

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: P509980

Luminaire Tested: **VERD-M-CA3-180-730-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509980  
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-CA3-180-730-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22923 lumens  
Efficiency: N/A  
Efficacy: 125.2 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

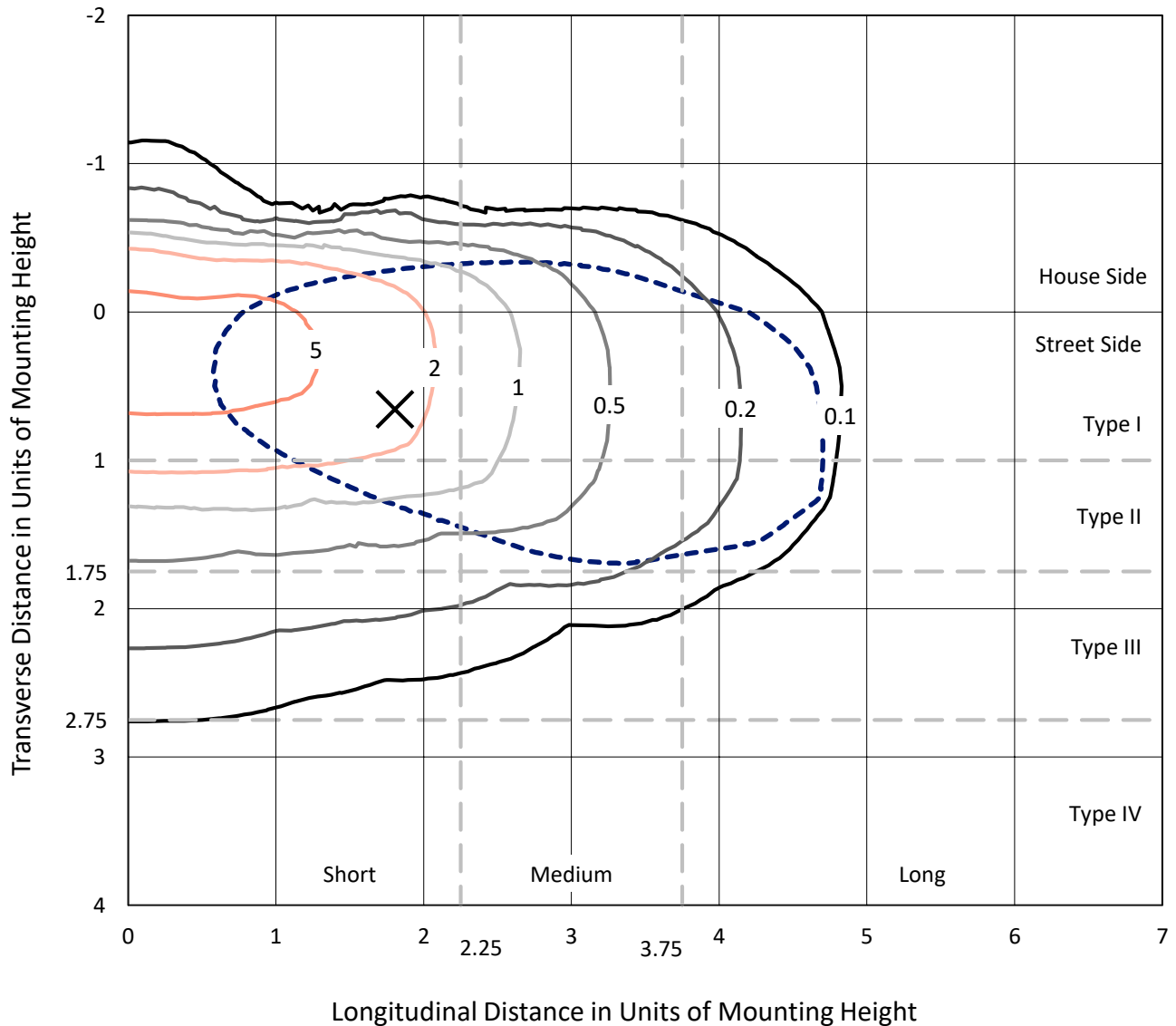
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

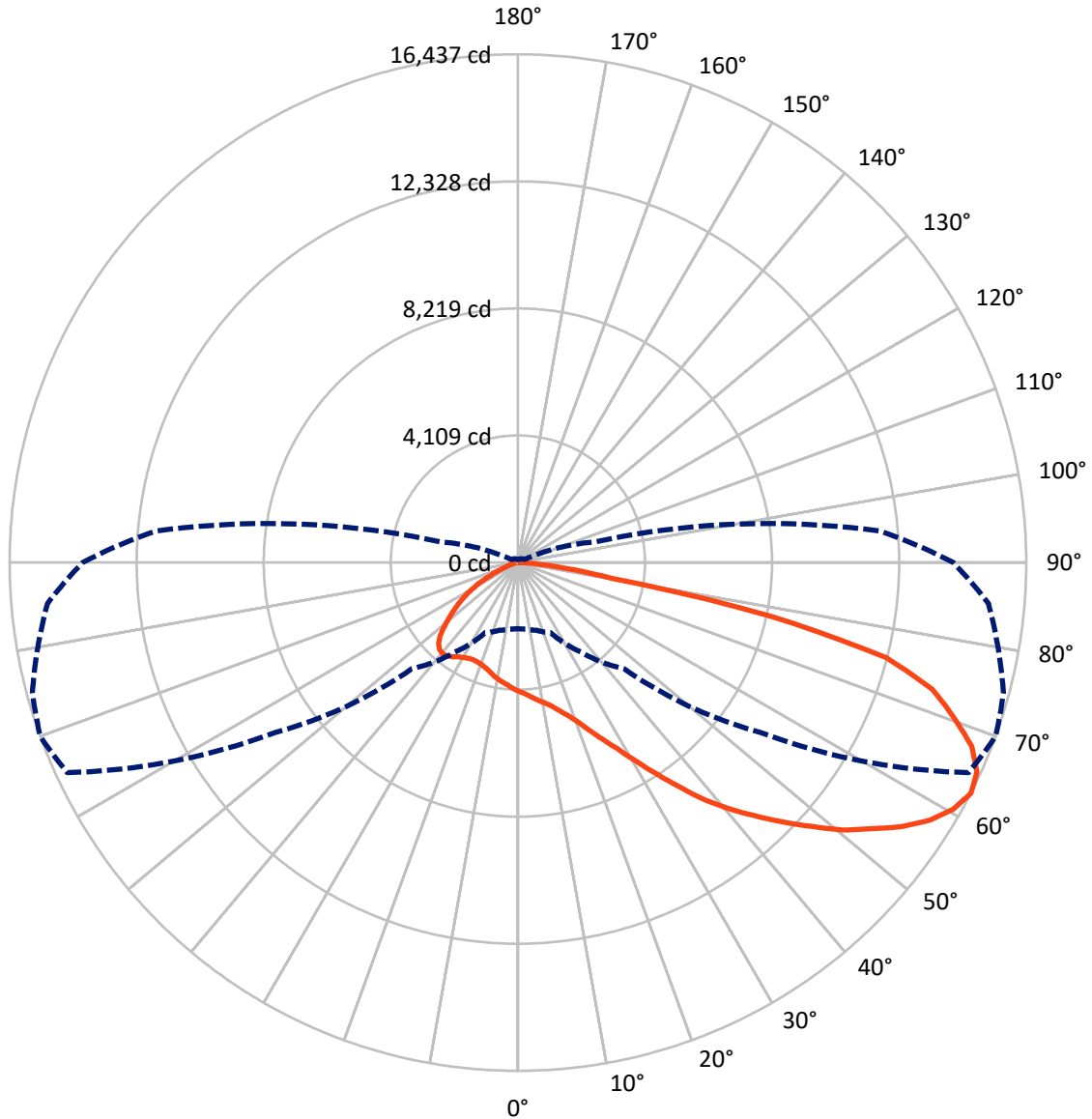
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	4820.5	0.0	4820.5
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	18102.5	0.0	18102.5
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	22923.0	0.0	22923.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.7	1.7
10°-20°	1180.8	5.2
20°-30°	2001.7	8.7
30°-40°	2943.7	12.8
40°-50°	3920.1	17.1
50°-60°	4585.7	20.0
60°-70°	4612.1	20.1
70°-80°	2919.5	12.7
80°-90°	363.8	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°	22923.0	100.0
0°-180°	22923.0	100.0

**Coefficient of Utilization**



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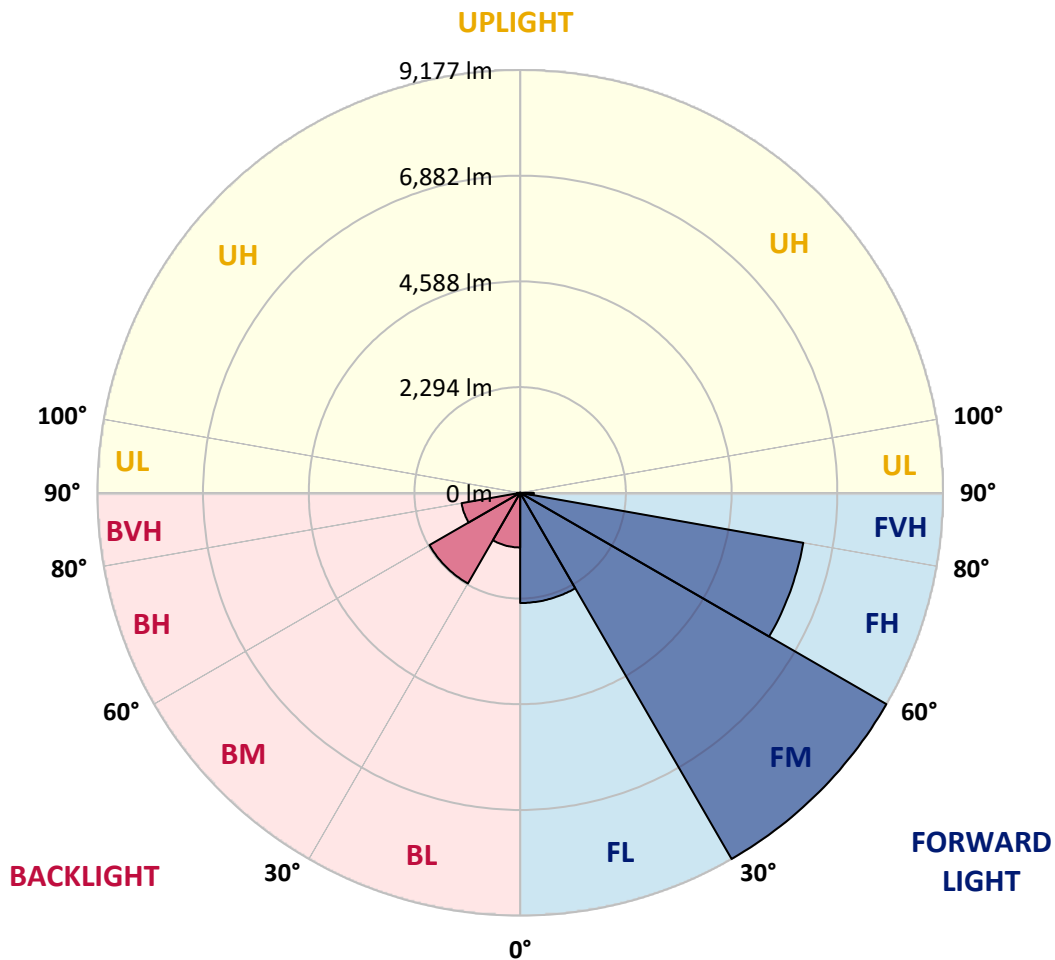
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2391.4	10.4			
FM (30°-60°)	9176.5	40.0			
FH (60°-80°)	6239.6	27.2			G3/7500
FVH (80°-90°)	295.0	1.3			G3/500
BL (0°-30°)	1186.8	5.2	B3/2500		
BM (30°-60°)	2272.9	9.9	B2/2500		
