

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: P509977

Luminaire Tested: **VERD-M-CA3-180-727-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509977  
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-CA3-180-727-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1120mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21573 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

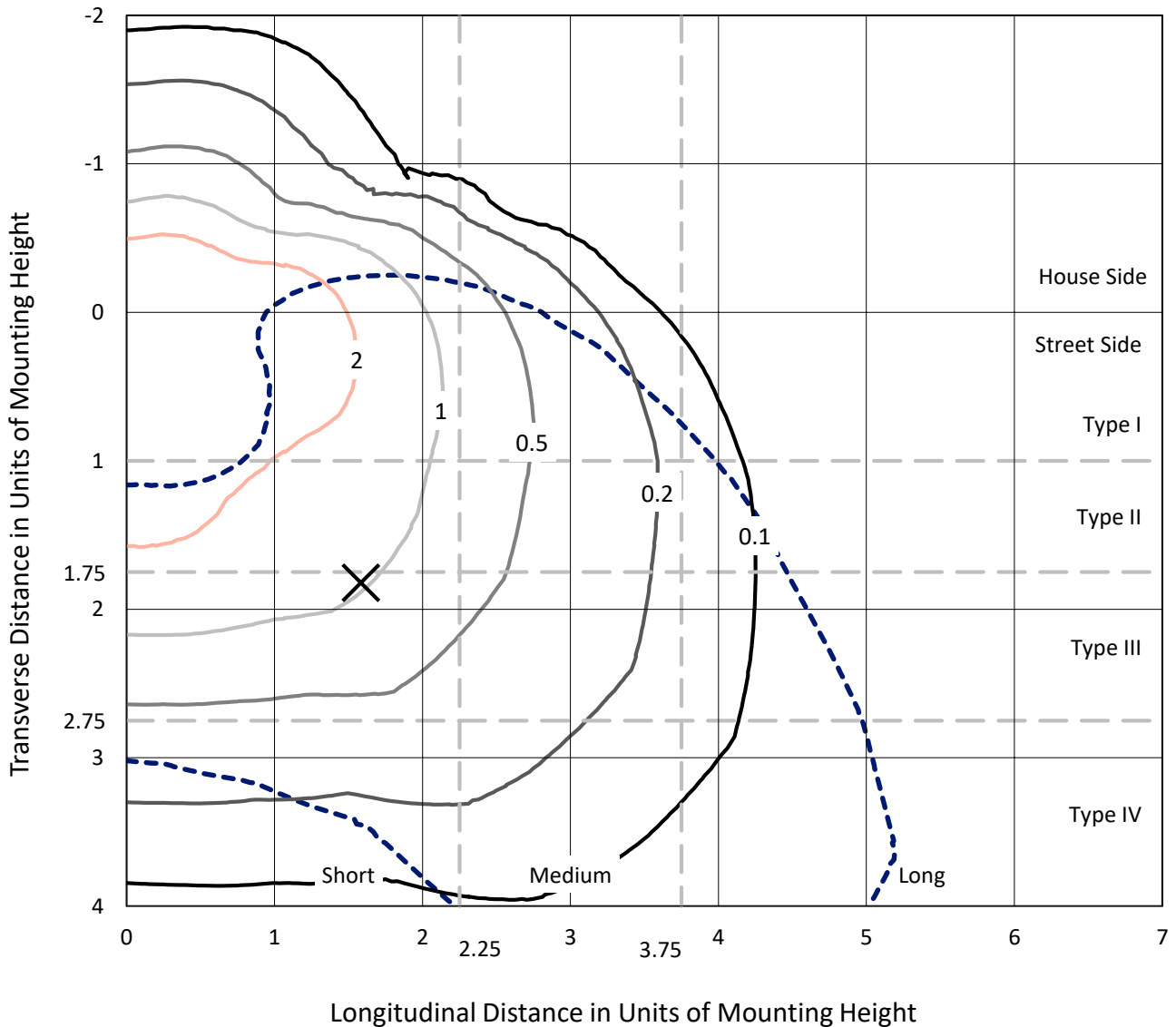
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

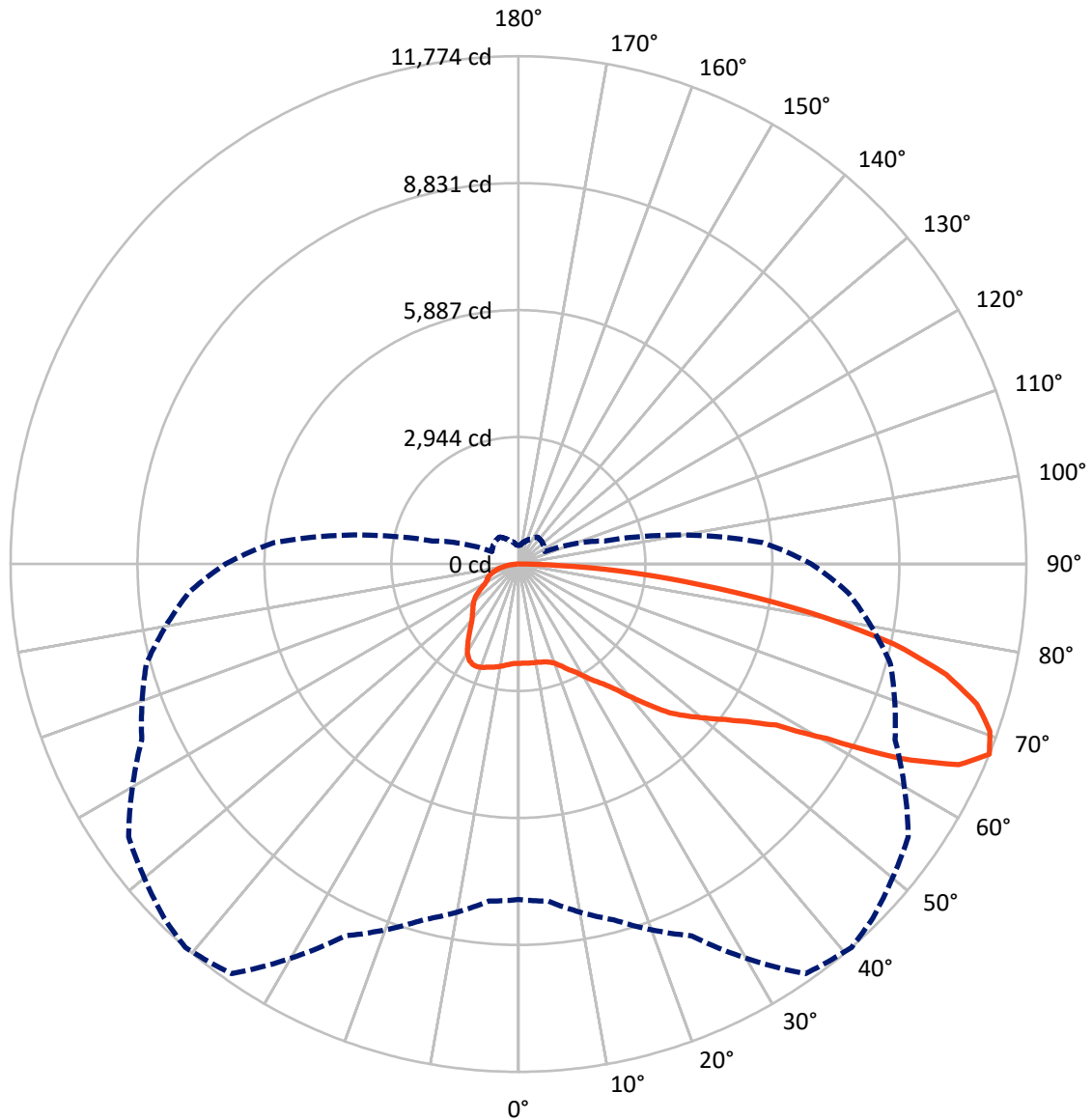
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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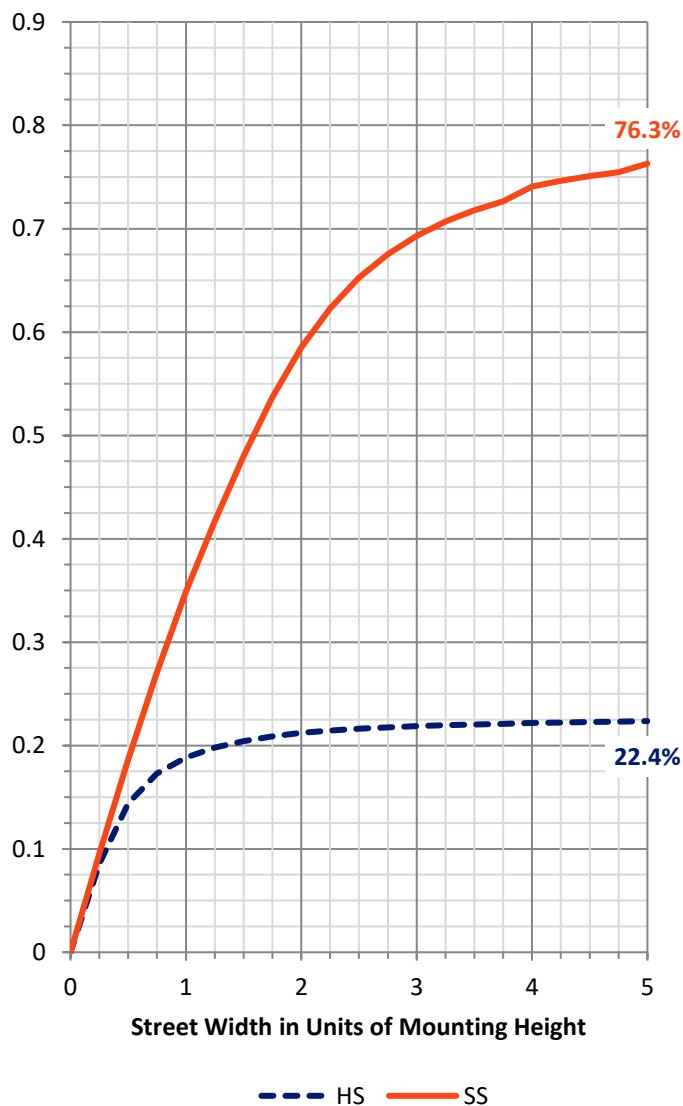
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4881.9	0.0	4881.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	16691.1	0.0	16691.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	21573.0	0.0	21573.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.6	1.0
