

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: P509948

Luminaire Tested: **VERD-M-CA3-170-750-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509948  
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-CA3-170-750-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1060mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22765 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

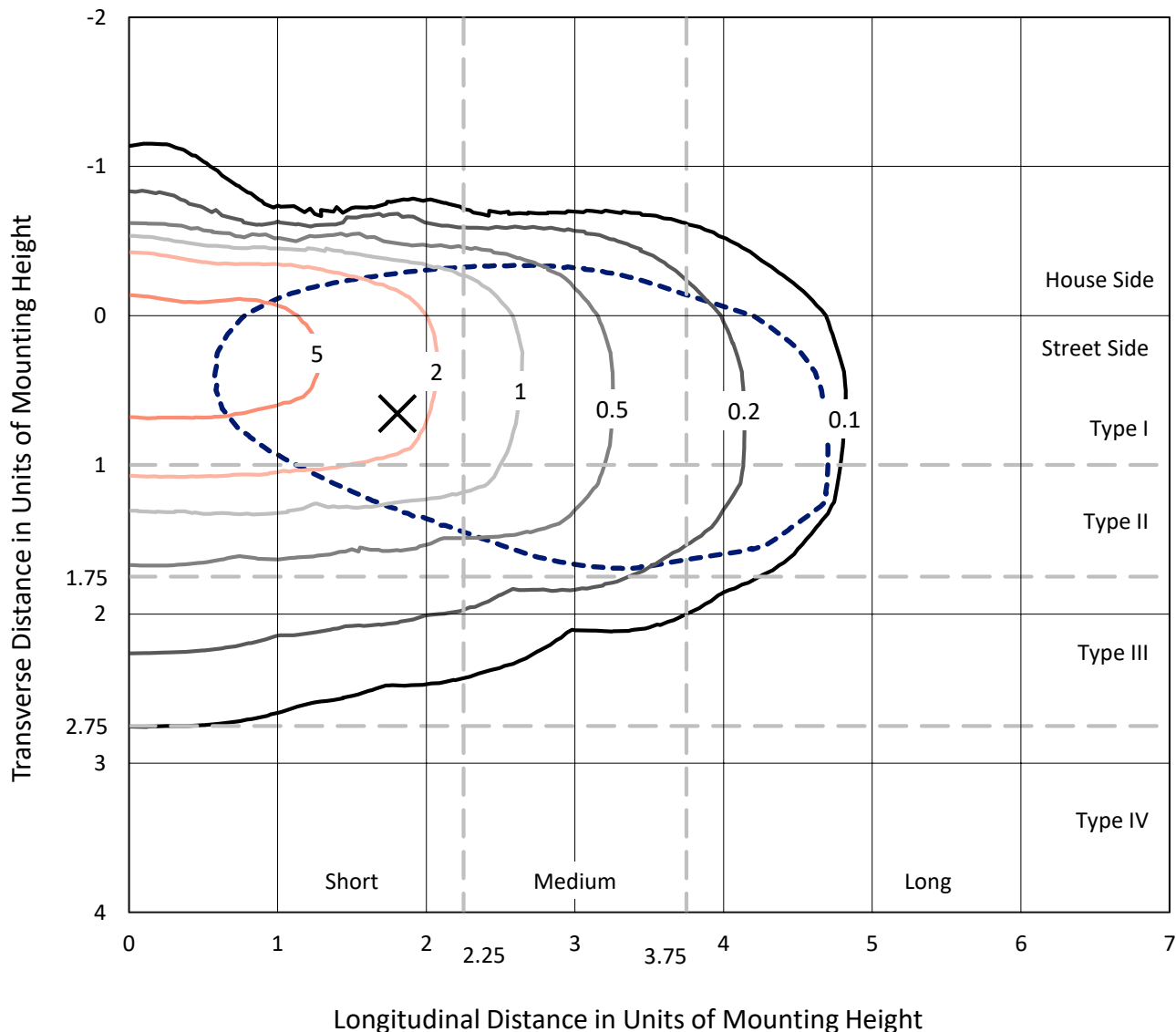
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

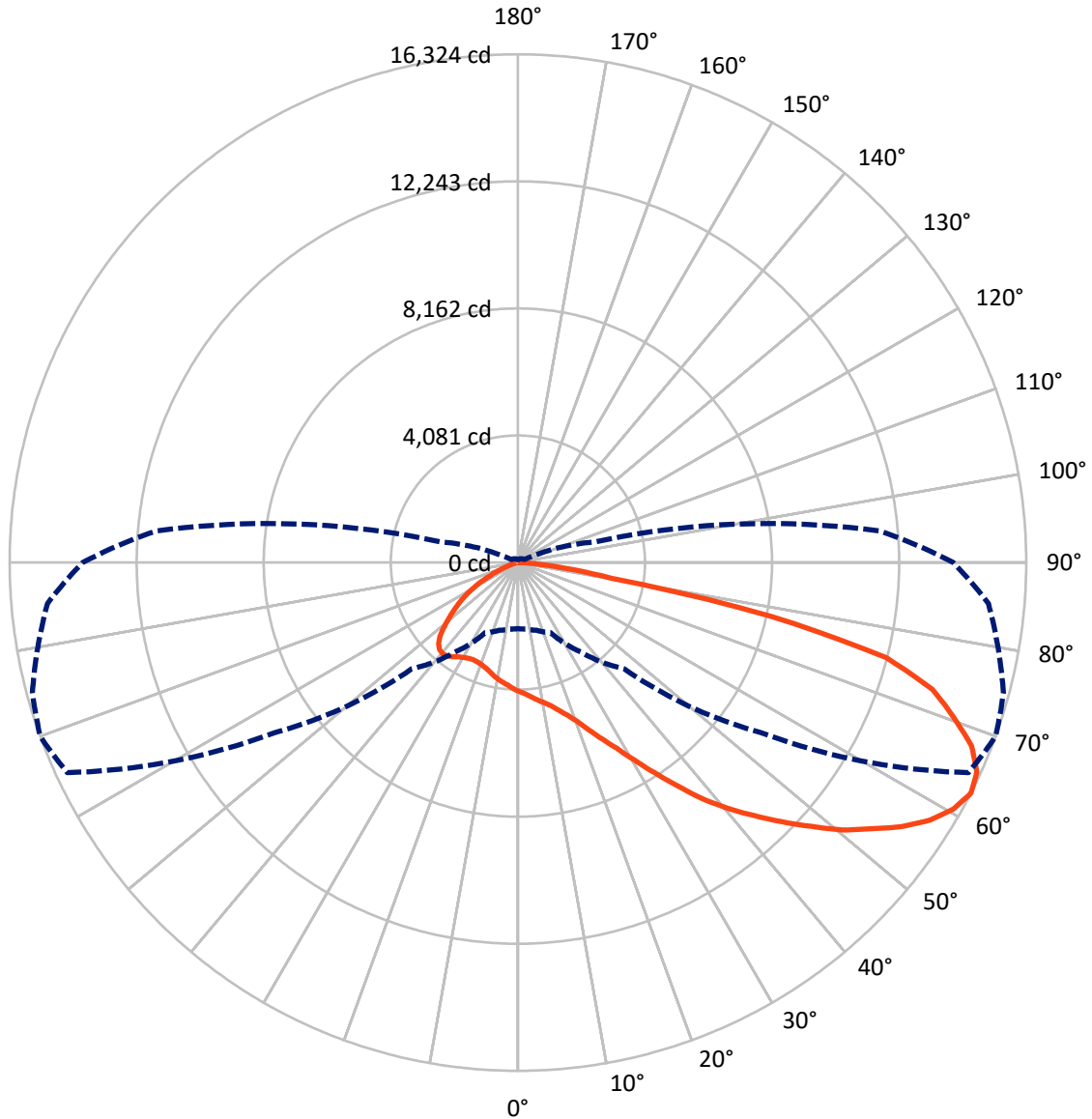
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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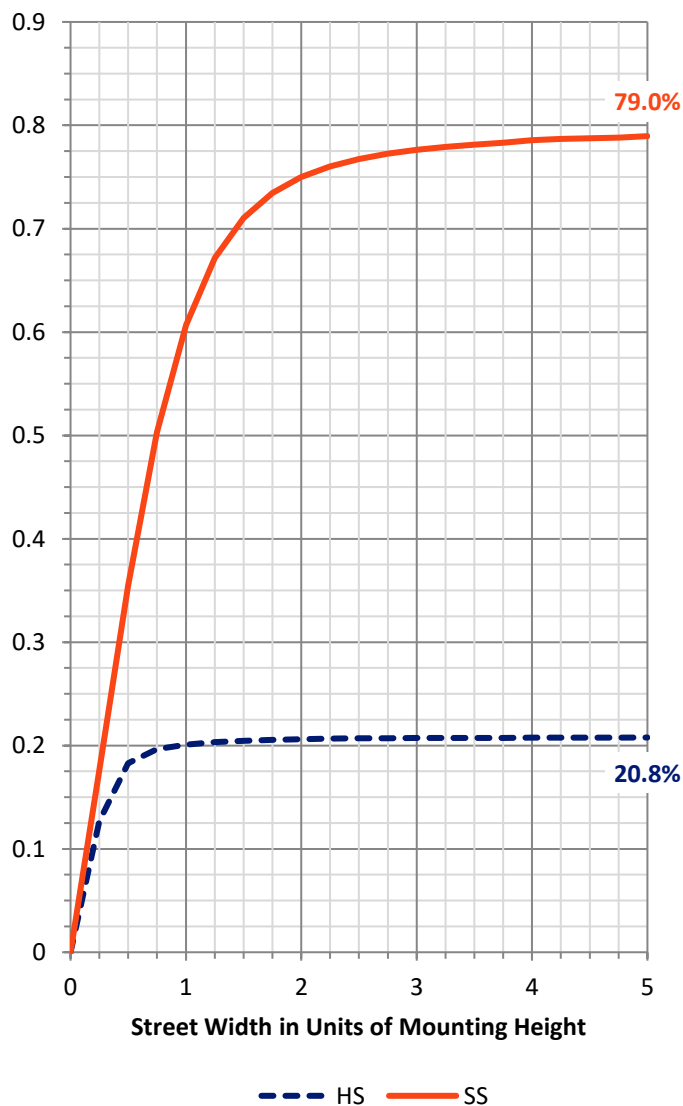
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4787.2	0.0	4787.2
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	17977.8	0.0	17977.8
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	22765.0	0.0	22765.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.9	1.7
10°-20°	1172.6	5.2
20°-30°	1987.9	8.7
30°-40°	2923.4	12.8
40°-50°	3893.0	17.1
50°-60°	4554.1	20.0
60°-70°	4580.3	20.1
70°-80°	2899.4	12.7
80°-90°	361.3	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°	22765.0	100.0
0°-180°	22765.0	100.0



