

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: P510133

Luminaire Tested: **VERD-M-CA4-210-740-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510133
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-CA4-210-740-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 960mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30110 lumens
Efficiency: N/A
Efficacy: 141.0 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

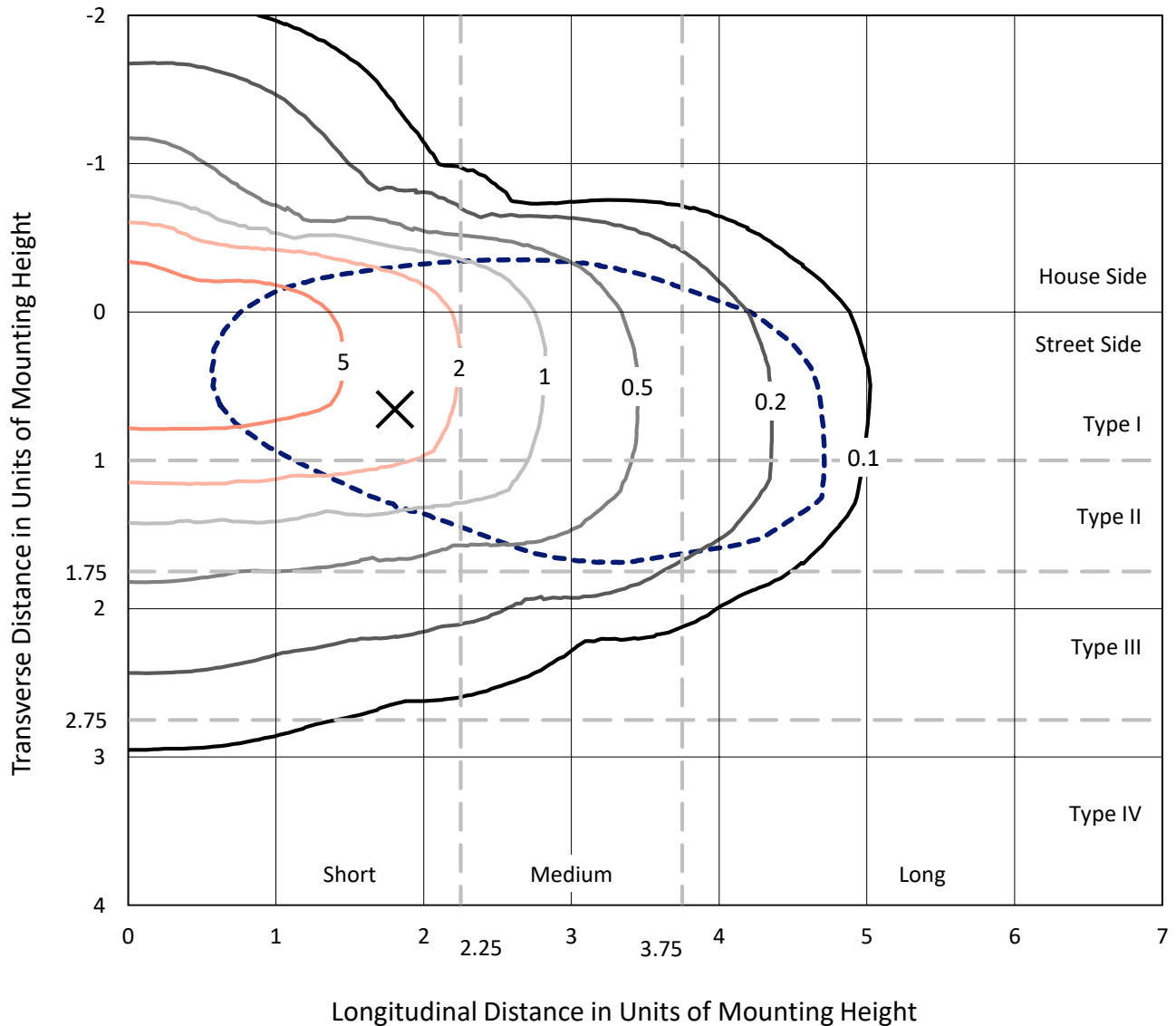
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

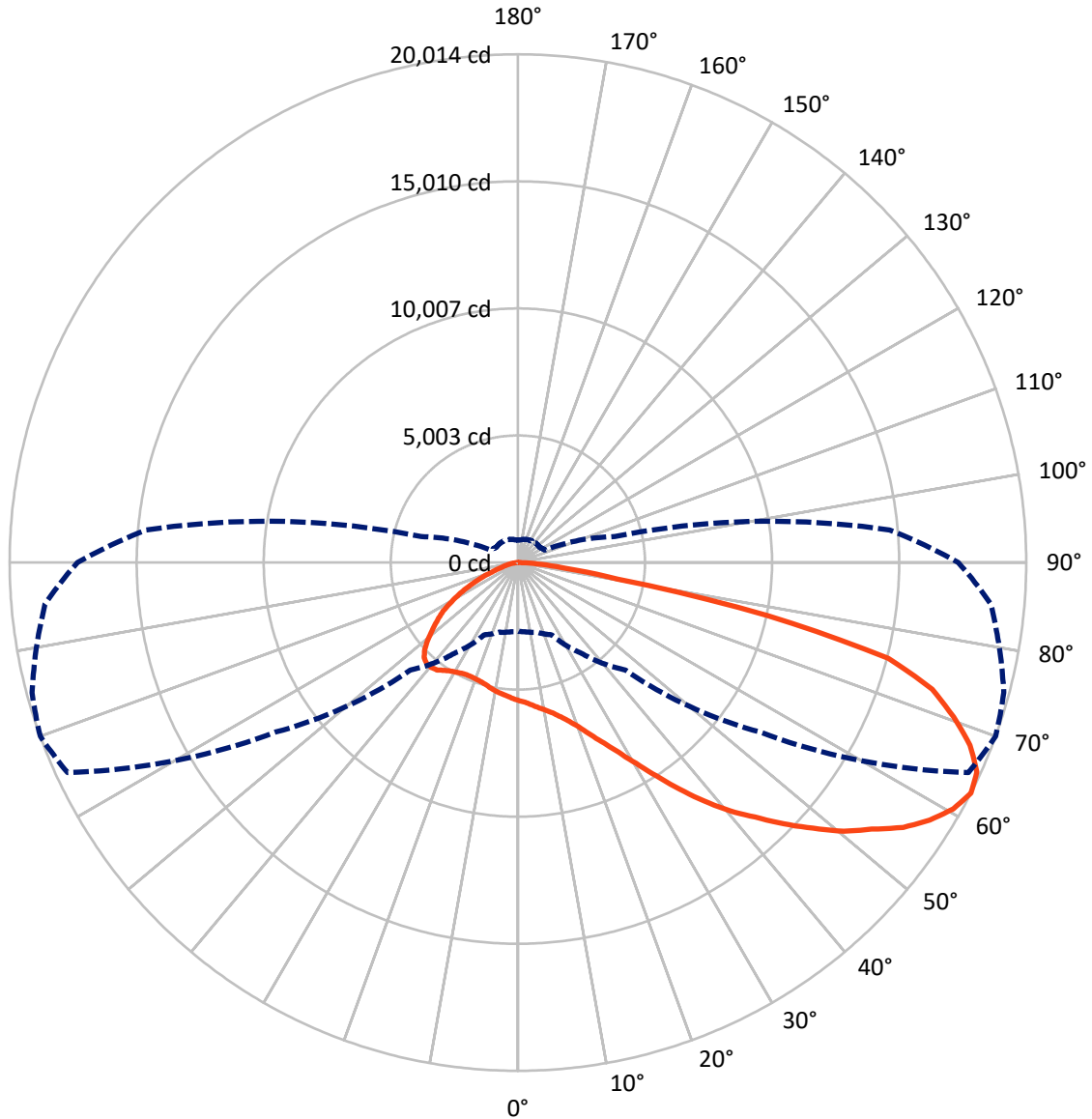
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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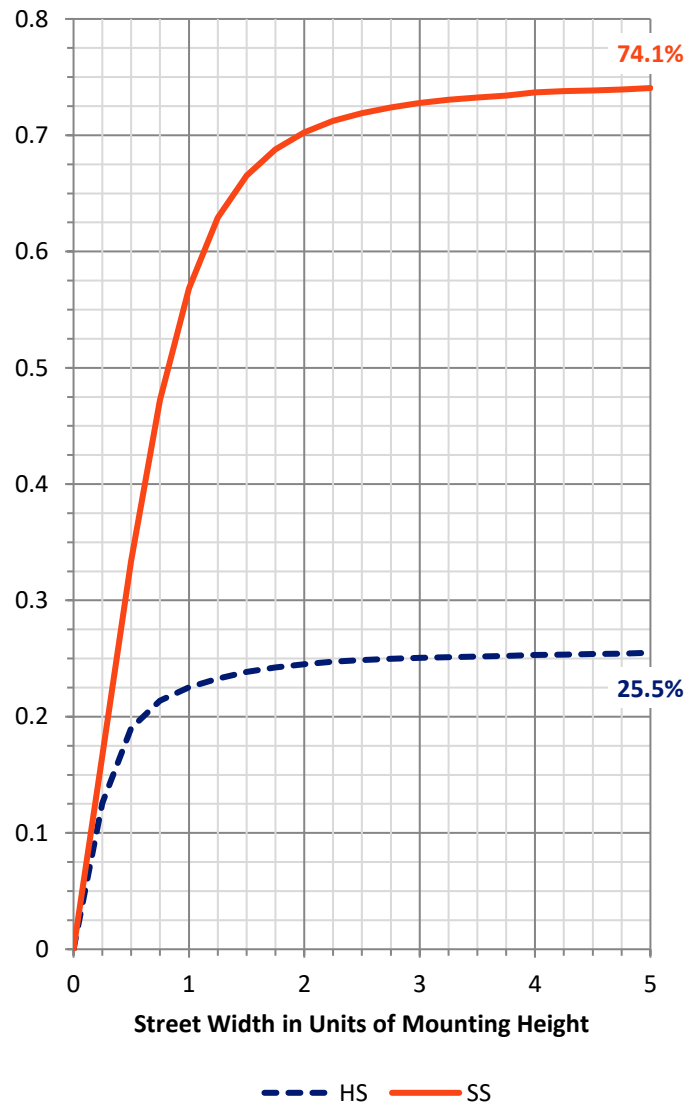
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7795.6	0.0	7795.6
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	22314.4	0.0	22314.4
	% Fixture	74.1	0.0	74.1
Total	Lumens	30110.0	0.0	30110.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.0	1.7
10°-20°	1585.2	5.3
20°-30°	2690.3	8.9
30°-40°	3892.7	12.9
40°-50°	5108.1	17.0
50°-60°	5968.7	19.8
60°-70°	5989.9	19.9
70°-80°	3816.8	12.7
80°-90°	536.4	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°	30110.0	100.0
0°-180°	30110.0	100.0



