

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: P510113

Luminaire Tested: **VERD-M-CA4-210-722-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510113  
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-CA4-210-722-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 960mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24502 lumens  
Efficiency: N/A  
Efficacy: 114.7 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

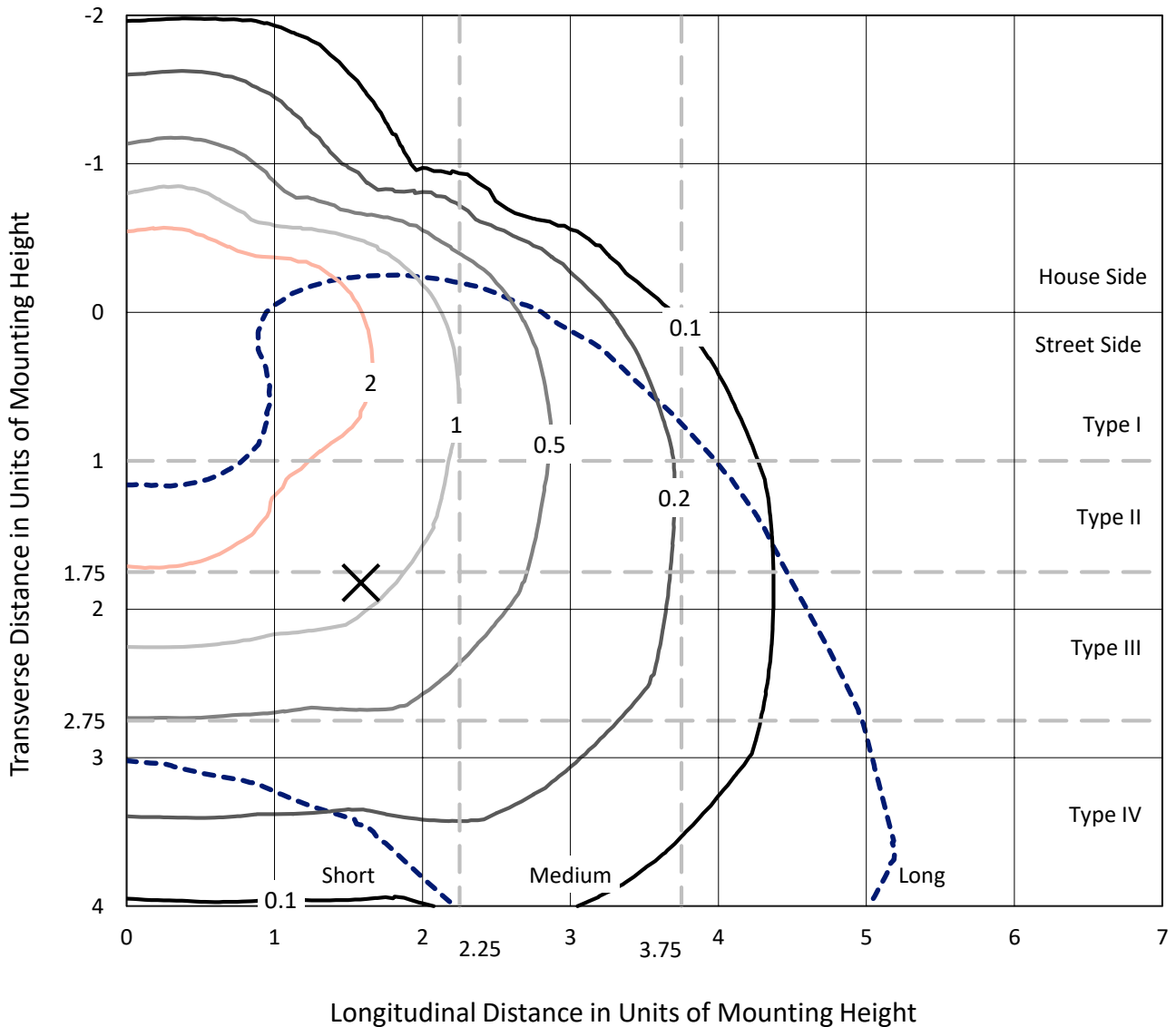
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

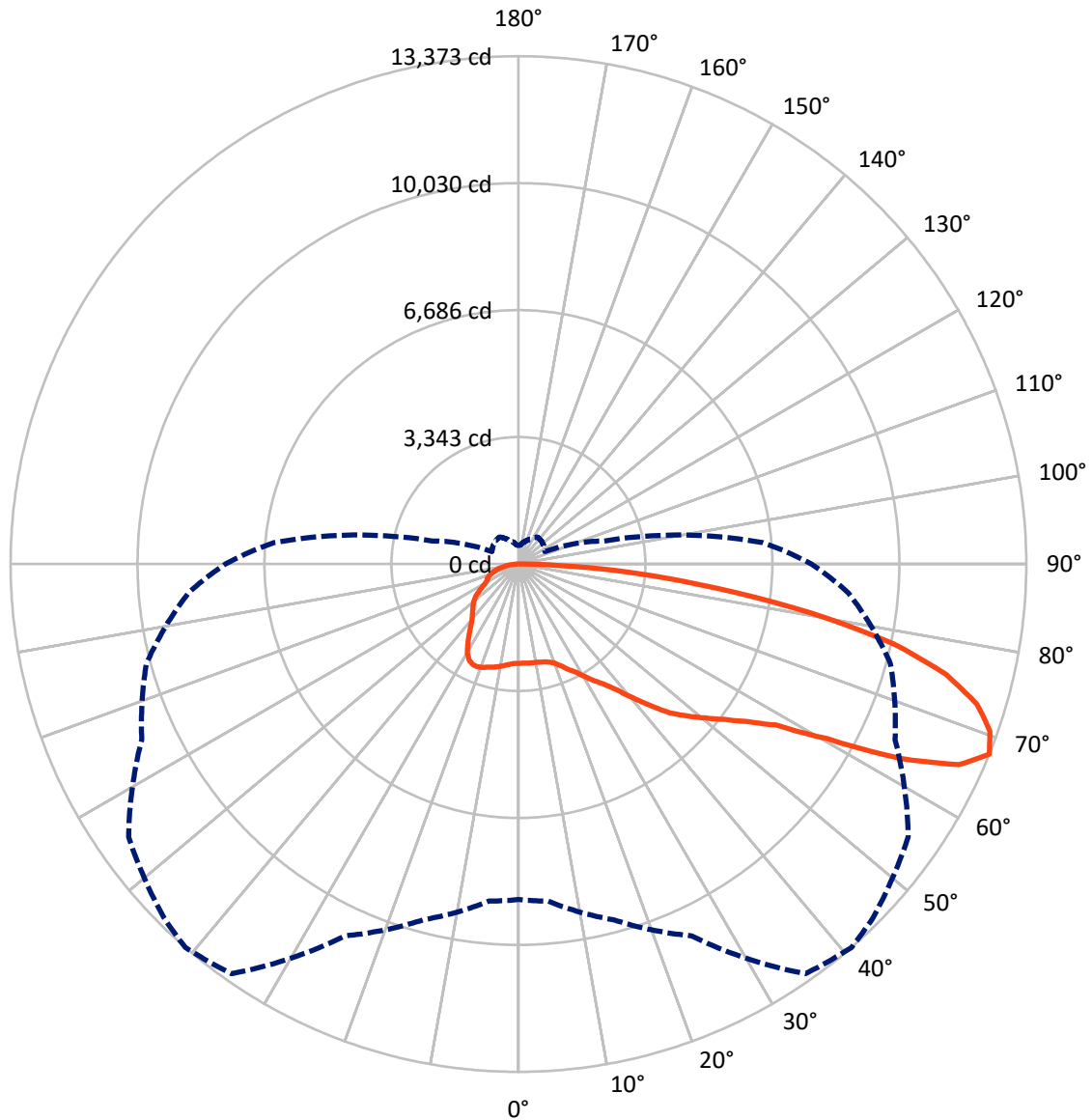
✕ Max cd  
 - - - 1/2 Max cd



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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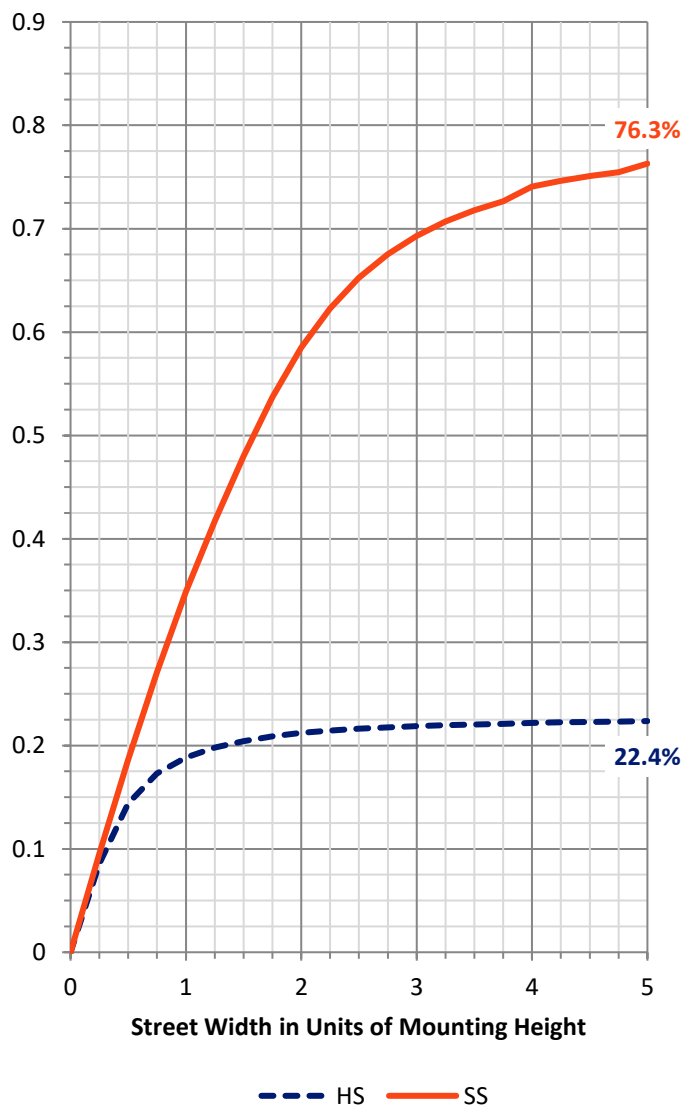
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5544.7	0.0	5544.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	18957.3	0.0	18957.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	24502.0	0.0	24502.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.8	1.0
10°-20°	784.0	3.2
20°-30°	1402.0	5.7
30°-40°	2198.4	9.0
40°-50°	3409.0	13.9
50°-60°	4805.9	19.6
60°-70°	6126.4	25.0
70°-80°	4584.6	18.7
80°-90°	939.0	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°	24502.0	100.0
0°-180°	24502.0	100.0

