

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: P510144

Luminaire Tested: **VERD-M-CA4-210-750-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-210-750-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 960mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

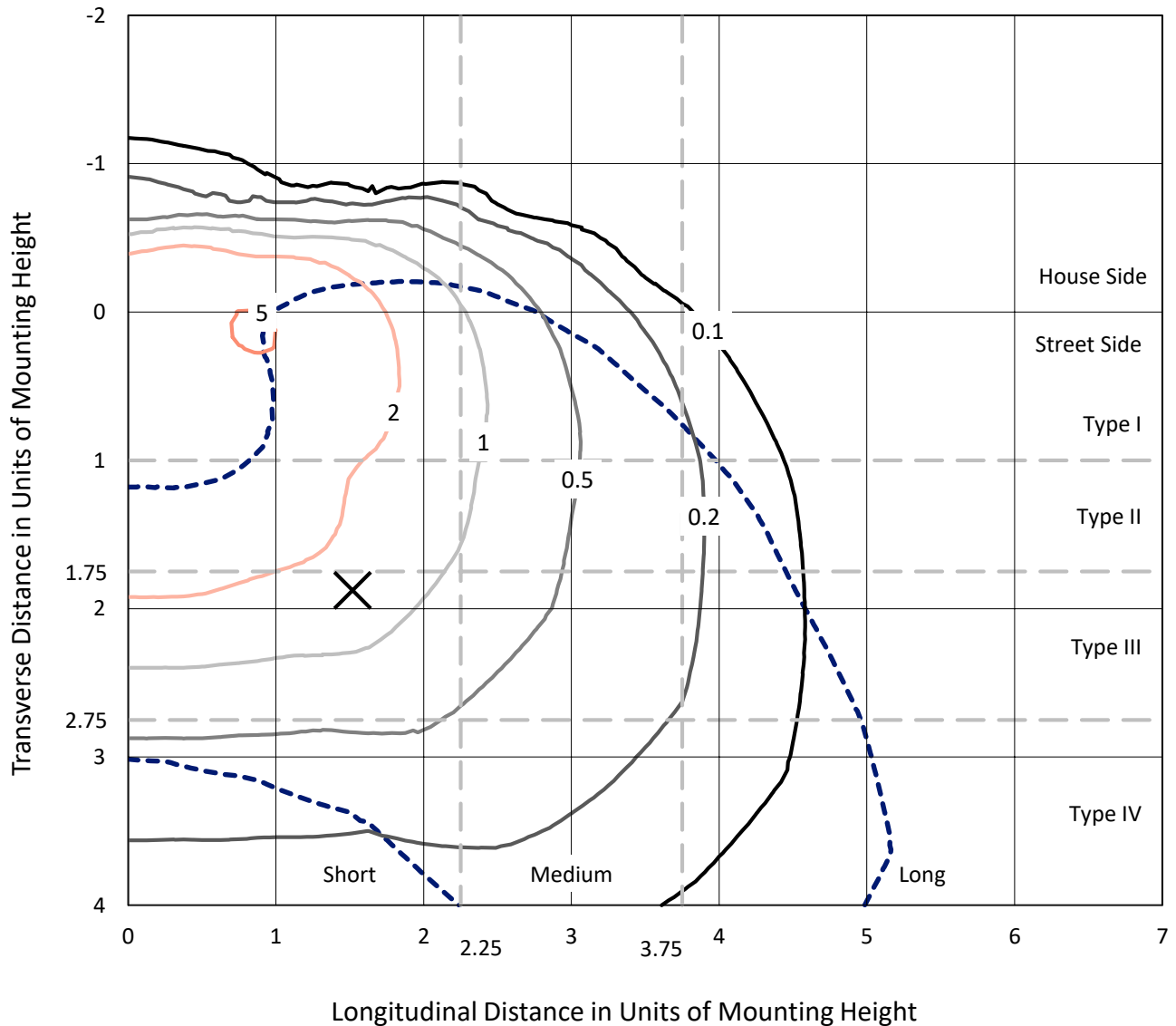
Lumens per Lamp: N/A  
Luminaire Lumens: 27576 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): 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

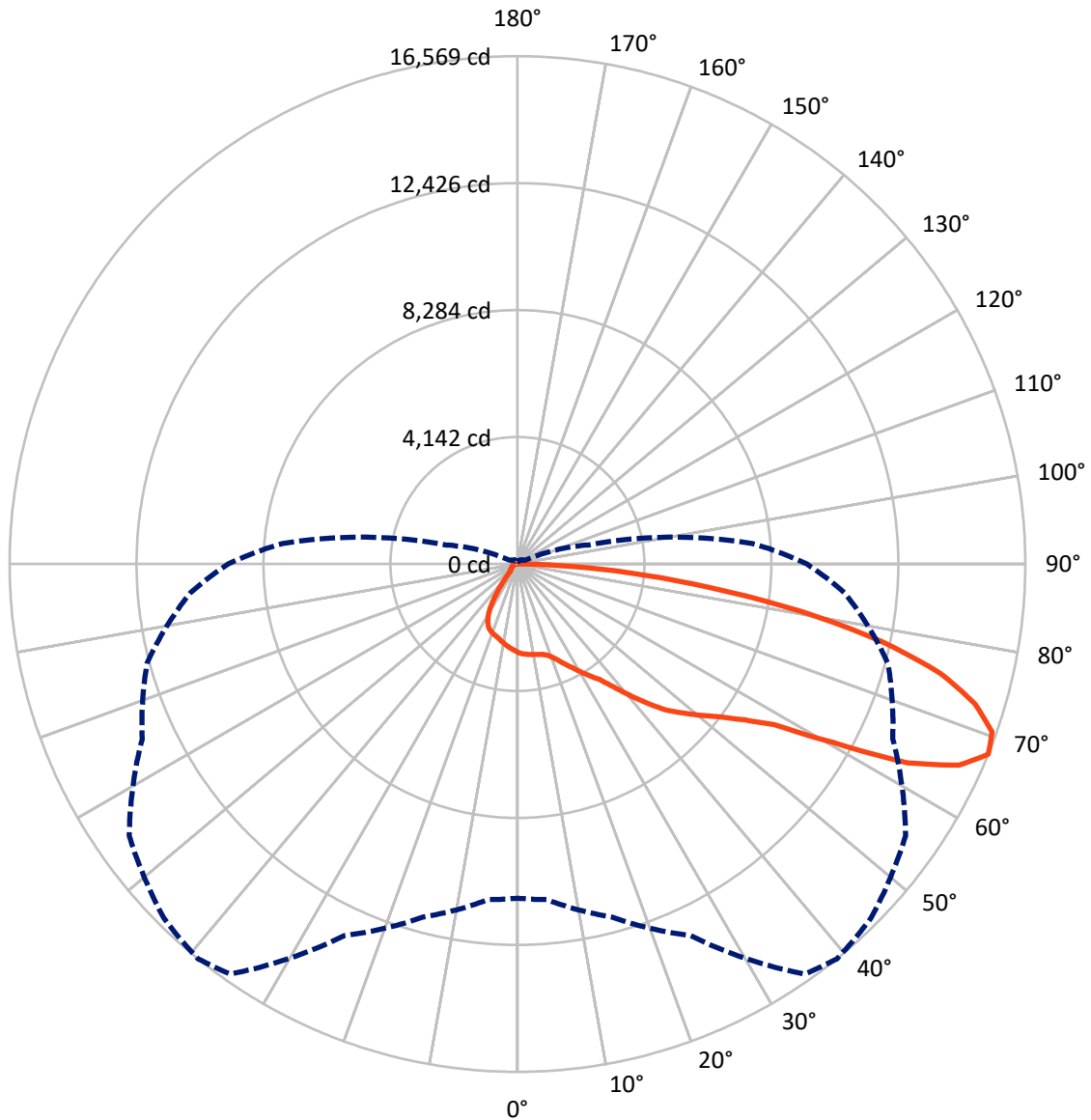
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4428.0	0.0	4428.0
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	23148.0	0.0	23148.0
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	27576.0	0.0	27576.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.6	1.0
10°-20°	811.3	2.9
20°-30°	1437.4	5.2
30°-40°	2302.3	8.3
40°-50°	3693.3	13.4
50°-60°	5398.6	19.6
60°-70°	7193.9	26.1
70°-80°	5398.4	19.6
80°-90°	1068.1	3.9
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°	27576.0	100.0
0°-180°	27576.0	100.0

**Coefficient of Utilization**



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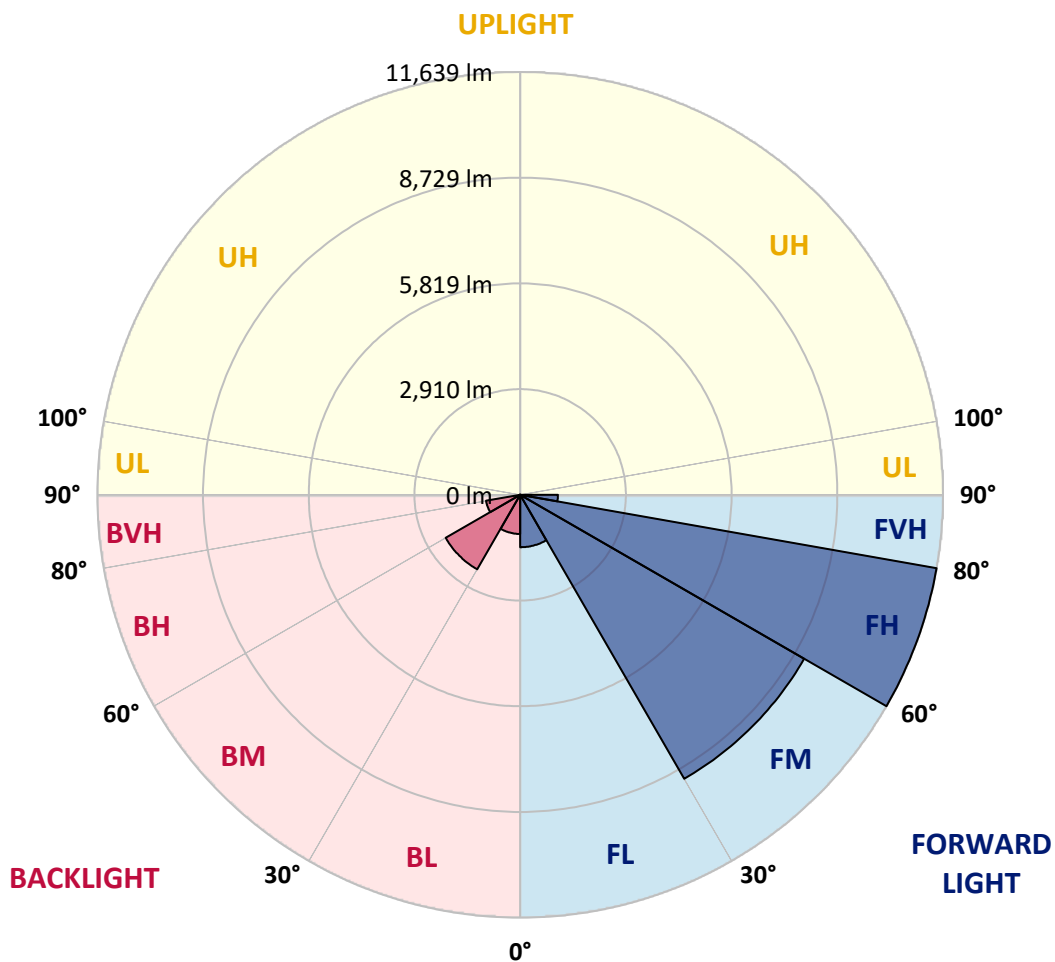
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1443.1	5.2			
FM	(30°-60°)	9025.9	32.7			
FH	(60°-80°)	11638.9	42.2			G4/12000
FVH	(80°-90°)	1040.1	3.8			G5
BL	(0°-30°)	1078.3	3.9	B3/2500		
BM	(30°-60°)	2368.4	8.6	B2/2500		
