

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: P510141

Luminaire Tested: **VERD-M-CA4-210-750-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510141  
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-CA4-210-750-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 960mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30662 lumens  
Efficiency: N/A  
Efficacy: 143.5 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

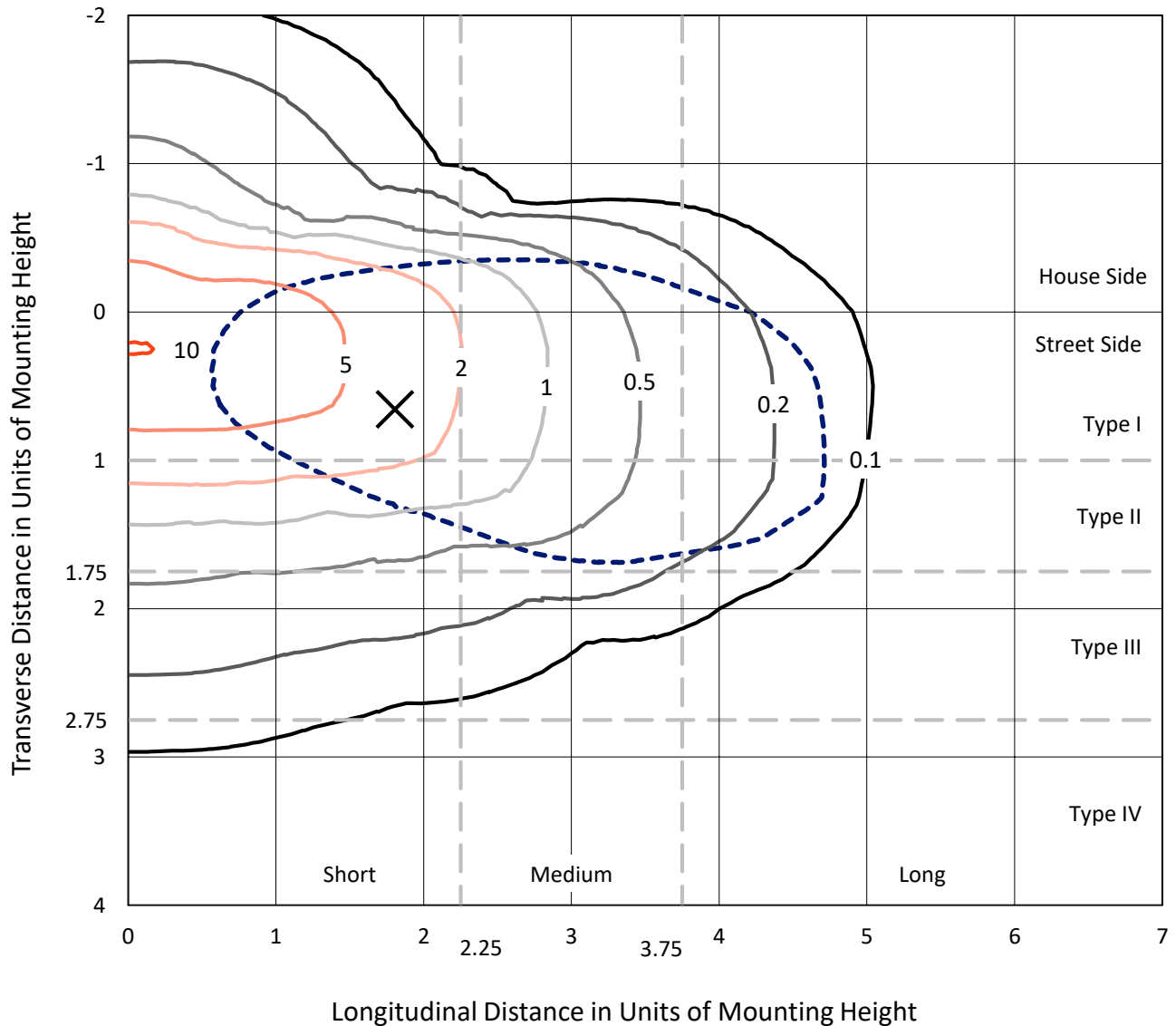
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

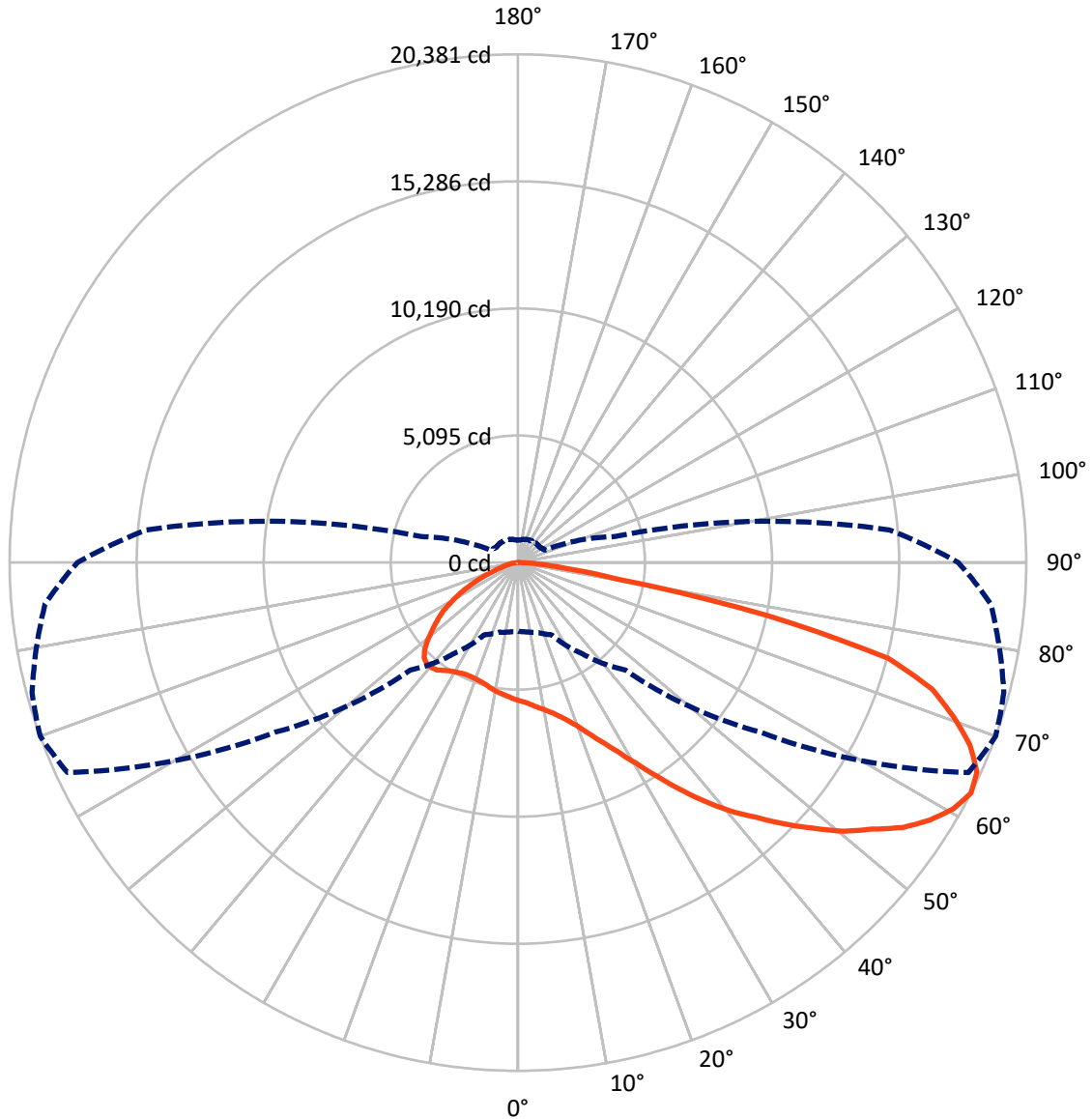
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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
<b>House Side</b>	Lumens	7938.6	0.0	7938.6
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	22723.5	0.0	22723.5
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	30662.0	0.0	30662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.5	1.7
10°-20°	1614.2	5.3
20°-30°	2739.6	8.9
30°-40°	3964.1	12.9
40°-50°	5201.8	17.0
50°-60°	6078.1	19.8
60°-70°	6099.7	19.9
70°-80°	3886.8	12.7
80°-90°	546.2	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°	30662.0	100.0
0°-180°	30662.0	100.0

**Coefficient of Utilization**



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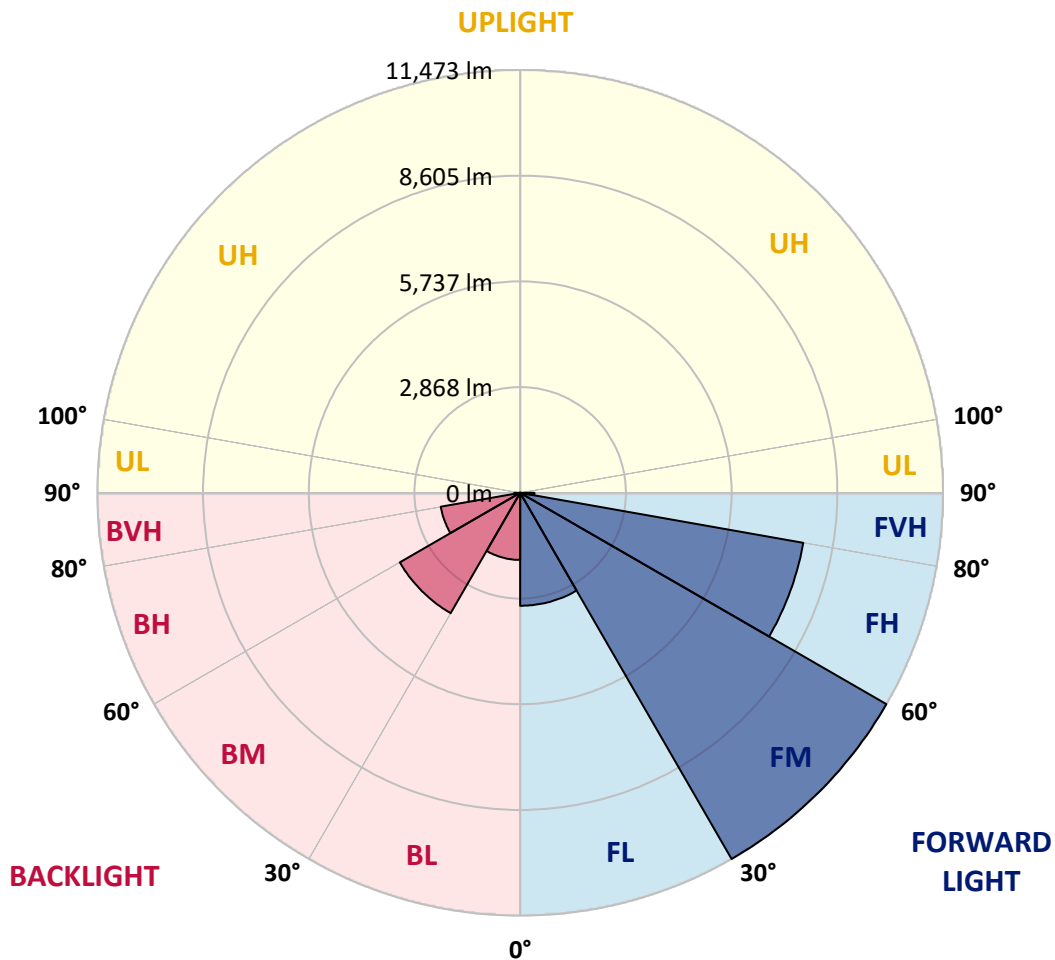
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3064.7	10.0			
FM	(30°-60°)	11473.4	37.4			
FH	(60°-80°)	7800.1	25.4			G4/12000
FVH	(80°-90°)	385.3	1.3			G3/500
BL	(0°-30°)	1820.7	5.9	B3/2500		
