

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: P510295

Luminaire Tested: **VERD-M-CA4-240-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510295
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-CA4-240-760-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1090mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33406 lumens
Efficiency: N/A
Efficacy: 137.9 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

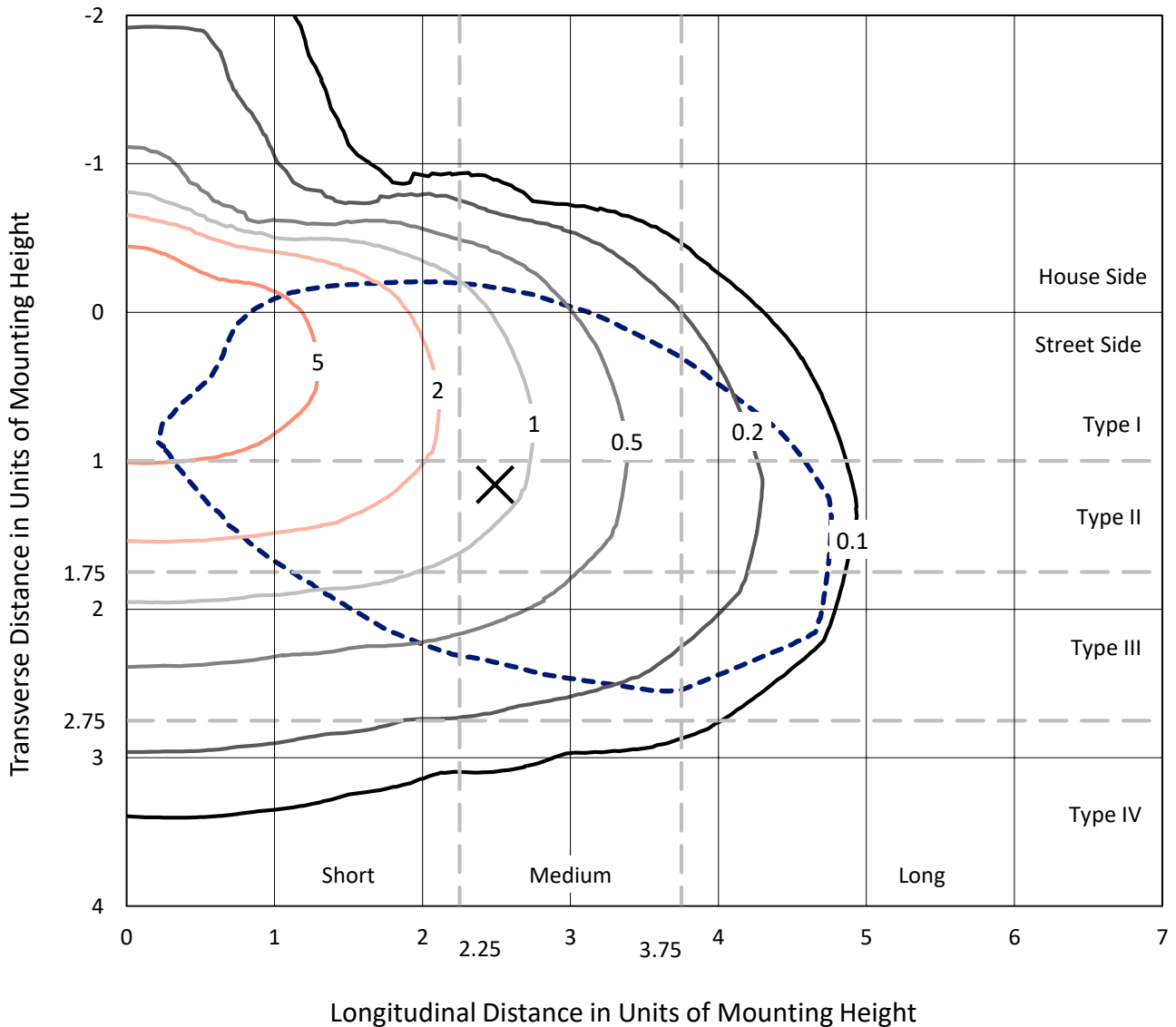
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

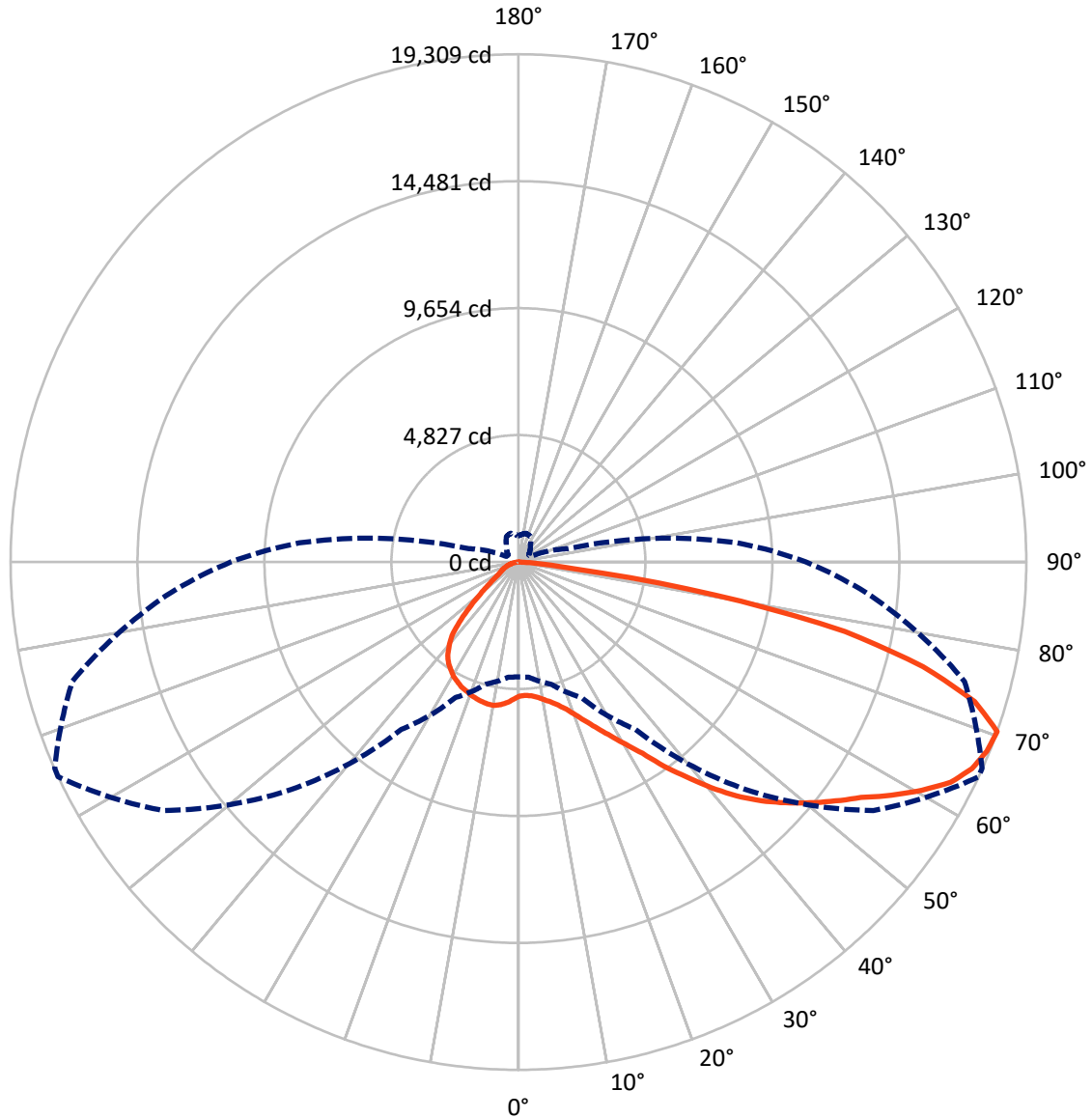
✕ Max cd
 - - - 1/2 Max cd



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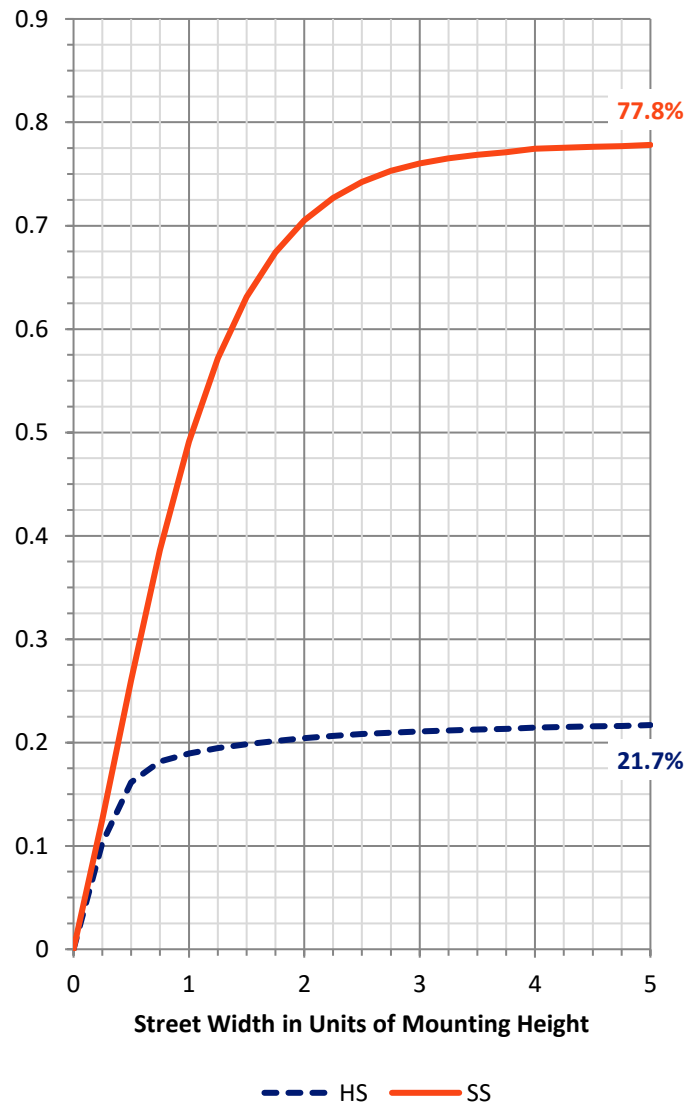
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7369.0	0.0	7369.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26037.0	0.0	26037.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	33406.0	0.0	33406.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	1.5
10°-20°	1617.0	4.8
20°-30°	2805.2	8.4
30°-40°	4078.7	12.2
40°-50°	5449.3	16.3
50°-60°	6637.7	19.9
60°-70°	7155.6	21.4
70°-80°	4639.2	13.9
80°-90°	511.7	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°	33406.0	100.0
0°-180°	33406.0	100.0



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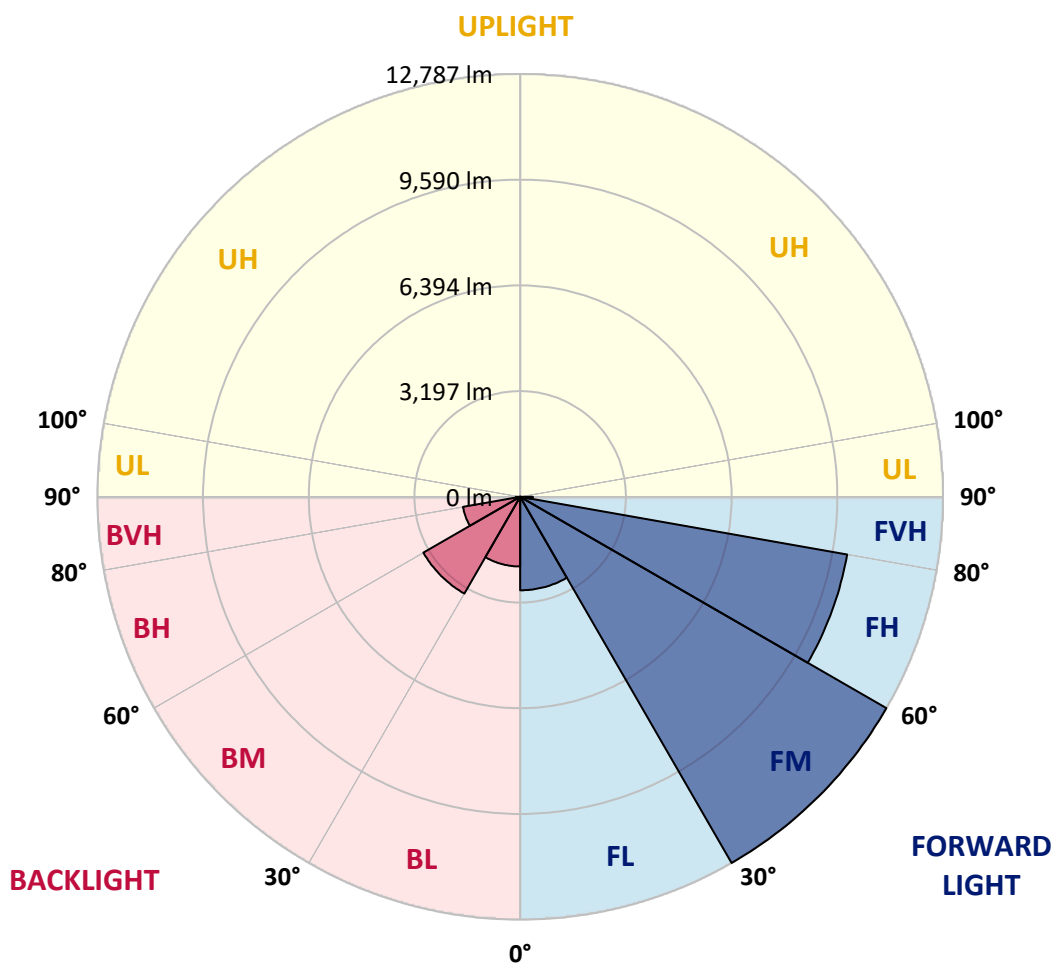
