

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: P510247

Luminaire Tested: **VERD-M-CA4-230-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510247
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-CA4-230-760-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32372 lumens
Efficiency: N/A
Efficacy: 138.8 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

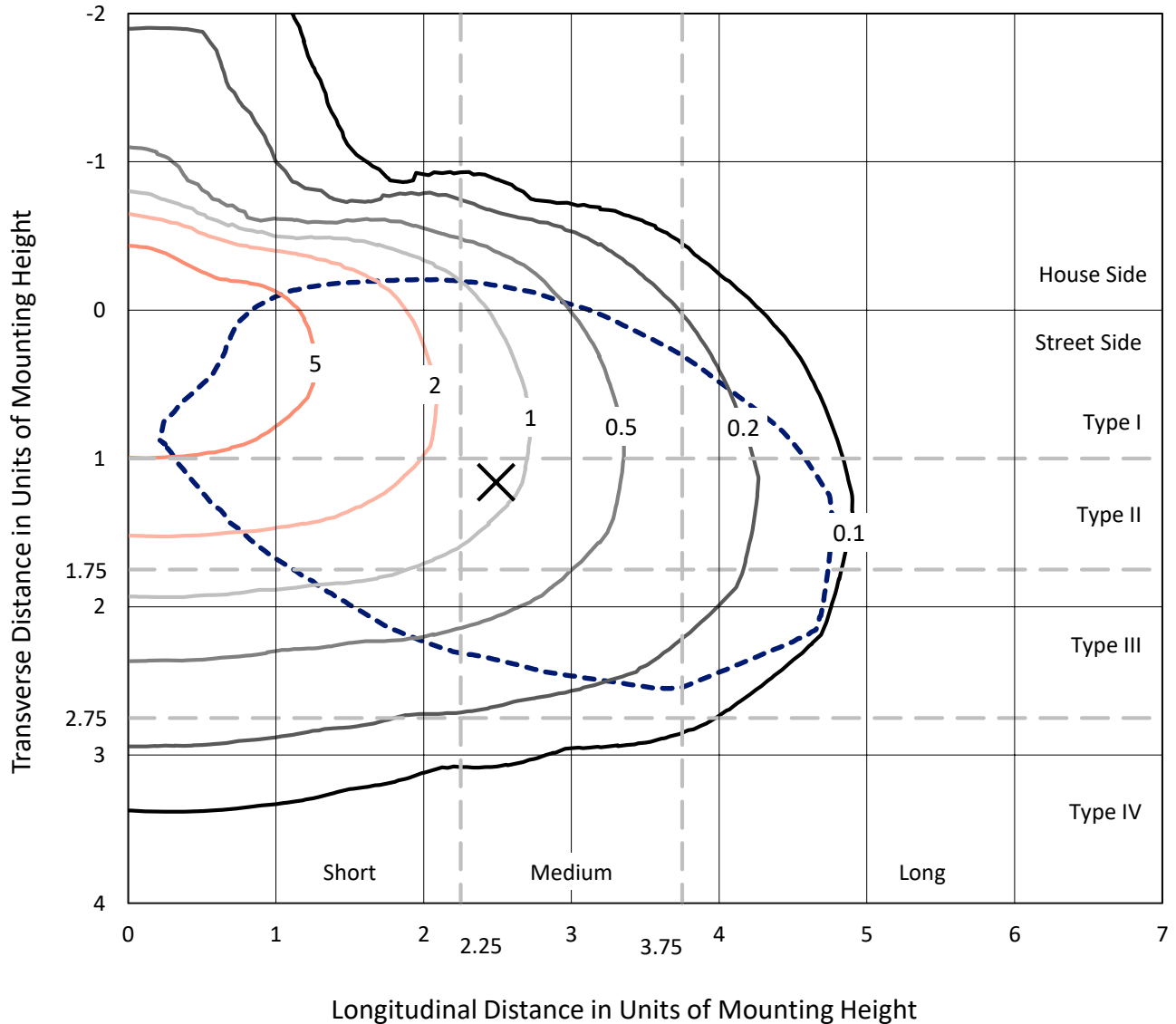
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

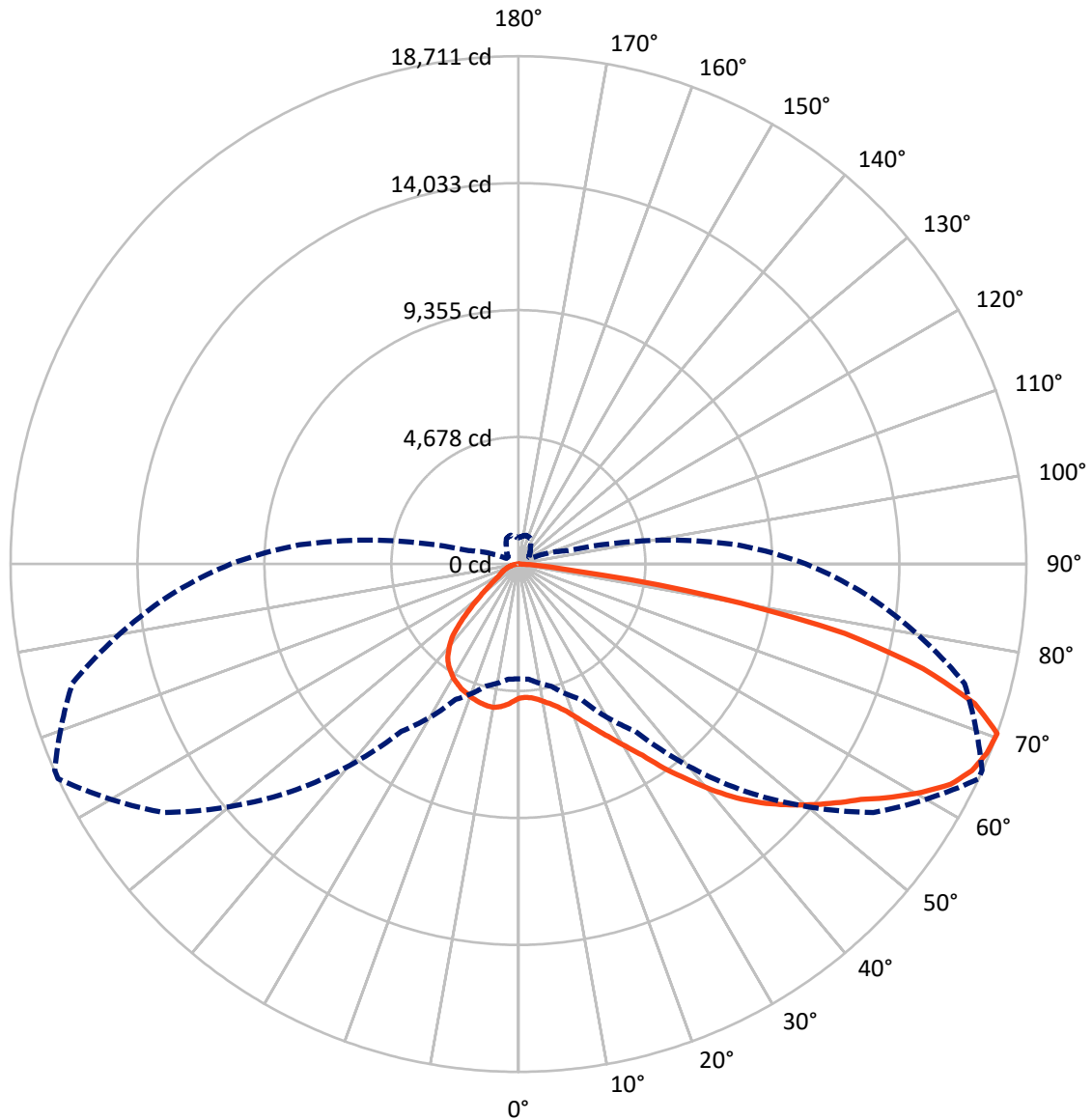
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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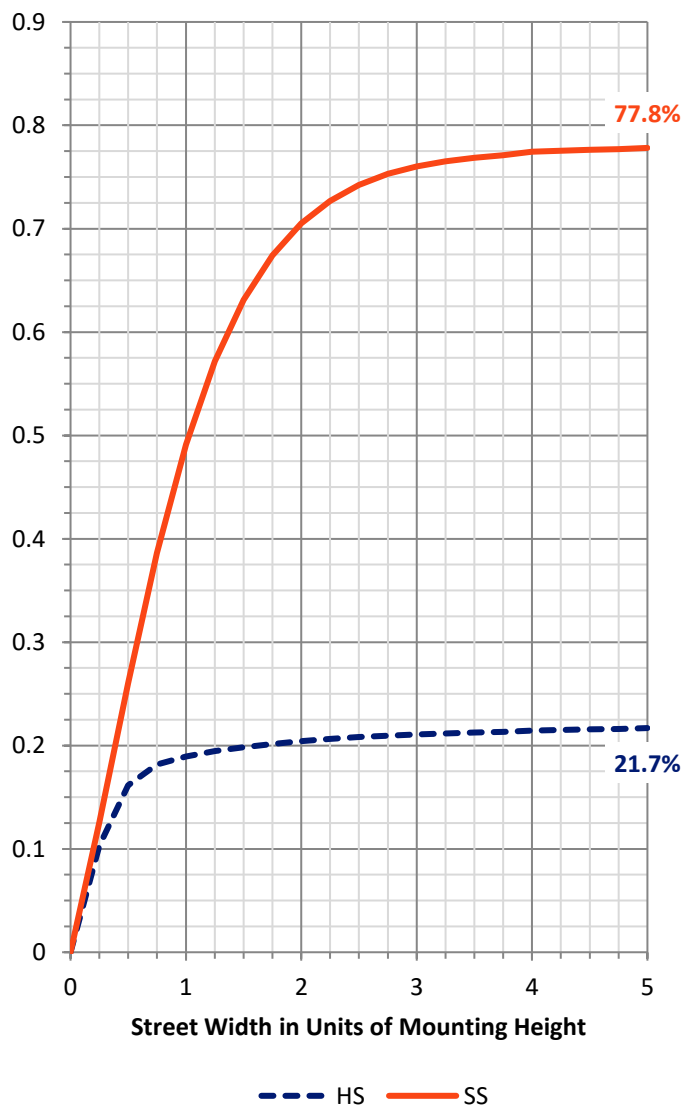
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7141.0	0.0	7141.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	25231.1	0.0	25231.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	32372.0	0.0	32372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.8	1.5
10°-20°	1567.0	4.8
20°-30°	2718.4	8.4
30°-40°	3952.5	12.2
40°-50°	5280.6	16.3
50°-60°	6432.2	19.9
60°-70°	6934.1	21.4
70°-80°	4495.6	13.9
80°-90°	495.8	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°	32372.0	100.0
0°-180°	32372.0	100.0

Coefficient of Utilization



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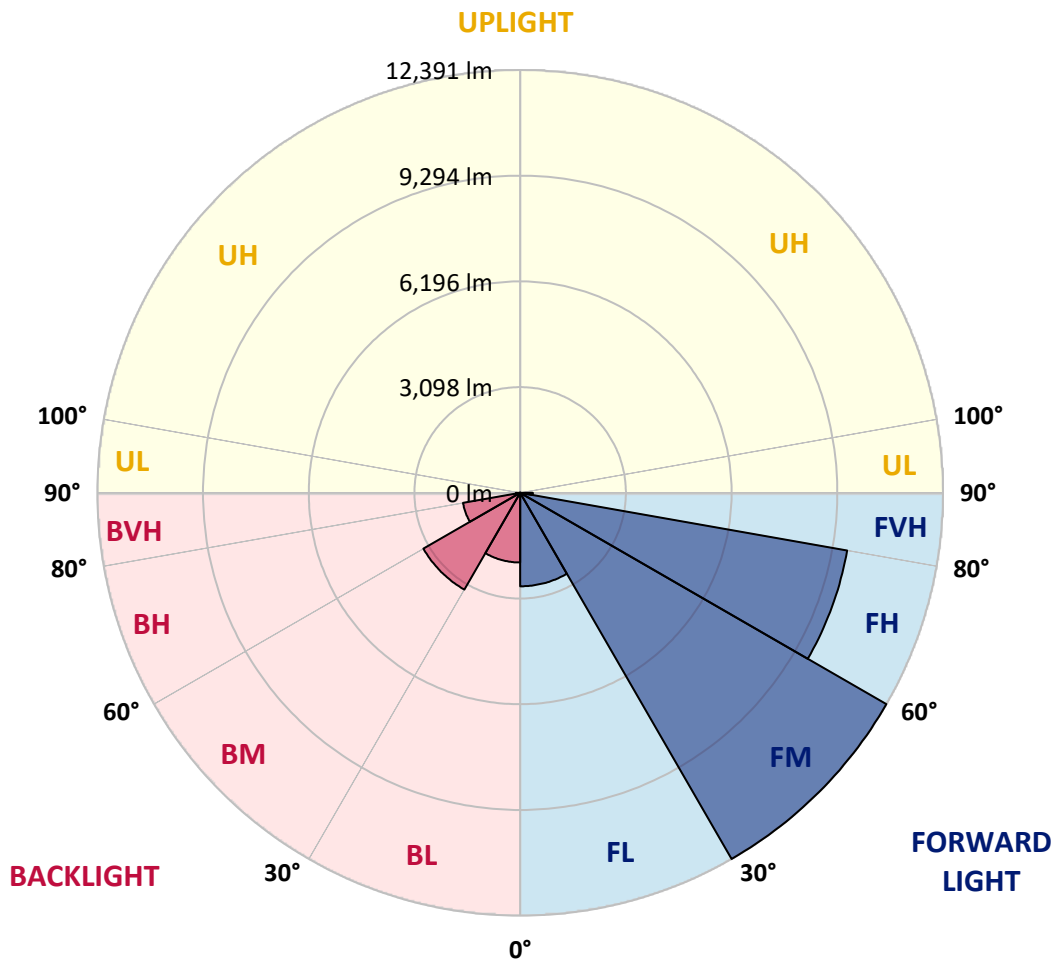
