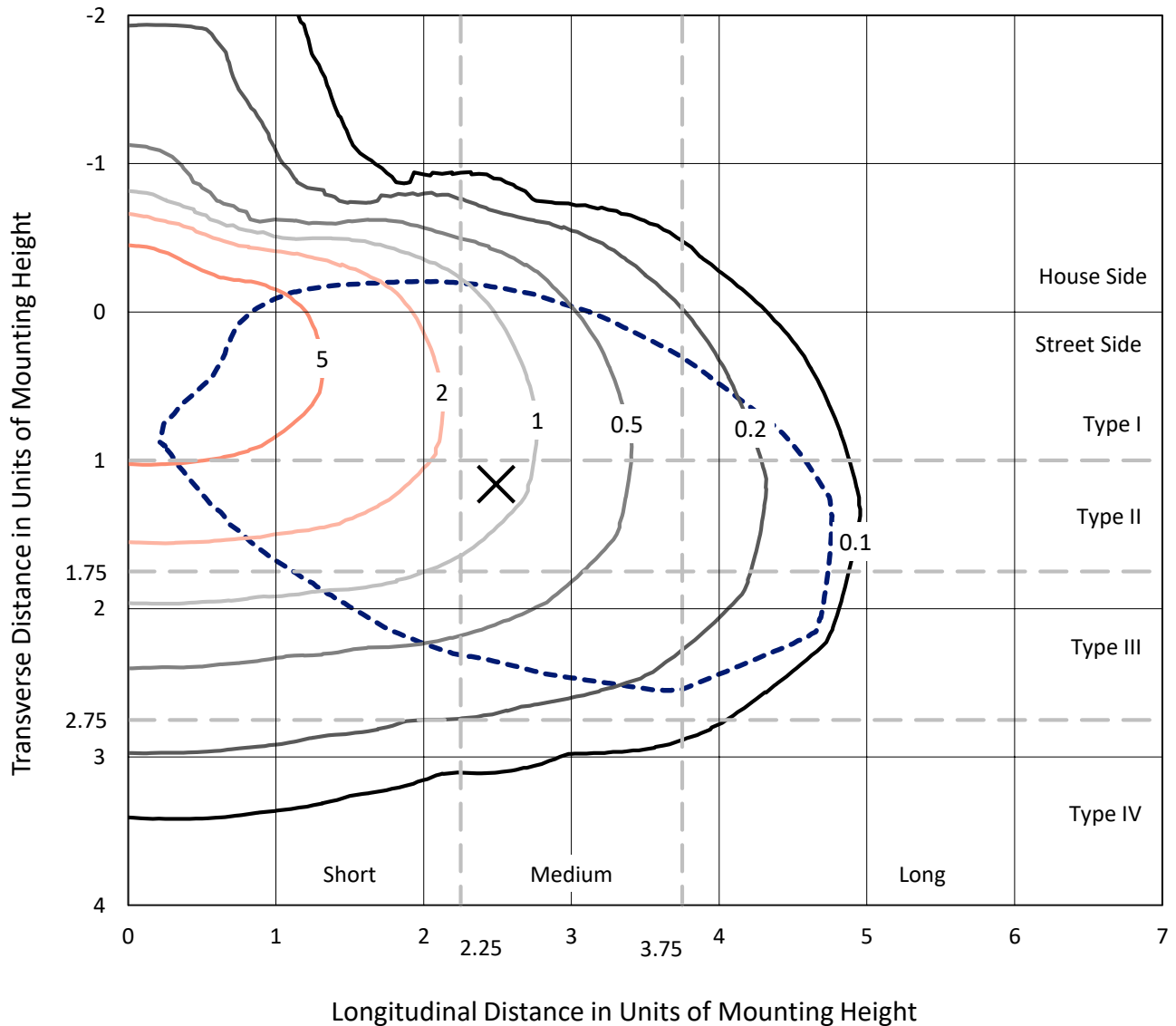
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

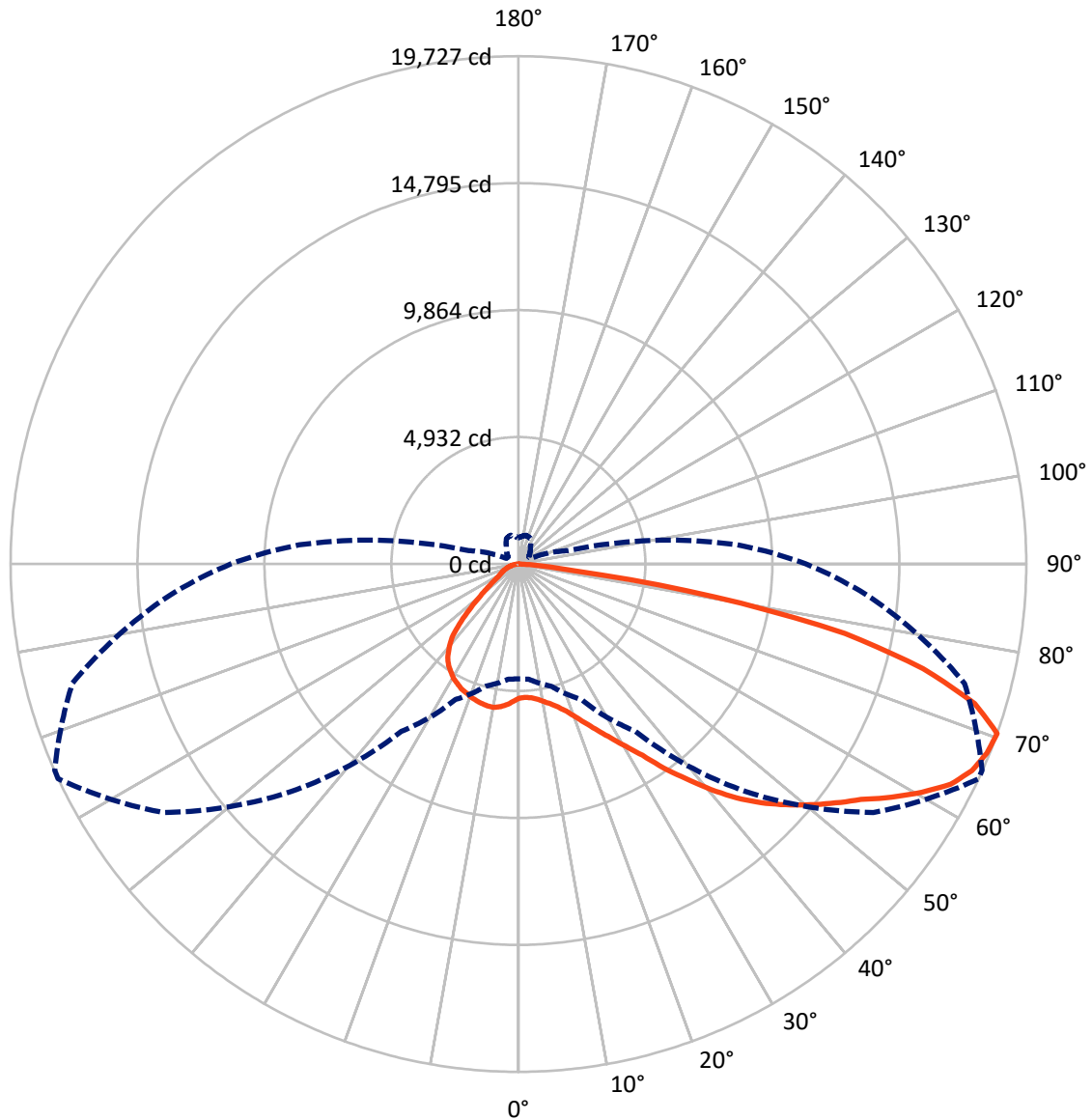
✕ Max cd
 - - - 1/2 Max cd



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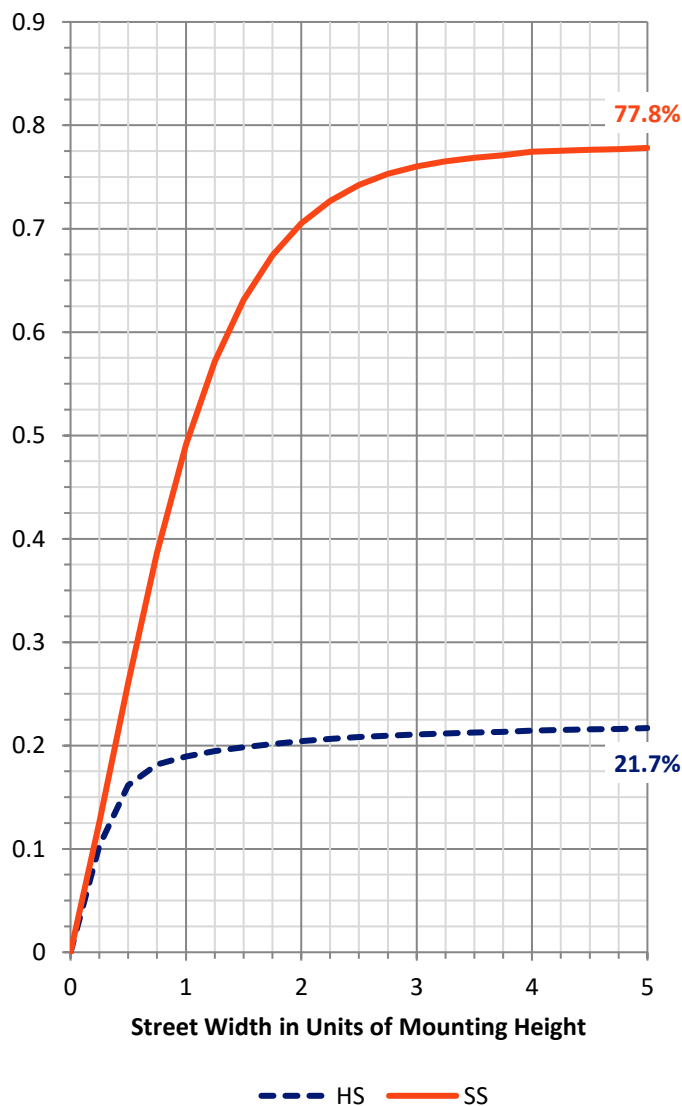
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7528.7	0.0	7528.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26601.2	0.0	26601.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	34130.0	0.0	34130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.7	1.5
10°-20°	1652.1	4.8
20°-30°	2866.0	8.4
30°-40°	4167.1	12.2
40°-50°	5567.4	16.3
50°-60°	6781.5	19.9
60°-70°	7310.6	21.4
70°-80°	4739.7	13.9
80°-90°	522.7	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°	34130.0	100.0
0°-180°	34130.0	100.0

Coefficient of Utilization



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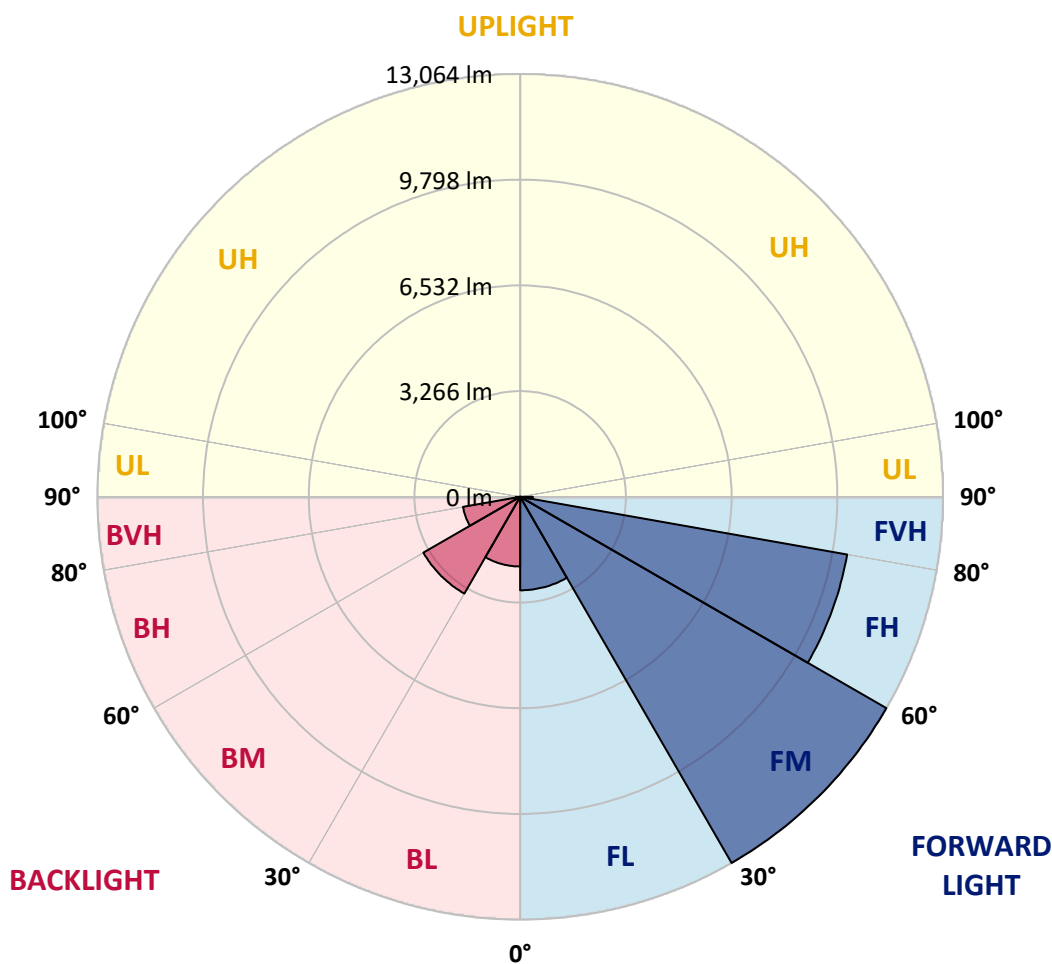
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2888.4	8.5			
FM	(30°-60°)	13064.3	38.3			
FH	(60°-80°)	10258.6	30.1			G4/12000
FVH	(80°-90°)	389.9	1.1			G3/500
BL	(0°-30°)	2152.5	6.3	B3/2500		
BM	(30°-60°)	3451.7	10.1	B3/5000		
