

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: P510052

Luminaire Tested: **VERD-M-CA4-190-760-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510052  
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-CA4-190-760-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 870mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25215 lumens  
Efficiency: N/A  
Efficacy: 130.6 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

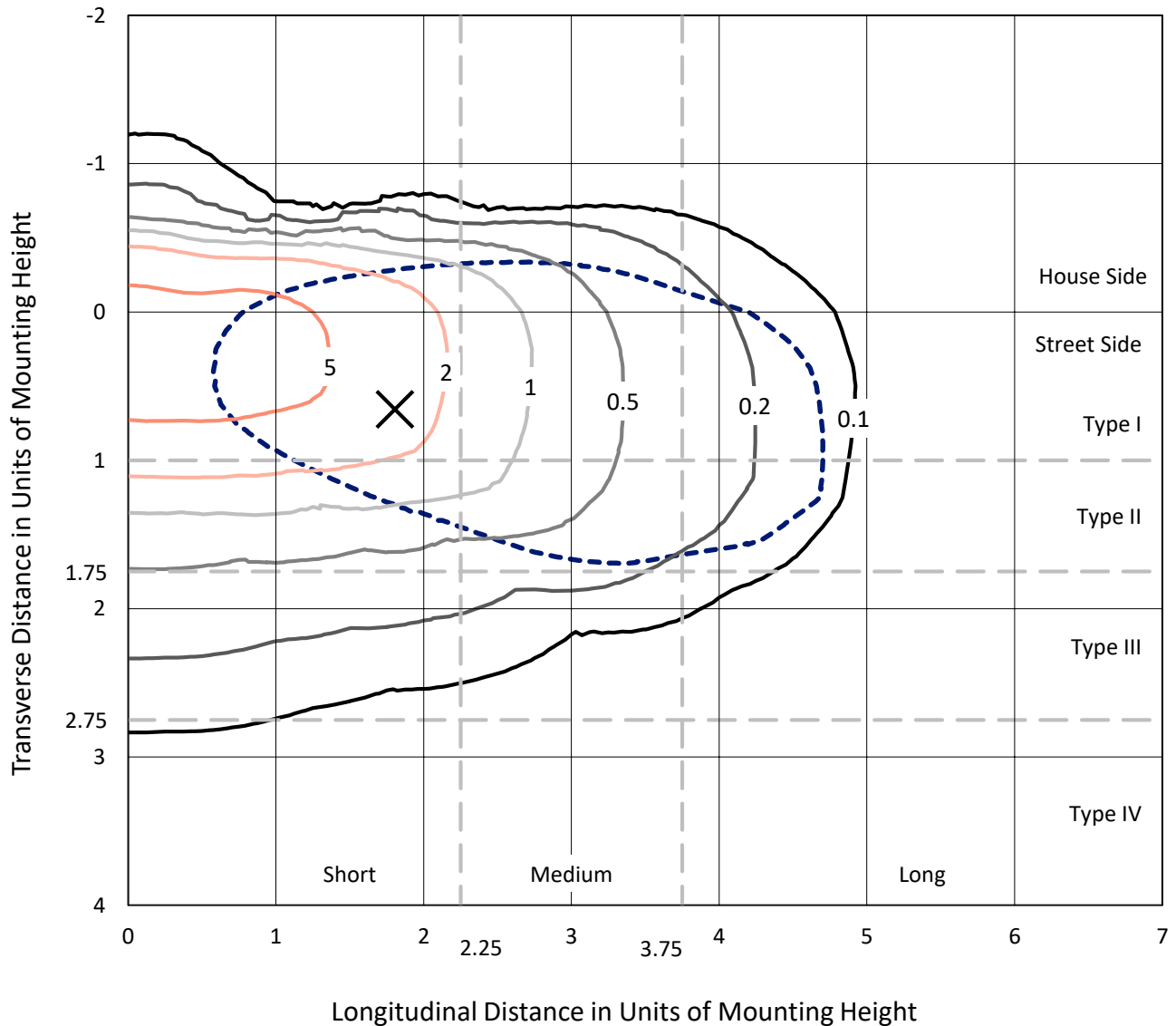
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

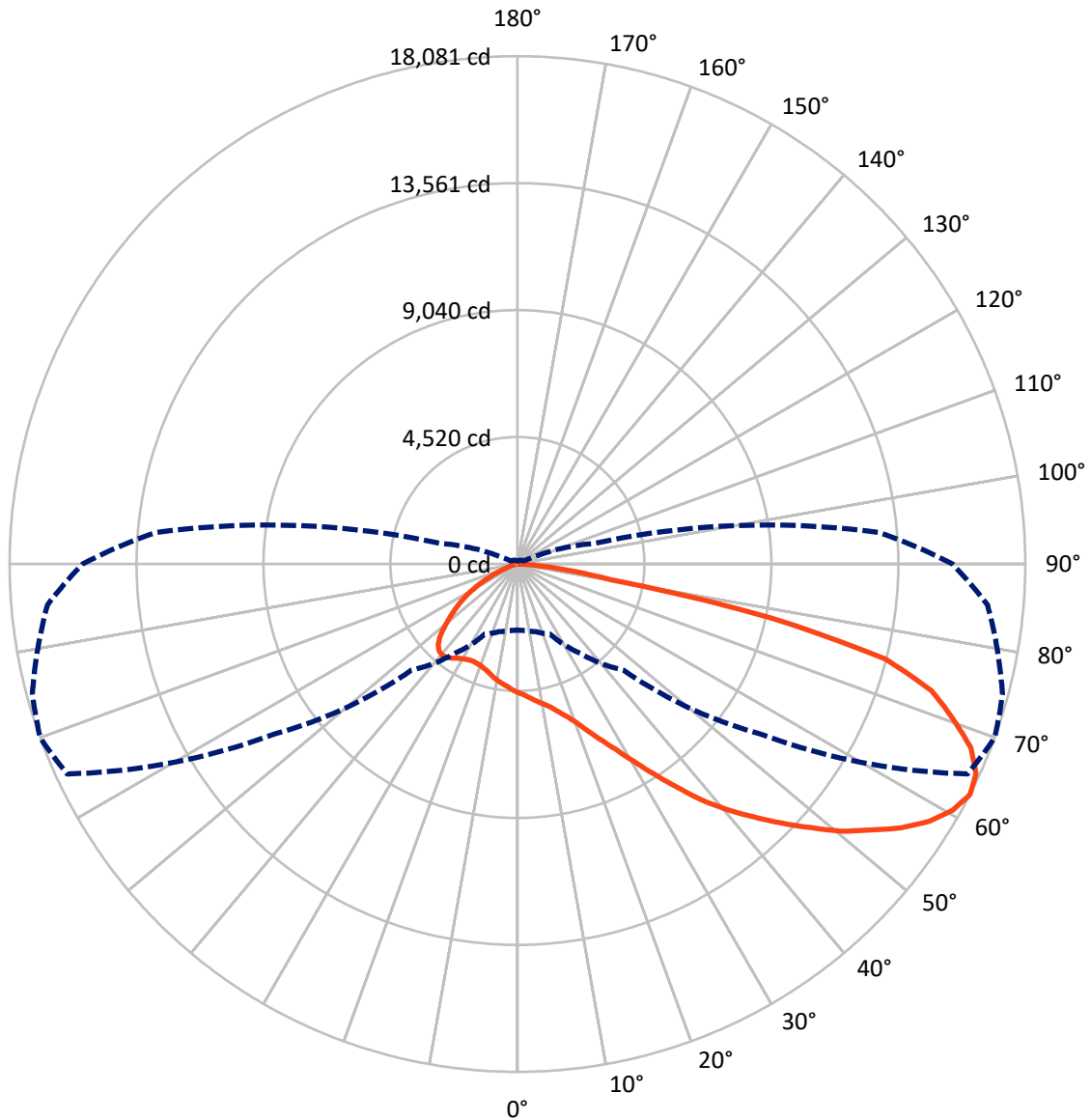
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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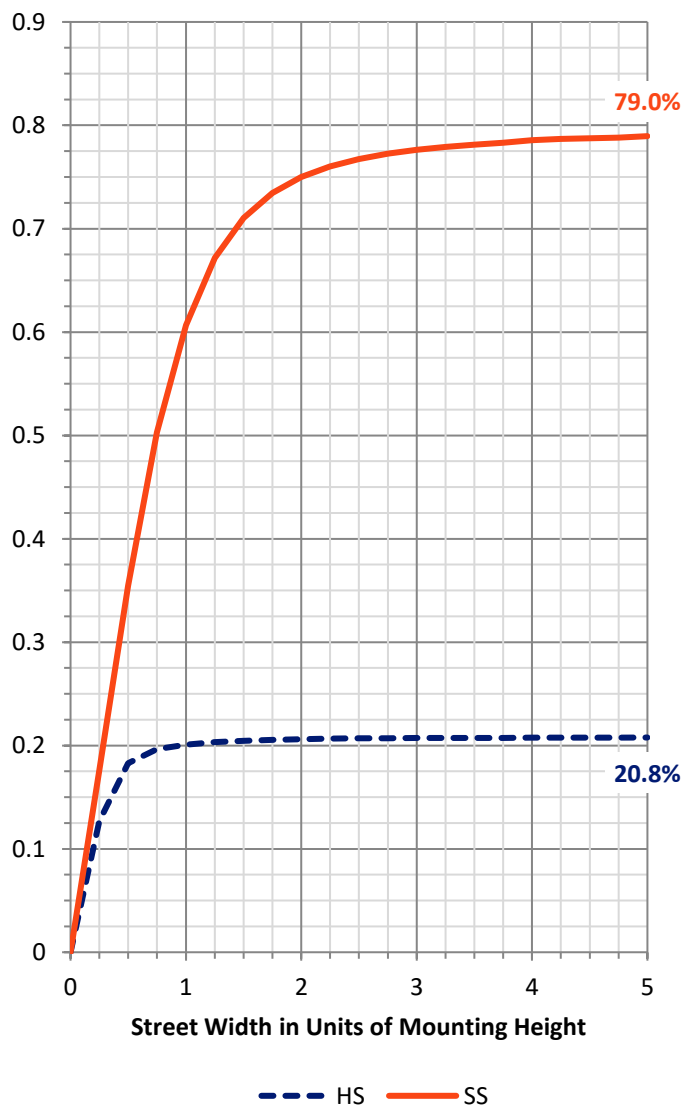
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5302.5	0.0	5302.5
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	19912.5	0.0	19912.5
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	25215.0	0.0	25215.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.2	1.7
10°-20°	1298.8	5.2
20°-30°	2201.9	8.7
30°-40°	3238.0	12.8
40°-50°	4312.0	17.1
50°-60°	5044.2	20.0
60°-70°	5073.2	20.1
70°-80°	3211.5	12.7
80°-90°	400.2	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°	25215.0	100.0
0°-180°	25215.0	100.0

