

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: P510084

Luminaire Tested: **VERD-M-CA4-200-740-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-200-740-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 4000K, 910mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26321 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

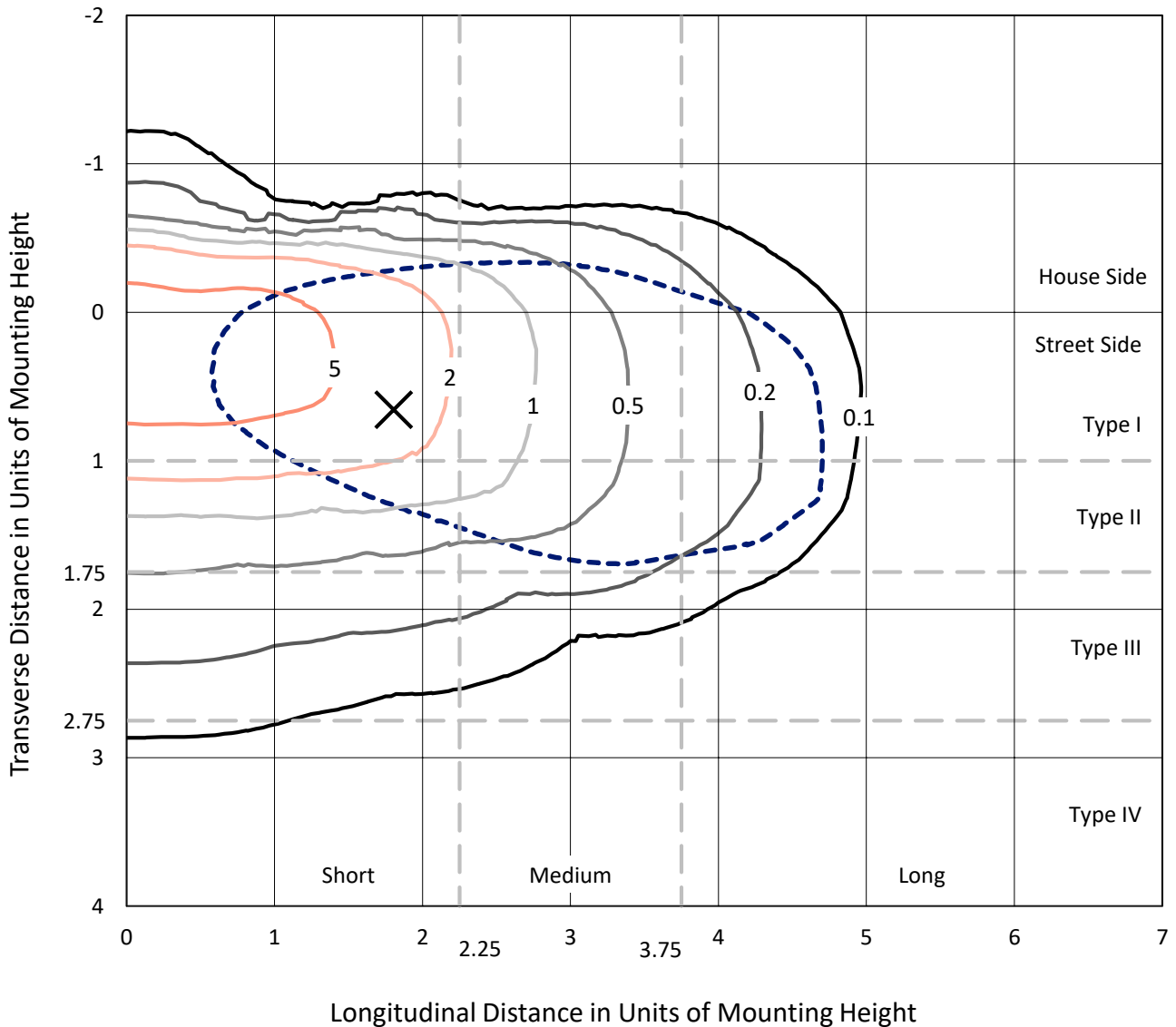
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

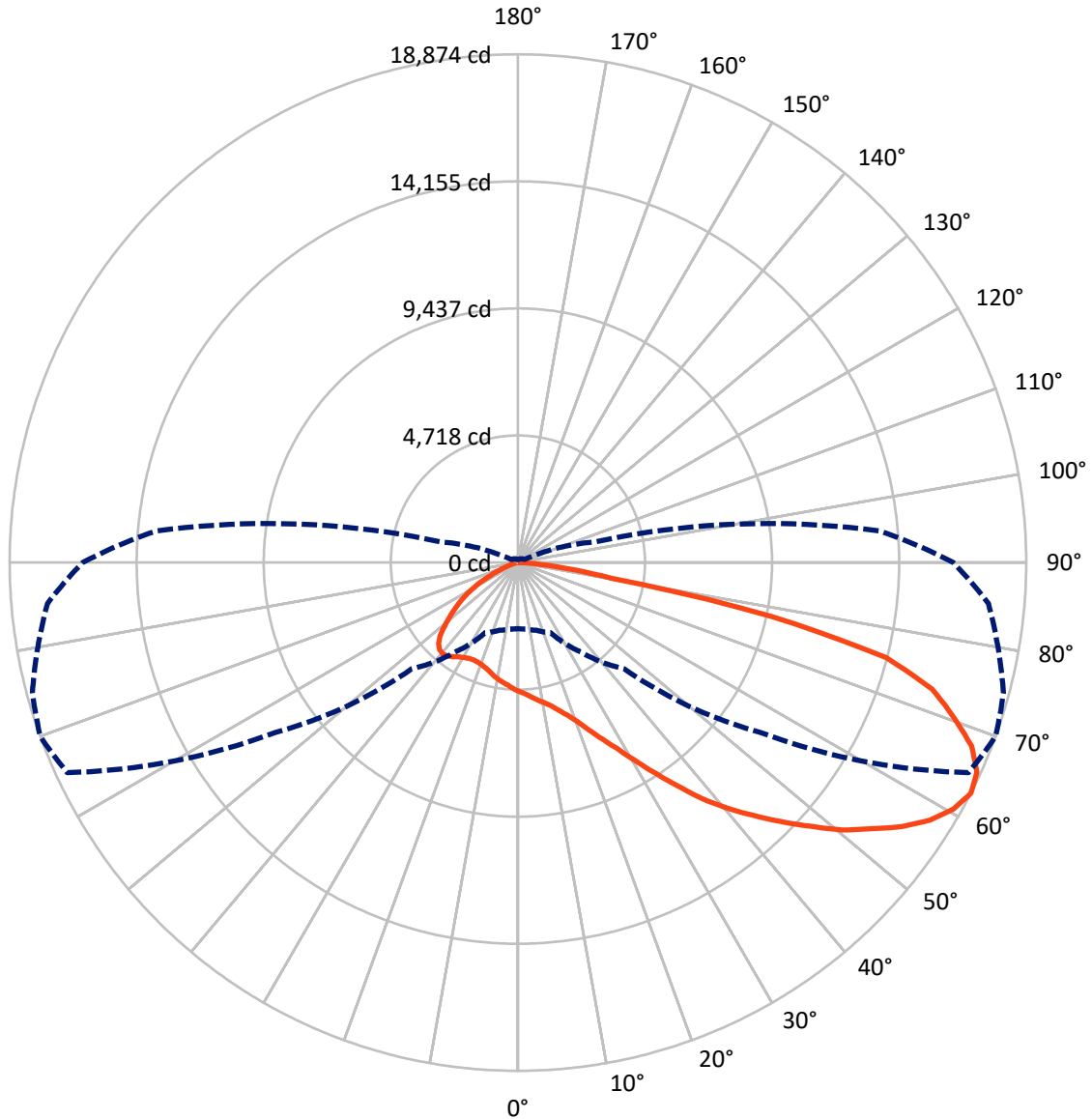
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	5535.1	0.0	5535.1
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	20786.0	0.0	20786.0
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	26321.0	0.0	26321.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.3	1.7
10°-20°	1355.8	5.2
20°-30°	2298.5	8.7
30°-40°	3380.1	12.8
40°-50°	4501.2	17.1
50°-60°	5265.4	20.0
60°-70°	5295.7	20.1
70°-80°	3352.3	12.7
80°-90°	417.7	1.6
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°	26321.0	100.0
0°-180°	26321.0	100.0

**Coefficient of Utilization**



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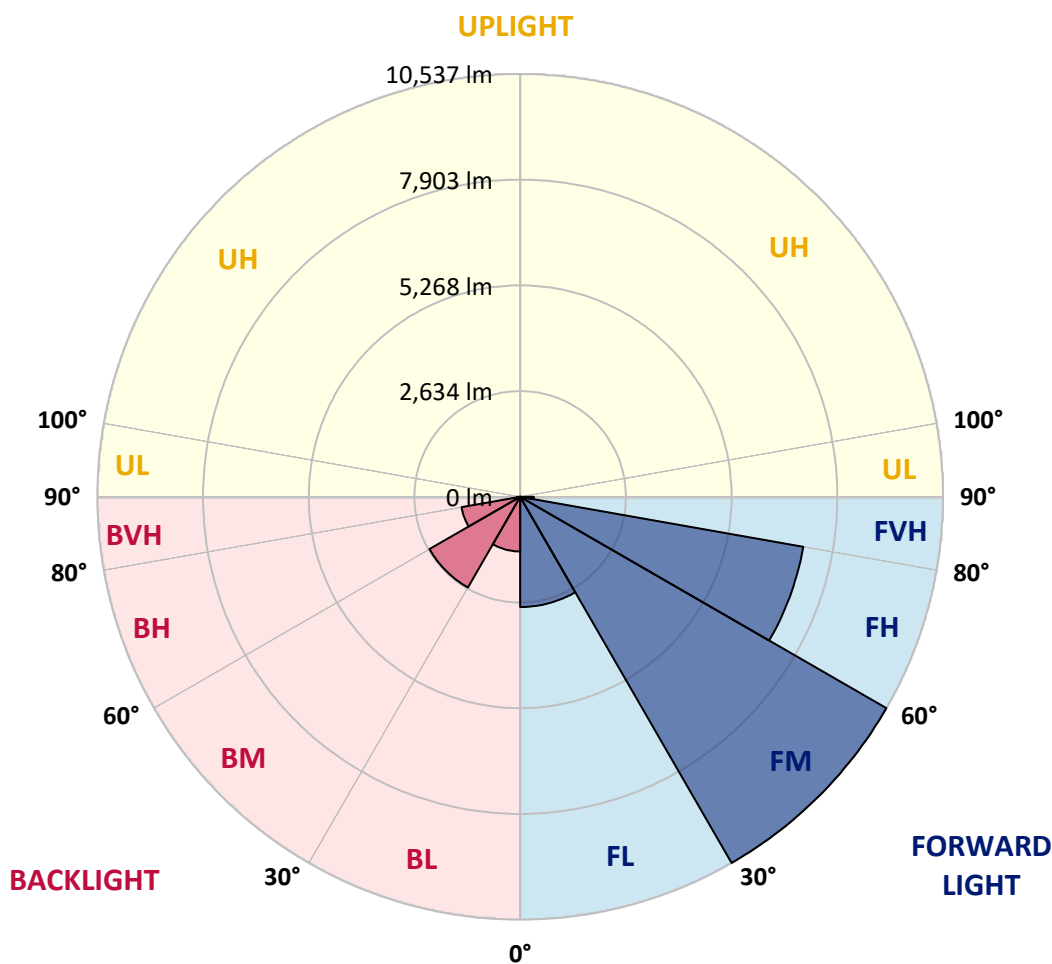
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2745.9	10.4			
FM (30°-60°)	10536.8	40.0			
FH (60°-80°)	7164.6	27.2			G3/7500
FVH (80°-90°)	338.7	1.3			G3/500
BL (0°-30°)	1362.7	5.2	B3/2500		
BM (30°-60°)	2609.9	9.9	B3/5000		
BH (60°-80°)	1483.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	79.0	0.3			G1/100