BH	(60°-80°)	1791.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	132.9	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°	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7
2.5°	5133.7	5179.9	5155.3	5156.8	5192.2	5163.0	5183.0	5183.0	5181.4	5192.2	5224.5
5°	5259.9	5309.2	5279.9	5261.5	5269.2	5232.2	5224.5	5218.4	5213.8	5226.1	5279.9
7.5°	5444.6	5501.5	5469.2	5452.3	5443.0	5358.4	5343.0	5301.5	5296.9	5307.6	5356.9
10°	5689.3	5766.2	5727.7	5680.0	5647.7	5549.2	5470.7	5433.8	5423.0	5416.9	5467.7
12.5°	6041.7	6109.4	6064.8	5975.5	5932.4	5773.9	5680.0	5575.4	5573.9	5552.3	5590.8
15°	6375.6	6446.4	6389.5	6301.7	6244.8	6030.9	5892.4	5763.1	5747.7	5723.1	5735.4
17.5°	6698.8	6785.0	6744.9	6664.9	6595.7	6357.1	6175.6	6009.4	5992.4	5954.0	5897.0
20°	7100.4	7178.9	7168.1	7095.8	7018.9	6748.0	6549.5	6335.6	6317.1	6247.9	6120.2
22.5°	7502.1	7599.0	7539.0	7526.7	7483.6	7214.3	6937.3	6720.3	6701.9	6611.1	6377.2
25°	7880.6	7966.8	7988.4	7968.4	7973.0	7706.8	7431.3	7158.9	7140.4	7017.3	6678.8
27.5°	8328.5	8410.0	8416.2	8420.8	8474.7	8253.1	7929.9	7649.8	7637.5	7499.0	7069.7
30°	8671.6	8807.1	8834.8	8860.9	8888.6	8770.1	8476.2	8214.6	8190.0	8039.2	7509.8
32.5°	8985.6	9087.1	9185.6	9239.5	9364.1	9258.0	9016.3	8854.8	8856.3	8785.5	8211.5