BH (60°-80°)	1292.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	68.8	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°	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3
2.5°	4396.0	4434.5	4405.1	4393.8	4402.8	4357.5	4321.3	4269.2	4244.3	4226.2	4196.8
5°	4619.1	4682.5	4644.0	4620.2	4616.8	4534.2	4485.5	4414.2	4358.7	4310.0	4235.3
7.5°	4854.5	4891.9	4877.2	4850.0	4831.9	4731.1	4645.1	4544.3	4483.2	4418.7	4293.0
10°	5060.6	5105.9	5091.2	5042.5	5025.5	4922.5	4824.0	4687.0	4603.2	4522.8	4349.6
12.5°	5273.4	5324.4	5293.8	5245.1	5230.4	5126.3	5024.4	4857.9	4753.8	4663.2	4423.2
15°	5469.3	5515.7	5494.2	5438.7	5424.0	5335.7	5223.6	5068.5	4955.3	4835.3	4527.4
17.5°	5625.5	5671.9	5644.8	5618.7	5614.2	5527.0	5460.2	5301.7	5194.2	5031.2	4687.0
20°	5739.9	5787.4	5773.8	5786.3	5833.8	5769.3	5728.5	5595.0	5485.1	5308.5	4916.8
22.5°	5830.4	5891.6	5945.9	5970.8	6059.1	6054.6	6045.5	5966.3	5880.3	5696.8	5190.8
25°	5839.5	5909.7	6017.2	6133.8	6294.6	6371.6	6428.2	6415.7	6315.0	6133.8	5570.1
27.5°	5853.1	5925.5	6036.5	6236.9	6524.4	6704.4	6798.4	6856.1	6797.3	6676.1	6001.4
30°	5823.6	5898.4	6037.6	6293.5	6681.8	7015.8	7183.3	7397.3	7404.1	7302.2	6652.4
32.5°	5690.1	5788.6	5957.2	6300.3	6834.6	7340.7	7598.8	8009.8	8099.2	8023.4	7323.7
35°	5467.0	5556.5	5797.6	6240.3	6927.5	7611.3	8083.4	8724.1	8856.6	8852.1	8113.9
37.5°	5220.2	5310.8	5582.5	6098.8	6987.5	7852.4	8510.2	9432.9	9696.6	9641.2	8860.0
40°	4947.4	5042.5	5356.1	5921.0	6958.0	8067.5	8961.9	10120.1	10447.2	10454.0	9573.2