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.6	8.5			
FM (30°-60°)	12391.4	38.3			
FH (60°-80°)	9730.2	30.1			G4/12000
FVH (80°-90°)	369.8	1.1			G3/500
BL (0°-30°)	2041.6	6.3	B3/2500		
BM (30°-60°)	3273.9	10.1	B3/5000		
BH (60°-80°)	1699.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	126.0	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°	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3
2.5°	4869.3	4913.1	4889.7	4891.2	4924.8	4897.0	4916.0	4916.0	4914.5	4924.8	4955.4
5°	4989.0	5035.7	5008.0	4990.4	4997.7	4962.7	4955.4	4949.6	4945.2	4956.9	5008.0
7.5°	5164.1	5218.1	5187.5	5171.4	5162.7	5082.4	5067.8	5028.4	5024.0	5034.2	5080.9
10°	5396.2	5469.2	5432.7	5387.5	5356.8	5263.4	5189.0	5153.9	5143.7	5137.9	5186.0
12.5°	5730.5	5794.7	5752.4	5667.7	5626.8	5476.5	5387.5	5288.2	5286.8	5266.3	5302.8
15°	6047.2	6114.4	6060.4	5977.2	5923.1	5720.3	5588.9	5466.3	5451.7	5428.3	5440.0
17.5°	6353.7	6435.5	6397.5	6321.6	6255.9	6029.7	5857.5	5699.8	5683.8	5647.3	5593.3
20°	6734.7	6809.1	6798.9	6730.3	6657.3	6400.4	6212.2	6009.3	5991.7	5926.1	5804.9
22.5°	7115.7	7207.6	7150.7	7139.0	7098.1	6842.7	6580.0	6374.2	6356.7	6270.5	6048.7
25°	7474.7	7556.5	7576.9	7557.9	7562.3	7309.8	7048.5	6790.2	6772.6	6655.9	6334.8