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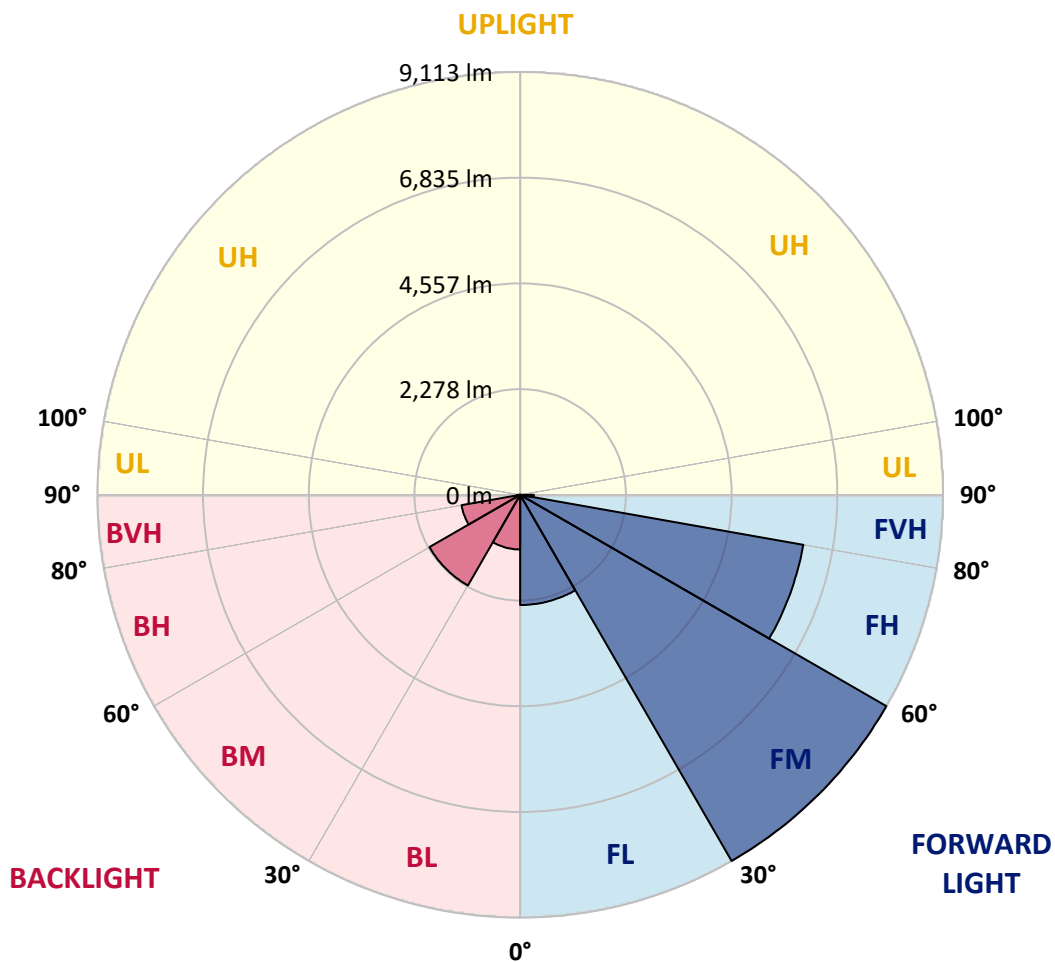
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2374.9	10.4			
FM (30°-60°)	9113.3	40.0			
FH (60°-80°)	6196.6	27.2			G3/7500
FVH (80°-90°)	293.0	1.3			G3/500
BL (0°-30°)	1178.6	5.2	B3/2500		
BM (30°-60°)	2257.3	9.9	B2/2500		
BH (60°-80°)	1283.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	68.3	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°	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6
2.5°	4365.7	4404.0	4374.7	4363.5	4372.5	4327.5	4291.5	4239.8	4215.1	4197.1	4167.9
5°	4587.2	4650.2	4612.0	4588.4	4585.0	4502.9	4454.6	4383.7	4328.6	4280.3	4206.1
7.5°	4821.1	4858.2	4843.6	4816.6	4798.6	4698.5	4613.1	4513.0	4452.3	4388.2	4263.4
10°	5025.7	5070.7	5056.1	5007.7	4990.9	4888.5	4790.7	4654.7	4571.5	4491.7	4319.6
12.5°	5237.1	5287.7	5257.3	5209.0	5194.4	5090.9	4989.7	4824.5	4721.0	4631.1	4392.7
15°	5431.6	5477.7	5456.3	5401.2	5386.6	5298.9	5187.6	5033.6	4921.2	4802.0	4496.2
17.5°	5586.8	5632.8	5605.9	5580.0	5575.5	5488.9	5422.6	5265.2	5158.4	4996.5	4654.7
20°	5700.3	5747.5	5734.0	5746.4	5793.6	5729.5	5689.1	5556.4	5447.3	5271.9	4882.9
22.5°	5790.3	5851.0	5904.9	5929.7	6017.4	6012.9	6003.9	5925.2	5839.7	5657.6	5155.0