BH	(60°-80°)	953.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	28.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5
2.5°	2890.3	2929.1	2929.1	2918.0	2924.9	2930.5	2888.9	2900.0	2895.8	2894.4	2902.7
5°	2912.4	2955.4	2952.6	2938.8	2944.3	2955.4	2916.6	2933.2	2927.7	2913.8	2916.6
7.5°	2912.4	2948.5	2956.8	2941.5	2967.9	2981.7	2940.2	2955.4	2962.3	2952.6	2942.9
10°	2901.4	2933.2	2944.3	2941.5	2976.2	2998.3	2958.2	3001.1	3006.7	3006.7	2991.4
12.5°	2897.2	2933.2	2948.5	2960.9	3001.1	3024.7	3001.1	3042.7	3070.4	3069.0	3059.3
15°	2900.0	2940.2	2963.7	2984.5	3027.4	3056.5	3046.8	3110.6	3143.8	3153.5	3153.5
17.5°	2969.2	3017.7	3028.8	3051.0	3080.1	3124.4	3112.0	3193.7	3246.4	3263.0	3286.5
20°	3163.2	3200.6	3214.5	3203.4	3215.9	3243.6	3218.6	3297.6	3376.6	3420.9	3459.7
22.5°	3411.2	3439.0	3426.5	3415.4	3408.5	3415.4	3384.9	3437.6	3526.2	3590.0	3656.5
25°	3599.7	3660.6	3650.9	3620.5	3610.8	3619.1	3580.3	3645.4	3727.1	3793.7	3893.4
27.5°	3828.3	3865.7	3839.4	3828.3	3835.2	3833.8	3810.3	3872.6	3947.5	4030.6	4177.5
30°	4076.3	4108.2	4081.9	4070.8	4083.2	4091.6	4065.2	4174.7	4253.7	4343.7	4533.5
32.5°	4483.7	4559.9	4487.8	4343.7	4346.5	4359.0	4361.7	4508.6	4652.7	4723.4	4974.2
35°	5064.2	5125.2	5029.6	4855.0	4637.5	4629.1	4651.3	4870.2	5159.8	5481.3	5775.0
37.5°	5606.0	5694.6	5608.7	5405.1	5140.4	5076.7	4961.7	5222.2	5678.0	6369.4	6735.2
40°	6255.8	6322.3	6151.9	5974.5	5709.9	5619.8	5435.5	5601.8	6226.7	7296.3	7548.5
42.5°	6778.1	6818.3	6677.0	6491.3	6261.3	6193.4	6003.6	6018.9	6812.8	8108.3	8270.4