27.5°	7899.5	7976.8	7982.7	7987.1	8038.1	7828.0	7521.4	7255.8	7244.1	7112.7	6705.5
30°	8225.0	8353.4	8379.7	8404.5	8430.8	8318.4	8039.6	7791.5	7768.1	7625.1	7123.0
32.5°	8522.7	8619.1	8712.5	8763.6	8881.8	8781.1	8551.9	8398.7	8400.1	8333.0	7788.5
35°	8753.4	8859.9	8978.1	9165.0	9337.2	9294.9	9223.4	9232.1	9233.6	9262.8	8686.2
37.5°	8973.8	9070.1	9219.0	9442.3	9745.9	9801.4	9849.5	10032.0	10096.2	10233.4	9515.3
40°	9106.6	9208.8	9401.4	9710.9	10105.0	10304.9	10450.9	10919.4	11030.4	11031.8	10156.0
42.5°	8912.5	9024.8	9369.3	9919.6	10429.0	10802.7	11186.5	11777.7	11858.0	11678.4	10703.4
45°	8738.8	8842.4	9213.1	9951.7	10683.0	11334.0	11868.2	12552.7	12611.1	12249.1	11208.4
47.5°	8570.9	8652.6	9081.8	9884.6	10942.8	11866.7	12449.1	13253.4	13295.7	12873.9	11701.8
50°	8338.8	8436.6	8892.0	9805.7	11099.0	12323.6	13018.4	13945.2	13939.4	13435.8	12148.4
52.5°	8084.8	8181.2	8670.2	9661.2	11201.1	12678.3	13666.4	14622.5	14626.9	14081.0	12590.7
55°	7765.2	7883.4	8398.7	9465.6	11226.0	12957.1	14228.4	15317.3	15388.8	14739.3	13016.9
57.5°	7382.8	7501.0	8064.4	9179.6	11078.5	13190.6	14828.3	16204.7	16242.7	15412.1	13335.1
60°	6937.6	7080.6	7619.2	8797.1	10796.8	13462.1	15555.2	17074.7	17087.8	16013.5	13600.8