25°	5799.2	5869.0	5975.8	6091.6	6251.2	6327.7	6383.9	6371.5	6271.5	6091.6	5531.7
27.5°	5812.7	5884.7	5994.9	6193.9	6479.5	6658.2	6751.5	6808.9	6750.4	6630.1	5960.0
30°	5783.5	5857.7	5996.0	6250.1	6635.7	6967.4	7133.8	7346.3	7353.1	7251.9	6606.5
32.5°	5650.8	5748.7	5916.2	6256.8	6787.5	7290.1	7546.4	7954.6	8043.4	7968.1	7273.2
35°	5429.3	5518.2	5757.6	6197.3	6879.7	7558.8	8027.7	8664.0	8795.6	8791.1	8058.0
37.5°	5184.2	5274.2	5544.0	6056.7	6939.3	7798.3	8451.5	9367.8	9629.8	9574.7	8798.9
40°	4913.3	5007.7	5319.2	5880.2	6910.1	8011.9	8900.1	10050.3	10375.2	10382.0	9507.3
42.5°	4598.5	4676.1	4988.6	5636.2	6813.4	8169.3	9317.2	10768.7	11110.5	11091.4	10175.1
45°	4297.2	4378.1	4651.3	5258.4	6589.6	8257.0	9726.5	11496.2	11870.6	11809.9	10917.2
47.5°	3932.9	4048.7	4360.1	4941.4	6244.5	8250.3	10084.0	12240.5	12661.0	12611.5	11558.0
50°	3026.7	3095.3	3800.2	4614.2	5776.8	8092.9	10433.7	12971.3	13503.1	13406.4	12241.6
52.5°	2726.5	2788.3	3015.4	4221.8	5351.8	7752.2	10724.9	13807.8	14205.8	14130.5	12939.8
55°	2576.9	2610.7	2749.0	3482.0	4936.9	7199.0	10919.4	14551.0	14964.7	14798.3	13593.0
57.5°	2389.2	2430.8	2591.6	2973.8	4426.5	6350.2	10874.4	15221.1	15603.3	15348.1	14168.7
60°	2245.3	2276.7	2427.4	2677.0	3899.1	5470.9	10414.6	15878.8	16071.0	15819.2	14742.1
