

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: P553637

Luminaire Tested: **VERD-G-CA2-160-760-U-T4**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-160-760-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1460mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22572 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

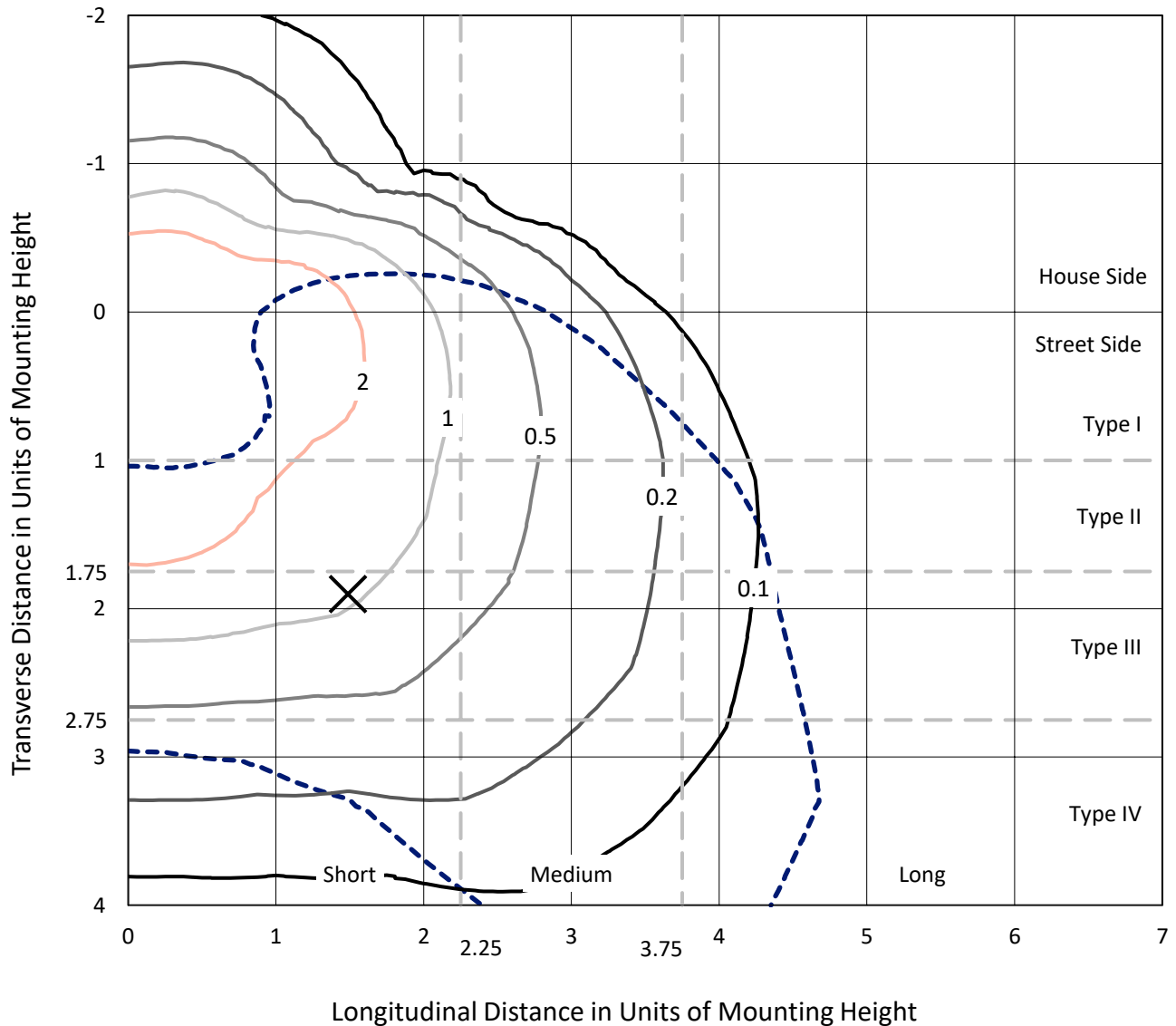
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

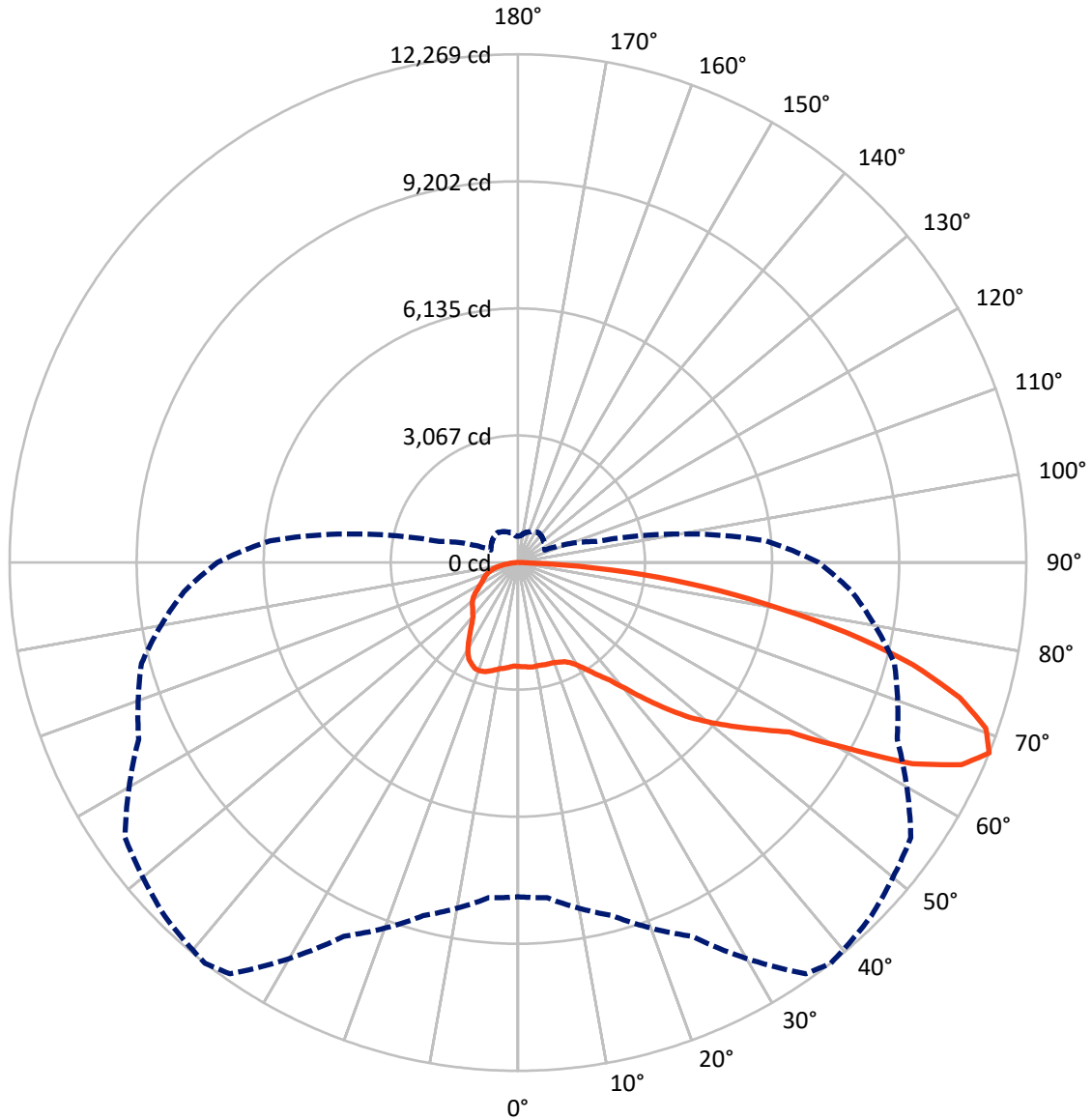
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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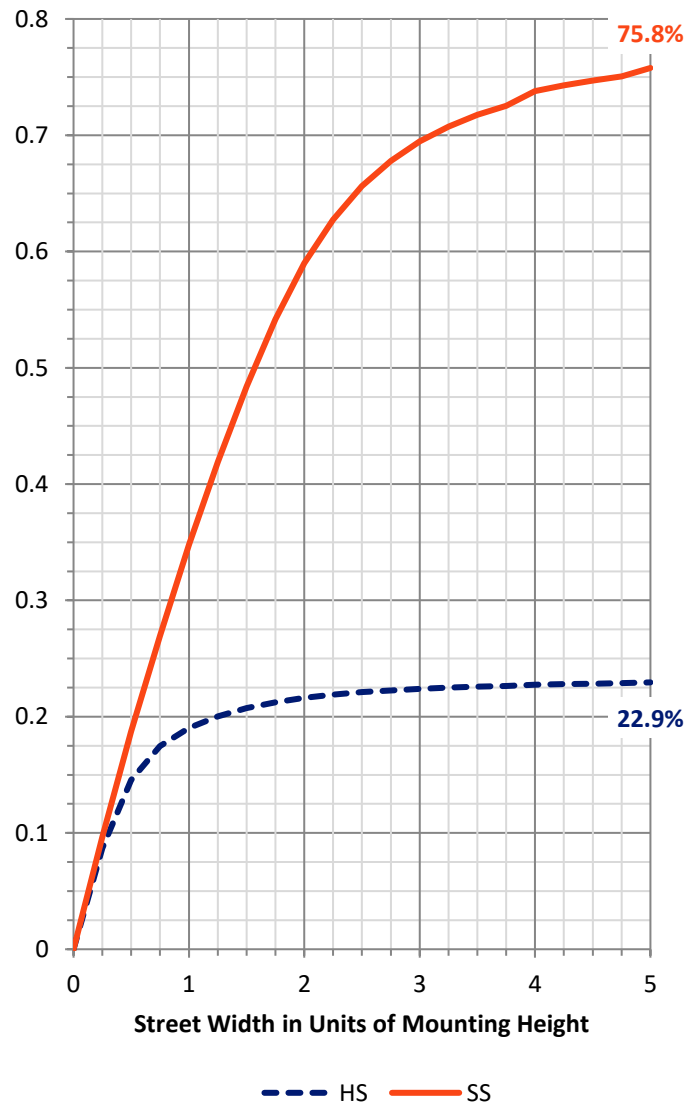
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5237.4	0.0	5237.4
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	17334.6	0.0	17334.6
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	22572.0	0.0	22572.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.3	1.1
10°-20°	750.4	3.3
20°-30°	1271.8	5.6
30°-40°	1949.0	8.6
40°-50°	3211.4	14.2
50°-60°	4590.1	20.3
60°-70°	5718.0	25.3
70°-80°	4074.7	18.1
80°-90°	763.3	3.4
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°	22572.0	100.0
0°-180°	22572.0	100.0



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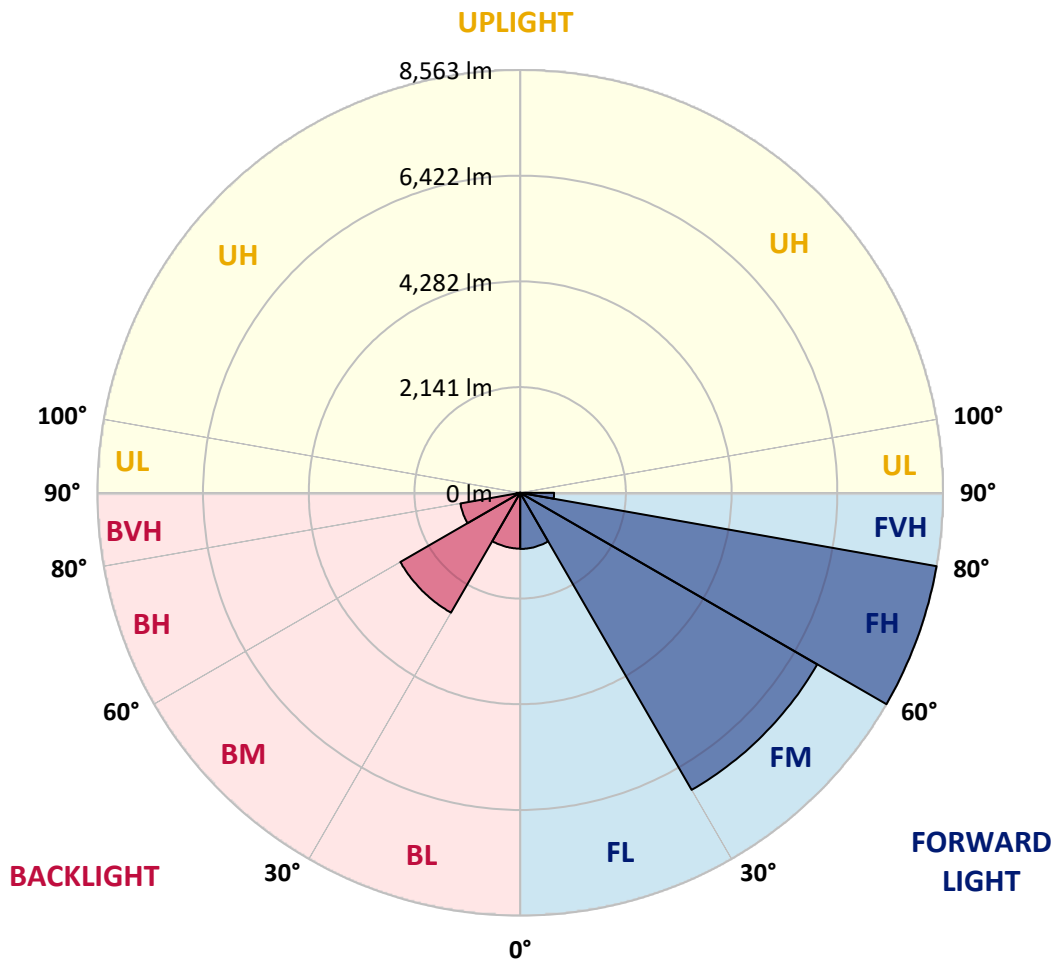
