

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: P509961

Luminaire Tested: **VERD-M-CA3-170-760-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509961  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-170-760-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1060mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24315 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

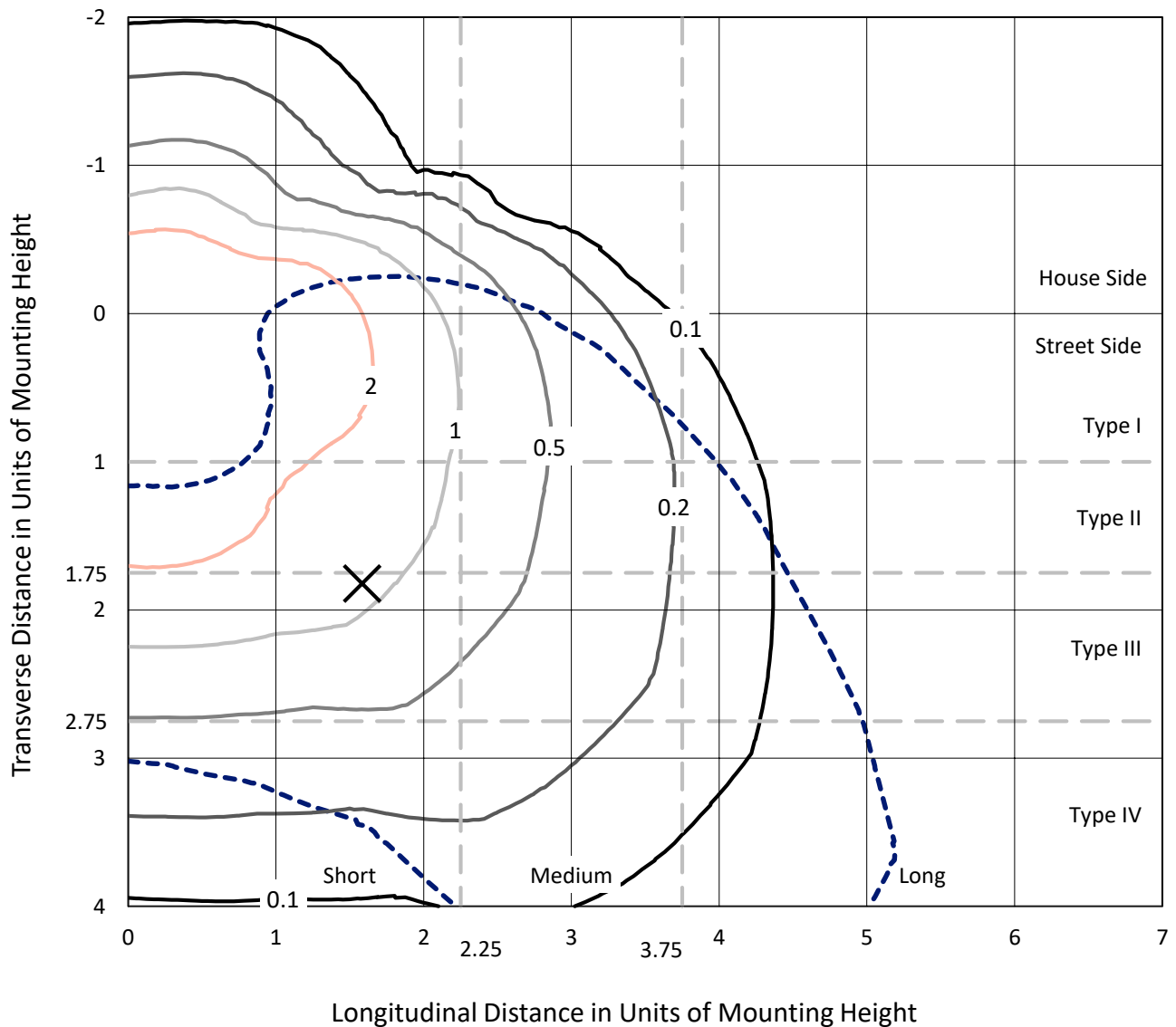
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

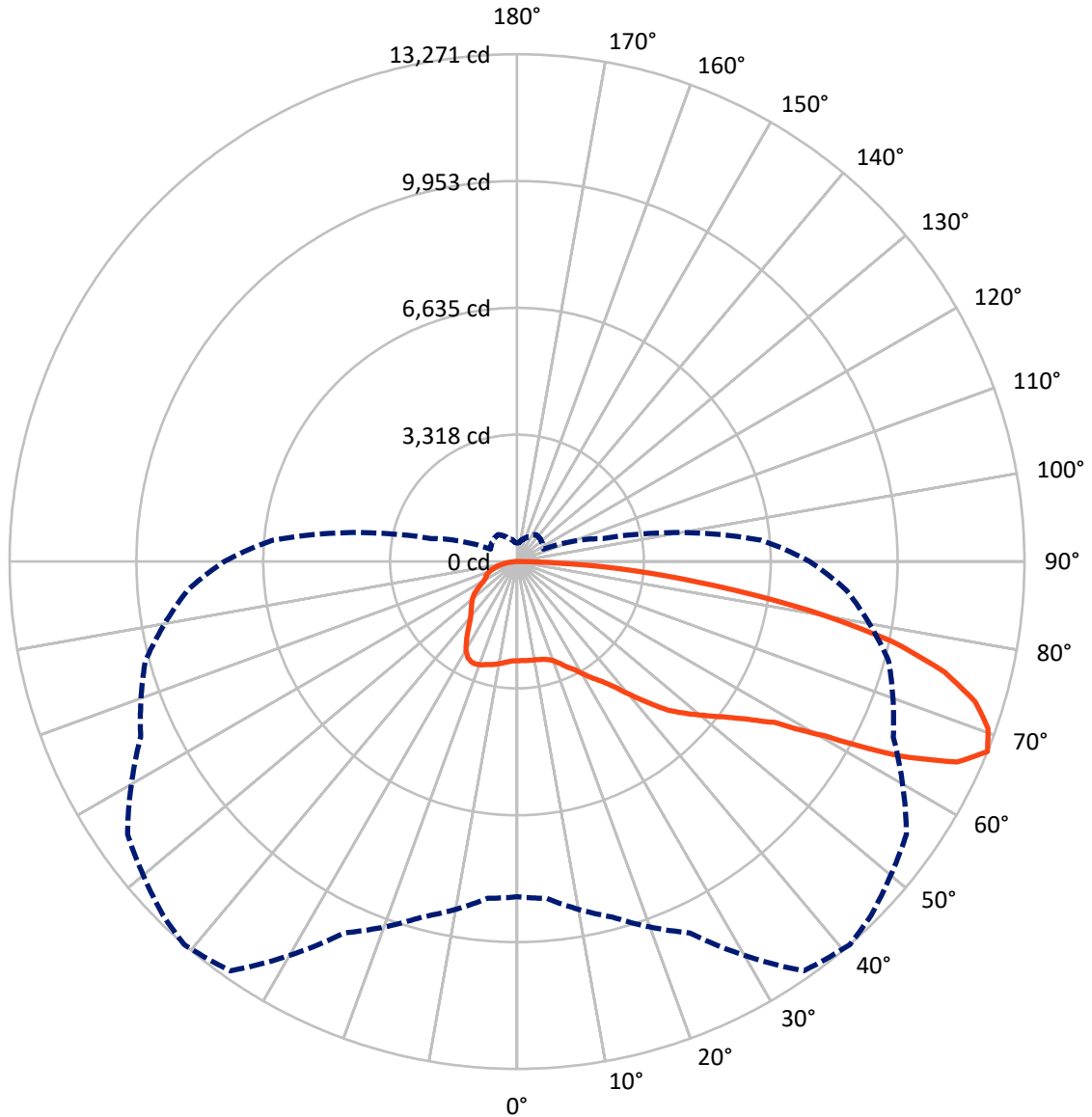
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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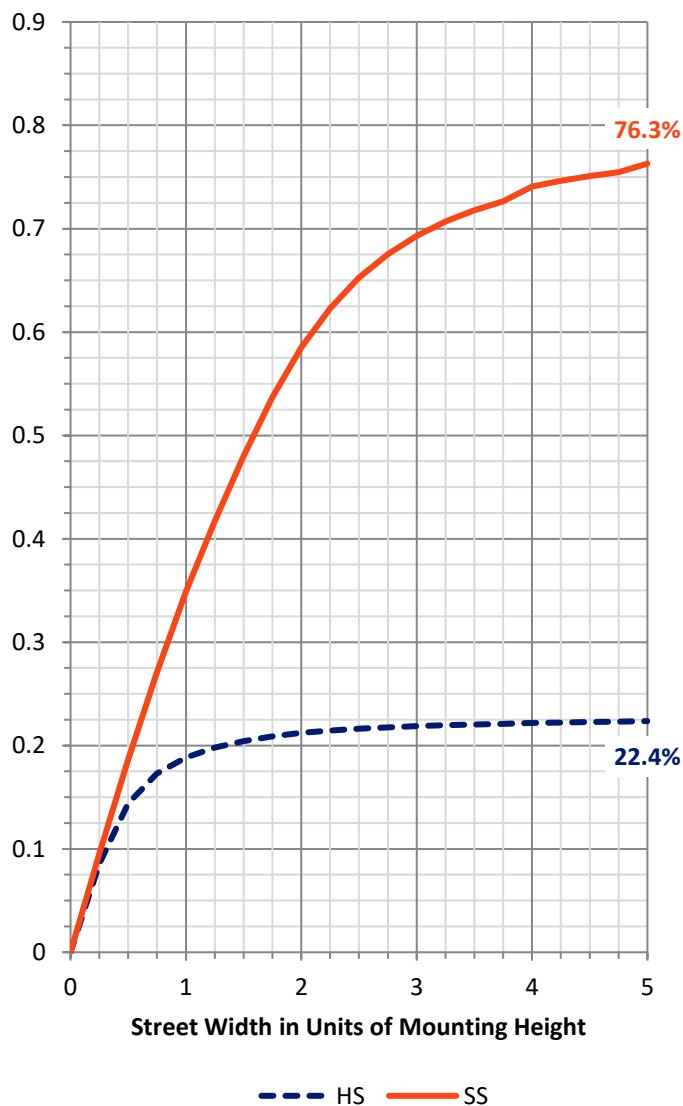
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5502.4	0.0	5502.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	18812.6	0.0	18812.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	24315.0	0.0	24315.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.9	1.0
10°-20°	778.0	3.2
20°-30°	1391.3	5.7
30°-40°	2181.6	9.0
40°-50°	3383.0	13.9
50°-60°	4769.2	19.6
60°-70°	6079.6	25.0
70°-80°	4549.6	18.7
80°-90°	931.8	3.8
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°	24315.0	100.0
0°-180°	24315.0	100.0