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°	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1
2.5°	5047.7	5091.9	5058.1	5045.1	5055.5	5003.5	4961.9	4902.1	4873.5	4852.7	4818.9
5°	5303.8	5376.6	5332.4	5305.1	5301.2	5206.3	5150.4	5068.5	5004.8	4948.9	4863.1
7.5°	5574.2	5617.1	5600.2	5569.0	5548.2	5432.5	5333.7	5218.0	5147.8	5073.7	4929.4
10°	5810.8	5862.8	5845.9	5790.0	5770.5	5652.2	5539.1	5381.8	5285.6	5193.3	4994.4
12.5°	6055.1	6113.6	6078.5	6022.6	6005.7	5886.2	5769.2	5578.1	5458.5	5354.5	5078.9
15°	6280.0	6333.3	6308.6	6244.9	6228.0	6126.6	5997.9	5819.9	5689.9	5552.1	5198.5
17.5°	6459.4	6512.7	6481.5	6451.6	6446.4	6346.3	6269.6	6087.6	5964.1	5777.0	5381.8
20°	6590.7	6645.3	6629.7	6644.0	6698.6	6624.5	6577.7	6424.3	6298.2	6095.4	5645.7
22.5°	6694.7	6764.9	6827.3	6855.9	6957.3	6952.1	6941.7	6850.7	6751.9	6541.3	5960.2
25°	6705.1	6785.7	6909.2	7043.1	7227.7	7316.1	7381.1	7366.8	7251.1	7043.1	6395.7
27.5°	6720.7	6803.9	6931.3	7161.4	7491.6	7698.3	7806.2	7872.5	7804.9	7665.8	6891.0
30°	6686.9	6772.7	6932.6	7226.4	7672.3	8055.8	8248.2	8493.8	8501.6	8384.6	7638.5
32.5°	6533.5	6646.6	6840.3	7234.2	7847.8	8428.8	8725.2	9197.1	9299.8	9212.7	8409.3
35°	6277.4	6380.1	6657.0	7165.3	7954.4	8739.5	9281.6	10017.4	10169.5	10164.3	9316.7
37.5°	5994.0	6098.0	6410.0	7002.8	8023.3	9016.4	9771.7	10831.1	11134.0	11070.3	10173.4
40°	5680.8	5790.0	6150.0	6798.7	7989.5	9263.4	10290.4	11620.2	11995.9	12003.7	10992.3