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2827.1	8.5			
FM (30°-60°)	12787.2	38.3			
FH (60°-80°)	10041.0	30.1			G4/12000
FVH (80°-90°)	381.6	1.1			G3/500
BL (0°-30°)	2106.8	6.3	B3/2500		
BM (30°-60°)	3378.5	10.1	B3/5000		
BH (60°-80°)	1753.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	130.1	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°	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1
2.5°	5024.8	5070.0	5045.9	5047.4	5082.1	5053.4	5073.0	5073.0	5071.5	5082.1	5113.7
5°	5148.3	5196.5	5167.9	5149.8	5157.4	5121.2	5113.7	5107.7	5103.2	5115.2	5167.9
7.5°	5329.1	5384.8	5353.2	5336.6	5327.6	5244.7	5229.7	5189.0	5184.5	5195.0	5243.2
10°	5568.6	5643.9	5606.2	5559.5	5527.9	5431.5	5354.7	5318.5	5308.0	5302.0	5351.7
12.5°	5913.5	5979.8	5936.1	5848.7	5806.6	5651.4	5559.5	5457.1	5455.6	5434.5	5472.2
15°	6240.4	6309.7	6253.9	6168.1	6112.3	5903.0	5767.4	5640.9	5625.8	5601.7	5613.8
17.5°	6556.7	6641.0	6601.9	6523.5	6455.8	6222.3	6044.6	5881.9	5865.3	5827.7	5771.9
20°	6949.8	7026.6	7016.1	6945.3	6870.0	6604.9	6410.6	6201.2	6183.1	6115.4	5990.3
22.5°	7342.9	7437.8	7379.1	7367.0	7324.9	7061.3	6790.1	6577.8	6559.7	6470.8	6241.9
25°	7713.5	7797.8	7818.9	7799.3	7803.9	7543.3	7273.7	7007.0	6989.0	6868.5	6537.1
