

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: P510045

Luminaire Tested: **VERD-M-CA4-190-750-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510045
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-CA4-190-750-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 870mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28154 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

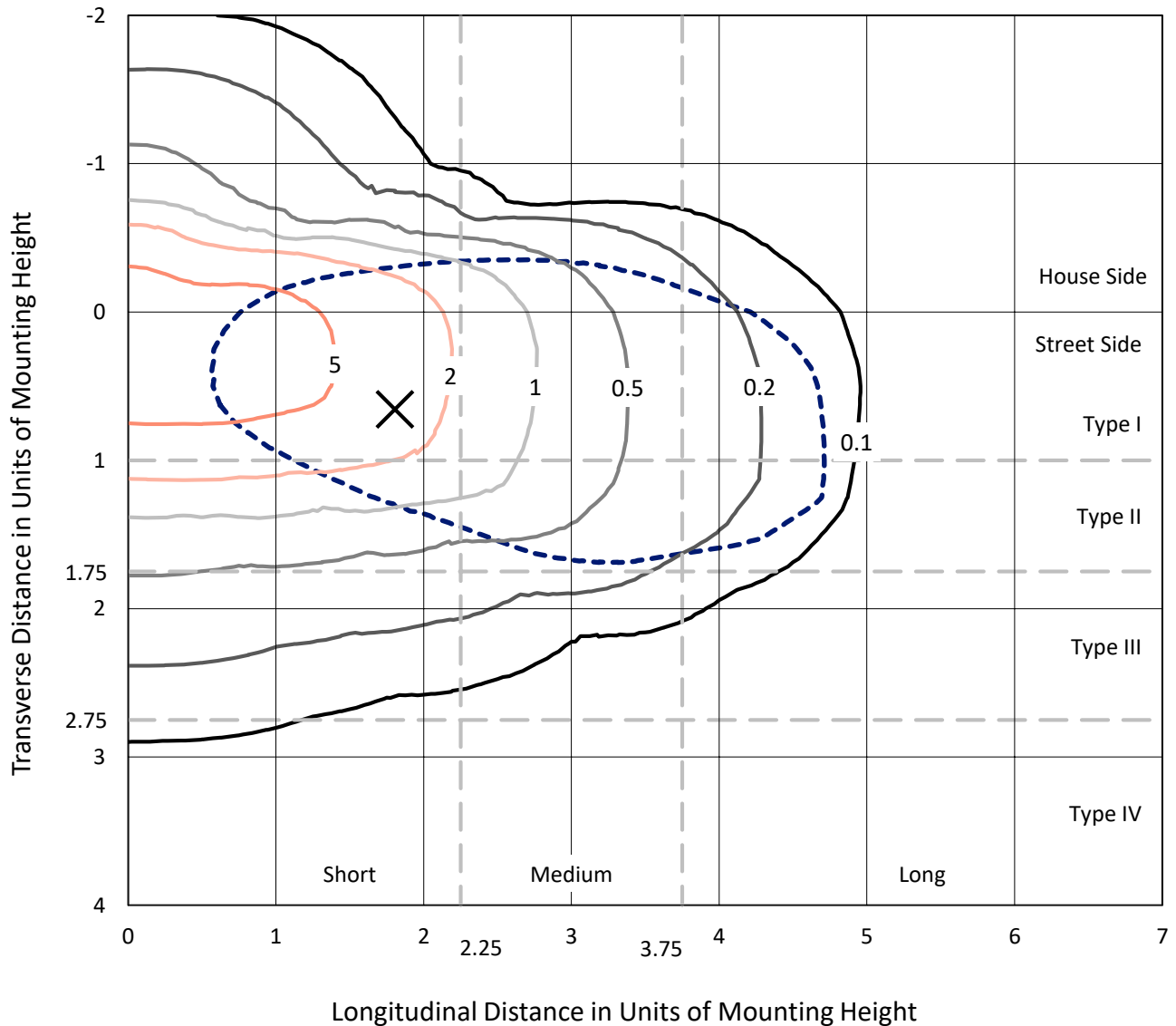
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

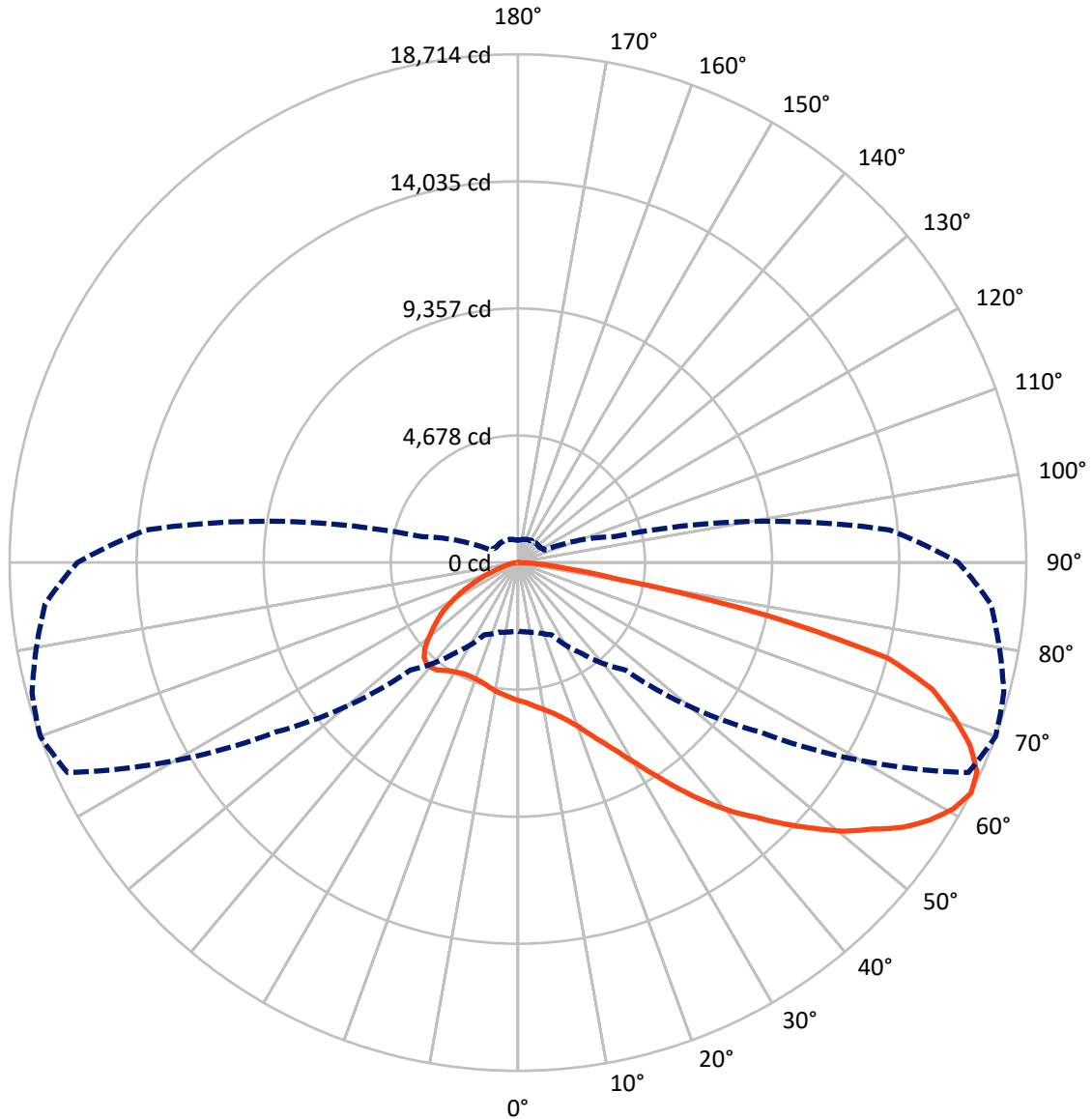
× Max cd
 - - - 1/2 Max cd



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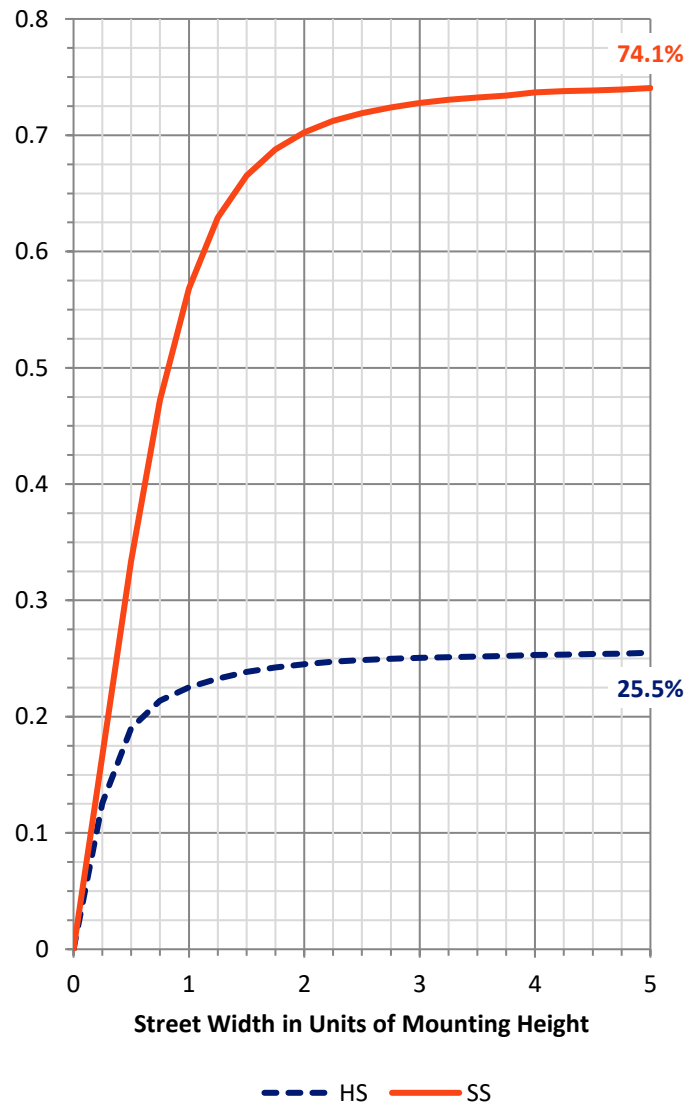
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7289.2	0.0	7289.2
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	20864.8	0.0	20864.8
	% Fixture	74.1	0.0	74.1
Total	Lumens	28154.0	0.0	28154.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.1	1.7
10°-20°	1482.2	5.3
20°-30°	2515.5	8.9
30°-40°	3639.8	12.9
40°-50°	4776.3	17.0
50°-60°	5581.0	19.8
60°-70°	5600.8	19.9
70°-80°	3568.9	12.7
80°-90°	501.5	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°	28154.0	100.0
0°-180°	28154.0	100.0



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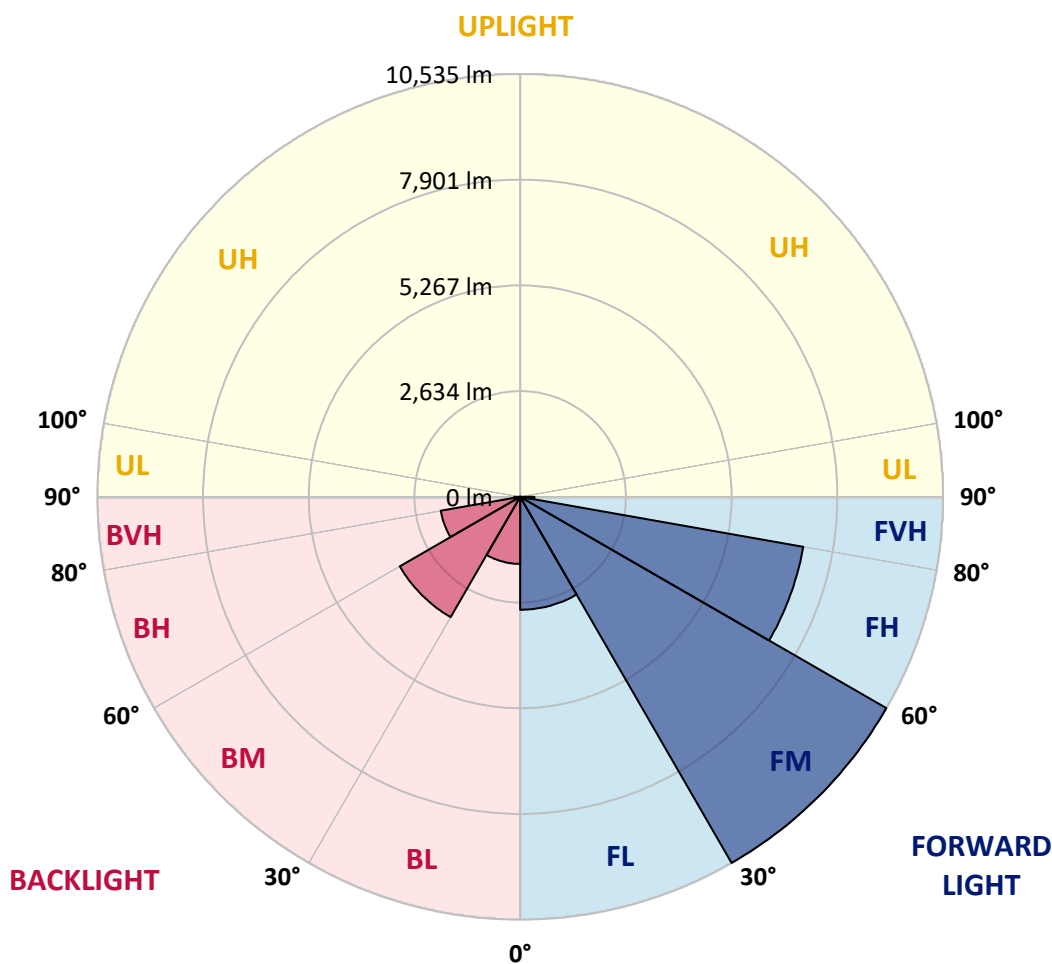
