

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: P509988

Luminaire Tested: **VERD-M-CA3-180-740-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509988  
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-CA3-180-740-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23346 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

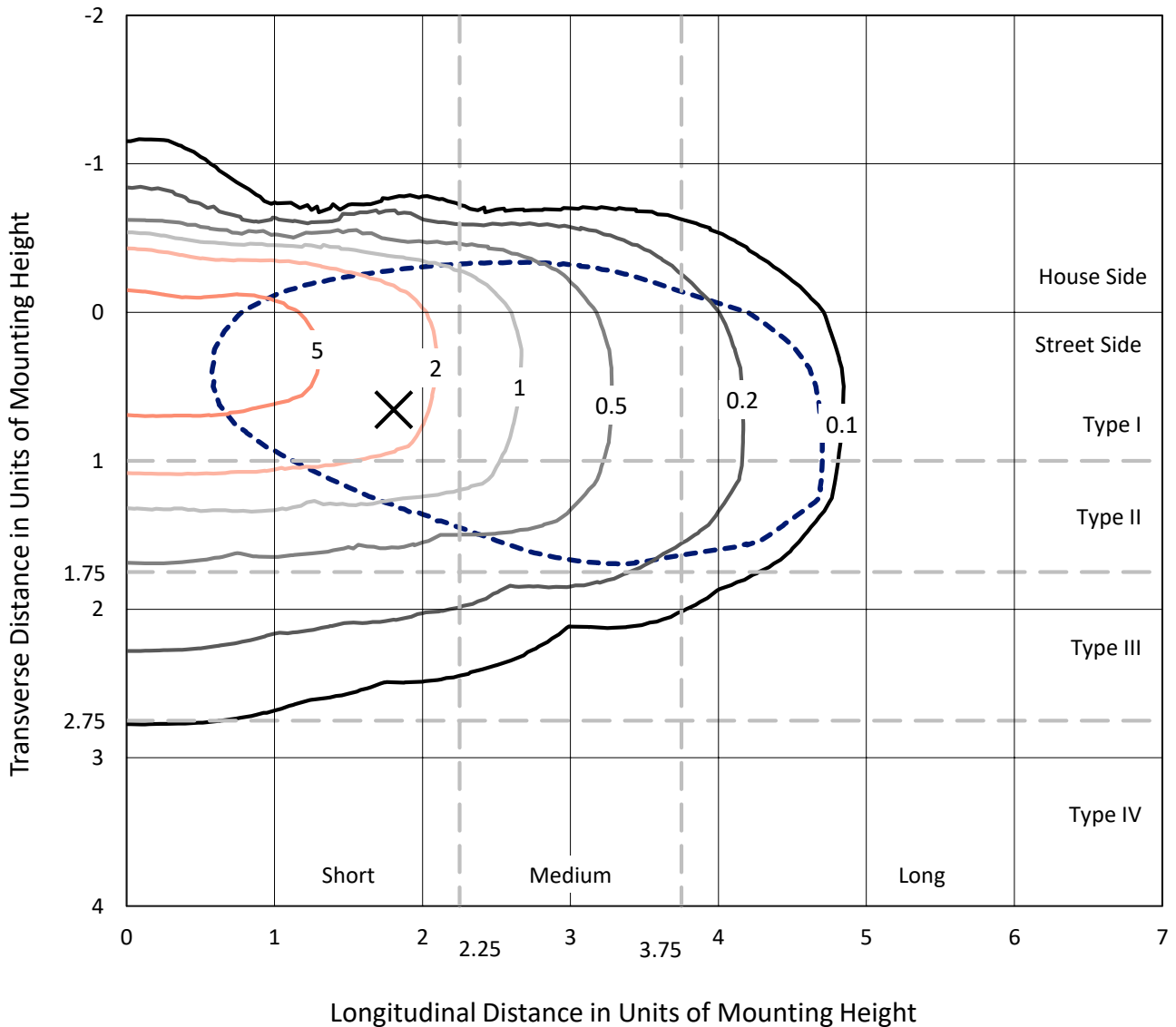
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

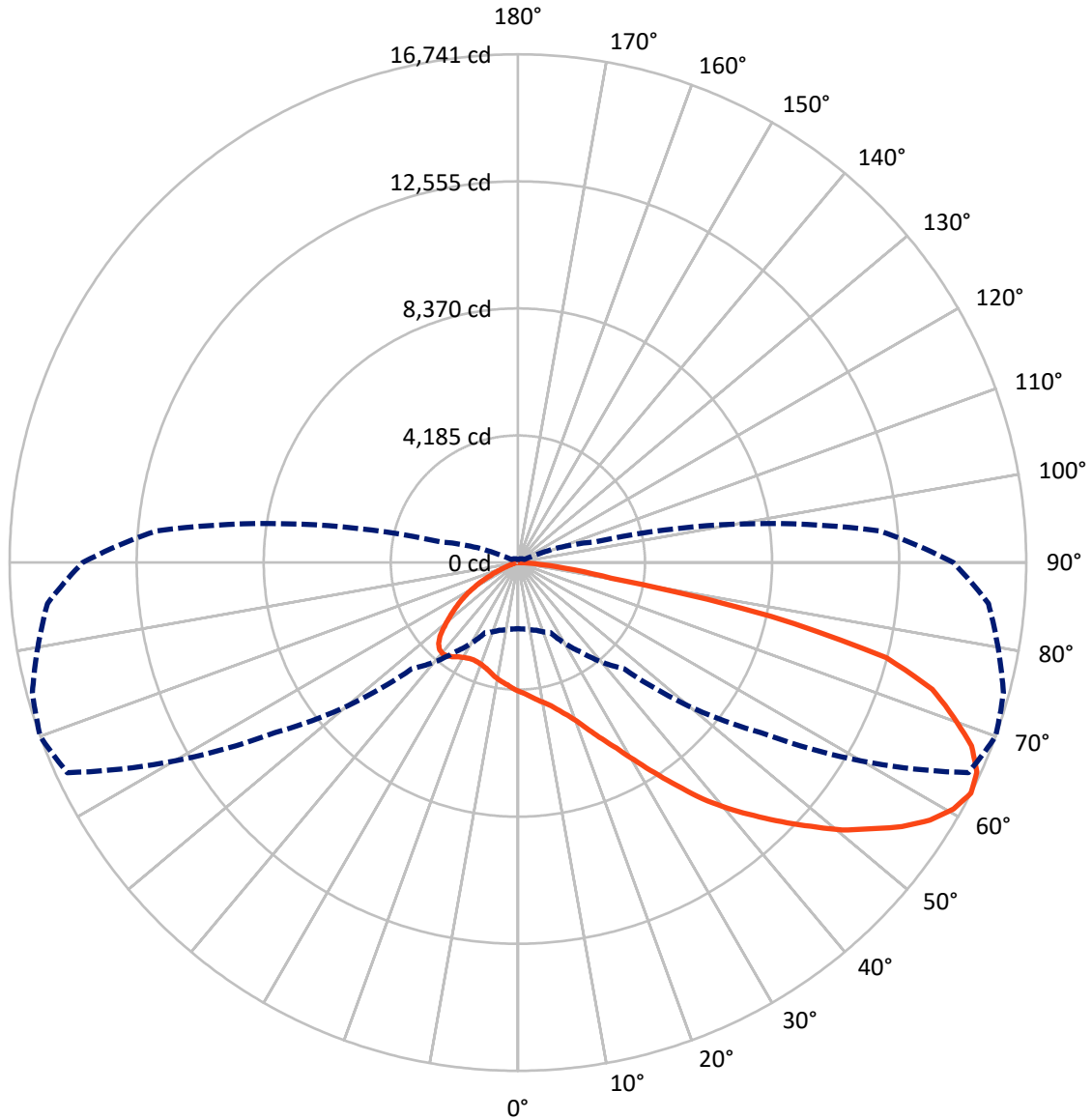
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	4909.4	0.0	4909.4
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	18436.6	0.0	18436.6
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	23346.0	0.0	23346.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.0	1.7
10°-20°	1202.6	5.2
20°-30°	2038.7	8.7
30°-40°	2998.0	12.8
40°-50°	3992.4	17.1
50°-60°	4670.3	20.0
60°-70°	4697.2	20.1
70°-80°	2973.4	12.7
80°-90°	370.5	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°	23346.0	100.0
0°-180°	23346.0	100.0

**Coefficient of Utilization**



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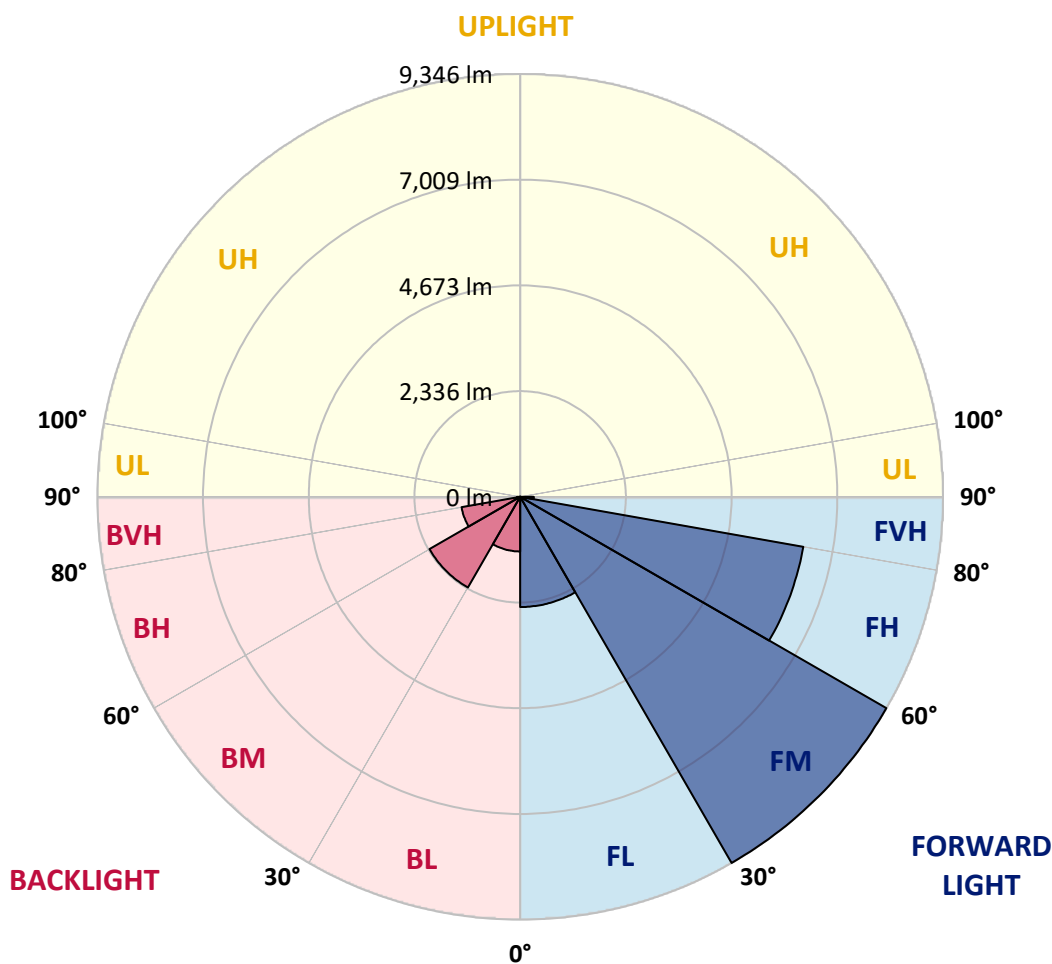
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2435.5	10.4			
FM	(30°-60°)	9345.8	40.0			
FH	(60°-80°)	6354.8	27.2			G3/7500
FVH	(80°-90°)	300.4	1.3			G3/500
BL	(0°-30°)	1208.7	5.2	B3/2500		
BM	(30°-60°)	2314.9	9.9	B2/2500		
BH	(60°-80°)	1315.8	5.6	B3/2500		G3/2500