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.2	5.0			
FM	(30°-60°)	6947.1	30.8			
FH	(60°-80°)	8563.3	37.9			G4/12000
FVH	(80°-90°)	688.1	3.0			G4/750
BL	(0°-30°)	1129.4	5.0	B3/2500		
BM	(30°-60°)	2803.4	12.4	B3/5000		
BH	(60°-80°)	1229.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	75.2	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8
2.5°	2554.3	2564.8	2545.3	2542.3	2530.3	2515.3	2518.3	2506.3	2491.3	2497.3	2500.3
5°	2569.3	2569.3	2554.3	2539.3	2533.3	2530.3	2533.3	2519.8	2516.8	2527.3	2518.3
7.5°	2555.8	2564.8	2539.3	2539.3	2528.8	2546.8	2548.3	2531.8	2543.8	2543.8	2542.3
10°	2552.8	2555.8	2545.3	2524.3	2522.8	2533.3	2554.3	2560.3	2566.3	2564.8	2570.8
12.5°	2518.3	2515.3	2494.3	2500.3	2528.8	2539.3	2575.3	2591.8	2614.3	2620.3	2623.3
15°	2474.8	2486.8	2488.3	2506.3	2536.3	2552.8	2588.8	2621.8	2671.3	2683.3	2681.8
17.5°	2479.3	2483.8	2491.3	2501.8	2548.3	2555.8	2614.3	2650.3	2711.8	2753.8	2774.8
20°	2507.8	2498.8	2513.8	2540.8	2566.3	2572.3	2633.8	2689.3	2773.3	2828.8	2852.8
22.5°	2555.8	2557.3	2564.8	2564.8	2582.8	2609.8	2666.8	2710.3	2813.8	2891.8	2933.8
25°	2600.8	2603.8	2612.8	2609.8	2639.8	2651.8	2705.8	2771.8	2890.3	2981.8	3062.7