BM	(30°-60°)	3770.6	12.3	B3/5000		
BH	(60°-80°)	2186.4	7.1	B3/2500		G3/2500
BVH	(80°-90°)	160.9	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°	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1
2.5°	5746.1	5807.0	5798.7	5761.3	5787.6	5715.6	5689.3	5649.1	5607.5	5593.6	5570.1
5°	6017.6	6098.0	6082.8	6032.9	6031.5	5929.0	5870.8	5794.6	5730.8	5680.9	5607.5
7.5°	6271.2	6364.0	6350.2	6301.7	6298.9	6181.1	6060.6	5941.4	5868.0	5804.3	5669.9
10°	6540.0	6610.7	6598.2	6535.9	6523.4	6408.4	6267.0	6117.4	6009.3	5920.6	5729.4
12.5°	6788.0	6862.9	6868.4	6790.8	6771.4	6648.1	6524.8	6326.6	6186.7	6085.5	5804.3
15°	7019.4	7108.1	7091.5	7013.9	6993.1	6868.4	6747.8	6565.0	6419.5	6278.1	5926.2
17.5°	7205.1	7289.6	7268.8	7234.2	7223.1	7126.1	7026.4	6828.2	6699.4	6517.8	6114.6
20°	7332.6	7411.5	7419.9	7410.2	7473.9	7382.5	7327.0	7187.1	7045.8	6882.3	6372.4
22.5°	7382.5	7476.7	7557.0	7619.4	7751.0	7737.2	7727.5	7647.1	7508.5	7270.2	6713.2
25°	7397.7	7491.9	7616.6	7770.4	8006.0	8090.5	8151.5	8170.9	8019.8	7831.4	7137.2
27.5°	7400.5	7501.6	7629.1	7877.1	8236.0	8490.9	8636.4	8704.3	8619.8	8470.1	7713.6
30°	7342.3	7446.2	7609.7	7940.8	8416.1	8834.6	9075.6	9376.3	9340.3	9214.2	8435.5
32.5°	7174.6	7268.8	7494.7	7929.8	8594.8	9186.5	9562.0	10083.0	10204.9	10123.2	9268.2
35°	6873.9	6988.9	7281.3	7838.3	8691.8	9528.7	10134.2	10944.8	11165.1	11170.7	10289.4
37.5°	6570.5	6657.8	7001.4	7666.5	8745.9	9832.2	10677.4	11808.0	12128.1	12135.0	11138.8
40°	6247.6	6328.0	6706.3	7436.5	8690.5	10070.5	11183.1	12638.0	13096.6	13053.7	11972.9