BVH	(80°-90°)	70.1	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°	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2
2.5°	4477.2	4516.4	4486.4	4474.9	4484.1	4438.0	4401.1	4348.0	4322.7	4304.2	4274.2
5°	4704.3	4768.9	4729.7	4705.5	4702.0	4617.8	4568.2	4495.6	4439.1	4389.5	4313.4
7.5°	4944.1	4982.2	4967.2	4939.5	4921.1	4818.5	4730.8	4628.2	4565.9	4500.2	4372.2
10°	5154.0	5200.1	5185.1	5135.5	5118.2	5013.3	4913.0	4773.5	4688.2	4606.3	4429.9
12.5°	5370.7	5422.6	5391.5	5341.9	5326.9	5220.9	5117.1	4947.6	4841.5	4749.3	4504.8
15°	5570.2	5617.5	5595.6	5539.1	5524.1	5434.2	5320.0	5162.0	5046.7	4924.5	4610.9
17.5°	5729.3	5776.6	5748.9	5722.4	5717.8	5629.0	5561.0	5399.6	5290.0	5124.0	4773.5
20°	5845.8	5894.2	5880.4	5893.1	5941.5	5875.8	5834.3	5698.2	5586.4	5406.5	5007.5
22.5°	5938.0	6000.3	6055.6	6081.0	6170.9	6166.3	6157.1	6076.4	5988.8	5802.0	5286.6
25°	5947.3	6018.7	6128.3	6247.0	6410.8	6489.2	6546.8	6534.1	6431.5	6247.0	5672.8
27.5°	5961.1	6034.9	6147.9	6352.0	6644.8	6828.2	6923.9	6982.7	6922.7	6799.3	6112.1
30°	5931.1	6007.2	6149.0	6409.6	6805.1	7145.2	7315.9	7533.8	7540.7	7436.9	6775.1
32.5°	5795.1	5895.4	6067.2	6416.5	6960.8	7476.2	7739.0	8157.6	8248.7	8171.4	7458.9
35°	5567.9	5659.0	5904.6	6355.4	7055.3	7751.7	8232.5	8885.1	9020.0	9015.4	8263.7
37.5°	5316.6	5408.8	5685.5	6211.3	7116.4	7997.3	8667.2	9606.9	9875.6	9819.1	9023.5
40°	5038.7	5135.5	5454.9	6030.3	7086.4	8216.4	9127.3	10306.8	10640.0	10646.9	9749.9