**Coefficient of Utilization**



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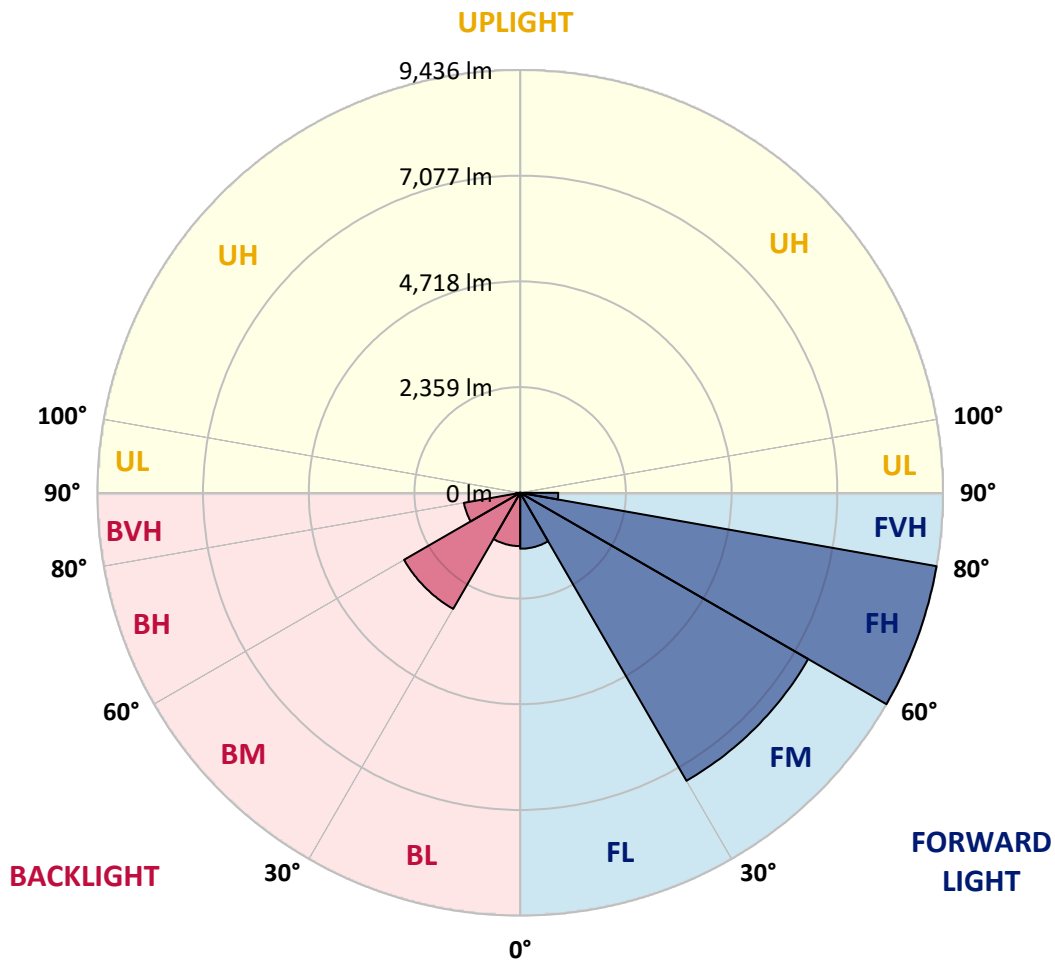
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1248.4	5.1			
FM	(30°-60°)	7421.5	30.3			
FH	(60°-80°)	9436.2	38.5			G4/12000
FVH	(80°-90°)	851.2	3.5			G5
BL	(0°-30°)	1190.4	4.9	B3/2500		
BM	(30°-60°)	2991.8	12.2	B3/5000		
BH	(60°-80°)	1274.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	87.7	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°	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0
2.5°	2583.9	2613.8	2609.4	2603.8	2612.7	2613.8	2588.3	2598.3	2603.8	2612.7	2627.1
5°	2590.5	2620.4	2618.2	2608.2	2614.9	2618.2	2594.9	2612.7	2612.7	2616.0	2632.6
7.5°	2576.1	2604.9	2604.9	2601.6	2616.0	2629.3	2608.2	2623.8	2632.6	2641.5	2652.6
10°	2562.8	2587.2	2596.0	2593.8	2627.1	2630.4	2616.0	2653.7	2668.1	2677.0	2690.3
12.5°	2548.4	2578.3	2590.5	2602.7	2638.2	2650.4	2642.6	2681.4	2711.4	2726.9	2741.3
15°	2541.7	2575.0	2594.9	2612.7	2651.5	2673.7	2673.7	2732.5	2767.9	2787.9	2813.4
17.5°	2588.3	2622.7	2638.2	2652.6	2688.1	2718.0	2715.8	2784.6	2836.7	2867.7	2914.3
20°	2703.6	2744.6	2753.5	2759.1	2781.2	2792.3	2789.0	2863.3	2935.4	2994.2	3046.3
22.5°	2904.3	2928.7	2933.2	2911.0	2916.5	2925.4	2919.9	2960.9	3043.0	3111.7	3204.9