**Coefficient of Utilization**



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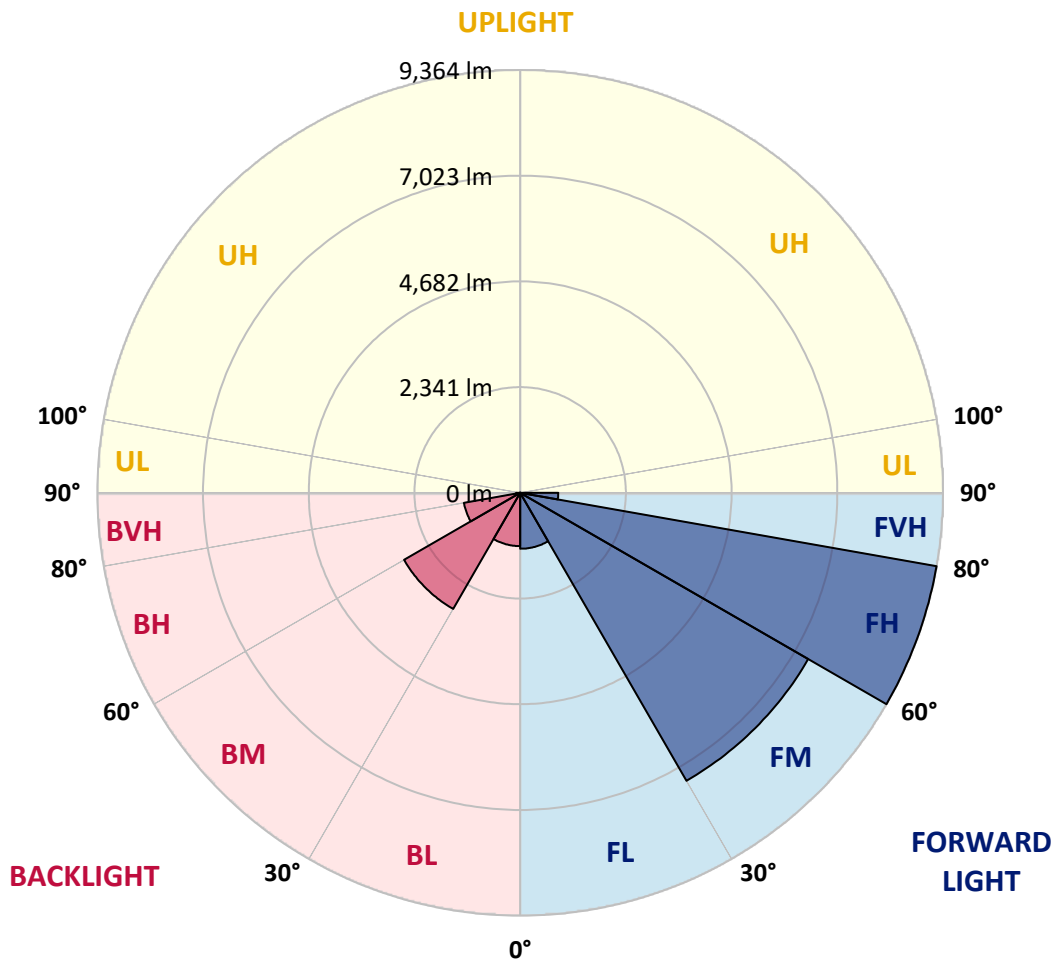
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1238.9	5.1			
FM	(30°-60°)	7364.8	30.3			
FH	(60°-80°)	9364.2	38.5			G4/12000
FVH	(80°-90°)	844.8	3.5			G5
BL	(0°-30°)	1181.3	4.9	B3/2500		
BM	(30°-60°)	2969.0	12.2	B3/5000		
BH	(60°-80°)	1265.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	87.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0
2.5°	2564.1	2593.8	2589.4	2583.9	2592.7	2593.8	2568.5	2578.4	2583.9	2592.7	2607.1
5°	2570.7	2600.4	2598.2	2588.3	2594.9	2598.2	2575.1	2592.7	2592.7	2596.0	2612.6
7.5°	2556.4	2585.0	2585.0	2581.7	2596.0	2609.3	2588.3	2603.7	2612.6	2621.4	2632.4
10°	2543.2	2567.4	2576.2	2574.0	2607.1	2610.4	2596.0	2633.5	2647.8	2656.6	2669.8
12.5°	2528.9	2558.6	2570.7	2582.8	2618.1	2630.2	2622.5	2661.0	2690.7	2706.1	2720.4
15°	2522.3	2555.3	2575.1	2592.7	2631.3	2653.3	2653.3	2711.6	2746.8	2766.6	2791.9
17.5°	2568.5	2602.6	2618.1	2632.4	2667.6	2697.3	2695.1	2763.3	2815.0	2845.9	2892.1
20°	2683.0	2723.7	2732.5	2738.0	2760.0	2771.0	2767.7	2841.5	2913.0	2971.3	3023.0
22.5°	2882.2	2906.4	2910.8	2888.8	2894.3	2903.1	2897.6	2938.3	3019.7	3088.0	3180.4
25°	3045.0	3083.6	3072.6	3040.6	3045.0	3057.1	3040.6	3103.4	3161.7	3250.8	3344.4