42.5°	4715.8	4795.4	5115.9	5780.1	6987.3	8377.8	9555.0	11043.6	11394.1	11374.5	10434.8
45°	4406.8	4489.8	4770.0	5392.7	6757.8	8467.7	9974.7	11789.6	12173.5	12111.3	11195.8
47.5°	4033.2	4152.0	4471.4	5067.5	6403.8	8460.8	10341.4	12552.9	12984.1	12933.4	11853.0
50°	3103.9	3174.3	3897.2	4732.0	5924.2	8299.4	10700.0	13302.3	13847.7	13748.6	12554.0
52.5°	2796.1	2859.5	3092.4	4329.6	5488.4	7950.0	10998.6	14160.2	14568.3	14491.1	13270.1
55°	2642.7	2677.3	2819.1	3570.9	5062.9	7382.8	11198.1	14922.3	15346.6	15176.0	13940.0
57.5°	2450.2	2492.8	2657.7	3049.7	4539.4	6512.2	11152.0	15609.5	16001.5	15739.8	14530.3
60°	2302.6	2334.9	2489.4	2745.3	3998.7	5610.6	10680.4	16284.0	16481.2	16222.9	15118.3
62.5°	2178.0	2196.5	2304.9	2548.2	3587.0	4952.2	9760.3	16374.0	16740.6	16553.8	15556.5
65°	2023.5	2028.2	2156.1	2346.4	3206.5	4556.7	8970.5	15912.8	16611.5	16549.2	15714.4
67.5°	1842.5	1851.7	1980.9	2126.2	2748.8	4135.9	7740.2	15664.9	16109.9	16070.7	15402.0
70°	1615.4	1633.8	1752.6	1863.3	2327.9	3630.8	6160.6	14684.8	15212.9	15155.2	14372.3
72.5°	1396.3	1385.9	1496.6	1606.2	1939.4	3031.3	4669.7	12997.9	14269.7	14214.4	13034.8
75°	1147.3	1140.3	1254.5	1358.3	1590.0	2449.0	3284.9	9612.7	12537.9	12708.5	11239.6
77.5°	706.8	712.6	778.3	847.5	1076.9	1829.8	2096.2	5347.7	8517.3	10100.4	8820.6
80°	511.9	511.9	560.4	601.9	712.6	1115.0	1043.5	2229.9	3113.1	4874.9	5501.0
82.5°	332.1	318.2	348.2	384.0	396.6	483.1	477.3	1118.4	1586.5	1909.4	2291.0
85°	173.0	191.4	115.3	162.6	171.8	160.3	164.9	524.6	704.5	902.8	993.9