**Coefficient of Utilization**



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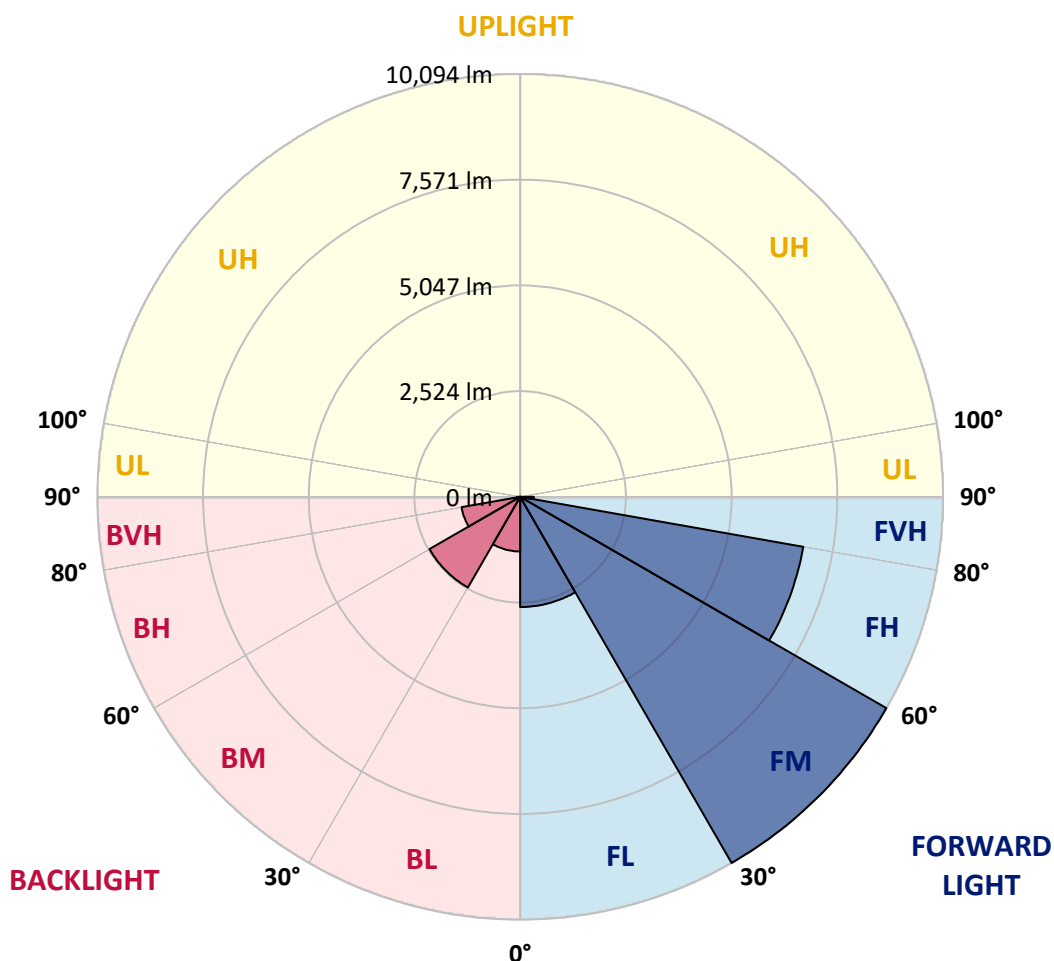
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2630.5	10.4			
FM (30°-60°)	10094.0	40.0			
FH (60°-80°)	6863.5	27.2			G3/7500
FVH (80°-90°)	324.5	1.3			G3/500
BL (0°-30°)	1305.5	5.2	B3/2500		
BM (30°-60°)	2500.2	9.9	B3/5000		
BH (60°-80°)	1421.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	75.7	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0
2.5°	4835.6	4877.9	4845.5	4833.1	4843.1	4793.2	4753.4	4696.1	4668.7	4648.8	4616.4
5°	5080.9	5150.7	5108.3	5082.2	5078.4	4987.5	4934.0	4855.5	4794.5	4740.9	4658.7
7.5°	5339.9	5381.0	5364.8	5335.0	5315.0	5204.2	5109.6	4998.7	4931.5	4860.5	4722.3
10°	5566.6	5616.4	5600.2	5546.7	5528.0	5414.7	5306.3	5155.6	5063.5	4975.1	4784.5
12.5°	5800.7	5856.7	5823.1	5769.6	5753.4	5638.8	5526.7	5343.7	5229.1	5129.5	4865.5
15°	6016.1	6067.2	6043.5	5982.5	5966.3	5869.2	5745.9	5575.3	5450.8	5318.8	4980.0
17.5°	6188.0	6239.1	6209.2	6180.5	6175.6	6079.7	6006.2	5831.8	5713.5	5534.2	5155.6
20°	6313.8	6366.1	6351.1	6364.8	6417.1	6346.2	6301.3	6154.4	6033.6	5839.3	5408.4
22.5°	6413.4	6480.7	6540.4	6567.8	6665.0	6660.0	6650.0	6562.8	6468.2	6266.5	5709.8
