

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: P510277

Luminaire Tested: **VERD-M-CA4-240-740-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)
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-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1090mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33441 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

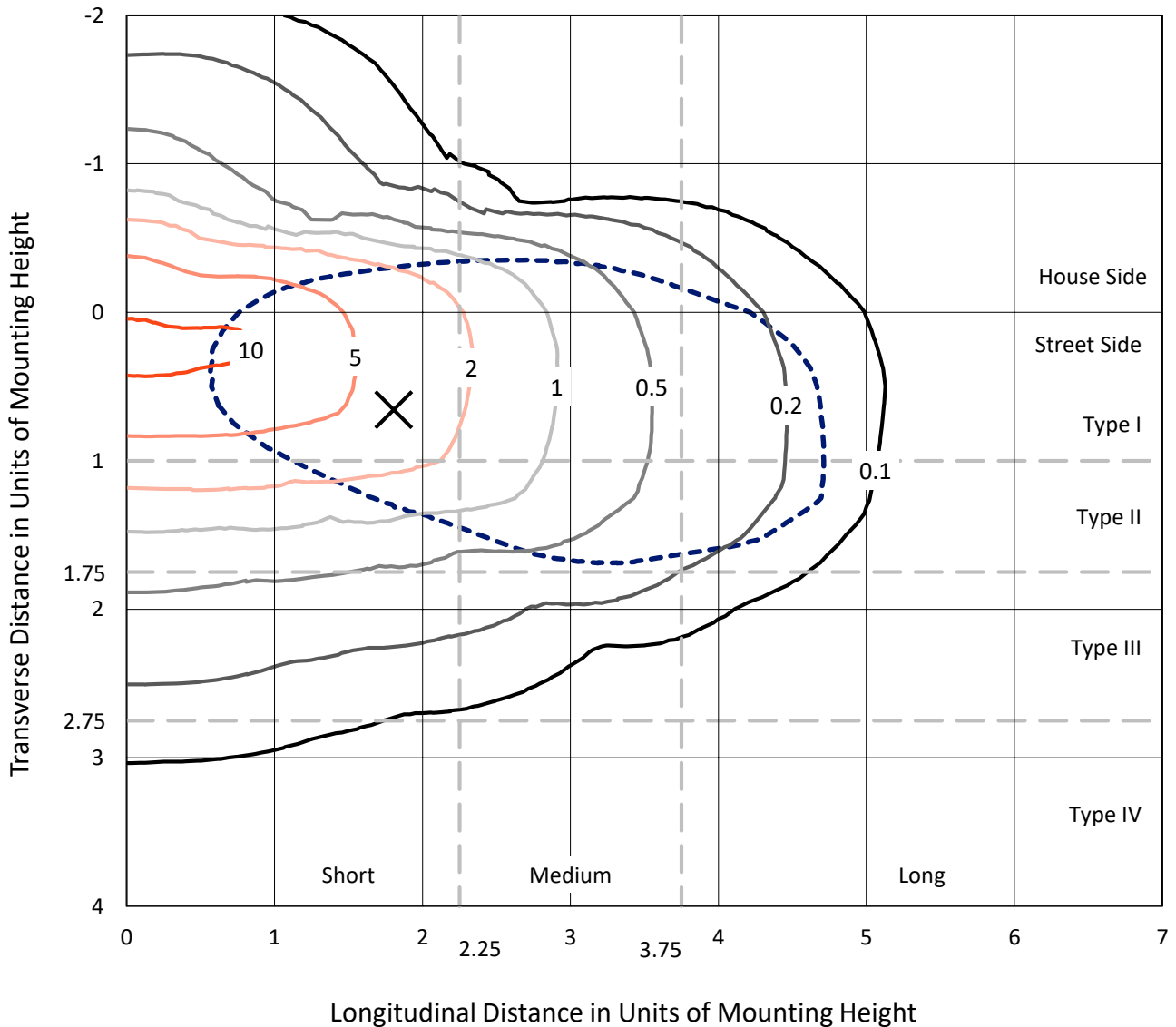
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

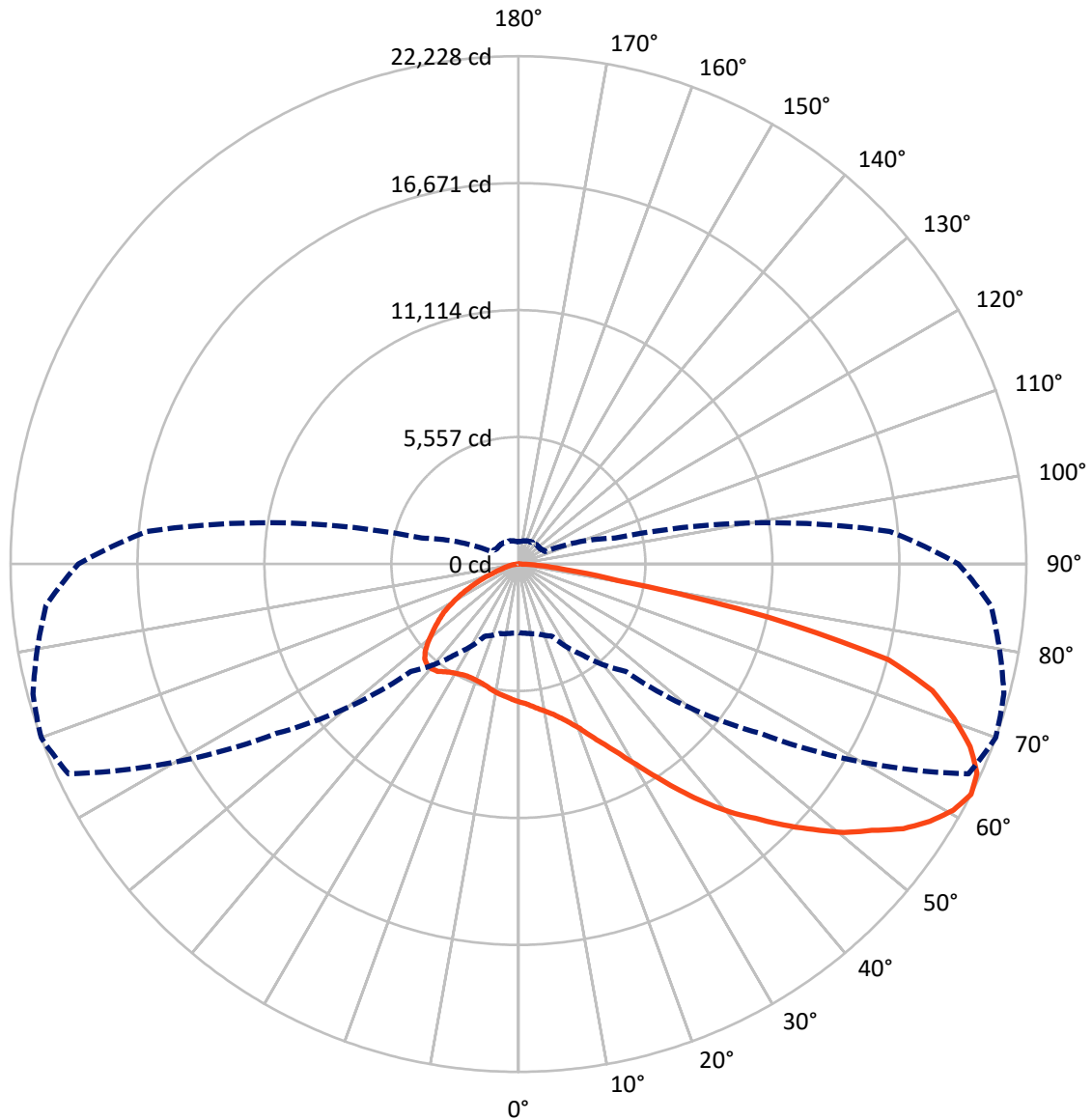
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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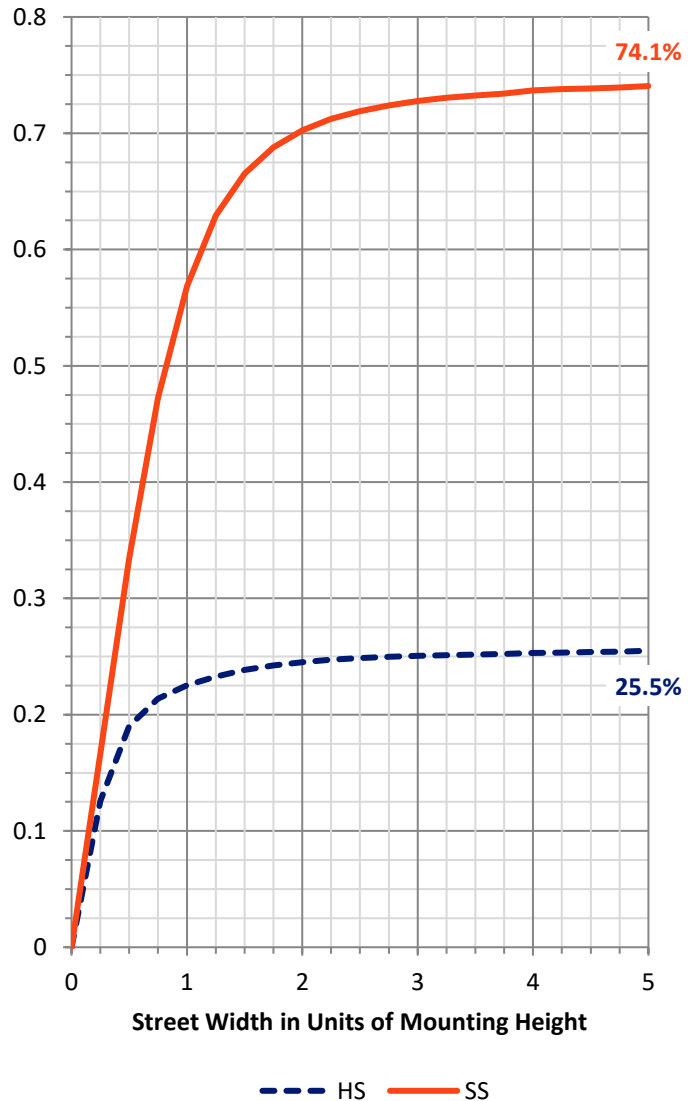
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8658.0	0.0	8658.0
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	24783.0	0.0	24783.0
	% Fixture	74.1	0.0	74.1
Total	Lumens	33441.0	0.0	33441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.7	1.7
10°-20°	1760.5	5.3
20°-30°	2987.9	8.9
30°-40°	4323.3	12.9
40°-50°	5673.2	17.0
50°-60°	6629.0	19.8
60°-70°	6652.5	19.9
70°-80°	4239.1	12.7
80°-90°	595.7	1.8
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°	33441.0	100.0
0°-180°	33441.0	100.0

Coefficient of Utilization



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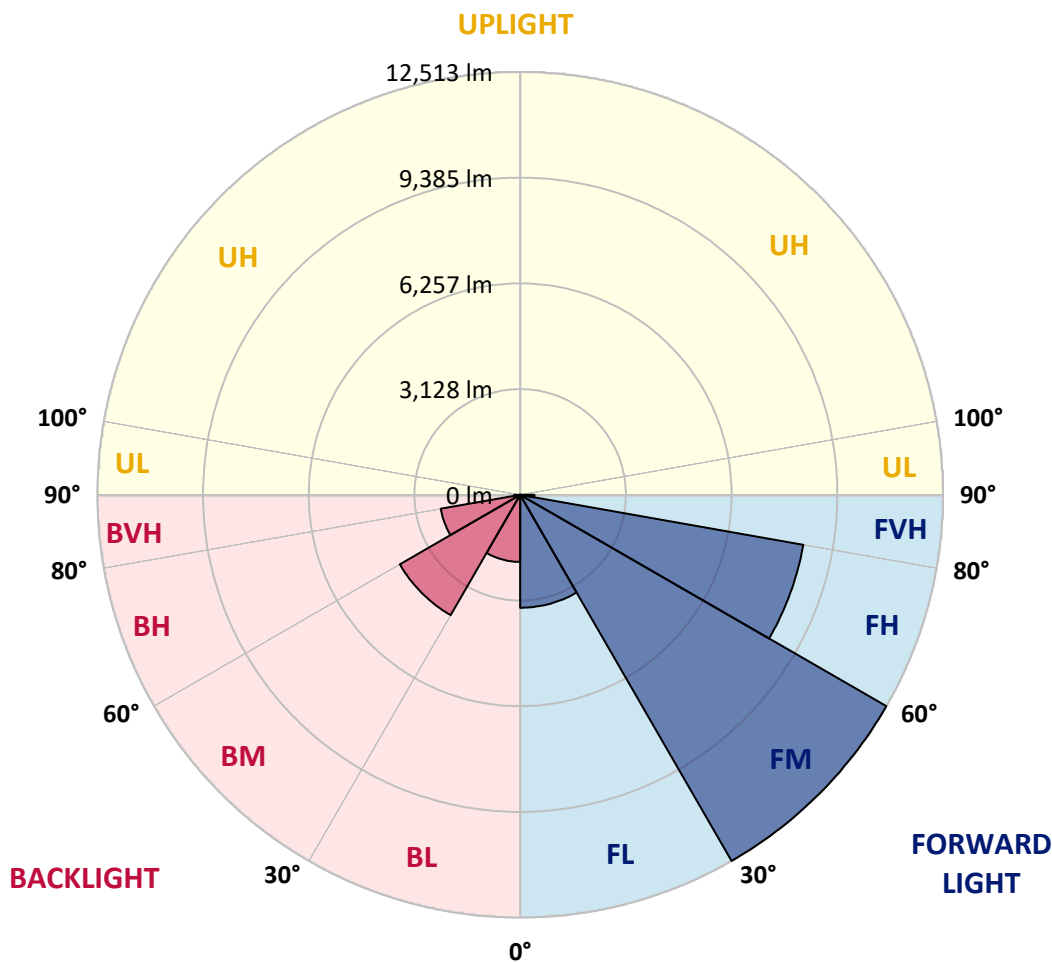