35°	9228.7	9341.1	9465.7	9662.7	9844.3	9799.6	9724.2	9733.5	9735.0	9765.8	9157.9
37.5°	9461.1	9562.7	9719.6	9955.1	10275.2	10333.6	10384.4	10576.8	10644.5	10789.1	10032.0
40°	9601.1	9708.8	9912.0	10238.2	10653.7	10864.6	11018.4	11512.4	11629.4	11630.9	10707.6
42.5°	9396.5	9514.9	9878.1	10458.3	10995.4	11389.3	11794.0	12417.3	12501.9	12312.6	11284.7
45°	9213.3	9322.6	9713.5	10492.1	11263.1	11949.5	12512.7	13234.4	13296.0	12914.4	11817.1
47.5°	9036.4	9122.5	9575.0	10421.4	11537.0	12511.2	13125.2	13973.1	14017.7	13573.0	12337.3
50°	8791.7	8894.8	9374.9	10338.3	11701.7	12992.8	13725.3	14702.5	14696.4	14165.5	12808.2
52.5°	8523.9	8625.5	9141.0	10185.9	11809.4	13366.8	14408.6	15416.6	15421.2	14845.7	13274.5
55°	8186.9	8311.5	8854.8	9979.7	11835.6	13660.7	15001.1	16149.1	16224.5	15539.7	13723.8
57.5°	7783.7	7908.3	8502.4	9678.1	11680.2	13906.9	15633.6	17084.7	17124.8	16249.1	14059.3
60°	7314.3	7465.1	8033.0	9274.9	11383.2	14193.2	16399.9	18001.9	18015.8	16883.1	14339.4
62.5°	6771.1	6878.8	7475.9	8690.1	10909.2	14307.0	17034.0	18843.7	18846.8	17361.7	14465.6
65°	6183.3	6224.8	6724.9	7894.5	10218.2	14120.8	17277.1	19356.1	19342.3	17781.9	14402.5
67.5°	5483.1	5463.1	5997.0	6911.1	9344.1	13500.7	17158.6	19619.3	19660.8	18105.0	14199.3