62.5°	2123.8	2141.8	2247.5	2484.7	3497.8	4829.0	9517.4	15966.5	16324.0	16141.9	15169.3
65°	1973.2	1977.7	2102.5	2288.0	3126.7	4443.3	8747.2	15516.8	16198.1	16137.4	15323.4
67.5°	1796.7	1805.7	1931.6	2073.2	2680.4	4032.9	7547.6	15275.0	15709.0	15670.8	15018.7
70°	1575.2	1593.2	1709.0	1816.9	2270.0	3540.5	6007.2	14319.4	14834.3	14778.1	14014.7
72.5°	1361.6	1351.4	1459.4	1566.2	1891.1	2955.8	4553.5	12674.5	13914.6	13860.6	12710.4
75°	1118.7	1112.0	1223.3	1324.4	1550.4	2388.1	3203.2	9373.5	12225.9	12392.3	10959.9
77.5°	689.2	694.8	758.9	826.4	1050.1	1784.3	2044.0	5214.6	8305.4	9849.1	8601.1
80°	499.2	499.2	546.4	586.9	694.8	1087.2	1017.5	2174.4	3035.7	4753.6	5364.1
82.5°	323.8	310.3	339.5	374.4	386.8	471.1	465.5	1090.6	1547.1	1861.9	2234.0
85°	168.6	186.6	112.4	158.5	167.5	156.3	160.8	511.6	687.0	880.3	969.2
87.5°	25.9	20.2	27.0	37.1	42.7	36.0	31.5	59.6	92.2	122.6	145.0
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°	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6	4138.6
2.5°	4148.7	4143.1	4091.4	4016.1	3954.2	3902.5	3868.8	3846.3	3871.0	3826.1	3820.4
5°	4160.0	4121.8	4009.3	3901.4	3818.2	3706.9	3631.6	3581.0	3601.2	3561.8	3546.1
7.5°	4190.3	4120.6	3965.5	3793.5	3636.1	3516.9	3401.1	3289.8	3272.9	3248.2	3249.3