42.5°	5316.8	5406.5	5767.9	6516.6	7877.7	9445.4	10772.6	12450.9	12846.1	12824.0	11764.5
45°	4968.4	5062.0	5377.9	6079.8	7619.0	9546.8	11245.8	13291.9	13724.8	13654.6	12622.5
47.5°	4547.2	4681.1	5041.2	5713.3	7219.9	9539.0	11659.2	14152.5	14638.7	14581.5	13363.4
50°	3499.5	3578.7	4393.8	5335.0	6679.1	9357.0	12063.5	14997.5	15612.3	15500.5	14153.8
52.5°	3152.4	3223.9	3486.5	4881.3	6187.7	8963.1	12400.2	15964.6	16424.8	16337.7	14961.1
55°	2979.5	3018.5	3178.4	4025.9	5708.1	8323.5	12625.1	16823.9	17302.3	17109.9	15716.3
57.5°	2762.4	2810.5	2996.4	3438.4	5117.9	7342.1	12573.1	17598.7	18040.6	17745.5	16381.9
60°	2596.0	2632.4	2806.6	3095.2	4508.2	6325.5	12041.4	18359.1	18581.4	18290.2	17044.9
62.5°	2455.6	2476.4	2598.6	2872.9	4044.1	5583.3	11004.0	18460.5	18873.9	18663.3	17538.9
65°	2281.4	2286.6	2430.9	2645.4	3615.1	5137.4	10113.6	17940.5	18728.3	18658.1	17717.0
67.5°	2077.3	2087.7	2233.3	2397.1	3099.1	4662.9	8726.5	17661.1	18162.8	18118.6	17364.7
70°	1821.2	1842.0	1975.9	2100.7	2624.6	4093.5	6945.6	16556.1	17151.5	17086.5	16203.8
72.5°	1574.2	1562.5	1687.3	1810.8	2186.5	3417.6	5264.8	14654.3	16088.1	16025.7	14695.9
75°	1293.4	1285.6	1414.3	1531.3	1792.6	2761.1	3703.5	10837.6	14135.6	14328.0	12671.9
77.5°	796.9	803.4	877.5	955.5	1214.1	2063.0	2363.3	6029.1	9602.7	11387.5	9944.6
80°	577.2	577.2	631.8	678.6	803.4	1257.0	1176.5	2514.1	3509.9	5496.2	6202.0
82.5°	374.4	358.8	392.6	432.9	447.2	544.7	538.2	1260.9	1788.7	2152.7	2583.0