10°-20°	690.3	3.2
20°-30°	1234.4	5.7
30°-40°	1935.6	9.0
40°-50°	3001.5	13.9
50°-60°	4231.4	19.6
60°-70°	5394.0	25.0
70°-80°	4036.5	18.7
80°-90°	826.7	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°	21573.0	100.0
0°-180°	21573.0	100.0

**Coefficient of Utilization**



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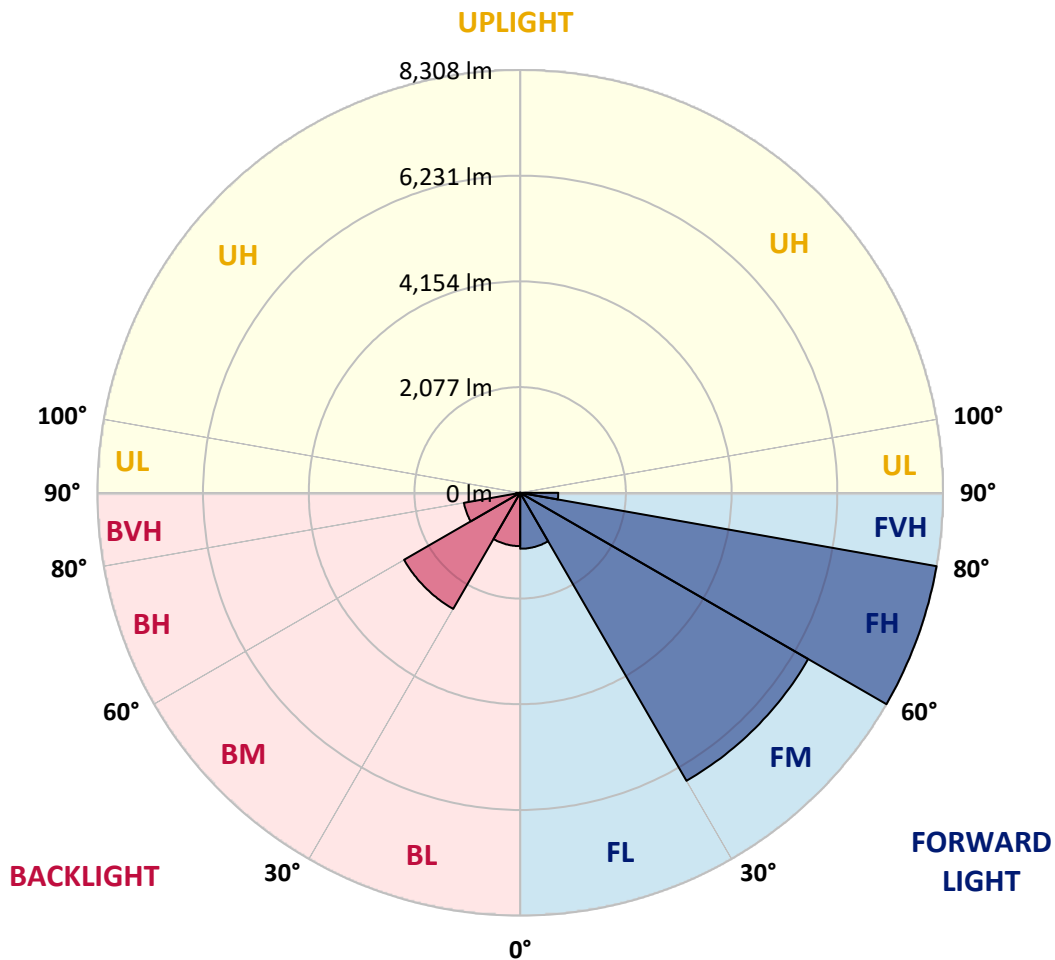
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1099.2	5.1			
FM	(30°-60°)	6534.3	30.3			
FH	(60°-80°)	8308.2	38.5			G4/12000
FVH	(80°-90°)	749.5	3.5			G4/750
BL	(0°-30°)	1048.1	4.9	B3/2500		
BM	(30°-60°)	2634.2	12.2	B3/5000		
BH	(60°-80°)	1122.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	77.2	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3
2.5°	2275.0	2301.3	2297.4	2292.5	2300.4	2301.3	2278.9	2287.7	2292.5	2300.4	2313.1
5°	2280.8	2307.2	2305.2	2296.5	2302.3	2305.2	2284.7	2300.4	2300.4	2303.3	2317.9
7.5°	2268.1	2293.5	2293.5	2290.6	2303.3	2315.0	2296.5	2310.1	2317.9	2325.7	2335.5