25°	6423.4	6500.6	6618.9	6747.2	6924.0	7008.7	7070.9	7057.2	6946.4	6747.2	6127.0
27.5°	6438.3	6518.0	6640.1	6860.5	7176.8	7374.8	7478.2	7541.7	7476.9	7343.7	6601.5
30°	6405.9	6488.1	6641.3	6922.7	7349.9	7717.3	7901.6	8136.9	8144.4	8032.3	7317.5
32.5°	6259.0	6367.3	6552.9	6930.2	7518.0	8074.7	8358.6	8810.7	8909.0	8825.6	8056.0
35°	6013.7	6112.0	6377.3	6864.2	7620.1	8372.3	8891.6	9596.4	9742.2	9737.2	8925.2
37.5°	5742.2	5841.8	6140.7	6708.5	7686.1	8637.6	9361.1	10376.0	10666.2	10605.2	9745.9
40°	5442.1	5546.7	5891.6	6513.0	7653.7	8874.2	9858.0	11131.9	11491.8	11499.3	10530.4
42.5°	5093.4	5179.3	5525.5	6242.8	7546.6	9048.5	10320.0	11927.7	12306.3	12285.1	11270.2
45°	4759.6	4849.3	5151.9	5824.4	7298.8	9145.6	10773.3	12733.4	13148.1	13080.9	12092.1
47.5°	4356.1	4484.4	4829.4	5473.2	6916.5	9138.2	11169.3	13557.8	14023.6	13968.8	12801.9
50°	3352.4	3428.4	4209.2	5110.8	6398.5	8963.8	11556.6	14367.3	14956.3	14849.2	13559.1
52.5°	3019.9	3088.4	3340.0	4676.2	5927.7	8586.5	11879.1	15293.8	15734.6	15651.2	14332.4
55°	2854.3	2891.6	3044.8	3856.8	5468.2	7973.8	12094.6	16117.0	16575.2	16390.9	15055.9
57.5°	2646.3	2692.4	2870.5	3293.9	4902.8	7033.6	12044.8	16859.2	17282.6	16999.9	15693.5
60°	2486.9	2521.8	2688.6	2965.1	4318.8	6059.7	11535.4	17587.7	17800.6	17521.7	16328.7