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2814.0	10.0			
FM	(30°-60°)	10534.9	37.4			
FH	(60°-80°)	7162.1	25.4			G3/7500
FVH	(80°-90°)	353.8	1.3			G3/500
BL	(0°-30°)	1671.8	5.9	B3/2500		
BM	(30°-60°)	3462.2	12.3	B3/5000		
BH	(60°-80°)	2007.5	7.1	B3/2500		G3/2500
BVH	(80°-90°)	147.8	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4
2.5°	5276.1	5332.0	5324.4	5290.1	5314.2	5248.1	5223.9	5187.0	5148.8	5136.1	5114.5
5°	5525.4	5599.2	5585.2	5539.4	5538.1	5444.0	5390.6	5320.6	5262.1	5216.3	5148.8
7.5°	5758.3	5843.5	5830.8	5786.2	5783.7	5675.6	5564.9	5455.5	5388.0	5329.5	5206.1
10°	6005.1	6070.0	6058.5	6001.3	5989.8	5884.2	5754.4	5617.0	5517.8	5436.4	5260.8
12.5°	6232.8	6301.5	6306.6	6235.3	6217.5	6104.3	5991.1	5809.1	5680.6	5587.8	5329.5
15°	6445.3	6526.7	6511.4	6440.2	6421.1	6306.6	6195.9	6028.0	5894.4	5764.6	5441.5
17.5°	6615.8	6693.4	6674.3	6642.5	6632.3	6543.2	6451.6	6269.7	6151.4	5984.7	5614.5
20°	6732.8	6805.3	6813.0	6804.0	6862.6	6778.6	6727.7	6599.2	6469.4	6319.3	5851.1
22.5°	6778.6	6865.1	6938.9	6996.2	7117.0	7104.3	7095.4	7021.6	6894.4	6675.6	6164.1
25°	6792.6	6879.1	6993.6	7134.8	7351.1	7428.7	7484.7	7502.5	7363.8	7190.8	6553.4
27.5°	6795.1	6888.0	7005.1	7232.8	7562.3	7796.4	7930.0	7992.3	7914.7	7777.3	7082.7