10°	4217.3	4117.3	3914.9	3690.0	3506.8	3296.5	3157.1	3042.4	3016.6	2987.3	2972.7
12.5°	4260.1	4125.1	3851.9	3579.8	3334.7	3091.9	2941.2	2806.3	2780.4	2723.1	2710.7
15°	4345.5	4153.2	3790.1	3443.8	3141.4	2896.3	2701.7	2583.7	2536.5	2472.4	2471.3
17.5°	4456.8	4235.3	3758.6	3315.6	2977.2	2702.9	2497.1	2377.9	2298.1	2259.9	2249.8
20°	4615.3	4342.1	3757.5	3199.8	2806.3	2496.0	2259.9	2125.0	2057.5	2026.0	2006.9
22.5°	4859.3	4499.5	3777.7	3118.9	2634.3	2295.9	2060.9	1875.4	1764.1	1677.5	1689.9
25°	5162.9	4735.6	3823.8	3044.7	2484.7	2104.7	1810.2	1552.7	1353.7	1267.1	1273.9
27.5°	5548.5	5017.8	3943.0	2969.3	2315.0	1899.0	1483.0	1155.8	1005.1	904.0	911.8
30°	6042.1	5368.6	4099.3	2910.9	2157.6	1611.2	1116.5	852.2	719.6	636.4	628.5
32.5°	6632.4	5876.8	4270.2	2871.5	1985.6	1251.4	805.0	625.1	495.8	448.6	455.3
35°	7363.2	6448.0	4531.0	2814.2	1691.0	890.5	574.5	422.7	356.4	347.4	348.5
37.5°	8029.9	7032.6	4789.6	2717.5	1334.6	633.0	390.1	321.6	306.9	303.6	308.1
40°	8683.1	7565.6	5023.5	2576.9	917.4	434.0	286.7	290.1	277.7	268.7	264.2
42.5°	9294.8	8079.4	5206.7	2318.3	627.4	286.7	254.1	264.2	262.0	244.0	236.1
45°	9954.7	8622.4	5307.9	1956.3	394.6	244.0	228.2	246.2	257.5	237.2	228.2