25°	3068.5	3107.3	3096.2	3064.0	3068.5	3080.7	3064.0	3127.2	3186.0	3275.8	3370.1
27.5°	3241.5	3270.3	3258.1	3238.1	3233.7	3224.8	3221.5	3302.5	3388.9	3459.9	3599.6
30°	3452.2	3467.7	3432.2	3423.3	3431.1	3436.6	3415.6	3518.7	3597.4	3699.5	3888.0
32.5°	3807.0	3821.4	3770.4	3634.0	3637.4	3662.9	3645.1	3774.9	3923.5	4047.7	4239.5
35°	4259.5	4259.5	4219.6	4027.7	3882.4	3883.5	3888.0	4071.0	4347.1	4625.4	4822.8
37.5°	4717.5	4733.0	4657.6	4482.4	4298.3	4200.7	4118.6	4353.7	4715.3	5336.3	5630.1
40°	5194.3	5218.7	5105.6	4944.8	4733.0	4622.1	4526.7	4669.8	5157.7	6040.4	6273.3
42.5°	5611.3	5645.7	5529.2	5359.6	5212.1	5086.7	4942.6	5000.3	5644.6	6709.1	6841.1
45°	5999.4	6018.3	5919.6	5779.8	5657.9	5589.1	5488.2	5554.7	6201.2	7363.4	7339.0
47.5°	6285.5	6313.2	6223.4	6148.0	6022.7	5981.7	5980.6	6163.5	6827.8	7884.6	7771.5
50°	6750.2	6729.1	6527.3	6435.2	6358.7	6372.0	6404.2	6720.2	7564.1	8387.0	8135.3
52.5°	7529.8	7491.0	7042.9	6851.1	6756.8	6800.1	6816.7	7224.8	8307.1	8820.6	8435.8
55°	8537.8	8413.6	8087.6	7573.0	7276.9	7318.0	7299.1	7767.1	8901.5	9234.2	8658.7
57.5°	9204.3	9320.7	9164.4	8870.5	8135.3	8001.1	7956.7	8303.8	9451.6	9630.1	8889.3
60°	9783.1	9976.1	10224.5	10036.0	9837.5	9335.1	8921.5	8913.7	9936.2	9894.0	8982.5
