

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: P510244

Luminaire Tested: **VERD-M-CA4-230-760-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510244  
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-CA4-230-760-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 1050mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29555 lumens  
Efficiency: N/A  
Efficacy: 126.7 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

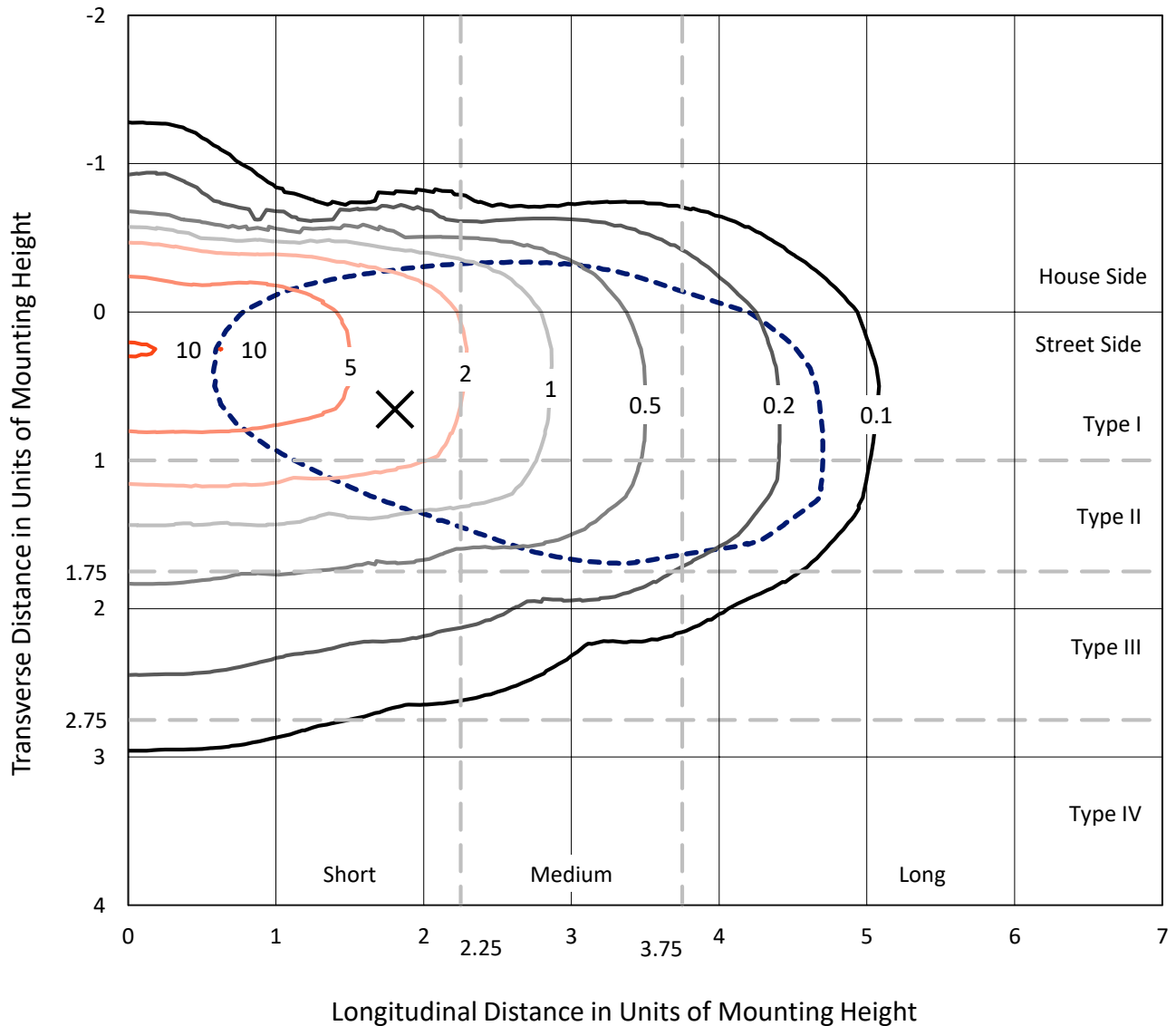
Input Watts (W): 233.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

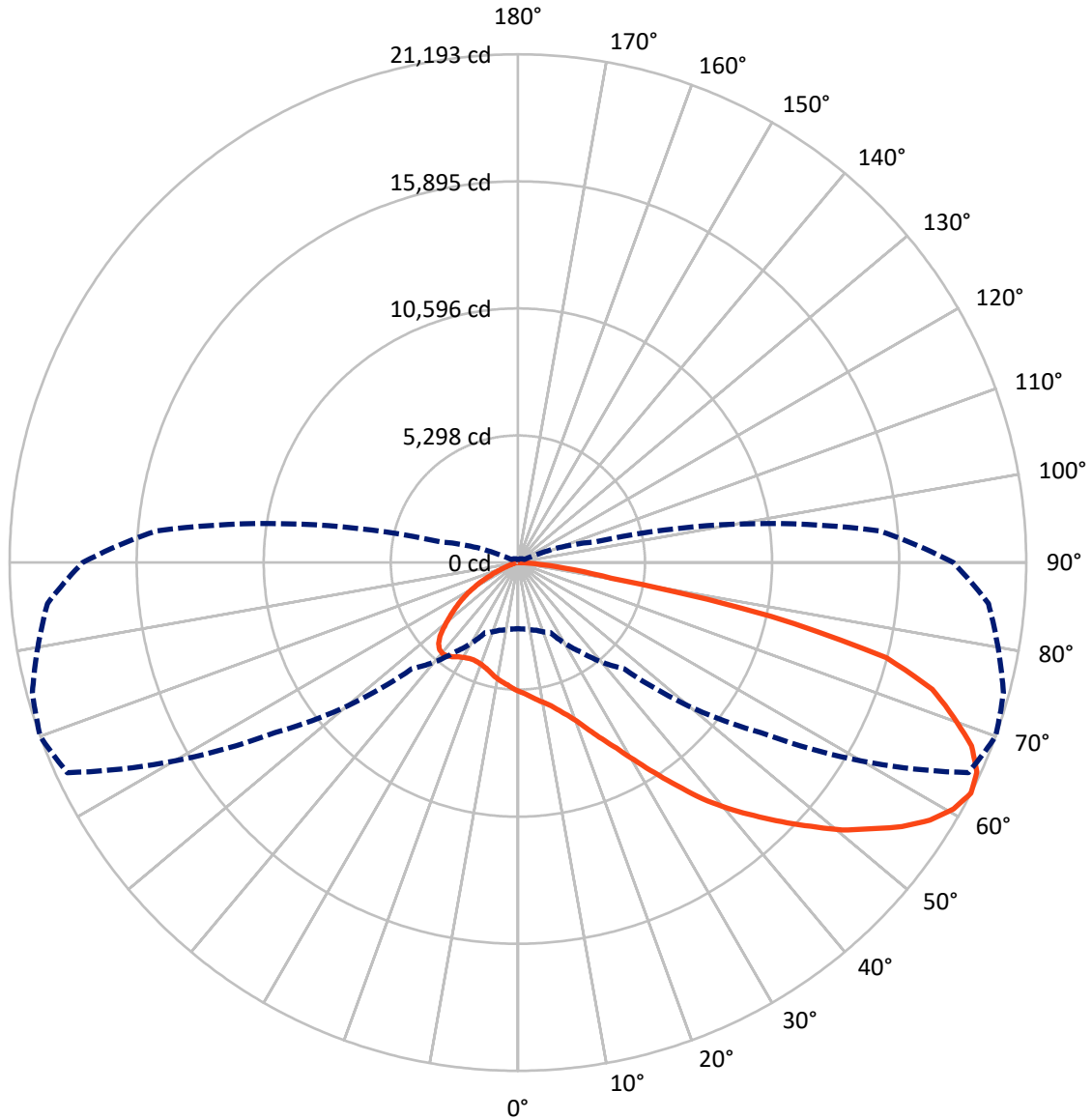
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	6215.1	0.0	6215.1
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	23339.9	0.0	23339.9
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	29555.0	0.0	29555.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.1	1.7
10°-20°	1522.4	5.2
20°-30°	2580.9	8.7
30°-40°	3795.3	12.8
40°-50°	5054.2	17.1
50°-60°	5912.4	20.0
60°-70°	5946.4	20.1
70°-80°	3764.2	12.7
80°-90°	469.0	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°	29555.0	100.0
0°-180°	29555.0	100.0

**Coefficient of Utilization**



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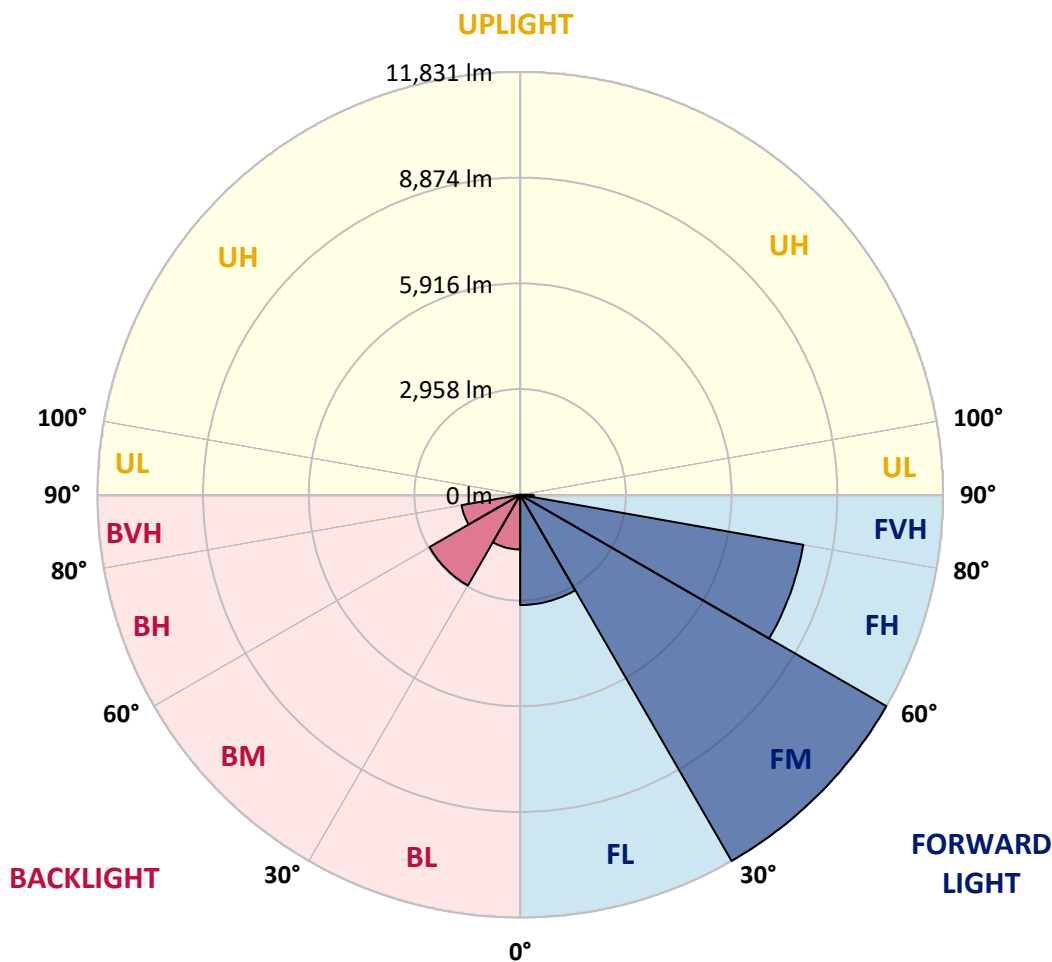
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3083.2	10.4			
FM (30°-60°)	11831.4	40.0			
FH (60°-80°)	8044.9	27.2			G4/12000
FVH (80°-90°)	380.4	1.3			G3/500
BL (0°-30°)	1530.2	5.2	B3/2500		
BM (30°-60°)	2930.5	9.9	B3/5000		