47.5°	10518.0	9152.0	5303.4	1498.7	267.6	230.5	214.7	230.5	244.0	229.4	221.5
50°	11167.9	9590.5	5159.5	951.2	237.2	213.6	205.8	211.4	229.4	219.2	211.4
52.5°	11889.7	10190.8	4941.4	530.7	224.9	202.4	191.1	197.9	213.6	201.3	205.8
55°	12487.8	10688.9	4428.7	362.0	219.2	188.9	182.1	186.6	193.4	181.0	187.8
57.5°	13021.9	11100.4	3910.4	296.8	211.4	179.9	178.8	169.8	168.6	160.8	154.0
60°	13562.7	11425.3	3211.1	268.7	203.5	181.0	161.9	149.5	139.4	131.5	128.2
62.5°	13977.6	11650.2	2539.8	242.9	192.3	169.8	148.4	128.2	111.3	101.2	101.2
65°	14099.0	11550.1	1787.7	220.4	179.9	159.7	132.7	104.6	84.3	77.6	74.2
67.5°	13710.0	10975.6	1244.6	203.5	167.5	148.4	116.9	85.4	67.5	58.5	56.2
70°	12719.4	10014.3	734.2	179.9	151.8	129.3	106.8	69.7	55.1	46.1	43.8
72.5°	11255.6	8572.9	457.6	152.9	130.4	105.7	79.8	57.3	43.8	36.0	34.9
75°	9297.0	6683.0	299.1	118.1	103.4	83.2	60.7	46.1	38.2	30.4	28.1
77.5°	7455.4	4727.8	267.6	89.9	76.5	59.6	46.1	38.2	31.5	27.0	27.0
80°	4290.4	2698.4	219.2	61.8	47.2	45.0	36.0	31.5	29.2	25.9	24.7
82.5°	2108.1	1296.3	141.7	38.2	27.0	29.2	30.4	28.1	24.7	22.5	22.5
85°	726.3	431.7	57.3	24.7	18.0	18.0	19.1	20.2	19.1	18.0	18.0
87.5°	112.4	82.1	15.7	14.6	11.2	10.1	11.2	12.4	12.4	11.2	11.2
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)