42.5°	5829.2	5917.9	6293.4	7123.3	8551.9	10254.8	11697.2	13509.6	13950.2	13998.7	12843.1
45°	5471.7	5542.4	5870.8	6634.2	8298.3	10354.6	12179.4	14439.3	14943.6	14892.4	13771.4
47.5°	5031.1	5136.4	5487.0	6236.6	7842.5	10329.6	12640.8	15359.3	15920.5	15873.4	14576.5
50°	3881.1	4003.0	4817.7	5819.5	7260.5	10134.2	13059.2	16239.2	16936.1	16812.8	15428.6
52.5°	3525.0	3559.6	3883.8	5340.1	6686.9	9690.9	13366.8	17350.4	17763.3	17714.8	16291.8
55°	3307.4	3373.9	3522.2	4399.3	6171.4	8970.3	13580.2	18278.8	18744.3	18517.1	17073.3
57.5°	3116.2	3163.3	3339.3	3766.0	5578.4	7978.3	13517.9	19061.6	19477.3	19160.0	17836.8
60°	2912.5	2943.0	3119.0	3437.7	4938.3	6882.3	12884.7	19869.4	20053.7	19762.7	18482.5
62.5°	2754.6	2783.7	2889.0	3195.2	4439.4	6098.0	11848.2	19926.2	20380.7	20168.7	19031.2
65°	2552.3	2571.7	2703.3	2944.4	3976.7	5631.1	10935.1	19392.8	20222.8	20170.1	19241.8
67.5°	2329.2	2352.7	2477.4	2647.9	3385.0	5081.0	9408.2	19104.6	19554.9	19606.2	18846.9
70°	2067.3	2083.9	2212.8	2336.1	2895.9	4460.2	7479.4	18000.3	18525.4	18524.0	17627.5
72.5°	1784.6	1783.3	1910.7	2041.0	2426.2	3746.6	5855.5	15981.5	17371.2	17267.3	15892.8
75°	1471.5	1492.3	1615.6	1718.1	2018.8	3037.2	4077.8	11576.6	15335.8	15478.5	13716.0
77.5°	940.8	954.7	1024.0	1129.3	1411.9	2320.9	2660.3	6433.3	10239.5	12351.2	10796.6
80°	687.3	694.2	755.1	816.1	939.4	1413.3	1352.3	2796.1	4058.4	6063.4	6623.1
82.5°	468.3	469.7	518.2	532.1	539.0	637.4	641.5	1360.7	1932.9	2276.5	2925.0
85°	310.4	257.7	200.9	266.0	273.0	234.2	228.6	613.8	958.8	1150.0	1083.5