30°	6741.7	6837.1	6987.3	7291.3	7727.7	8111.9	8333.3	8609.4	8576.3	8460.5	7745.5
32.5°	6587.8	6674.3	6881.7	7281.1	7891.8	8435.1	8779.9	9258.2	9370.2	9295.1	8510.2
35°	6311.7	6417.3	6685.7	7197.2	7980.9	8749.3	9305.3	10049.6	10251.9	10257.0	9447.8
37.5°	6033.1	6113.2	6428.7	7039.4	8030.5	9028.0	9804.0	10842.2	11136.1	11142.5	10227.7
40°	5736.6	5810.4	6157.7	6828.2	7979.6	9246.8	10268.4	11604.3	12025.4	11986.0	10993.6
42.5°	5352.4	5433.8	5778.6	6540.7	7852.4	9416.0	10740.4	12404.5	12809.1	12853.6	11792.6
45°	5024.2	5089.0	5390.6	6091.6	7619.6	9507.6	11183.2	13258.2	13721.3	13674.3	12645.0
47.5°	4619.6	4716.3	5038.2	5726.4	7201.0	9484.7	11606.8	14103.0	14618.3	14575.0	13384.2
50°	3563.6	3675.6	4423.6	5343.5	6666.6	9305.3	11991.1	14910.9	15550.8	15437.6	14166.6
52.5°	3236.6	3268.4	3566.1	4903.3	6139.9	8898.2	12273.5	15931.2	16310.4	16265.9	14959.2
55°	3036.9	3098.0	3234.1	4039.4	5666.6	8236.6	12469.4	16783.7	17211.1	17002.5	15676.8
57.5°	2861.3	2904.6	3066.1	3458.0	5122.1	7325.7	12412.2	17502.5	17884.2	17592.8	16377.8
60°	2674.3	2702.3	2863.9	3156.5	4534.3	6319.3	11830.8	18244.2	18413.4	18146.3	16970.7
62.5°	2529.3	2556.0	2652.7	2933.8	4076.3	5599.2	10879.1	18296.4	18713.7	18519.0	17474.5