85°	195.0	215.8	130.0	183.3	193.7	180.7	185.9	591.5	794.3	1017.9	1120.6
87.5°	29.9	23.4	31.2	42.9	49.4	41.6	36.4	68.9	106.6	141.7	167.7
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°	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1	4785.1
2.5°	4796.8	4790.3	4730.5	4643.4	4571.9	4512.1	4473.1	4447.1	4475.7	4423.7	4417.2
5°	4809.8	4765.6	4635.6	4510.8	4414.6	4285.9	4198.8	4140.3	4163.7	4118.2	4100.0
7.5°	4844.9	4764.3	4584.9	4386.0	4204.0	4066.2	3932.3	3803.6	3784.1	3755.5	3756.8
10°	4876.1	4760.4	4526.4	4266.4	4054.5	3811.4	3650.2	3517.7	3487.8	3454.0	3437.1
12.5°	4925.5	4769.5	4453.6	4139.0	3855.6	3574.8	3400.7	3244.7	3214.8	3148.5	3134.2
15°	5024.3	4802.0	4382.1	3981.7	3632.0	3348.7	3123.8	2987.3	2932.7	2858.6	2857.3
17.5°	5153.0	4896.9	4345.7	3833.5	3442.3	3125.1	2887.2	2749.4	2657.1	2612.9	2601.2
20°	5336.3	5020.4	4344.4	3699.6	3244.7	2885.9	2612.9	2456.9	2378.9	2342.5	2320.4
22.5°	5618.4	5202.4	4367.8	3606.0	3045.8	2654.5	2382.8	2168.3	2039.6	1939.5	1953.8
25°	5969.3	5475.4	4421.1	3520.3	2872.9	2433.5	2092.9	1795.2	1565.1	1465.0	1472.8
27.5°	6415.2	5801.7	4558.9	3433.2	2676.6	2195.6	1714.6	1336.3	1162.2	1045.2	1054.3
30°	6985.9	6207.2	4739.6	3365.6	2494.6	1862.8	1290.8	985.4	832.0	735.8	726.7
32.5°	7668.4	6794.8	4937.2	3320.1	2295.7	1446.8	930.8	722.8	573.3	518.7	526.5
35°	8513.3	7455.2	5238.8	3253.8	1955.1	1029.6	664.3	488.8	412.1	401.7	403.0
37.5°	9284.2	8131.2	5537.8	3142.0	1543.0	731.9	451.1	371.8	354.9	351.0	356.2