27.5°	2668.3	2677.3	2671.3	2672.8	2731.3	2743.3	2767.3	2855.8	2977.3	3100.2	3244.2
30°	2794.3	2794.3	2788.3	2794.3	2857.3	2887.3	2894.8	2981.8	3080.7	3229.2	3446.7
32.5°	2975.8	2977.3	2939.8	2969.8	3040.3	3092.7	3115.2	3253.2	3364.2	3436.2	3716.7
35°	3364.2	3347.7	3308.7	3221.7	3266.7	3331.2	3403.2	3578.7	3823.2	4091.7	4373.6
37.5°	3959.7	3958.2	3820.2	3646.2	3568.2	3601.2	3701.7	3964.2	4346.6	5017.1	5266.1
40°	4621.1	4637.6	4438.1	4220.7	3991.2	3994.2	4019.7	4348.1	4901.6	5870.5	6001.0
42.5°	5281.1	5254.1	5033.6	4825.1	4513.1	4493.6	4426.1	4736.6	5482.1	6553.0	6571.0
45°	5869.0	5855.5	5611.0	5399.6	5105.6	5030.6	4954.1	5152.1	6035.5	7104.9	6986.4
47.5°	6421.0	6439.0	6101.5	5911.0	5620.0	5582.5	5494.1	5620.0	6583.0	7538.4	7323.9
50°	7049.4	7056.9	6653.5	6418.0	6130.0	6082.0	6047.5	6208.0	7148.4	7952.3	7667.4
52.5°	7752.9	7605.9	7212.9	6888.9	6613.0	6577.0	6557.5	6725.5	7767.9	8315.3	7893.9
55°	8637.8	8441.3	8039.3	7502.4	7100.4	7106.4	7038.9	7235.4	8289.8	8565.8	8114.3
57.5°	9024.8	9069.8	8994.8	8505.8	7800.9	7713.9	7547.4	7698.9	8786.3	8859.8	8288.3
60°	9753.7	9927.7	9765.7	9492.7	9284.2	9056.3	8243.3	8300.3	9239.2	9185.2	8307.8
62.5°	9803.2	9863.2	10374.7	10418.1	10620.6	10697.1	10023.7	8982.8	9650.2	9348.7	8373.8