70°	4458.2	4487.4	4912.1	5810.8	7933.0	12505.0	16832.4	19727.0	19716.2	17943.4	13545.3
72.5°	3384.0	3436.3	3744.1	4418.1	6157.1	10516.8	15435.1	18535.9	18557.5	16804.7	12368.0
75°	2092.9	2243.7	2503.8	2914.7	3858.0	7534.4	13137.5	16236.8	16346.1	14827.2	10184.4
77.5°	917.2	952.6	1083.4	1405.0	2017.5	3782.6	9711.9	12966.7	13289.8	11991.0	7346.7
80°	567.8	567.8	604.8	704.8	900.2	1406.5	3891.8	7742.1	7414.4	6858.8	3240.9
82.5°	472.4	472.4	490.9	507.8	461.7	595.5	1301.9	2169.8	2325.3	1882.1	995.7
85°	257.0	263.1	264.7	269.3	264.7	321.6	512.4	641.7	649.4	587.9	353.9
87.5°	93.9	100.0	96.9	90.8	81.6	76.9	98.5	100.0	103.1	95.4	52.3
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°	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7	5210.7
2.5°	5246.1	5267.6	5324.6	5329.2	5350.7	5358.4	5376.9	5403.0	5449.2	5426.1	5400.0
5°	5306.1	5333.8	5424.6	5470.7	5530.8	5566.2	5624.6	5653.9	5724.7	5701.6	5698.5
7.5°	5396.9	5455.4	5536.9	5581.5	5660.0	5683.1	5726.2	5726.2	5784.7	5755.4	5747.7
10°	5520.0	5558.5	5644.6	5647.7	5692.3	5692.3	5743.1	5710.8	5767.8	5733.9	5732.4
12.5°	5618.5	5640.0	5672.3	5646.2	5669.3	5643.1	5669.3	5630.8	5666.2	5623.1	5613.9