27.5°	8151.8	8231.6	8237.6	8242.2	8294.9	8078.0	7761.7	7487.5	7475.5	7339.9	6919.7
30°	8487.7	8620.2	8647.3	8673.0	8700.1	8584.1	8296.4	8040.3	8016.2	7868.6	7350.5
32.5°	8795.0	8894.4	8990.8	9043.5	9165.5	9061.6	8825.1	8666.9	8668.4	8599.1	8037.3
35°	9032.9	9142.9	9264.9	9457.7	9635.4	9591.8	9518.0	9527.0	9528.5	9558.6	8963.7
37.5°	9260.4	9359.8	9513.4	9743.9	10057.2	10114.4	10164.1	10352.4	10418.7	10560.3	9819.2
40°	9397.5	9502.9	9701.7	10021.0	10427.7	10634.1	10784.7	11268.2	11382.7	11384.2	10480.4
42.5°	9197.1	9313.1	9668.6	10236.4	10762.1	11147.7	11543.9	12153.9	12236.7	12051.5	11045.3
45°	9017.9	9124.8	9507.4	10269.6	11024.2	11696.0	12247.3	12953.7	13013.9	12640.4	11566.4
47.5°	8844.7	8929.0	9371.9	10200.3	11292.3	12245.8	12846.8	13676.7	13720.4	13285.1	12075.6
50°	8605.2	8706.1	9176.0	10118.9	11453.5	12717.2	13434.2	14390.7	14384.6	13865.0	12536.5
52.5°	8343.1	8442.5	8947.1	9969.8	11558.9	13083.2	14103.0	15089.6	15094.1	14530.7	12992.9
55°	8013.2	8135.2	8666.9	9768.0	11584.5	13370.9	14682.9	15806.5	15880.3	15210.1	13432.7
57.5°	7618.6	7740.6	8322.0	9472.8	11432.4	13611.9	15301.9	16722.3	16761.5	15904.4	13761.0
60°	7159.2	7306.8	7862.6	9078.1	11141.7	13892.1	16052.0	17620.0	17633.6	16525.0	14035.2