BH (60°-80°)	1665.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	88.7	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0
2.5°	5667.9	5717.5	5679.6	5665.0	5676.6	5618.3	5571.5	5504.4	5472.3	5448.9	5411.0
5°	5955.4	6037.2	5987.6	5956.9	5952.5	5846.0	5783.2	5691.2	5619.7	5556.9	5460.6
7.5°	6259.0	6307.2	6288.2	6253.2	6229.9	6099.9	5989.0	5859.1	5780.3	5697.1	5535.1
10°	6524.7	6583.1	6564.1	6501.4	6479.5	6346.6	6219.6	6043.0	5935.0	5831.4	5608.0
12.5°	6799.1	6864.8	6825.4	6762.6	6743.7	6609.4	6478.0	6263.4	6129.1	6012.4	5702.9
15°	7051.6	7111.5	7083.8	7012.2	6993.3	6879.4	6734.9	6534.9	6389.0	6234.2	5837.2
17.5°	7253.1	7312.9	7277.9	7244.3	7238.5	7126.1	7040.0	6835.6	6696.9	6486.8	6043.0
20°	7400.5	7461.8	7444.3	7460.4	7521.7	7438.5	7385.9	7213.7	7072.1	6844.4	6339.3
22.5°	7517.3	7596.1	7666.2	7698.3	7812.1	7806.3	7794.6	7692.4	7581.5	7345.0	6692.6
25°	7529.0	7619.5	7758.1	7908.5	8115.7	8215.0	8288.0	8271.9	8142.0	7908.5	7181.6
27.5°	7546.5	7639.9	7782.9	8041.3	8412.1	8644.1	8765.3	8839.7	8763.8	8607.7	7737.7
30°	7508.5	7604.9	7784.4	8114.3	8615.0	9045.6	9261.6	9537.5	9546.2	9414.8	8577.0
32.5°	7336.3	7463.3	7680.8	8123.0	8812.0	9464.5	9797.3	10327.1	10442.5	10344.7	9442.6
35°	7048.7	7164.0	7475.0	8045.7	8931.7	9813.3	10422.0	11248.2	11419.0	11413.1	10461.4
37.5°	6730.5	6847.3	7197.6	7863.2	9009.1	10124.2	10972.3	12161.9	12502.0	12430.5	11423.3
40°	6378.7	6501.4	6905.7	7634.1	8971.1	10401.6	11554.7	13048.0	13469.8	13478.6	12342.9