62.5°	2352.4	2372.3	2489.4	2752.2	3874.2	5348.7	10541.6	17684.8	18080.8	17879.1	16801.9
65°	2185.5	2190.5	2328.8	2534.2	3463.2	4921.5	9688.6	17186.7	17941.4	17874.1	16972.5
67.5°	1990.0	2000.0	2139.5	2296.4	2968.8	4467.0	8359.8	16918.9	17399.6	17357.3	16635.0
70°	1744.7	1764.6	1892.9	2012.4	2514.3	3921.5	6653.8	15860.4	16430.8	16368.5	15522.9
72.5°	1508.1	1496.9	1616.4	1734.7	2094.6	3274.0	5043.6	14038.5	15412.1	15352.3	14078.4
75°	1239.1	1231.6	1354.9	1467.0	1717.3	2645.1	3547.9	10382.2	13541.6	13725.9	12139.4
77.5°	763.4	769.6	840.6	915.3	1163.1	1976.3	2264.0	5775.8	9199.2	10909.0	9526.7
80°	552.9	552.9	605.2	650.1	769.6	1204.2	1127.0	2408.5	3362.4	5265.2	5941.4
82.5°	358.7	343.7	376.1	414.7	428.4	521.8	515.6	1208.0	1713.6	2062.3	2474.5
85°	186.8	206.7	124.5	175.6	185.6	173.1	178.1	566.6	760.9	975.1	1073.5
87.5°	28.6	22.4	29.9	41.1	47.3	39.9	34.9	66.0	102.1	135.7	160.6
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°	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0	4584.0
2.5°	4595.2	4589.0	4531.7	4448.3	4379.8	4322.5	4285.2	4260.2	4287.6	4237.8	4231.6
5°	4607.7	4565.3	4440.8	4321.3	4229.1	4105.8	4022.4	3966.3	3988.8	3945.2	3927.7
7.5°	4641.3	4564.1	4392.2	4201.7	4027.4	3895.4	3767.1	3643.8	3625.1	3597.7	3599.0