10°	2256.4	2277.9	2285.7	2283.8	2313.1	2316.0	2303.3	2336.5	2349.2	2357.0	2368.7
12.5°	2243.7	2270.1	2280.8	2291.6	2322.8	2333.6	2326.7	2360.9	2387.3	2400.9	2413.6
15°	2237.9	2267.2	2284.7	2300.4	2334.5	2354.1	2354.1	2405.8	2437.1	2454.6	2477.1
17.5°	2278.9	2309.1	2322.8	2335.5	2366.8	2393.1	2391.2	2451.7	2497.6	2524.9	2565.9
20°	2380.4	2416.6	2424.4	2429.2	2448.8	2458.5	2455.6	2521.0	2584.5	2636.2	2682.1
22.5°	2557.1	2578.6	2582.5	2563.0	2567.9	2575.7	2570.8	2606.9	2679.2	2739.7	2821.7
25°	2701.7	2735.8	2726.1	2697.7	2701.7	2712.4	2697.7	2753.4	2805.2	2884.2	2967.2
27.5°	2854.0	2879.4	2868.6	2851.0	2847.1	2839.3	2836.4	2907.7	2983.8	3046.3	3169.3
30°	3039.5	3053.2	3021.9	3014.1	3020.9	3025.8	3007.3	3098.1	3167.4	3257.2	3423.2
32.5°	3351.9	3364.6	3319.7	3199.6	3202.5	3225.0	3209.4	3323.6	3454.4	3563.8	3732.7
35°	3750.3	3750.3	3715.1	3546.2	3418.3	3419.3	3423.2	3584.3	3827.4	4072.5	4246.3