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3342.4	10.0			
FM	(30°-60°)	12513.3	37.4			
FH	(60°-80°)	8507.0	25.4			G4/12000
FVH	(80°-90°)	420.2	1.3			G3/500
BL	(0°-30°)	1985.7	5.9	B3/2500		
BM	(30°-60°)	4112.3	12.3	B3/5000		
BH	(60°-80°)	2384.5	7.1	B3/2500		G3/2500
BVH	(80°-90°)	175.5	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6
2.5°	6266.8	6333.3	6324.3	6283.5	6312.2	6233.6	6204.9	6161.1	6115.7	6100.6	6074.9
5°	6563.0	6650.7	6634.1	6579.7	6578.2	6466.3	6402.9	6319.7	6250.2	6195.8	6115.7
7.5°	6839.6	6940.8	6925.7	6872.8	6869.8	6741.4	6609.9	6479.9	6399.8	6330.3	6183.7
10°	7132.8	7209.8	7196.2	7128.2	7114.6	6989.2	6835.1	6671.8	6554.0	6457.3	6248.7
12.5°	7403.3	7484.9	7490.9	7406.3	7385.1	7250.6	7116.1	6900.0	6747.4	6637.1	6330.3
15°	7655.6	7752.3	7734.2	7649.6	7626.9	7490.9	7359.4	7160.0	7001.3	6847.1	6463.3
17.5°	7858.1	7950.3	7927.6	7889.9	7877.8	7772.0	7663.2	7447.1	7306.5	7108.6	6668.8
20°	7997.1	8083.3	8092.4	8081.8	8151.3	8051.5	7991.1	7838.5	7684.3	7506.0	6949.9
22.5°	8051.5	8154.3	8242.0	8310.0	8453.5	8438.4	8427.8	8340.2	8189.1	7929.1	7321.7
25°	8068.2	8170.9	8306.9	8474.7	8731.6	8823.8	8890.3	8911.4	8746.7	8541.2	7784.1
27.5°	8071.2	8181.5	8320.5	8591.0	8982.4	9260.5	9419.2	9493.2	9401.0	9237.8	8412.7