62.5°	6422.3	6524.5	7090.8	8242.5	10347.3	13570.1	16156.6	17873.1	17876.0	16467.5	13720.4
65°	5864.8	5904.2	6378.5	7487.9	9691.9	13393.5	16387.2	18359.1	18346.0	16865.9	13660.6
67.5°	5200.6	5181.7	5688.1	6555.2	8862.8	12805.3	16274.8	18608.7	18648.1	17172.5	13467.9
70°	4228.5	4256.3	4659.1	5511.5	7524.4	11860.9	15965.3	18710.9	18700.7	17019.2	12847.6
72.5°	3209.7	3259.3	3551.3	4190.6	5839.9	9975.1	14640.0	17581.1	17601.6	15939.1	11731.0
75°	1985.1	2128.1	2374.8	2764.5	3659.3	7146.3	12460.8	15400.5	15504.1	14063.5	9659.8
77.5°	869.9	903.5	1027.6	1332.6	1913.6	3587.8	9211.7	12298.8	12605.3	11373.4	6968.2
80°	538.6	538.6	573.6	668.5	853.9	1334.1	3691.4	7343.4	7032.5	6505.5	3074.0
82.5°	448.1	448.1	465.6	481.7	437.9	564.9	1234.8	2058.1	2205.5	1785.1	944.4
85°	243.8	249.6	251.1	255.4	251.1	305.1	486.1	608.7	616.0	557.6	335.7
87.5°	89.0	94.9	92.0	86.1	77.4	73.0	93.4	94.9	97.8	90.5	49.6
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°	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3	4942.3
2.5°	4975.9	4996.3	5050.3	5054.7	5075.1	5082.4	5099.9	5124.7	5168.5	5146.6	5121.8
5°	5032.8	5059.0	5145.2	5189.0	5245.9	5279.5	5334.9	5362.7	5429.8	5407.9	5405.0
7.5°	5118.9	5174.4	5251.7	5294.0	5368.5	5390.4	5431.3	5431.3	5486.7	5459.0	5451.7