42.5°	5970.0	6070.8	6476.5	7317.3	8845.6	10605.9	12096.3	13980.7	14424.4	14399.6	13210.0
45°	5578.8	5683.9	6038.6	6826.9	8555.1	10719.8	12627.6	14925.1	15411.2	15332.3	14173.4
47.5°	5105.9	5256.3	5660.6	6415.2	8107.0	10711.0	13091.7	15891.4	16437.3	16373.1	15005.4
50°	3929.4	4018.5	4933.7	5990.5	7499.8	10506.7	13545.7	16840.2	17530.6	17405.1	15892.8
52.5°	3539.7	3620.0	3914.8	5481.0	6948.0	10064.4	13923.8	17926.2	18442.9	18345.1	16799.3
55°	3345.6	3389.3	3568.9	4520.6	6409.4	9346.2	14176.3	18891.0	19428.2	19212.1	17647.4
57.5°	3101.8	3155.8	3364.5	3860.8	5746.7	8244.2	14117.9	19761.0	20257.2	19925.9	18394.7
60°	2915.0	2955.8	3151.4	3475.5	5062.1	7102.7	13520.9	20614.9	20864.5	20537.5	19139.1
62.5°	2757.3	2780.7	2917.9	3225.9	4541.0	6269.3	12356.1	20728.7	21192.9	20956.4	19693.8
65°	2561.7	2567.6	2729.6	2970.4	4059.3	5768.6	11356.2	20144.9	21029.4	20950.6	19893.8
67.5°	2332.5	2344.2	2507.7	2691.6	3479.8	5235.8	9798.7	19831.0	20394.5	20344.8	19498.2
70°	2045.0	2068.3	2218.7	2358.8	2947.1	4596.5	7799.0	18590.3	19258.8	19185.9	18194.7
72.5°	1767.7	1754.5	1894.6	2033.3	2455.2	3837.5	5911.6	16454.8	18064.8	17994.8	16501.5
75°	1452.4	1443.6	1588.1	1719.5	2012.9	3100.3	4158.6	12169.2	15872.4	16088.4	14228.8
77.5°	894.8	902.1	985.3	1072.9	1363.3	2316.5	2653.7	6769.9	10782.6	12786.7	11166.4
80°	648.1	648.1	709.4	761.9	902.1	1411.5	1321.0	2823.0	3941.1	6171.5	6964.1
82.5°	420.4	402.9	440.8	486.1	502.1	611.6	604.3	1415.9	2008.5	2417.2	2900.4