62.5°	6627.5	6732.9	7317.3	8505.8	10677.8	14003.6	16672.6	18444.0	18447.0	16993.4	14158.7
65°	6052.1	6092.8	6582.3	7727.0	10001.5	13821.3	16910.6	18945.5	18932.0	17404.6	14096.9
67.5°	5366.7	5347.2	5869.8	6764.5	9145.9	13214.3	16794.6	19203.1	19243.8	17721.0	13898.1
70°	4363.6	4392.2	4807.9	5687.6	7764.7	12239.7	16475.3	19308.5	19298.0	17562.8	13258.0
72.5°	3312.2	3363.4	3664.7	4324.4	6026.5	10293.7	15107.6	18142.7	18163.8	16448.2	12105.7
75°	2048.5	2196.1	2450.7	2852.8	3776.2	7374.6	12858.8	15892.4	15999.3	14512.7	9968.3
77.5°	897.7	932.4	1060.4	1375.2	1974.7	3702.3	9505.9	12691.6	13007.9	11736.7	7190.8
80°	555.8	555.8	592.0	689.9	881.2	1376.7	3809.3	7577.9	7257.1	6713.3	3172.1
82.5°	462.4	462.4	480.5	497.1	451.9	582.9	1274.3	2123.8	2275.9	1842.1	974.5
85°	251.5	257.6	259.1	263.6	259.1	314.8	501.6	628.1	635.6	575.4	346.4
87.5°	91.9	97.9	94.9	88.9	79.8	75.3	96.4	97.9	100.9	93.4	51.2
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°	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1	5100.1
2.5°	5134.8	5155.9	5211.6	5216.1	5237.2	5244.7	5262.8	5288.4	5333.6	5311.0	5285.4
5°	5193.5	5220.6	5309.5	5354.7	5413.4	5448.1	5505.3	5533.9	5603.2	5580.6	5577.6
7.5°	5282.4	5339.6	5419.5	5463.1	5540.0	5562.6	5604.7	5604.7	5662.0	5633.4	5625.8