27.5°	3216.7	3245.3	3233.2	3213.4	3209.0	3200.2	3196.9	3277.2	3363.1	3433.5	3572.2
30°	3425.8	3441.2	3406.0	3397.2	3404.9	3410.4	3389.5	3491.8	3570.0	3671.2	3858.3
32.5°	3778.0	3792.3	3741.7	3606.3	3609.6	3634.9	3617.3	3746.1	3893.5	4016.8	4207.2
35°	4227.0	4227.0	4187.3	3997.0	3852.8	3853.9	3858.3	4039.9	4313.9	4590.1	4786.0
37.5°	4681.5	4696.9	4622.0	4448.2	4265.5	4168.6	4087.2	4320.5	4679.3	5295.5	5587.2
40°	5154.7	5178.9	5066.6	4907.1	4696.9	4586.8	4492.2	4634.1	5118.4	5994.3	6225.4
42.5°	5568.5	5602.6	5487.0	5318.6	5172.3	5047.9	4904.9	4962.1	5601.5	6657.9	6788.9
45°	5953.6	5972.3	5874.4	5735.7	5614.7	5546.4	5446.3	5512.3	6153.9	7307.2	7283.0
47.5°	6237.6	6265.1	6175.9	6101.1	5976.7	5936.0	5934.9	6116.5	6775.7	7824.5	7712.2
50°	6698.7	6677.7	6477.5	6386.1	6310.2	6323.4	6355.3	6668.9	7506.4	8323.0	8073.2
52.5°	7472.3	7433.8	6989.2	6798.8	6705.3	6748.2	6764.7	7169.7	8243.7	8753.3	8371.4
55°	8472.6	8349.4	8025.8	7515.2	7221.4	7262.1	7243.4	7707.8	8833.6	9163.7	8592.6
57.5°	9134.0	9249.6	9094.4	8802.8	8073.2	7940.0	7896.0	8240.4	9379.4	9556.6	8821.5
60°	9708.5	9900.0	10146.5	9959.4	9762.4	9263.9	8853.4	8845.7	9860.4	9818.5	8913.9
62.5°	10314.9	10416.1	10795.8	10911.3	11276.7	11185.3	10635.1	9611.6	10341.3	10010.0	8967.9