45°	7261.7	7304.7	7188.3	7030.3	6884.8	6803.1	6664.5	6739.4	7500.0	8964.6	8866.2
47.5°	7628.9	7671.8	7579.0	7466.8	7315.7	7260.3	7263.1	7531.9	8341.1	9649.0	9401.0
50°	8230.2	8213.6	7971.1	7849.2	7731.4	7760.5	7791.0	8173.4	9189.0	10236.5	9895.7
52.5°	9279.1	9197.3	8697.1	8378.5	8233.0	8282.9	8332.7	8841.2	10152.0	10772.7	10275.3
55°	10465.1	10382.0	9956.6	9274.9	8889.7	8970.1	8927.1	9502.2	10961.1	11288.1	10588.4
57.5°	11346.3	11483.5	11321.4	10950.1	9985.7	9880.4	9784.8	10170.0	11615.1	11803.6	10889.1
60°	12112.5	12303.7	12593.3	12492.2	12082.1	11807.7	10930.7	10950.1	12244.2	12161.0	11008.3
62.5°	12860.7	12973.0	13469.0	13578.5	14087.0	14283.7	13392.8	11958.7	12852.4	12409.1	11088.6
65°	12112.5	12256.6	13119.8	13916.5	15559.8	15823.1	15509.9	13784.9	13300.0	12555.9	10995.8
67.5°	10903.0	10990.2	11922.7	13372.0	16330.2	16568.5	16324.6	15461.4	13509.2	12511.6	10707.6
70°	9322.0	9459.2	10375.1	12317.6	16302.5	16429.9	16217.9	15663.7	13430.2	12256.6	9980.2
72.5°	7709.2	7786.8	8562.7	10501.1	15505.8	15612.5	15500.2	15353.4	13164.2	11545.8	8582.1
75°	5794.4	5811.0	6606.3	8292.6	13710.1	14267.1	14404.3	14818.5	12145.8	9897.0	6347.2
77.5°	3885.1	4050.0	4813.4	6337.5	11254.9	12145.8	12795.6	13097.7	10147.8	7386.4	3375.2
80°	2085.3	2126.8	2949.9	4497.5	8553.0	9405.2	10021.7	10027.3	7096.8	3659.3	753.7
82.5°	965.7	925.6	1485.3	2845.9	5924.6	6304.3	6717.2	5626.7	2841.8	624.9	192.6
85°	428.1	451.7	672.0	1386.9	3287.9	3669.0	3616.3	2491.2	498.8	169.0	117.8