65°	2343.5	2361.3	2482.2	2703.6	3651.4	5170.5	10040.7	17806.6	18568.6	18520.3	17667.9
67.5°	2138.7	2160.3	2274.8	2431.3	3108.1	4665.4	8638.6	17541.9	17955.4	18002.5	17305.3
70°	1898.2	1913.5	2031.8	2145.0	2659.0	4095.4	6867.7	16527.9	17010.1	17008.9	16185.7
72.5°	1638.7	1637.4	1754.4	1874.0	2227.7	3440.2	5376.6	14674.3	15950.3	15854.9	14592.8
75°	1351.1	1370.2	1483.5	1577.6	1853.7	2788.8	3744.3	10629.7	14081.4	14212.4	12594.1
77.5°	863.9	876.6	940.2	1036.9	1296.4	2131.0	2442.7	5907.1	9402.0	11340.9	9913.5
80°	631.0	637.4	693.4	749.4	862.6	1297.7	1241.7	2567.4	3726.5	5567.4	6081.4
82.5°	430.0	431.3	475.8	488.5	494.9	585.2	589.1	1249.4	1774.8	2090.3	2685.7
85°	285.0	236.6	184.5	244.3	250.6	215.0	209.9	563.6	880.4	1056.0	994.9
87.5°	63.6	62.3	72.5	73.8	71.2	61.1	50.9	86.5	132.3	131.0	167.9
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°	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4	5081.4
2.5°	5094.1	5087.8	5052.1	4977.1	4926.2	4874.0	4844.8	4827.0	4833.3	4804.1	4791.3
5°	5106.9	5075.0	4974.5	4885.5	4805.3	4715.0	4639.9	4629.8	4645.0	4618.3	4603.0
7.5°	5139.9	5072.5	4944.0	4791.3	4657.7	4572.5	4464.4	4409.7	4405.8	4379.1	4384.2
10°	5159.0	5071.2	4899.5	4715.0	4558.5	4407.1	4291.3	4230.3	4226.4	4188.3	4179.4