65°	9317.2	9384.7	10001.2	10542.6	11657.0	11762.0	11549.1	10232.2	9983.2	9437.2	8321.3
67.5°	8067.8	8123.3	8823.8	9954.7	12117.5	12269.0	12062.0	11576.1	10100.2	9407.2	8090.3
70°	6900.9	6932.4	7514.4	9096.8	11801.0	11979.5	11897.0	11627.0	10095.7	9230.2	7580.4
72.5°	5420.6	5512.0	5981.5	7544.4	11001.6	11151.6	11175.6	11313.6	9839.2	8648.3	6440.5
75°	3931.2	3980.7	4513.1	5861.5	9495.7	9854.2	10275.7	10796.1	8874.8	7341.9	4762.1
77.5°	2770.3	2818.3	3319.2	4444.1	7685.4	8093.3	8855.3	9161.3	7200.9	5503.1	2506.3
80°	1823.9	1817.9	2294.8	3289.2	5767.0	6053.5	6619.0	6209.5	4178.7	2392.3	273.0
82.5°	1070.9	1130.9	1469.9	2260.3	4030.2	4189.2	4174.2	3269.7	1658.9	247.5	139.5
85°	617.9	640.4	866.9	1339.4	2221.3	2243.8	2009.8	1268.9	411.0	111.0	82.5
87.5°	276.0	265.5	345.0	442.5	405.0	301.5	187.5	52.5	31.5	21.0	13.5
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°	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8
2.5°	2488.3	2480.8	2518.3	2497.3	2515.3	2504.8	2495.8	2507.8	2530.3	2549.8	2537.8
5°	2507.8	2512.3	2542.3	2516.8	2540.8	2536.3	2524.3	2537.8	2573.8	2591.8	2590.3
7.5°	2530.3	2533.3	2564.8	2554.3	2564.8	2555.8	2575.3	2566.3	2597.8	2609.8	2602.3
10°	2557.3	2561.8	2590.3	2591.8	2596.3	2590.3	2599.3	2603.8	2621.8	2645.8	2630.8