87.5°	26.5	20.8	27.7	38.0	43.8	36.9	32.3	61.1	94.5	125.7	148.7
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°	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2	4244.2
2.5°	4254.6	4248.9	4195.8	4118.6	4055.2	4002.1	3967.5	3944.5	3969.8	3923.7	3917.9
5°	4266.2	4227.0	4111.7	4001.0	3915.6	3801.5	3724.2	3672.4	3693.1	3652.8	3636.6
7.5°	4297.3	4225.8	4066.7	3890.3	3728.9	3606.6	3487.9	3373.7	3356.4	3331.1	3332.2
10°	4325.0	4222.3	4014.8	3784.2	3596.3	3380.6	3237.7	3120.1	3093.5	3063.6	3048.6
12.5°	4368.8	4230.4	3950.2	3671.2	3419.8	3170.8	3016.3	2877.9	2851.4	2792.6	2779.9
15°	4456.4	4259.2	3886.8	3531.7	3221.5	2970.2	2770.7	2649.6	2601.2	2535.5	2534.3
17.5°	4570.6	4343.4	3854.5	3400.2	3053.2	2771.8	2560.8	2438.6	2356.8	2317.6	2307.2
20°	4733.1	4452.9	3853.4	3281.5	2877.9	2559.7	2317.6	2179.2	2110.0	2077.7	2058.1
22.5°	4983.3	4614.4	3874.1	3198.5	2701.5	2354.5	2113.5	1923.2	1809.1	1720.3	1733.0
25°	5294.6	4856.5	3921.4	3122.4	2548.2	2158.4	1856.4	1592.3	1388.2	1299.4	1306.4
27.5°	5690.1	5145.9	4043.6	3045.1	2374.1	1947.4	1520.8	1185.3	1030.8	927.0	935.1
30°	6196.3	5505.6	4203.9	2985.2	2212.6	1652.3	1144.9	874.0	737.9	652.6	644.5
32.5°	6801.6	6026.8	4379.2	2944.8	2036.2	1283.3	825.6	641.1	508.5	460.1	467.0
35°	7551.1	6612.5	4646.7	2886.0	1734.1	913.2	589.2	433.5	365.5	356.3	357.4
37.5°	8234.8	7212.1	4911.8	2786.8	1368.6	649.1	400.1	329.8	314.8	311.3	315.9