65°	9701.9	9837.2	10528.3	11158.9	12511.4	12643.5	12464.1	11035.7	10674.7	10108.0	8890.8
67.5°	8768.7	8843.5	9625.9	10719.8	13070.5	13270.8	13090.3	12433.3	10859.6	10065.0	8653.1
70°	7572.4	7660.5	8407.7	9900.0	13041.9	13068.3	12997.8	12562.0	10785.9	9863.7	8054.5
72.5°	6139.6	6250.8	6907.7	8457.2	12416.8	12531.2	12420.1	12306.7	10579.0	9300.2	7023.3
75°	4645.1	4792.6	5379.2	6742.7	10972.9	11549.6	11563.9	11913.9	9775.6	7973.0	5097.4
77.5°	3168.3	3309.2	3864.9	5137.1	9108.7	10029.8	10269.7	10652.7	8167.8	5892.0	2780.9
80°	1783.9	1770.7	2476.1	3670.1	6947.4	7756.2	8057.8	8042.3	5735.7	3025.2	566.8
82.5°	824.3	826.5	1266.7	2342.9	4703.5	5237.2	5359.4	4665.0	2012.8	512.8	180.5
85°	410.5	414.9	609.7	1175.3	2655.5	3068.2	2916.3	1941.3	431.4	149.7	107.8
87.5°	162.9	156.3	241.0	483.1	958.5	1015.7	887.0	388.5	78.1	52.8	36.3
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°	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0	2596.0
2.5°	2603.7	2605.9	2615.9	2596.0	2601.5	2597.1	2593.8	2611.5	2610.4	2613.7	2608.2
5°	2611.5	2617.0	2626.9	2618.1	2626.9	2622.5	2625.8	2650.0	2653.3	2652.2	2652.2
7.5°	2632.4	2637.9	2656.6	2645.6	2665.4	2659.9	2661.0	2684.1	2688.5	2681.9	2679.7
10°	2676.4	2680.8	2707.2	2705.0	2712.7	2708.3	2703.9	2713.8	2711.6	2701.7	2697.3