87.5°	159.3	167.7	260.5	559.8	1173.6	1280.3	1151.4	479.4	65.1	59.6	36.0
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°	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5	2887.5
2.5°	2893.0	2893.0	2890.3	2852.9	2844.5	2826.5	2811.3	2822.4	2809.9	2818.2	2809.9
5°	2905.5	2898.6	2882.0	2837.6	2816.8	2776.7	2746.2	2753.1	2736.5	2736.5	2735.1
7.5°	2934.6	2920.8	2891.7	2821.0	2782.2	2724.0	2676.9	2661.7	2645.0	2625.6	2622.9
10°	2981.7	2962.3	2923.5	2826.5	2751.7	2674.1	2592.4	2560.5	2518.9	2488.5	2482.9
12.5°	3046.8	3017.7	2965.1	2847.3	2748.9	2625.6	2516.2	2453.8	2403.9	2359.6	2349.9
15°	3141.1	3112.0	3049.6	2888.9	2750.3	2579.9	2435.8	2331.9	2246.0	2204.4	2205.8
17.5°	3278.2	3257.4	3161.8	2976.2	2776.7	2556.4	2369.3	2204.4	2071.4	2002.1	1992.4
20°	3454.2	3440.3	3324.0	3091.2	2837.6	2560.5	2297.3	2068.6	1873.3	1722.2	1689.0
22.5°	3659.3	3638.5	3495.8	3190.9	2884.7	2549.4	2218.3	1919.0	1625.3	1428.5	1389.7
25°	3887.9	3876.8	3653.7	3278.2	2890.3	2502.3	2104.7	1725.0	1356.5	1145.9	1112.6
27.5°	4180.2	4115.1	3796.4	3325.3	2877.8	2409.5	1942.6	1459.0	1078.0	932.5	896.5
30°	4500.3	4368.7	3935.0	3361.4	2816.8	2261.2	1711.2	1151.4	802.2	673.4	655.4
32.5°	4855.0	4658.2	4065.2	3358.6	2708.8	2032.6	1410.5	799.5	541.8	489.1	471.1
35°	5496.5	5162.6	4221.8	3312.9	2527.3	1761.0	996.2	521.0	401.8	369.9	365.8
37.5°	6387.4	5820.7	4432.4	3225.6	2293.1	1445.1	649.8	356.1	343.6	345.0	343.6
