

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: P510101

Luminaire Tested: **VERD-M-CA4-200-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510101
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-CA4-200-760-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 910mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28673 lumens
Efficiency: N/A
Efficacy: 142.1 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

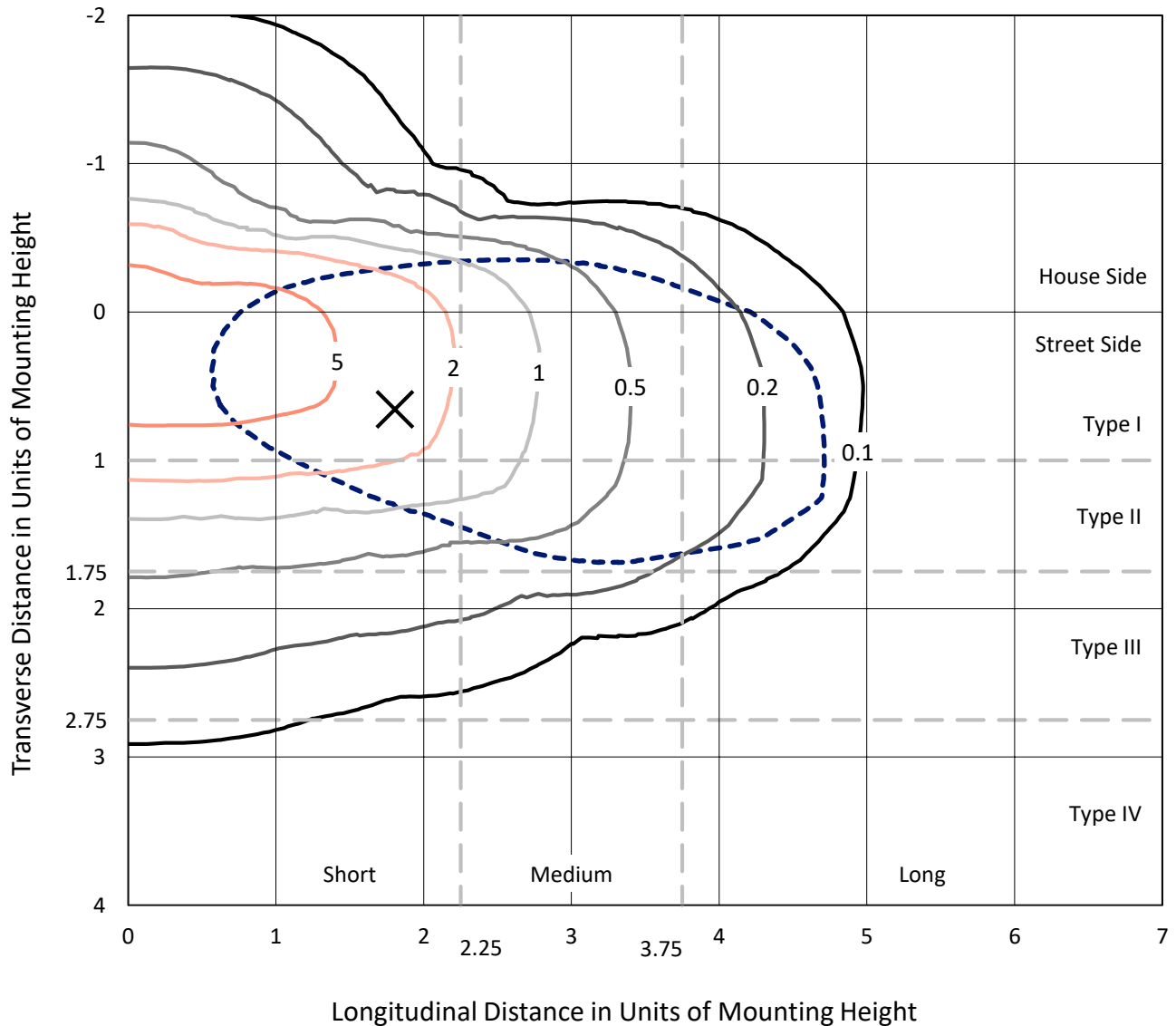
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

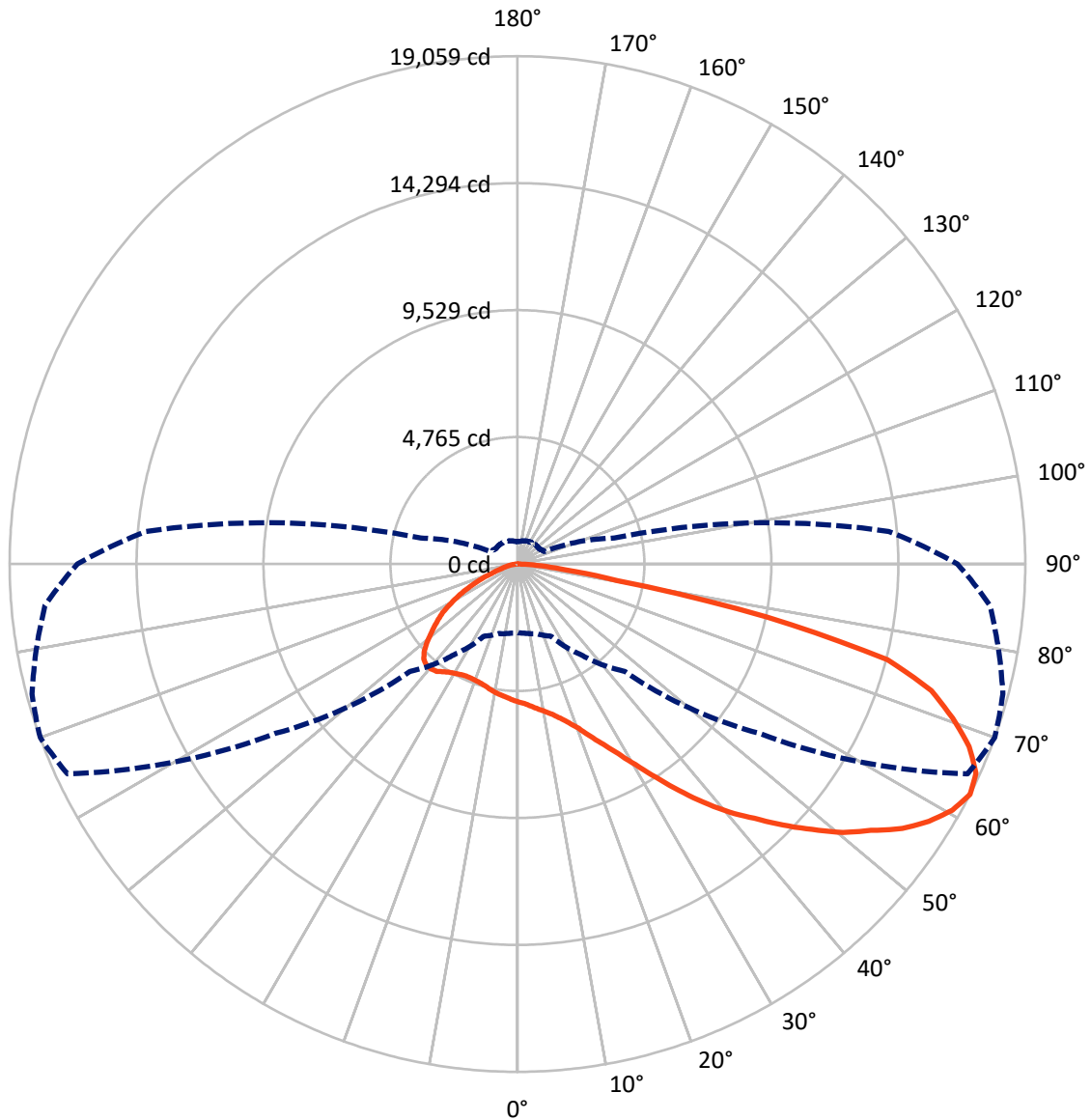
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	7423.6	0.0	7423.6
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	21249.4	0.0	21249.4
	% Fixture	74.1	0.0	74.1
Total	Lumens	28673.0	0.0	28673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.1	1.7
10°-20°	1509.5	5.3
20°-30°	2561.9	8.9
30°-40°	3706.9	12.9
40°-50°	4864.3	17.0
50°-60°	5683.8	19.8
60°-70°	5704.0	19.9
70°-80°	3634.7	12.7
80°-90°	510.8	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°	28673.0	100.0
0°-180°	28673.0	100.0

Coefficient of Utilization



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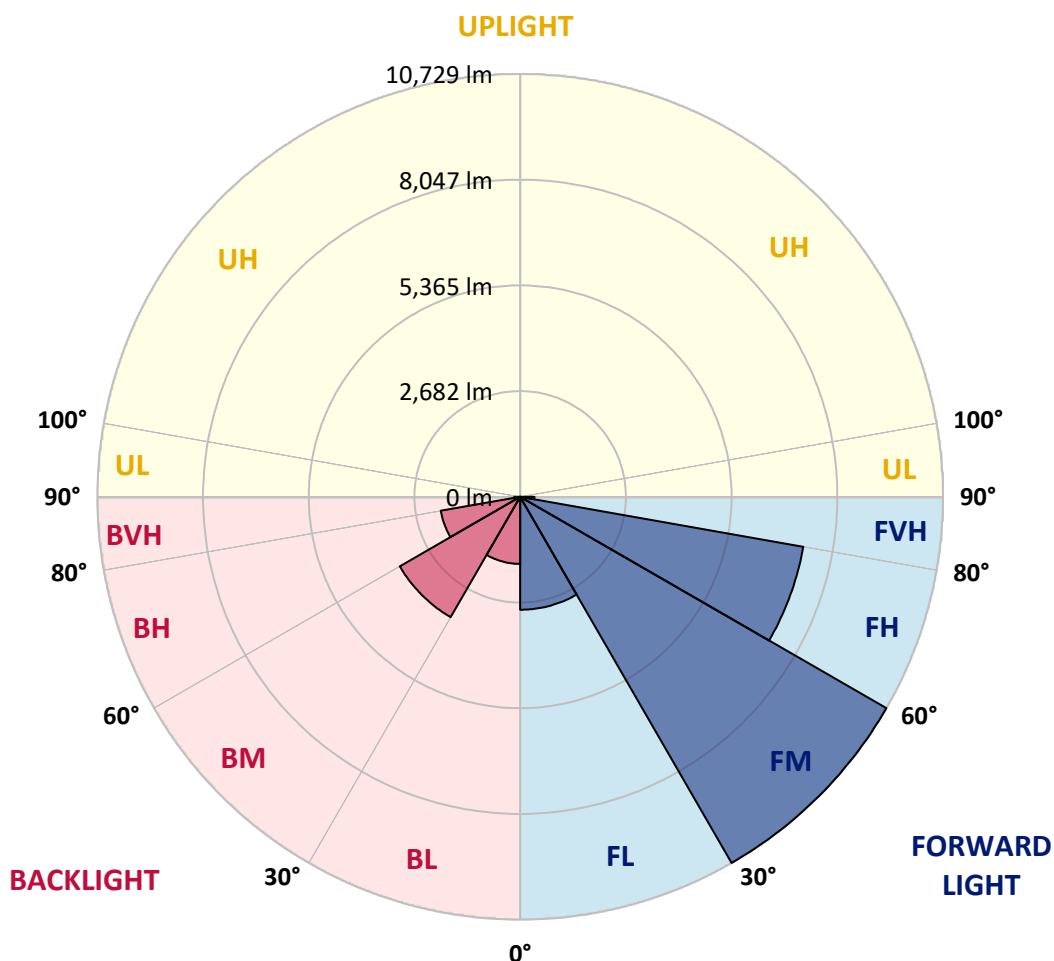
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2865.9	10.0			
FM (30°-60°)	10729.1	37.4			
FH (60°-80°)	7294.1	25.4			G3/7500
FVH (80°-90°)	360.3	1.3			G3/500
BL (0°-30°)	1702.6	5.9	B3/2500		
BM (30°-60°)	3526.0	12.3	B3/5000		
BH (60°-80°)	2044.5	7.1	B3/2500		G3/2500