30°	8007.7	8121.1	8299.4	8660.6	9178.9	9635.3	9898.2	10226.1	10186.8	10049.3	9200.0
32.5°	7824.9	7927.6	8174.0	8648.5	9373.8	10019.1	10428.6	10996.8	11129.8	11040.7	10108.3
35°	7496.9	7622.4	7941.2	8548.7	9479.6	10392.4	11052.7	11936.8	12177.1	12183.1	11222.0
37.5°	7166.0	7261.2	7636.0	8361.3	9538.5	10723.3	11645.1	12878.2	13227.3	13234.9	12148.3
40°	6813.9	6901.5	7314.1	8110.5	9478.1	10983.2	12196.7	13783.4	14283.6	14236.8	13058.1
42.5°	6357.5	6454.2	6863.8	7769.0	9327.0	11184.2	12757.4	14734.0	15214.5	15267.4	14007.1
45°	5967.6	6044.7	6402.9	7235.5	9050.4	11293.0	13283.2	15748.0	16298.0	16242.1	15019.6
47.5°	5487.1	5601.9	5984.3	6801.8	8553.3	11265.8	13786.5	16751.4	17363.4	17312.0	15897.6
50°	4232.8	4365.8	5254.4	6346.9	7918.6	11052.7	14242.8	17711.0	18471.1	18336.6	16827.0
52.5°	3844.4	3882.2	4235.8	5824.1	7292.9	10569.2	14578.3	18923.0	19373.3	19320.4	17768.4
55°	3607.2	3679.7	3841.4	4798.0	6730.8	9783.4	14811.0	19935.4	20443.2	20195.4	18620.7
57.5°	3398.6	3450.0	3641.9	4107.4	6084.0	8701.4	14743.0	20789.3	21242.6	20896.5	19453.4
60°	3176.5	3209.7	3401.7	3749.2	5385.8	7506.0	14052.4	21670.3	21871.3	21553.9	20157.6
62.5°	3004.2	3036.0	3150.8	3484.8	4841.8	6650.7	12922.1	21732.2	22227.9	21996.7	20756.0