12.5°	2727.0	2739.1	2768.8	2769.9	2779.8	2757.8	2734.7	2731.4	2724.8	2709.4	2706.1
15°	2802.9	2817.2	2862.4	2851.4	2844.8	2797.4	2758.9	2728.1	2701.7	2688.5	2676.4
17.5°	2911.9	2936.1	2998.8	2964.7	2916.3	2847.0	2779.8	2712.7	2656.6	2609.3	2590.5
20°	3050.5	3078.1	3130.9	3085.8	3012.0	2908.6	2799.6	2678.6	2556.4	2451.9	2436.5
22.5°	3215.6	3259.6	3298.2	3194.7	3085.8	2954.8	2799.6	2625.8	2423.3	2267.0	2228.5
25°	3408.2	3442.3	3430.2	3284.9	3127.6	2962.5	2768.8	2532.2	2246.1	2064.5	2033.7
27.5°	3617.3	3632.7	3539.2	3327.9	3132.0	2917.4	2681.9	2366.0	2039.2	1896.1	1866.4
30°	3874.8	3828.6	3650.3	3354.3	3088.0	2817.2	2526.7	2122.8	1870.8	1745.4	1711.3
32.5°	4152.1	4067.4	3729.5	3335.6	2991.1	2650.0	2286.8	1951.2	1758.6	1605.6	1577.0
35°	4680.4	4439.4	3845.1	3279.4	2822.7	2426.6	2054.6	1819.1	1639.7	1475.8	1449.3
37.5°	5393.5	4974.2	4006.9	3201.3	2623.6	2209.8	1881.8	1678.2	1523.1	1353.6	1311.8
40°	5948.1	5514.5	4266.6	3117.7	2439.8	2004.0	1756.4	1604.5	1446.0	1265.6	1229.2
42.5°	6476.4	6008.7	4585.7	3024.1	2250.5	1860.9	1701.4	1588.0	1425.1	1241.3	1207.2
45°	6943.0	6408.1	4860.8	2930.6	2037.0	1728.9	1660.6	1556.1	1395.4	1210.5	1177.5
47.5°	7320.4	6751.5	5099.7	2829.3	1843.3	1628.7	1607.8	1497.8	1338.2	1147.8	1108.2