BVH (80°-90°)	150.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1
2.5°	5373.3	5430.3	5422.6	5387.6	5412.2	5344.8	5320.2	5282.6	5243.8	5230.8	5208.8
5°	5627.3	5702.4	5688.2	5641.5	5640.2	5544.4	5489.9	5418.7	5359.1	5312.4	5243.8
7.5°	5864.4	5951.2	5938.3	5892.9	5890.3	5780.2	5667.5	5556.0	5487.3	5427.7	5302.1
10°	6115.8	6181.9	6170.2	6111.9	6100.2	5992.7	5860.5	5720.6	5619.5	5536.6	5357.8
12.5°	6347.7	6417.7	6422.9	6350.3	6332.2	6216.8	6101.5	5916.2	5785.4	5690.8	5427.7
15°	6564.1	6647.0	6631.5	6558.9	6539.5	6422.9	6310.1	6139.1	6003.0	5870.9	5541.8
17.5°	6737.7	6816.7	6797.3	6764.9	6754.6	6663.9	6570.6	6385.3	6264.8	6095.0	5718.0
20°	6856.9	6930.8	6938.5	6929.5	6989.1	6903.6	6851.7	6720.9	6588.7	6435.8	5959.0
22.5°	6903.6	6991.7	7066.8	7125.1	7248.2	7235.3	7226.2	7151.0	7021.5	6798.6	6277.7
25°	6917.8	7005.9	7122.5	7266.4	7486.6	7565.7	7622.7	7640.8	7499.6	7323.4	6674.2
27.5°	6920.4	7015.0	7134.2	7366.1	7701.7	7940.1	8076.2	8139.7	8060.6	7920.7	7213.2
30°	6866.0	6963.2	7116.1	7425.7	7870.2	8261.5	8486.9	8768.1	8734.4	8616.5	7888.3
32.5°	6709.2	6797.3	7008.5	7415.4	8037.3	8590.6	8941.7	9428.9	9542.9	9466.5	8667.0
35°	6428.0	6535.6	6809.0	7329.9	8128.0	8910.6	9476.9	10234.8	10440.9	10446.0	9622.0
37.5°	6144.3	6225.9	6547.2	7169.2	8178.5	9194.4	9984.8	11042.1	11341.4	11347.9	10416.2
40°	5842.4	5917.5	6271.3	6954.1	8126.7	9417.2	10457.7	11818.2	12247.1	12206.9	11196.3
42.5°	5451.1	5534.0	5885.1	6661.3	7997.1	9589.6	10938.4	12633.2	13045.2	13090.6	12010.0