65°	2783.6	2804.7	2948.3	3211.3	4337.1	6141.4	11926.2	21150.4	22055.6	21998.2	20985.7
67.5°	2540.3	2566.0	2702.0	2887.9	3691.8	5541.5	10260.9	20836.1	21327.2	21383.1	20555.0
70°	2254.7	2272.8	2413.3	2547.8	3158.4	4864.5	8157.3	19631.7	20204.4	20202.9	19225.2
72.5°	1946.4	1944.9	2083.9	2226.0	2646.1	4086.2	6386.2	17429.9	18945.6	18832.3	17333.2
75°	1604.9	1627.5	1762.0	1873.9	2201.8	3312.5	4447.4	12625.9	16725.7	16881.4	14959.1
77.5°	1026.1	1041.2	1116.8	1231.6	1539.9	2531.2	2901.5	7016.4	11167.6	13470.6	11775.1
80°	749.5	757.1	823.6	890.1	1024.6	1541.4	1474.9	3049.6	4426.2	6612.9	7223.4
82.5°	510.8	512.3	565.2	580.3	587.8	695.1	699.7	1484.0	2108.1	2482.9	3190.1
85°	338.5	281.1	219.1	290.1	297.7	255.4	249.3	669.5	1045.7	1254.3	1181.7
87.5°	75.6	74.0	86.1	87.6	84.6	72.5	60.4	102.8	157.2	155.7	199.5
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°	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6
2.5°	6050.8	6043.2	6000.9	5911.7	5851.3	5789.3	5754.6	5733.4	5741.0	5706.2	5691.1
5°	6065.9	6028.1	5908.7	5802.9	5707.7	5600.4	5511.3	5499.2	5517.3	5485.6	5467.4
7.5°	6105.2	6025.1	5872.4	5691.1	5532.4	5431.2	5302.7	5237.7	5233.2	5201.5	5207.5
10°	6127.8	6023.5	5819.5	5600.4	5414.5	5234.7	5097.2	5024.7	5020.1	4974.8	4964.2