62.5°	10394.2	10496.2	10878.8	10995.2	11363.4	11271.4	10716.9	9685.6	10420.8	10087.0	9036.8
65°	9776.5	9912.9	10609.3	11244.7	12607.6	12740.7	12560.0	11120.5	10756.8	10185.7	8959.2
67.5°	8836.1	8911.5	9700.0	10802.3	13171.0	13372.8	13190.9	12528.9	10943.1	10142.4	8719.7
70°	7630.7	7719.4	8472.4	9976.1	13142.2	13168.8	13097.8	12658.7	10868.8	9939.5	8116.4
72.5°	6186.8	6298.8	6960.9	8522.3	12512.3	12627.6	12515.6	12401.4	10660.3	9371.7	7077.3
75°	4680.9	4829.5	5420.5	6794.5	11057.3	11638.4	11652.8	12005.5	9850.8	8034.3	5136.7
77.5°	3192.7	3334.6	3894.6	5176.6	9178.8	10107.0	10348.7	10734.6	8230.6	5937.3	2802.3
80°	1797.6	1784.3	2495.1	3698.3	7000.8	7815.9	8119.7	8104.2	5779.8	3048.5	571.1
82.5°	830.6	832.8	1276.4	2361.0	4739.6	5277.5	5400.6	4700.8	2028.3	516.8	181.9
85°	413.6	418.1	614.4	1184.4	2675.9	3091.8	2938.7	1956.2	434.7	150.8	108.7
87.5°	164.1	157.5	242.9	486.8	965.9	1023.6	893.8	391.5	78.7	53.2	36.6
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°	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0
2.5°	2623.8	2626.0	2636.0	2616.0	2621.6	2617.1	2613.8	2631.5	2630.4	2633.8	2628.2
5°	2631.5	2637.1	2647.1	2638.2	2647.1	2642.6	2646.0	2670.3	2673.7	2672.6	2672.6
7.5°	2652.6	2658.2	2677.0	2665.9	2685.9	2680.3	2681.4	2704.7	2709.2	2702.5	2700.3