12.5°	2615.8	2626.3	2647.3	2669.8	2666.8	2642.8	2650.3	2626.3	2642.8	2650.3	2662.3
15°	2696.8	2722.3	2734.3	2765.8	2737.3	2723.8	2695.3	2647.3	2632.3	2624.8	2612.8
17.5°	2783.8	2807.8	2830.3	2870.8	2824.3	2788.3	2738.8	2648.8	2581.3	2557.3	2546.8
20°	2881.3	2903.8	2944.3	2971.3	2902.3	2824.3	2744.8	2612.8	2479.3	2387.8	2398.3
22.5°	2990.8	3040.3	3067.2	3059.7	2962.3	2855.8	2719.3	2518.3	2347.3	2210.8	2201.8
25°	3142.2	3170.7	3181.2	3112.2	2995.3	2833.3	2633.8	2405.8	2167.3	2014.3	1991.8
27.5°	3301.2	3331.2	3275.7	3146.7	2984.8	2780.8	2537.8	2213.8	1958.8	1811.9	1795.4
30°	3505.2	3497.7	3340.2	3136.2	2924.8	2654.8	2362.3	2017.3	1781.9	1645.4	1637.9
32.5°	3727.2	3671.7	3392.7	3085.2	2810.8	2489.8	2138.8	1831.4	1649.9	1513.4	1507.4
35°	4252.2	3997.2	3469.2	3020.8	2642.8	2261.8	1931.8	1691.9	1544.9	1390.4	1360.4
37.5°	5023.1	4612.1	3626.7	2954.8	2450.8	2036.8	1759.4	1588.4	1448.9	1283.9	1255.4
40°	5741.5	5237.6	3902.7	2905.3	2278.3	1855.3	1640.9	1516.4	1381.4	1216.4	1180.4
42.5°	6251.5	5723.5	4234.2	2824.3	2105.8	1711.4	1591.4	1489.4	1363.4	1210.4	1181.9
45°	6662.5	6143.5	4562.6	2732.8	1903.3	1588.4	1540.4	1466.9	1340.9	1192.4	1159.4
47.5°	6951.9	6407.5	4790.6	2629.3	1709.9	1513.4	1496.9	1430.9	1306.4	1166.9	1145.9