12.5°	6189.8	6040.2	5757.6	5490.1	5283.1	5042.8	4897.7	4831.2	4823.7	4760.2	4736.0
15°	6285.0	6078.0	5692.6	5361.7	5094.2	4869.0	4695.2	4606.1	4592.5	4518.4	4492.7
17.5°	6436.1	6185.2	5673.0	5245.3	4929.5	4683.1	4479.1	4382.4	4303.8	4263.0	4228.3
20°	6640.1	6318.2	5695.6	5136.5	4722.4	4438.3	4184.4	4057.5	4003.1	3936.6	3941.1
22.5°	6930.3	6526.8	5734.9	5051.9	4535.0	4176.9	3891.3	3749.2	3651.0	3595.1	3598.1
25°	7338.3	6841.1	5812.0	4971.8	4331.0	3891.3	3554.3	3356.3	3256.6	3220.3	3182.5
27.5°	7853.6	7217.4	5994.8	4873.5	4089.2	3567.9	3194.6	2963.4	2862.2	2807.8	2800.2
30°	8515.5	7711.5	6209.4	4801.0	3835.4	3164.4	2748.8	2566.0	2476.8	2399.7	2363.5
32.5°	9322.4	8409.7	6448.2	4728.5	3521.0	2712.6	2336.3	2195.7	2053.7	1955.5	1960.0
35°	10259.4	9169.8	6803.3	4636.3	3152.3	2290.9	2031.0	1849.7	1716.7	1651.7	1621.5
37.5°	11143.4	9949.6	7220.4	4542.6	2739.8	2017.4	1730.3	1562.6	1459.8	1409.9	1420.5
40°	12038.0	10753.5	7580.1	4312.9	2277.3	1769.6	1432.6	1337.4	1296.6	1257.3	1261.8
42.5°	12839.0	11394.3	7843.0	4057.5	1954.0	1485.5	1221.0	1242.2	1266.4	1243.7	1237.7
45°	13673.1	12143.8	8074.2	3622.3	1683.5	1261.8	1168.1	1227.1	1280.0	1276.9	1269.4
47.5°	14510.3	12839.0	8096.9	3045.0	1437.1	1186.3	1166.6	1210.5	1280.0	1292.1	1283.0