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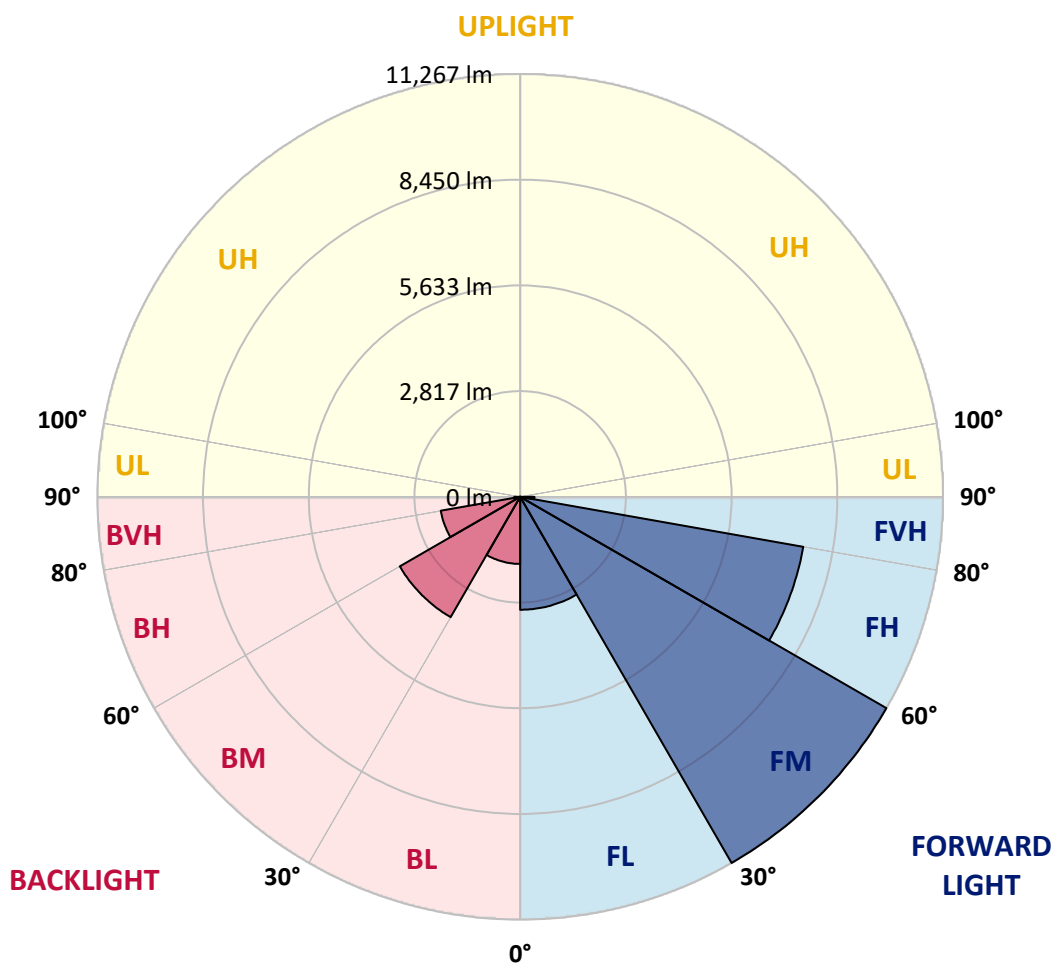
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3009.5	10.0			
FM	(30°-60°)	11266.8	37.4			
FH	(60°-80°)	7659.7	25.4			G4/12000
FVH	(80°-90°)	378.4	1.3			G3/500
BL	(0°-30°)	1787.9	5.9	B3/2500		
BM	(30°-60°)	3702.7	12.3	B3/5000		
BH	(60°-80°)	2147.0	7.1	B3/2500		G3/2500
BVH	(80°-90°)	158.0	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°	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4
2.5°	5642.6	5702.5	5694.3	5657.6	5683.4	5612.7	5586.8	5547.4	5506.6	5492.9	5469.8
5°	5909.3	5988.2	5973.3	5924.3	5922.9	5822.2	5765.1	5690.2	5627.7	5578.7	5506.6
7.5°	6158.3	6249.5	6235.9	6188.2	6185.5	6069.9	5951.5	5834.5	5762.4	5699.8	5567.8
10°	6422.3	6491.7	6479.4	6418.2	6405.9	6293.0	6154.2	6007.3	5901.1	5814.1	5626.3
12.5°	6665.8	6739.3	6744.7	6668.5	6649.5	6528.4	6407.3	6212.7	6075.3	5976.0	5699.8
15°	6893.1	6980.1	6963.8	6887.6	6867.2	6744.7	6626.4	6446.8	6303.9	6165.1	5819.5
17.5°	7075.4	7158.4	7138.0	7104.0	7093.1	6997.8	6899.9	6705.3	6578.7	6400.5	6004.6
20°	7200.6	7278.1	7286.3	7276.8	7339.4	7249.5	7195.1	7057.7	6918.9	6758.4	6257.6
22.5°	7249.5	7342.1	7421.0	7482.2	7611.5	7597.9	7588.3	7509.4	7373.4	7139.3	6592.4
25°	7264.5	7357.0	7479.5	7630.5	7861.8	7944.8	8004.7	8023.8	7875.4	7690.4	7008.7