87.5°	69.3	67.9	79.0	80.4	77.6	66.5	55.4	94.2	144.1	142.7	182.9
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°	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1
2.5°	5547.9	5541.0	5502.2	5420.4	5365.0	5308.2	5276.3	5256.9	5263.9	5232.0	5218.2
5°	5561.8	5527.1	5417.7	5320.7	5233.4	5135.0	5053.3	5042.2	5058.8	5029.7	5013.1
7.5°	5597.8	5524.4	5384.4	5218.2	5072.7	4979.8	4862.1	4802.5	4798.3	4769.2	4774.8
10°	5618.6	5523.0	5335.9	5135.0	4964.6	4799.7	4673.6	4607.1	4602.9	4561.4	4551.7
12.5°	5675.4	5538.2	5279.1	5033.9	4844.0	4623.7	4490.7	4429.7	4422.8	4364.6	4342.5
15°	5762.7	5572.9	5219.5	4916.1	4670.8	4464.4	4305.0	4223.3	4210.8	4142.9	4119.4
17.5°	5901.3	5671.2	5201.5	4809.4	4519.8	4294.0	4106.9	4018.2	3946.2	3908.8	3876.9
20°	6088.3	5793.2	5222.3	4709.6	4330.0	4069.5	3836.7	3720.3	3670.4	3609.5	3613.6
22.5°	6354.3	5984.4	5258.3	4632.0	4158.2	3829.8	3567.9	3437.7	3347.6	3296.3	3299.1
25°	6728.5	6272.6	5329.0	4558.6	3971.1	3567.9	3258.9	3077.4	2986.0	2952.7	2918.1
27.5°	7200.9	6617.6	5496.7	4468.5	3749.4	3271.4	2929.1	2717.2	2624.3	2574.4	2567.5
30°	7807.8	7070.7	5693.4	4402.0	3516.6	2901.4	2520.4	2352.7	2271.0	2200.3	2167.1
32.5°	8547.7	7710.8	5912.3	4335.5	3228.4	2487.1	2142.1	2013.3	1883.0	1793.0	1797.1
35°	9406.8	8407.8	6238.0	4251.0	2890.4	2100.6	1862.2	1696.0	1574.0	1514.5	1486.7
37.5°	10217.4	9122.8	6620.4	4165.1	2512.1	1849.8	1586.5	1432.7	1338.5	1292.8	1302.5
40°	11037.7	9859.9	6950.1	3954.5	2088.1	1622.5	1313.5	1226.3	1188.8	1152.8	1157.0