10°	5235.7	5272.2	5353.9	5356.8	5399.1	5399.1	5447.3	5416.7	5470.7	5438.6	5437.1
12.5°	5329.1	5349.5	5380.2	5355.4	5377.2	5352.4	5377.2	5340.8	5374.3	5333.5	5324.7
15°	5434.2	5406.4	5375.8	5317.4	5298.4	5259.0	5238.6	5200.6	5203.6	5156.8	5149.5
17.5°	5552.4	5480.9	5391.8	5264.9	5194.8	5094.1	5051.8	4997.7	4967.1	4924.8	4943.7
20°	5695.4	5588.9	5403.5	5206.5	5057.6	4904.3	4805.1	4717.5	4710.2	4672.2	4651.8
22.5°	5880.8	5710.0	5454.6	5123.3	4883.9	4665.0	4517.5	4371.6	4357.0	4279.6	4250.4
25°	6110.0	5870.6	5480.9	5059.0	4681.0	4380.3	4148.2	3945.4	3847.6	3765.8	3746.8
27.5°	6418.0	6107.1	5533.4	4943.7	4441.6	4027.1	3694.3	3425.7	3309.0	3268.1	3225.8
30°	6778.5	6396.1	5631.2	4847.4	4158.5	3576.1	3170.3	2850.6	2723.7	2659.4	2639.0
32.5°	7309.8	6761.0	5721.7	4688.3	3815.5	3079.8	2551.4	2198.2	2120.8	2109.2	2136.9
35°	8083.4	7447.0	5853.1	4540.9	3412.6	2528.1	1944.2	1713.6	1697.5	1700.5	1700.5
37.5°	8889.1	8100.9	6242.8	4323.4	2919.2	1903.3	1480.1	1354.5	1360.4	1360.4	1358.9
40°	9414.6	8626.4	6526.0	4015.4	2306.2	1364.7	1097.6	1002.8	1043.6	1099.1	1128.3
42.5°	9994.0	9103.7	6721.6	3660.7	1604.1	964.8	798.4	832.0	951.7	1036.3	1048.0
45°	10487.4	9509.4	6743.5	3109.0	1033.4	732.7	728.4	824.7	963.4	1055.3	1062.6
47.5°	10910.7	9878.7	6606.2	2478.4	753.2	684.6	728.4	849.5	975.0	1032.0	1037.8