27.5°	7267.2	7366.6	7491.7	7735.3	8087.7	8338.1	8480.9	8547.6	8464.6	8317.7	7574.7
30°	7210.1	7312.1	7472.7	7797.9	8264.6	8675.5	8912.3	9207.5	9172.1	9048.3	8283.6
32.5°	7045.4	7138.0	7359.8	7787.0	8440.1	9021.1	9389.9	9901.5	10021.2	9940.9	9101.4
35°	6750.2	6863.1	7150.2	7697.2	8535.4	9357.2	9951.8	10747.8	10964.1	10969.6	10104.2
37.5°	6452.2	6537.9	6875.4	7528.5	8588.4	9655.2	10485.2	11595.5	11909.8	11916.6	10938.3
40°	6135.2	6214.1	6585.5	7302.6	8534.0	9889.2	10981.8	12410.5	12860.9	12818.7	11757.4
42.5°	5724.3	5811.3	6180.1	6995.1	8397.9	10070.2	11486.6	13266.3	13699.0	13746.7	12611.9
45°	5373.2	5442.6	5765.1	6514.8	8148.9	10168.1	11960.1	14179.3	14674.6	14624.3	13523.5
47.5°	4940.5	5043.9	5388.2	6124.3	7701.3	10143.7	12413.2	15082.8	15633.9	15587.6	14314.0
50°	3811.2	3930.9	4731.0	5714.7	7129.8	9951.8	12824.1	15946.8	16631.2	16510.1	15150.8
52.5°	3461.5	3495.5	3813.9	5243.9	6566.5	9516.4	13126.2	17038.1	17443.5	17395.9	15998.5
55°	3247.9	3313.2	3458.8	4320.1	6060.3	8808.9	13335.7	17949.7	18406.9	18183.7	16765.9
57.5°	3060.1	3106.4	3279.2	3698.2	5478.0	7834.6	13274.5	18718.5	19126.7	18815.1	17515.7
60°	2860.1	2890.0	3062.8	3375.8	4849.4	6758.4	12652.7	19511.7	19692.7	19407.0	18149.7
62.5°	2705.0	2733.5	2837.0	3137.7	4359.5	5988.2	11634.9	19567.5	20013.8	19805.6	18688.5