50°	7661.6	7042.0	5264.7	2721.5	1654.0	1547.3	1520.9	1391.0	1224.8	1056.5	1031.2
52.5°	7871.8	7239.0	5363.8	2739.1	1474.7	1455.9	1413.0	1279.9	1125.8	981.6	948.6
55°	8091.9	7425.0	5362.7	2640.1	1325.0	1318.4	1277.7	1175.3	1054.3	933.2	913.4
57.5°	8182.1	7441.5	5262.5	2174.6	1192.9	1151.1	1142.3	1088.4	982.7	868.3	846.3
60°	8242.6	7368.9	5073.2	1484.6	1026.8	997.0	1040.0	1003.6	907.9	787.9	765.9
62.5°	8183.2	7289.6	4576.9	1071.9	900.2	916.7	957.4	917.8	817.7	708.7	690.0
65°	8041.2	6987.0	3614.0	835.3	844.1	880.4	912.3	846.3	662.5	554.6	543.6
67.5°	7653.9	6411.4	2325.3	765.9	812.2	849.6	860.6	716.4	599.8	496.3	484.2
70°	6838.4	5147.0	895.8	721.9	780.2	796.8	751.6	657.0	551.3	462.2	451.2
72.5°	5349.5	3379.6	517.2	660.3	712.0	696.6	697.7	589.9	497.4	412.7	403.9
75°	3324.6	1223.7	460.0	587.7	603.1	631.7	595.4	511.7	428.1	377.5	366.5
77.5°	1099.4	347.8	425.9	506.2	540.3	519.4	498.5	436.9	366.5	326.8	321.3
80°	266.3	260.8	381.9	396.2	423.7	388.5	386.3	363.2	309.2	286.1	280.6
82.5°	164.0	187.1	303.7	246.5	282.8	286.1	325.7	299.3	225.6	234.4	226.7
85°	101.2	144.2	159.6	118.9	120.0	160.7	194.8	180.5	135.4	127.7	126.6
87.5°	34.1	29.7	34.1	25.3	34.1	58.3	88.0	83.6	56.1	38.5	36.3
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)