42.5°	11772.0	10447.4	7191.2	3720.3	1791.6	1362.0	1119.6	1139.0	1161.1	1140.3	1134.8
45°	12536.9	11134.6	7403.2	3321.3	1543.6	1157.0	1071.1	1125.1	1173.6	1170.8	1163.9
47.5°	13304.5	11772.0	7424.0	2792.0	1317.7	1087.7	1069.7	1109.9	1173.6	1184.7	1176.4
50°	14095.7	12439.9	7302.1	2168.5	1222.1	1096.0	1071.1	1078.0	1148.7	1161.1	1157.0
52.5°	14972.7	13161.8	7001.4	1648.9	1184.7	1109.9	1075.2	1065.5	1105.7	1127.9	1132.0
55°	15779.2	13735.4	6437.5	1456.3	1157.0	1111.2	1105.7	1073.8	1075.2	1064.1	1091.8
57.5°	16456.7	14282.7	5797.3	1351.0	1132.0	1098.8	1119.6	1060.0	1043.4	997.6	986.5
60°	17157.8	14727.5	4896.7	1278.9	1102.9	1083.5	1084.9	1036.4	994.9	928.3	909.0
62.5°	17655.3	14963.0	4022.4	1194.4	1062.8	1060.0	1039.2	1003.2	965.8	907.6	899.3
65°	17799.4	14838.3	3089.9	1105.7	1010.1	1021.2	983.8	933.9	778.7	706.7	706.7
67.5°	17322.7	14070.7	2287.6	1003.2	946.4	968.5	895.1	735.8	655.4	612.4	619.4
70°	16016.1	12830.6	1489.5	853.5	854.9	872.9	738.5	662.3	586.1	559.8	573.6
72.5°	14270.2	10991.9	982.4	680.3	720.5	690.0	674.8	609.7	541.8	511.3	521.0
75°	11759.5	8679.4	681.7	534.8	466.9	588.9	600.0	512.7	460.0	558.4	580.6
77.5°	9290.4	6032.9	562.6	374.1	345.0	435.1	480.8	475.3	760.7	893.7	884.0
80°	5524.4	3473.7	458.6	259.1	243.9	279.9	378.3	545.9	852.1	640.1	609.7
82.5°	2505.2	1579.6	243.9	135.8	159.3	185.7	282.7	678.9	558.4	410.1	386.6
85°	978.2	515.4	97.0	59.6	55.4	69.3	128.9	327.0	224.5	181.5	181.5
87.5°	126.1	92.8	27.7	20.8	18.0	22.2	41.6	181.5	105.3	88.7	85.9
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)