65°	2506.3	2525.4	2654.6	2891.4	3905.1	5529.7	10738.3	19043.7	19858.7	19807.0	18895.4
67.5°	2287.3	2310.4	2432.8	2600.2	3324.1	4989.5	9238.8	18760.7	19202.9	19253.2	18507.6
70°	2030.1	2046.4	2173.0	2294.1	2843.8	4379.9	7344.8	17676.2	18191.9	18190.5	17310.2
72.5°	1752.5	1751.2	1876.3	2004.2	2382.5	3679.2	5750.1	15693.7	17058.5	16956.4	15606.7
75°	1445.0	1465.4	1586.5	1687.2	1982.5	2982.5	4004.4	11368.2	15059.7	15199.8	13469.1
77.5°	923.9	937.5	1005.5	1108.9	1386.5	2279.1	2612.4	6317.5	10055.2	12128.8	10602.2
80°	674.9	681.7	741.6	801.4	922.5	1387.9	1328.0	2745.8	3985.3	5954.2	6503.9
82.5°	459.9	461.3	508.9	522.5	529.3	625.9	630.0	1336.2	1898.1	2235.5	2872.3
85°	304.8	253.1	197.3	261.2	268.0	229.9	224.5	602.8	941.6	1129.3	1064.0
87.5°	68.0	66.7	77.6	78.9	76.2	65.3	54.4	92.5	141.5	140.1	179.6
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°	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4	5434.4
2.5°	5448.0	5441.2	5403.1	5322.9	5268.4	5212.7	5181.4	5162.3	5169.1	5137.8	5124.2
5°	5461.7	5427.6	5320.1	5224.9	5139.2	5042.6	4962.3	4951.4	4967.7	4939.2	4922.8
7.5°	5497.0	5424.9	5287.5	5124.2	4981.3	4890.2	4774.5	4716.0	4711.9	4683.4	4688.8
10°	5517.4	5423.6	5239.9	5042.6	4875.2	4713.3	4589.5	4524.2	4520.1	4479.3	4469.7