40°	8904.7	7758.6	5151.7	2642.7	940.9	445.1	294.0	297.5	284.8	275.6	271.0
42.5°	9532.0	8285.6	5339.6	2377.5	643.4	294.0	260.6	271.0	268.7	250.2	242.1
45°	10208.8	8842.5	5443.4	2006.2	404.7	250.2	234.1	252.5	264.0	243.3	234.1
47.5°	10786.5	9385.5	5438.8	1537.0	274.4	236.4	220.2	236.4	250.2	235.2	227.1
50°	11452.9	9835.2	5291.2	975.5	243.3	219.1	211.0	216.8	235.2	224.8	216.8
52.5°	12193.1	10450.9	5067.5	544.2	230.6	207.5	196.0	202.9	219.1	206.4	211.0
55°	12806.5	10961.7	4541.7	371.3	224.8	193.7	186.8	191.4	198.3	185.6	192.6
57.5°	13354.2	11383.7	4010.2	304.4	216.8	184.5	183.3	174.1	173.0	164.9	158.0
60°	13908.8	11716.9	3293.0	275.6	208.7	185.6	166.0	153.4	143.0	134.9	131.4
62.5°	14334.3	11947.5	2604.7	249.1	197.2	174.1	152.2	131.4	114.1	103.8	103.8
65°	14458.8	11844.9	1833.3	226.0	184.5	163.7	136.1	107.2	86.5	79.6	76.1
67.5°	14059.9	11255.7	1276.4	208.7	171.8	152.2	119.9	87.6	69.2	60.0	57.7
70°	13044.1	10269.9	752.9	184.5	155.7	132.6	109.5	71.5	56.5	47.3	45.0
72.5°	11542.8	8791.7	469.3	156.8	133.7	108.4	81.9	58.8	45.0	36.9	35.7
75°	9534.3	6853.5	306.7	121.1	106.1	85.3	62.3	47.3	39.2	31.1	28.8
77.5°	7645.6	4848.4	274.4	92.2	78.4	61.1	47.3	39.2	32.3	27.7	27.7
80°	4399.9	2767.2	224.8	63.4	48.4	46.1	36.9	32.3	30.0	26.5	25.4
82.5°	2161.9	1329.4	145.3	39.2	27.7	30.0	31.1	28.8	25.4	23.1	23.1
85°	744.8	442.8	58.8	25.4	18.4	18.4	19.6	20.8	19.6	18.4	18.4
87.5°	115.3	84.2	16.1	15.0	11.5	10.4	11.5	12.7	12.7	11.5	11.5
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)