85°	218.9	242.3	146.0	205.8	217.5	202.9	208.7	664.1	891.9	1142.9	1258.2
87.5°	33.6	26.3	35.0	48.2	55.5	46.7	40.9	77.4	119.7	159.1	188.3
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°	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0	5373.0
2.5°	5386.2	5378.9	5311.7	5213.9	5133.6	5066.5	5022.7	4993.5	5025.6	4967.2	4959.9
5°	5400.8	5351.1	5205.2	5065.0	4957.0	4812.5	4714.7	4649.0	4675.3	4624.2	4603.8
7.5°	5440.2	5349.7	5148.2	4924.9	4720.6	4565.8	4415.5	4271.0	4249.1	4217.0	4218.4
10°	5475.2	5345.3	5082.6	4790.6	4552.7	4279.7	4098.7	3949.9	3916.3	3878.3	3859.4
12.5°	5530.7	5355.5	5000.8	4647.6	4329.4	4014.1	3818.5	3643.3	3609.8	3535.3	3519.3
15°	5641.6	5392.0	4920.5	4471.0	4078.3	3760.1	3507.6	3354.3	3293.0	3209.8	3208.3
17.5°	5786.1	5498.6	4879.7	4304.6	3865.2	3509.0	3241.9	3087.2	2983.6	2933.9	2920.8
20°	5991.9	5637.2	4878.2	4154.2	3643.3	3240.5	2933.9	2758.8	2671.2	2630.3	2605.5
22.5°	6308.7	5841.6	4904.5	4049.1	3420.0	2980.6	2675.6	2434.7	2290.2	2177.8	2193.9
25°	6702.8	6148.1	4964.3	3952.8	3225.9	2732.5	2350.1	2015.8	1757.4	1645.0	1653.8
27.5°	7203.5	6514.5	5119.0	3855.0	3005.5	2465.4	1925.3	1500.5	1304.9	1173.6	1183.8
30°	7844.2	6969.9	5321.9	3779.1	2801.1	2091.7	1449.4	1106.4	934.2	826.2	816.0
32.5°	8610.6	7629.7	5543.8	3728.0	2577.8	1624.6	1045.1	811.6	643.7	582.4	591.2
35°	9559.4	8371.2	5882.5	3653.5	2195.3	1156.1	745.9	548.8	462.7	451.0	452.5
37.5°	10424.9	9130.2	6218.2	3528.0	1732.6	821.8	506.5	417.5	398.5	394.1	399.9