10°	4671.2	4560.4	4336.2	4087.1	3884.2	3651.3	3496.9	3369.8	3341.2	3308.8	3292.6
12.5°	4718.5	4569.1	4266.5	3965.1	3693.6	3424.6	3257.8	3108.3	3079.7	3016.2	3002.5
15°	4813.2	4600.2	4198.0	3814.4	3479.4	3207.9	2992.5	2861.7	2809.4	2738.5	2737.2
17.5°	4936.5	4691.1	4163.1	3672.5	3297.6	2993.8	2765.9	2633.9	2545.4	2503.1	2491.9
20°	5112.0	4809.4	4161.9	3544.2	3108.3	2764.6	2503.1	2353.7	2278.9	2244.1	2222.9
22.5°	5382.3	4983.8	4184.3	3454.5	2917.8	2542.9	2282.7	2077.2	1953.9	1858.0	1871.7
25°	5718.5	5245.3	4235.3	3372.3	2752.2	2331.2	2005.0	1719.8	1499.4	1403.5	1410.9
27.5°	6145.7	5557.9	4367.3	3288.9	2564.1	2103.3	1642.6	1280.2	1113.3	1001.2	1010.0
30°	6692.4	5946.4	4540.4	3224.1	2389.8	1784.5	1236.6	944.0	797.0	704.9	696.1
32.5°	7346.2	6509.3	4729.7	3180.6	2199.2	1386.0	891.7	692.4	549.2	496.9	504.4
35°	8155.6	7141.9	5018.6	3117.0	1873.0	986.3	636.4	468.2	394.8	384.8	386.0
37.5°	8894.1	7789.5	5305.1	3009.9	1478.2	701.1	432.1	356.2	340.0	336.2	341.2
40°	9617.6	8379.8	5564.1	2854.3	1016.2	480.7	317.6	321.3	307.6	297.6	292.7
42.5°	10295.1	8948.9	5767.1	2567.9	694.9	317.6	281.4	292.7	290.2	270.2	261.5
45°	11026.1	9550.4	5879.2	2166.9	437.1	270.2	252.8	272.7	285.2	262.8	252.8