10°	5402.9	5440.6	5524.9	5527.9	5571.6	5571.6	5621.3	5589.7	5645.4	5612.3	5610.8
12.5°	5499.3	5520.4	5552.0	5526.4	5549.0	5523.4	5549.0	5511.3	5546.0	5503.8	5494.8
15°	5607.7	5579.1	5547.5	5487.2	5467.7	5427.0	5405.9	5366.7	5369.8	5321.6	5314.0
17.5°	5729.8	5655.9	5564.1	5433.0	5360.7	5256.8	5213.1	5157.4	5125.7	5082.1	5101.6
20°	5877.4	5767.4	5576.1	5372.8	5219.1	5061.0	4958.6	4868.2	4860.6	4821.5	4800.4
22.5°	6068.7	5892.4	5628.8	5286.9	5039.9	4814.0	4661.8	4511.2	4496.1	4416.3	4386.2
25°	6305.1	6058.1	5655.9	5220.6	4830.5	4520.2	4280.7	4071.4	3970.5	3886.1	3866.5
27.5°	6623.0	6302.1	5710.2	5101.6	4583.5	4155.7	3812.3	3535.2	3414.7	3372.5	3328.8
30°	6995.0	6600.4	5811.1	5002.2	4291.3	3690.3	3271.6	2941.7	2810.7	2744.4	2723.3
32.5°	7543.3	6976.9	5904.5	4838.1	3937.3	3178.2	2632.9	2268.4	2188.6	2176.5	2205.1
35°	8341.6	7684.9	6040.0	4685.9	3521.6	2608.8	2006.3	1768.3	1751.8	1754.8	1754.8
37.5°	9173.0	8359.7	6442.2	4461.5	3012.5	1964.1	1527.3	1397.8	1403.8	1403.8	1402.3
40°	9715.3	8901.9	6734.4	4143.7	2379.9	1408.3	1132.7	1034.8	1077.0	1134.2	1164.3
42.5°	10313.3	9394.4	6936.3	3777.7	1655.4	995.6	823.9	858.6	982.1	1069.4	1081.5
45°	10822.4	9813.2	6958.8	3208.3	1066.4	756.1	751.6	851.0	994.1	1089.0	1096.5
47.5°	11259.2	10194.3	6817.3	2557.6	777.2	706.4	751.6	876.6	1006.2	1064.9	1070.9