15°	5729.3	5700.0	5667.7	5606.2	5586.2	5544.6	5523.1	5483.1	5486.1	5436.9	5429.2
17.5°	5853.9	5778.5	5684.7	5550.8	5476.9	5370.7	5326.1	5269.2	5236.8	5192.2	5212.2
20°	6004.7	5892.4	5697.0	5489.2	5332.2	5170.7	5066.0	4973.7	4966.0	4926.0	4904.4
22.5°	6200.2	6020.1	5750.8	5401.5	5149.1	4918.3	4762.9	4609.0	4593.6	4512.0	4481.2
25°	6441.8	6189.4	5778.5	5333.8	4935.2	4618.2	4373.5	4159.6	4056.5	3970.3	3950.3
27.5°	6766.5	6438.7	5833.9	5212.2	4682.8	4245.8	3894.9	3611.8	3488.7	3445.6	3400.9
30°	7146.6	6743.4	5937.0	5110.6	4384.3	3770.3	3342.5	3005.4	2871.6	2803.9	2782.3
32.5°	7706.8	7128.1	6032.4	4942.9	4022.7	3247.1	2690.0	2317.6	2236.0	2223.7	2252.9
35°	8522.4	7851.4	6170.9	4787.5	3597.9	2665.4	2049.8	1806.7	1789.7	1792.8	1792.8
37.5°	9371.8	8540.8	6581.8	4558.2	3077.8	2006.7	1560.4	1428.1	1434.2	1434.2	1432.7
40°	9925.8	9094.8	6880.4	4233.5	2431.4	1438.9	1157.2	1057.2	1100.3	1158.8	1189.6
42.5°	10536.8	9598.0	7086.6	3859.5	1691.2	1017.2	841.8	877.2	1003.4	1092.6	1104.9
45°	11056.9	10025.9	7109.7	3277.8	1089.5	772.5	767.9	869.5	1015.7	1112.6	1120.3
47.5°	11503.2	10415.2	6965.0	2613.0	794.1	721.7	767.9	895.6	1028.0	1088.0	1094.1
50°	11935.6	10724.5	6624.9	2008.2	723.3	703.3	777.1	900.2	983.3	1024.9	1018.7