45°	5116.8	5182.9	5489.9	6203.9	7760.0	9682.9	11389.3	13502.6	13974.3	13926.3	12878.1
47.5°	4704.7	4803.2	5131.0	5832.0	7333.7	9659.5	11820.8	14363.0	14887.8	14843.7	13630.9
50°	3629.3	3743.3	4505.2	5442.0	6789.5	9476.9	12212.1	15185.8	15837.5	15722.2	14427.8
52.5°	3296.3	3328.7	3631.9	4993.7	6253.1	9062.2	12499.8	16224.9	16611.1	16565.7	15235.0
55°	3092.9	3155.1	3293.7	4113.9	5771.1	8388.5	12699.3	17093.1	17528.4	17315.9	15965.8
57.5°	2914.1	2958.1	3122.7	3521.7	5216.5	7460.7	12641.0	17825.1	18213.8	17917.1	16679.7
60°	2723.6	2752.1	2916.7	3214.7	4617.9	6435.8	12048.8	18580.5	18752.9	18480.8	17283.5
62.5°	2575.9	2603.1	2701.6	2987.9	4151.5	5702.4	11079.6	18633.7	19058.7	18860.4	17796.6
65°	2386.7	2404.8	2527.9	2753.4	3718.7	5265.8	10225.8	18134.8	18910.9	18861.7	17993.6
67.5°	2178.1	2200.1	2316.7	2476.1	3165.4	4751.4	8797.9	17865.3	18286.4	18334.3	17624.3
70°	1933.2	1948.8	2069.3	2184.6	2708.0	4170.9	6994.3	16832.6	17323.7	17322.4	16484.1
72.5°	1668.9	1667.6	1786.8	1908.6	2268.8	3503.6	5475.7	14944.8	16244.4	16147.2	14861.8
75°	1376.0	1395.5	1510.8	1606.7	1887.9	2840.2	3813.3	10825.7	14341.0	14474.4	12826.3
77.5°	879.8	892.7	957.5	1056.0	1320.3	2170.3	2487.8	6016.0	9575.3	11550.0	10096.2
80°	642.7	649.2	706.2	763.2	878.5	1321.6	1264.6	2614.8	3795.1	5670.0	6193.5
82.5°	438.0	439.2	484.6	497.6	504.0	596.0	599.9	1272.4	1807.5	2128.9	2735.3
85°	290.2	241.0	187.9	248.8	255.3	219.0	213.8	574.0	896.6	1075.4	1013.2
87.5°	64.8	63.5	73.9	75.2	72.6	62.2	51.8	88.1	134.8	133.5	171.0