47.5°	11650.0	10136.9	5874.2	1660.0	296.4	255.3	237.9	255.3	270.2	254.0	245.3
50°	12369.8	10622.6	5714.8	1053.5	262.8	236.6	227.9	234.1	254.0	242.8	234.1
52.5°	13169.3	11287.6	5473.2	587.8	249.1	224.2	211.7	219.2	236.6	222.9	227.9
55°	13831.8	11839.3	4905.3	401.0	242.8	209.2	201.7	206.7	214.2	200.5	208.0
57.5°	14423.3	12295.1	4331.2	328.8	234.1	199.3	198.0	188.0	186.8	178.1	170.6
60°	15022.3	12655.0	3556.6	297.6	225.4	200.5	179.3	165.6	154.4	145.7	142.0
62.5°	15481.8	12904.0	2813.2	269.0	213.0	188.0	164.4	142.0	123.3	112.1	112.1
65°	15616.3	12793.2	1980.1	244.1	199.3	176.8	146.9	115.8	93.4	85.9	82.2
67.5°	15185.5	12156.8	1378.6	225.4	185.6	164.4	129.5	94.6	74.7	64.8	62.3
70°	14088.3	11092.1	813.2	199.3	168.1	143.2	118.3	77.2	61.0	51.1	48.6
72.5°	12466.9	9495.6	506.8	169.4	144.5	117.1	88.4	63.5	48.6	39.9	38.6
75°	10297.6	7402.2	331.3	130.8	114.6	92.2	67.2	51.1	42.3	33.6	31.1
77.5°	8257.7	5236.6	296.4	99.6	84.7	66.0	51.1	42.3	34.9	29.9	29.9
80°	4752.1	2988.8	242.8	68.5	52.3	49.8	39.9	34.9	32.4	28.6	27.4
82.5°	2335.0	1435.9	156.9	42.3	29.9	32.4	33.6	31.1	27.4	24.9	24.9
85°	804.5	478.2	63.5	27.4	19.9	19.9	21.2	22.4	21.2	19.9	19.9
87.5°	124.5	90.9	17.4	16.2	12.5	11.2	12.5	13.7	13.7	12.5	12.5
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)