50°	15373.2	13567.3	7963.9	2365.0	1332.9	1195.3	1168.1	1175.7	1252.8	1266.4	1261.8
52.5°	16329.8	14354.7	7636.0	1798.3	1292.1	1210.5	1172.7	1162.1	1205.9	1230.1	1234.6
55°	17209.3	14980.3	7020.9	1588.2	1261.8	1212.0	1205.9	1171.2	1172.7	1160.6	1190.8
57.5°	17948.2	15577.2	6322.8	1473.4	1234.6	1198.4	1221.0	1156.1	1137.9	1088.0	1076.0
60°	18712.9	16062.3	5340.5	1394.8	1202.9	1181.7	1183.3	1130.4	1085.0	1012.5	991.3
62.5°	19255.4	16319.2	4386.9	1302.6	1159.1	1156.1	1133.4	1094.1	1053.3	989.8	980.8
65°	19412.6	16183.2	3369.9	1205.9	1101.6	1113.7	1072.9	1018.5	849.3	770.7	770.7
67.5°	18892.7	15346.0	2495.0	1094.1	1032.1	1056.3	976.2	802.4	714.8	667.9	675.5
70°	17467.7	13993.5	1624.5	930.9	932.4	952.0	805.5	722.3	639.2	610.5	625.6
72.5°	15563.6	11988.2	1071.4	742.0	785.8	752.6	735.9	664.9	590.9	557.6	568.2
75°	12825.4	9466.0	743.5	583.3	509.3	642.3	654.3	559.1	501.7	609.0	633.2
77.5°	10132.4	6579.7	613.5	408.0	376.3	474.5	524.4	518.3	829.6	974.7	964.1
80°	6025.1	3788.5	500.2	282.6	266.0	305.3	412.6	595.4	929.4	698.2	664.9
82.5°	2732.2	1722.7	266.0	148.1	173.8	202.5	308.3	740.5	609.0	447.3	421.6
85°	1066.9	562.2	105.8	65.0	60.4	75.6	140.5	356.6	244.8	198.0	198.0
87.5°	137.5	101.2	30.2	22.7	19.6	24.2	45.3	198.0	114.8	96.7	93.7
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)