12.5°	5211.2	5085.2	4847.3	4622.1	4447.8	4245.5	4123.4	4067.4	4061.1	4007.6	3987.3
15°	5291.3	5117.0	4792.6	4514.0	4288.8	4099.2	3952.9	3877.8	3866.4	3804.1	3782.4
17.5°	5418.6	5207.4	4776.1	4416.0	4150.1	3942.7	3771.0	3689.6	3623.4	3589.0	3559.8
20°	5590.3	5319.3	4795.1	4324.4	3975.8	3736.6	3522.9	3416.0	3370.2	3314.2	3318.1
22.5°	5834.6	5494.9	4828.2	4253.2	3818.1	3516.5	3276.1	3156.5	3073.8	3026.7	3029.3
25°	6178.1	5759.5	4893.1	4185.7	3646.3	3276.1	2992.4	2825.7	2741.7	2711.2	2679.4
27.5°	6611.9	6076.3	5047.1	4103.0	3442.7	3003.8	2689.6	2494.9	2409.7	2363.9	2357.5
30°	7169.2	6492.3	5227.7	4042.0	3229.0	2664.1	2314.2	2160.3	2085.2	2020.3	1989.8
32.5°	7848.6	7080.1	5428.7	3980.9	2964.4	2283.7	1966.9	1848.6	1729.0	1646.3	1650.1
35°	8637.4	7720.1	5727.7	3903.3	2653.9	1928.7	1709.9	1557.2	1445.3	1390.6	1365.1
37.5°	9381.6	8376.6	6078.9	3824.4	2306.6	1698.5	1456.7	1315.5	1229.0	1187.0	1195.9
40°	10134.8	9053.4	6381.7	3631.0	1917.3	1489.8	1206.1	1126.0	1091.6	1058.5	1062.3
42.5°	10809.1	9592.8	6603.0	3416.0	1645.0	1250.6	1028.0	1045.8	1066.2	1047.1	1042.0
45°	11511.4	10223.9	6797.7	3049.6	1417.3	1062.3	983.5	1033.1	1077.6	1075.1	1068.7
47.5°	12216.2	10809.1	6816.8	2563.6	1209.9	998.7	982.2	1019.1	1077.6	1087.8	1080.1