12.5°	5573.2	5438.5	5184.1	4943.2	4756.8	4540.5	4409.9	4350.0	4343.2	4286.1	4264.3
15°	5658.9	5472.5	5125.6	4827.6	4586.8	4384.0	4227.5	4147.3	4135.0	4068.3	4045.2
17.5°	5795.0	5569.1	5107.9	4722.8	4438.4	4216.7	4033.0	3945.9	3875.1	3838.4	3807.1
20°	5978.7	5688.9	5128.3	4624.9	4252.0	3996.2	3767.6	3653.3	3604.4	3544.5	3548.6
22.5°	6239.9	5876.7	5163.7	4548.7	4083.3	3760.8	3503.7	3375.8	3287.3	3237.0	3239.7
25°	6607.3	6159.7	5233.1	4476.5	3899.6	3503.7	3200.3	3022.0	2932.2	2899.5	2865.5
27.5°	7071.3	6498.5	5397.7	4388.1	3681.9	3212.5	2876.4	2668.2	2577.1	2528.1	2521.3
30°	7667.3	6943.4	5590.9	4322.8	3453.3	2849.2	2475.0	2310.4	2230.1	2160.7	2128.1
32.5°	8393.9	7572.0	5805.9	4257.5	3170.3	2442.4	2103.6	1977.0	1849.1	1760.7	1764.8
35°	9237.5	8256.4	6125.6	4174.5	2838.3	2062.7	1828.7	1665.4	1545.7	1487.2	1460.0
37.5°	10033.4	8958.5	6501.2	4090.1	2466.9	1816.5	1557.9	1406.9	1314.4	1269.5	1279.0
40°	10838.9	9682.4	6825.0	3883.3	2050.5	1593.3	1289.9	1204.2	1167.4	1132.1	1136.1
42.5°	11560.1	10259.3	7061.8	3653.3	1759.3	1337.5	1099.4	1118.5	1140.2	1119.8	1114.4
45°	12311.2	10934.2	7270.0	3261.5	1515.8	1136.1	1051.8	1104.8	1152.5	1149.7	1142.9
47.5°	13065.0	11560.1	7290.4	2741.7	1294.0	1068.1	1050.4	1089.9	1152.5	1163.4	1155.2