42.5°	4630.4	4708.5	5023.2	5675.3	6860.7	8226.0	9381.9	10843.5	11187.7	11168.4	10245.7
45°	4327.0	4408.5	4683.6	5294.9	6635.4	8314.3	9794.0	11576.0	11953.0	11891.8	10992.9
47.5°	3960.2	4076.8	4390.4	4975.7	6287.8	8307.5	10154.0	12325.4	12748.9	12699.0	11638.2
50°	3047.7	3116.7	3826.6	4646.2	5816.9	8149.0	10506.1	13061.3	13596.8	13499.4	12326.6
52.5°	2745.4	2807.7	3036.4	4251.1	5388.9	7806.0	10799.3	13903.6	14304.4	14228.5	13029.6
55°	2594.8	2628.8	2768.0	3506.2	4971.2	7249.0	10995.2	14652.0	15068.6	14901.0	13687.4
57.5°	2405.8	2447.7	2609.5	2994.5	4457.2	6394.2	10949.9	15326.7	15711.6	15454.6	14267.0
60°	2260.9	2292.6	2444.3	2695.6	3926.2	5508.9	10486.9	15989.0	16182.6	15929.0	14844.4
62.5°	2138.6	2156.7	2263.1	2502.0	3522.0	4862.5	9583.4	16077.3	16437.3	16253.9	15274.6
65°	1986.9	1991.4	2117.1	2303.9	3148.4	4474.2	8807.9	15624.4	16310.5	16249.4	15429.7
67.5°	1809.1	1818.2	1945.0	2087.6	2699.0	4060.9	7599.9	15381.0	15818.0	15779.5	15122.9
70°	1586.1	1604.2	1720.8	1829.5	2285.8	3565.1	6048.9	14418.7	14937.2	14880.6	14111.9
72.5°	1371.0	1360.8	1469.5	1577.0	1904.2	2976.4	4585.1	12762.4	14011.2	13956.8	12798.7
75°	1126.5	1119.7	1231.8	1333.6	1561.2	2404.6	3225.4	9438.5	12310.7	12478.3	11035.9
77.5°	694.0	699.7	764.2	832.1	1057.4	1796.7	2058.2	5250.8	8363.0	9917.4	8660.7
80°	502.7	502.7	550.2	591.0	699.7	1094.8	1024.6	2189.5	3056.7	4786.6	5401.4
82.5°	326.1	312.5	341.9	377.0	389.5	474.4	468.7	1098.2	1557.8	1874.8	2249.5