50°	11682.4	10497.0	6484.4	1965.6	707.9	688.4	760.7	881.2	962.5	1003.2	997.1
52.5°	12059.0	10772.7	6002.4	1533.4	680.8	676.3	768.2	876.6	927.8	924.8	920.3
55°	12345.2	10854.0	5625.8	1196.0	658.2	668.8	772.7	881.2	918.8	891.7	885.7
57.5°	12492.8	10753.1	5309.5	950.4	634.1	661.2	784.8	879.6	945.9	997.1	994.1
60°	12489.8	10638.6	4919.4	819.4	610.0	655.2	804.3	955.0	1194.5	1242.7	1244.2
62.5°	12441.6	10442.8	4384.7	741.1	582.9	658.2	817.9	1084.5	1360.1	1321.0	1289.3
65°	12281.9	10075.3	3667.7	656.7	548.3	661.2	811.9	1173.4	1247.2	1107.1	1087.5
67.5°	11837.6	9364.3	2879.9	587.4	516.6	644.7	822.4	1090.5	1146.3	1057.4	1028.8
70°	10935.3	8362.7	1952.1	506.1	480.5	620.6	798.3	1072.4	1131.2	1040.8	998.6
72.5°	9505.9	6711.8	1141.7	435.3	427.8	570.9	786.3	1084.5	1149.3	1048.3	994.1
75°	7398.7	4705.5	659.7	352.5	357.0	527.2	721.5	1022.7	1138.7	1060.4	989.6
77.5°	4776.3	2285.0	465.4	281.7	278.7	415.7	585.9	894.7	1096.5	1070.9	1012.2
80°	1709.6	834.5	326.9	209.4	203.3	281.7	450.4	720.0	927.8	961.0	961.0
82.5°	614.5	418.7	209.4	128.0	126.5	179.2	335.9	546.8	673.3	759.1	780.2
85°	257.6	182.3	102.4	64.8	52.7	69.3	173.2	338.9	456.4	491.0	534.7
87.5°	37.7	33.1	27.1	21.1	18.1	18.1	22.6	97.9	162.7	233.5	289.2
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)