10°	2697.0	2701.4	2728.0	2725.8	2733.6	2729.1	2724.7	2734.7	2732.5	2722.5	2718.0
12.5°	2748.0	2760.2	2790.1	2791.2	2801.2	2779.0	2755.7	2752.4	2745.8	2730.2	2726.9
15°	2824.5	2838.9	2884.4	2873.3	2866.6	2818.9	2780.1	2749.1	2722.5	2709.2	2697.0
17.5°	2934.3	2958.7	3021.9	2987.5	2938.7	2868.9	2801.2	2733.6	2677.0	2629.3	2610.5
20°	3074.0	3101.7	3155.0	3109.5	3035.2	2931.0	2821.2	2699.2	2576.1	2470.7	2455.2
22.5°	3240.3	3284.7	3323.5	3219.3	3109.5	2977.5	2821.2	2646.0	2441.9	2284.4	2245.6
25°	3434.4	3468.8	3456.6	3310.2	3151.6	2985.3	2790.1	2551.7	2263.4	2080.4	2049.3
27.5°	3645.1	3660.6	3566.4	3353.5	3156.1	2939.8	2702.5	2384.2	2054.9	1910.7	1880.8
30°	3904.6	3858.0	3678.4	3380.1	3111.7	2838.9	2546.1	2139.2	1885.2	1758.8	1724.4
32.5°	4184.1	4098.7	3758.2	3361.2	3014.1	2670.3	2304.4	1966.2	1772.1	1618.0	1589.1
35°	4716.4	4473.5	3874.7	3304.7	2844.5	2445.2	2070.4	1833.1	1652.3	1487.1	1460.5
37.5°	5435.0	5012.4	4037.7	3225.9	2643.7	2226.8	1896.3	1691.1	1534.8	1364.0	1321.9
40°	5993.9	5556.9	4299.4	3141.7	2458.5	2019.4	1769.9	1616.8	1457.2	1275.3	1238.7
42.5°	6526.2	6054.9	4621.0	3047.4	2267.8	1875.2	1714.4	1600.2	1436.1	1250.9	1216.5
45°	6996.4	6457.4	4898.2	2953.1	2052.7	1742.2	1673.4	1568.1	1406.1	1219.8	1186.6
47.5°	7376.7	6803.4	5138.9	2851.1	1857.5	1641.2	1620.2	1509.3	1348.5	1156.6	1116.7