85°	169.8	187.9	113.2	159.6	168.7	157.4	161.9	515.1	691.7	886.5	975.9
87.5°	26.0	20.4	27.2	37.4	43.0	36.2	31.7	60.0	92.8	123.4	146.0
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°	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3
2.5°	4177.5	4171.9	4119.8	4043.9	3981.7	3929.6	3895.6	3873.0	3897.9	3852.6	3847.0
5°	4188.9	4150.4	4037.2	3928.5	3844.7	3732.6	3656.8	3605.8	3626.2	3586.6	3570.7
7.5°	4219.4	4149.2	3993.0	3819.8	3661.3	3541.3	3424.7	3312.6	3295.6	3270.7	3271.8
10°	4246.6	4145.8	3942.1	3715.6	3531.1	3319.4	3179.0	3063.5	3037.5	3008.1	2993.3
12.5°	4289.6	4153.8	3878.7	3604.7	3357.9	3113.3	2961.6	2825.8	2799.7	2742.0	2729.6
15°	4375.7	4182.1	3816.4	3467.7	3163.2	2916.4	2720.5	2601.6	2554.1	2489.5	2488.4
17.5°	4487.7	4264.7	3784.7	3338.6	2997.9	2721.6	2514.4	2394.4	2314.1	2275.6	2265.4
20°	4647.4	4372.3	3783.6	3222.0	2825.8	2513.3	2275.6	2139.7	2071.8	2040.1	2020.8
22.5°	4893.0	4530.8	3803.9	3140.5	2652.6	2311.8	2075.2	1888.4	1776.3	1689.1	1701.6
25°	5198.7	4768.5	3850.4	3065.8	2502.0	2119.3	1822.7	1563.5	1363.1	1275.9	1282.7
27.5°	5587.0	5052.7	3970.4	2989.9	2331.0	1912.2	1493.3	1163.8	1012.1	910.2	918.2
30°	6084.0	5405.9	4127.7	2931.1	2172.5	1622.3	1124.2	858.2	724.6	640.8	632.9
32.5°	6678.4	5917.6	4299.8	2891.4	1999.3	1260.1	810.6	629.5	499.3	451.7	458.5
35°	7414.3	6492.7	4562.5	2833.7	1702.7	896.6	578.5	425.7	358.9	349.8	351.0
37.5°	8085.6	7081.4	4822.8	2736.3	1343.8	637.4	392.8	323.8	309.1	305.7	310.2