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°	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1
2.5°	5188.0	5181.6	5145.3	5068.8	5017.0	4963.9	4934.1	4915.9	4922.4	4892.6	4879.7
5°	5201.0	5168.6	5066.2	4975.5	4893.9	4801.9	4725.5	4715.1	4730.7	4703.4	4687.9
7.5°	5234.7	5166.0	5035.1	4879.7	4743.6	4656.8	4546.7	4490.9	4487.1	4459.8	4465.0
10°	5254.1	5164.7	4989.8	4801.9	4642.5	4488.4	4370.4	4308.2	4304.4	4265.5	4256.4
12.5°	5307.2	5179.0	4936.7	4707.3	4529.8	4323.8	4199.4	4142.4	4135.9	4081.5	4060.8
15°	5388.9	5211.4	4881.0	4597.2	4367.9	4174.8	4025.8	3949.3	3937.7	3874.2	3852.2
17.5°	5518.4	5303.4	4864.1	4497.4	4226.6	4015.4	3840.5	3757.6	3690.2	3655.2	3625.4
20°	5693.4	5417.4	4883.5	4404.1	4049.1	3805.5	3587.8	3479.0	3432.3	3375.3	3379.2
22.5°	5942.1	5596.2	4917.2	4331.6	3888.4	3581.4	3336.5	3214.7	3130.4	3082.5	3085.1
25°	6292.0	5865.7	4983.3	4262.9	3713.5	3336.5	3047.5	2877.8	2792.3	2761.2	2728.8
27.5°	6733.8	6188.3	5140.1	4178.7	3506.2	3059.2	2739.1	2540.9	2454.1	2407.4	2401.0
30°	7301.3	6612.0	5324.1	4116.5	3288.5	2713.2	2356.9	2200.1	2123.7	2057.6	2026.5
32.5°	7993.3	7210.6	5528.8	4054.3	3019.0	2325.8	2003.2	1882.7	1760.9	1676.7	1680.5
35°	8796.6	7862.4	5833.3	3975.2	2702.9	1964.3	1741.4	1586.0	1471.9	1416.2	1390.3
37.5°	9554.6	8531.0	6190.9	3894.9	2349.1	1729.8	1483.6	1339.8	1251.7	1208.9	1218.0
40°	10321.7	9220.3	6499.3	3698.0	1952.6	1517.3	1228.3	1146.7	1111.7	1078.0	1081.9