40°	11273.0	9822.1	6521.8	3345.6	1191.1	563.4	372.2	376.6	360.5	348.9	343.0
42.5°	12067.1	10489.2	6759.7	3009.8	814.5	372.2	329.9	343.0	340.1	316.7	306.5
45°	12923.9	11194.2	6891.1	2539.8	512.3	316.7	296.3	319.7	334.3	308.0	296.3
47.5°	13655.2	11881.7	6885.2	1945.7	347.4	299.2	278.8	299.2	316.7	297.8	287.6
50°	14498.9	12451.0	6698.4	1234.9	308.0	277.3	267.1	274.4	297.8	284.6	274.4
52.5°	15436.0	13230.4	6415.2	689.0	291.9	262.7	248.1	256.9	277.3	261.3	267.1
55°	16212.5	13877.0	5749.6	470.0	284.6	245.2	236.5	242.3	251.1	235.0	243.8
57.5°	16905.9	14411.3	5076.7	385.4	274.4	233.5	232.1	220.4	218.9	208.7	200.0
60°	17608.0	14833.1	4168.8	348.9	264.2	235.0	210.2	194.1	181.0	170.8	166.4
62.5°	18146.6	15125.1	3297.4	315.3	249.6	220.4	192.7	166.4	144.5	131.4	131.4
65°	18304.2	14995.2	2320.9	286.1	233.5	207.3	172.2	135.7	109.5	100.7	96.3
67.5°	17799.2	14249.3	1615.9	264.2	217.5	192.7	151.8	110.9	87.6	75.9	73.0
70°	16513.2	13001.2	953.2	233.5	197.1	167.9	138.7	90.5	71.5	59.8	56.9
72.5°	14612.7	11130.0	594.1	198.5	169.3	137.2	103.6	74.4	56.9	46.7	45.2
75°	12070.0	8676.3	388.3	153.3	134.3	108.0	78.8	59.8	49.6	39.4	36.5
77.5°	9679.0	6137.9	347.4	116.8	99.3	77.4	59.8	49.6	40.9	35.0	35.0
80°	5570.1	3503.2	284.6	80.3	61.3	58.4	46.7	40.9	38.0	33.6	32.1
82.5°	2736.9	1683.0	183.9	49.6	35.0	38.0	39.4	36.5	32.1	29.2	29.2
85°	942.9	560.5	74.4	32.1	23.4	23.4	24.8	26.3	24.8	23.4	23.4
87.5°	146.0	106.6	20.4	19.0	14.6	13.1	14.6	16.1	16.1	14.6	14.6
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)