40°	8743.4	7618.1	5058.3	2594.8	923.8	437.0	288.7	292.1	279.6	270.6	266.0
42.5°	9359.3	8135.4	5242.9	2334.4	631.7	288.7	255.9	266.0	263.8	245.7	237.7
45°	10023.8	8682.3	5344.8	1969.9	397.4	245.7	229.8	247.9	259.3	238.9	229.8
47.5°	10591.0	9215.5	5340.2	1509.1	269.4	232.1	216.2	232.1	245.7	231.0	223.0
50°	11245.4	9657.0	5195.3	957.8	238.9	215.1	207.2	212.8	231.0	220.8	212.8
52.5°	11972.2	10261.6	4975.7	534.4	226.4	203.8	192.5	199.3	215.1	202.7	207.2
55°	12574.5	10763.1	4459.4	364.5	220.8	190.2	183.4	187.9	194.7	182.3	189.1
57.5°	13112.3	11177.5	3937.5	298.9	212.8	181.1	180.0	171.0	169.8	161.9	155.1
60°	13656.8	11504.6	3233.3	270.6	204.9	182.3	163.0	150.6	140.4	132.5	129.1
62.5°	14074.6	11731.1	2557.5	244.5	193.6	171.0	149.4	129.1	112.1	101.9	101.9
65°	14196.8	11630.3	1800.1	221.9	181.1	160.8	133.6	105.3	84.9	78.1	74.7
67.5°	13805.1	11051.8	1253.3	204.9	168.7	149.4	117.7	86.0	67.9	58.9	56.6
70°	12807.7	10083.8	739.3	181.1	152.8	130.2	107.6	70.2	55.5	46.4	44.2
72.5°	11333.7	8632.4	460.8	154.0	131.3	106.4	80.4	57.7	44.2	36.2	35.1
75°	9361.5	6729.3	301.1	118.9	104.2	83.8	61.1	46.4	38.5	30.6	28.3
77.5°	7507.1	4760.6	269.4	90.6	77.0	60.0	46.4	38.5	31.7	27.2	27.2
80°	4320.2	2717.1	220.8	62.3	47.5	45.3	36.2	31.7	29.4	26.0	24.9
82.5°	2122.7	1305.3	142.6	38.5	27.2	29.4	30.6	28.3	24.9	22.6	22.6
85°	731.4	434.7	57.7	24.9	18.1	18.1	19.2	20.4	19.2	18.1	18.1
87.5°	113.2	82.6	15.8	14.7	11.3	10.2	11.3	12.5	12.5	11.3	11.3
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)