40°	10039.5	8747.3	5808.2	2979.5	1060.8	501.8	331.5	335.4	321.1	310.7	305.5
42.5°	10746.6	9341.4	6020.0	2680.5	725.4	331.5	293.8	305.5	302.9	282.1	273.0
45°	11509.7	9969.3	6137.0	2261.9	456.3	282.1	263.9	284.7	297.7	274.3	263.9
47.5°	12161.0	10581.6	6131.8	1732.8	309.4	266.5	248.3	266.5	282.1	265.2	256.1
50°	12912.4	11088.5	5965.4	1099.8	274.3	247.0	237.9	244.4	265.2	253.5	244.4
52.5°	13746.9	11782.7	5713.3	613.6	260.0	234.0	221.0	228.8	247.0	232.7	237.9
55°	14438.5	12358.6	5120.5	418.6	253.5	218.4	210.6	215.8	223.6	209.3	217.1
57.5°	15056.0	12834.4	4521.2	343.2	244.4	208.0	206.7	196.3	195.0	185.9	178.1
60°	15681.2	13210.0	3712.6	310.7	235.3	209.3	187.2	172.9	161.2	152.1	148.2
62.5°	16160.9	13470.0	2936.6	280.8	222.3	196.3	171.6	148.2	128.7	117.0	117.0
65°	16301.3	13354.3	2066.9	254.8	208.0	184.6	153.4	120.9	97.5	89.7	85.8
67.5°	15851.5	12690.1	1439.0	235.3	193.7	171.6	135.2	98.8	78.0	67.6	65.0
70°	14706.3	11578.6	848.9	208.0	175.5	149.5	123.5	80.6	63.7	53.3	50.7
72.5°	13013.7	9912.1	529.1	176.8	150.8	122.2	92.3	66.3	50.7	41.6	40.3
75°	10749.2	7726.9	345.8	136.5	119.6	96.2	70.2	53.3	44.2	35.1	32.5
77.5°	8619.9	5466.3	309.4	104.0	88.4	68.9	53.3	44.2	36.4	31.2	31.2
80°	4960.6	3119.9	253.5	71.5	54.6	52.0	41.6	36.4	33.8	29.9	28.6
82.5°	2437.4	1498.8	163.8	44.2	31.2	33.8	35.1	32.5	28.6	26.0	26.0
85°	839.8	499.2	66.3	28.6	20.8	20.8	22.1	23.4	22.1	20.8	20.8
87.5°	130.0	94.9	18.2	16.9	13.0	11.7	13.0	14.3	14.3	13.0	13.0
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)