42.5°	11008.4	9769.7	6724.8	3479.0	1675.4	1273.7	1046.9	1065.1	1085.8	1066.4	1061.2
45°	11723.6	10412.4	6923.0	3105.8	1443.4	1081.9	1001.6	1052.1	1097.5	1094.9	1088.4
47.5°	12441.4	11008.4	6942.4	2610.9	1232.2	1017.1	1000.3	1037.9	1097.5	1107.8	1100.1
50°	13181.3	11632.9	6828.4	2027.8	1142.8	1024.9	1001.6	1008.1	1074.1	1085.8	1081.9
52.5°	14001.5	12308.0	6547.2	1541.9	1107.8	1037.9	1005.5	996.4	1034.0	1054.7	1058.6
55°	14755.6	12844.4	6019.9	1361.8	1081.9	1039.2	1034.0	1004.2	1005.5	995.1	1021.0
57.5°	15389.2	13356.2	5421.3	1263.3	1058.6	1027.5	1046.9	991.2	975.7	932.9	922.5
60°	16044.8	13772.1	4579.1	1195.9	1031.4	1013.2	1014.5	969.2	930.3	868.1	850.0
62.5°	16510.0	13992.4	3761.5	1116.9	993.8	991.2	971.8	938.1	903.1	848.7	840.9
65°	16644.7	13875.8	2889.4	1034.0	944.6	954.9	920.0	873.3	728.2	660.8	660.8
67.5°	16199.0	13158.0	2139.2	938.1	885.0	905.7	837.0	688.0	612.9	572.7	579.2
70°	14977.2	11998.3	1392.9	798.2	799.5	816.3	690.6	619.4	548.1	523.5	536.4
72.5°	13344.6	10278.9	918.7	636.2	673.8	645.3	631.0	570.1	506.6	478.1	487.2
75°	10996.7	8116.4	637.5	500.1	436.7	550.7	561.0	479.4	430.2	522.2	542.9
77.5°	8687.8	5641.5	526.1	349.8	322.6	406.9	449.6	444.4	711.3	835.7	826.7
80°	5166.0	3248.4	428.9	242.3	228.0	261.7	353.7	510.5	796.9	598.6	570.1
82.5°	2342.7	1477.1	228.0	127.0	149.0	173.6	264.3	634.9	522.2	383.5	361.5
85°	914.8	482.0	90.7	55.7	51.8	64.8	120.5	305.8	209.9	169.7	169.7
87.5°	117.9	86.8	25.9	19.4	16.8	20.7	38.9	169.7	98.5	82.9	80.3
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)