50°	7250.4	6703.0	4946.6	2522.8	1535.9	1456.4	1436.9	1349.9	1235.9	1111.4	1088.9
52.5°	7445.4	6846.9	5036.6	2501.8	1387.4	1378.4	1354.4	1271.9	1163.9	1028.9	1001.9
55°	7593.9	6974.4	5023.1	2378.8	1253.9	1276.4	1261.4	1199.9	1105.4	973.4	955.4
57.5°	7629.9	6993.9	4900.1	1997.8	1127.9	1139.9	1147.4	1159.4	1067.9	958.4	928.4
60°	7733.4	6902.4	4682.6	1436.9	979.4	1009.4	1069.4	1079.9	1016.9	892.4	874.4
62.5°	7667.4	6840.9	4210.2	1012.4	874.4	935.9	992.9	992.9	905.9	790.4	778.4
65°	7551.9	6598.0	3293.7	797.9	818.9	881.9	934.4	898.4	823.4	715.4	707.9
67.5°	7257.9	6005.5	1966.3	718.4	779.9	839.9	877.4	823.4	752.9	646.4	634.4
70°	6413.5	4786.1	748.4	680.9	740.9	782.9	806.9	751.4	682.4	576.0	565.5
72.5°	5092.1	2993.8	475.5	634.4	691.4	728.9	743.9	679.4	570.0	448.5	436.5
75°	3064.2	854.9	412.5	549.0	609.0	673.4	647.9	564.0	481.5	376.5	369.0
77.5°	775.4	259.5	367.5	442.5	495.0	571.5	570.0	508.5	420.0	307.5	295.5
80°	186.0	181.5	298.5	327.0	373.5	438.0	432.0	423.0	333.0	213.0	175.5
82.5°	118.5	126.0	202.5	183.0	213.0	255.0	289.5	273.0	249.0	130.5	117.0
85°	79.5	100.5	99.0	69.0	96.0	144.0	187.5	171.0	141.0	81.0	72.0
87.5°	12.0	13.5	18.0	27.0	42.0	70.5	93.0	91.5	69.0	51.0	48.0
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)