50°	12942.7	11422.4	6704.8	1991.1	1122.1	1006.4	983.5	989.8	1054.7	1066.2	1062.3
52.5°	13748.0	12085.2	6428.7	1514.0	1087.8	1019.1	987.3	978.4	1015.3	1035.6	1039.4
55°	14488.5	12611.9	5910.9	1337.1	1062.3	1020.4	1015.3	986.0	987.3	977.1	1002.5
57.5°	15110.6	13114.5	5323.1	1240.5	1039.4	1008.9	1028.0	973.3	958.0	916.0	905.8
60°	15754.4	13522.9	4496.2	1174.3	1012.7	994.9	996.2	951.7	913.5	852.4	834.6
62.5°	16211.1	13739.1	3693.4	1096.7	975.8	973.3	954.2	921.1	886.8	833.3	825.7
65°	16343.5	13624.6	2837.1	1015.3	927.5	937.7	903.3	857.5	715.0	648.9	648.9
67.5°	15905.8	12919.8	2100.5	921.1	869.0	889.3	821.9	675.6	601.8	562.3	568.7
70°	14706.1	11781.1	1367.7	783.7	785.0	801.5	678.1	608.1	538.2	514.0	526.7
72.5°	13103.0	10092.8	902.0	624.7	661.6	633.6	619.6	559.8	497.5	469.5	478.4
75°	10797.7	7969.4	626.0	491.1	428.8	540.7	550.9	470.7	422.4	512.7	533.1
77.5°	8530.5	5539.4	516.5	343.5	316.8	399.5	441.5	436.4	698.5	820.6	811.7
80°	5072.5	3189.6	421.1	237.9	223.9	257.0	347.3	501.3	782.4	587.8	559.8
82.5°	2300.2	1450.4	223.9	124.7	146.3	170.5	259.5	623.4	512.7	376.6	355.0
85°	898.2	473.3	89.1	54.7	50.9	63.6	118.3	300.3	206.1	166.7	166.7
87.5°	115.8	85.2	25.4	19.1	16.5	20.4	38.2	166.7	96.7	81.4	78.9
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)