52.5°	12320.3	11006.1	6132.5	1566.6	695.6	691.0	784.8	895.6	948.0	944.9	940.3
55°	12612.7	11089.2	5747.7	1221.9	672.5	683.3	789.4	900.2	938.7	911.0	904.9
57.5°	12763.5	10986.1	5424.6	971.0	647.9	675.6	801.8	898.7	966.4	1018.7	1015.7
60°	12760.5	10869.2	5026.0	837.2	623.2	669.4	821.8	975.7	1220.3	1269.6	1271.1
62.5°	12711.2	10669.1	4479.7	757.1	595.5	672.5	835.6	1108.0	1389.6	1349.6	1317.3
65°	12548.1	10293.6	3747.2	671.0	560.2	675.6	829.5	1198.8	1274.2	1131.1	1111.1
67.5°	12094.1	9567.3	2942.4	600.2	527.8	658.6	840.2	1114.2	1171.1	1080.3	1051.1
70°	11172.3	8543.9	1994.4	517.1	490.9	634.0	815.6	1095.7	1155.7	1063.4	1020.3
72.5°	9711.9	6857.3	1166.5	444.7	437.0	583.2	803.3	1108.0	1174.2	1071.1	1015.7
75°	7559.0	4807.5	674.0	360.1	364.7	538.6	737.1	1044.9	1163.4	1083.4	1011.0
77.5°	4879.8	2334.5	475.5	287.8	284.7	424.7	598.6	914.1	1120.3	1094.1	1034.1
80°	1746.6	852.5	333.9	213.9	207.7	287.8	460.1	735.6	948.0	981.8	981.8
82.5°	627.9	427.8	213.9	130.8	129.3	183.1	343.2	558.6	687.9	775.6	797.1
85°	263.1	186.2	104.6	66.2	53.9	70.8	177.0	346.2	466.3	501.7	546.3
87.5°	38.5	33.9	27.7	21.5	18.5	18.5	23.1	100.0	166.2	238.5	295.5
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)