50°	13841.9	12215.9	7170.6	2129.4	1200.1	1076.3	1051.8	1058.6	1128.0	1140.2	1136.1
52.5°	14703.2	12924.8	6875.4	1619.2	1163.4	1089.9	1055.9	1046.3	1085.8	1107.6	1111.7
55°	15495.1	13488.1	6321.6	1430.0	1136.1	1091.2	1085.8	1054.5	1055.9	1045.0	1072.2
57.5°	16160.4	14025.6	5693.0	1326.6	1111.7	1079.0	1099.4	1040.9	1024.6	979.7	968.8
60°	16848.9	14462.4	4808.5	1255.9	1083.1	1064.0	1065.4	1017.8	976.9	911.6	892.6
62.5°	17337.4	14693.7	3950.0	1172.9	1043.6	1040.9	1020.5	985.1	948.4	891.2	883.1
65°	17478.9	14571.2	3034.3	1085.8	991.9	1002.8	966.1	917.1	764.7	693.9	693.9
67.5°	17010.9	13817.4	2246.4	985.1	929.3	951.1	879.0	722.5	643.6	601.4	608.2
70°	15727.8	12599.6	1462.7	838.2	839.5	857.2	725.2	650.4	575.6	549.7	563.3
72.5°	14013.3	10794.0	964.7	668.1	707.5	677.6	662.6	598.7	532.0	502.1	511.6
75°	11547.8	8523.1	669.4	525.2	458.5	578.3	589.2	503.4	451.7	548.3	570.1
77.5°	9123.2	5924.3	552.4	367.4	338.8	427.2	472.1	466.7	747.0	877.6	868.1
80°	5424.9	3411.2	450.4	254.4	239.5	274.9	371.5	536.1	836.8	628.6	598.7
82.5°	2460.1	1551.1	239.5	133.3	156.5	182.3	277.6	666.7	548.3	402.8	379.6
85°	960.6	506.2	95.2	58.5	54.4	68.0	126.5	321.1	220.4	178.2	178.2
87.5°	123.8	91.2	27.2	20.4	17.7	21.8	40.8	178.2	103.4	87.1	84.4
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)