40°	7117.6	6555.1	4724.8	3093.9	1998.0	1032.2	389.3	317.3	324.2	328.4	329.8
42.5°	7832.6	7153.6	5086.4	2929.1	1689.0	670.6	315.9	303.4	297.9	304.8	307.6
45°	8407.6	7676.0	5427.2	2736.5	1327.4	396.3	306.2	281.3	271.6	274.3	278.5
47.5°	8867.6	8091.7	5632.3	2512.0	969.9	299.3	297.9	261.9	248.0	245.2	243.9
50°	9301.2	8447.7	5763.9	2240.4	618.0	288.2	275.7	239.7	223.1	220.3	220.3
52.5°	9596.4	8680.5	5808.3	1919.0	368.6	281.3	260.5	221.7	199.5	203.7	206.4
55°	9884.6	8916.1	5716.8	1500.6	282.7	263.3	243.9	199.5	181.5	198.1	203.7
57.5°	10021.7	8950.7	5510.4	1043.3	274.3	238.3	220.3	178.7	164.9	174.6	174.6
60°	10132.6	8927.1	5222.2	660.9	267.4	221.7	200.9	162.1	145.5	139.9	135.8
62.5°	10059.1	8832.9	4643.0	430.9	248.0	202.3	182.9	149.6	126.1	110.8	109.5
65°	9902.6	8500.4	3706.4	339.5	230.0	192.6	166.3	134.4	110.8	92.8	91.4
67.5°	9441.2	7691.2	2398.4	281.3	220.3	185.7	153.8	124.7	98.4	80.4	79.0
70°	8335.5	6212.8	735.7	252.2	228.6	178.7	151.0	113.6	87.3	70.7	67.9
72.5°	6591.1	4151.1	273.0	209.2	196.7	171.8	146.9	102.5	74.8	59.6	56.8
75°	4245.3	1356.5	231.4	162.1	167.7	163.5	135.8	94.2	63.7	48.5	47.1
77.5°	1202.7	284.0	210.6	119.2	148.3	158.0	119.2	79.0	56.8	41.6	40.2
80°	252.2	202.3	192.6	84.5	110.8	102.5	80.4	61.0	54.0	36.0	36.0
82.5°	164.9	160.7	164.9	58.2	73.4	74.8	63.7	52.7	47.1	33.3	33.3
85°	116.4	146.9	79.0	41.6	34.6	31.9	37.4	45.7	41.6	27.7	27.7
87.5°	40.2	23.6	16.6	16.6	15.2	15.2	18.0	20.8	22.2	22.2	20.8
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)