50°	11320.8	10172.1	6283.7	1904.8	686.0	667.0	737.1	853.9	932.7	972.1	966.3
52.5°	11685.7	10439.2	5816.6	1485.9	659.7	655.4	744.4	849.5	899.1	896.2	891.8
55°	11963.1	10518.0	5451.7	1158.9	637.9	648.1	748.8	853.9	890.4	864.1	858.3
57.5°	12106.1	10420.2	5145.2	921.0	614.5	640.8	760.5	852.4	916.6	966.3	963.4
60°	12103.2	10309.3	4767.1	794.0	591.1	634.9	779.4	925.4	1157.5	1204.2	1205.6
62.5°	12056.5	10119.6	4249.0	718.1	564.9	637.9	792.6	1050.9	1318.0	1280.1	1249.4
65°	11901.8	9763.4	3554.2	636.4	531.3	640.8	786.7	1137.0	1208.6	1072.8	1053.8
67.5°	11471.2	9074.5	2790.8	569.3	500.7	624.7	797.0	1056.8	1110.8	1024.7	996.9
70°	10596.9	8103.8	1891.7	490.4	465.6	601.4	773.6	1039.3	1096.2	1008.6	967.7
72.5°	9211.7	6504.1	1106.4	421.8	414.5	553.2	761.9	1050.9	1113.7	1015.9	963.4
75°	7169.7	4559.9	639.3	341.6	345.9	510.9	699.2	991.1	1103.5	1027.6	959.0
77.5°	4628.5	2214.2	451.0	272.9	270.0	402.9	567.8	867.0	1062.6	1037.8	980.9
80°	1656.7	808.6	316.7	202.9	197.0	272.9	436.4	697.7	899.1	931.2	931.2
82.5°	595.5	405.8	202.9	124.1	122.6	173.7	325.5	529.8	652.5	735.6	756.1
85°	249.6	176.6	99.3	62.8	51.1	67.1	167.9	328.4	442.3	475.8	518.2
87.5°	36.5	32.1	26.3	20.4	17.5	17.5	21.9	94.9	157.6	226.2	280.2
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)