50°	7720.5	7096.2	5305.2	2742.4	1666.8	1559.2	1532.6	1401.7	1234.3	1064.6	1039.1
52.5°	7932.3	7294.7	5405.0	2760.2	1486.0	1467.1	1423.9	1289.7	1134.5	989.2	955.9
55°	8154.1	7482.1	5403.9	2660.4	1335.2	1328.5	1287.5	1184.4	1062.4	940.4	920.4
57.5°	8245.0	7498.7	5303.0	2191.3	1202.1	1160.0	1151.1	1096.8	990.3	875.0	852.8
60°	8306.0	7425.5	5112.3	1496.0	1034.6	1004.7	1048.0	1011.4	914.9	794.0	771.8
62.5°	8246.1	7345.7	4612.1	1080.1	907.1	923.8	964.8	924.9	823.9	714.2	695.3
65°	8103.1	7040.7	3641.8	841.7	850.6	887.2	919.3	852.8	667.6	558.9	547.8
67.5°	7712.7	6460.7	2343.2	771.8	818.4	856.1	867.2	721.9	604.4	500.1	487.9
70°	6891.0	5186.6	902.7	727.5	786.2	802.9	757.4	662.0	555.6	465.8	454.7
72.5°	5390.6	3405.6	521.2	665.4	717.5	702.0	703.1	594.4	501.2	415.9	407.0
75°	3350.1	1233.2	463.5	592.2	607.7	636.5	599.9	515.7	431.4	380.4	369.3
77.5°	1107.8	350.4	429.2	510.1	544.5	523.4	502.4	440.3	369.3	329.4	323.8
80°	268.4	262.8	384.8	399.2	426.9	391.5	389.2	366.0	311.6	288.3	282.8
82.5°	165.2	188.5	306.1	248.4	285.0	288.3	328.2	301.6	227.3	236.2	228.4
85°	102.0	145.3	160.8	119.8	120.9	161.9	196.3	181.9	136.4	128.6	127.5
87.5°	34.4	29.9	34.4	25.5	34.4	58.8	88.7	84.3	56.6	38.8	36.6
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)