37.5°	4153.5	4167.2	4100.8	3946.5	3784.5	3698.5	3626.3	3833.3	4151.6	4698.4	4957.1
40°	4573.4	4594.9	4495.3	4353.7	4167.2	4069.6	3985.6	4111.6	4541.2	5318.4	5523.4
42.5°	4940.5	4970.8	4868.3	4718.9	4589.0	4478.7	4351.7	4402.5	4969.8	5907.1	6023.3
45°	5282.2	5298.8	5211.9	5088.9	4981.5	4921.0	4832.1	4890.7	5459.9	6483.2	6461.7
47.5°	5534.1	5558.6	5479.5	5413.1	5302.7	5266.6	5265.6	5426.7	6011.6	6942.1	6842.5
50°	5943.2	5924.7	5747.0	5666.0	5598.6	5610.3	5638.6	5916.9	6659.9	7384.4	7162.8
52.5°	6629.6	6595.5	6201.0	6032.1	5949.1	5987.2	6001.8	6361.1	7314.1	7766.2	7427.4
55°	7517.2	7407.8	7120.8	6667.7	6407.0	6443.2	6426.6	6838.6	7837.4	8130.3	7623.6
57.5°	8104.0	8206.5	8068.8	7810.1	7162.8	7044.6	7005.6	7311.2	8321.7	8478.9	7826.7
60°	8613.7	8783.5	9002.3	8836.3	8661.5	8219.2	7855.0	7848.2	8748.4	8711.3	7908.7
62.5°	9151.6	9241.5	9578.3	9680.8	10005.0	9924.0	9435.8	8527.7	9175.1	8881.2	7956.6
65°	8607.8	8727.9	9341.1	9900.5	11100.5	11217.7	11058.5	9791.2	9470.9	8968.1	7888.2
67.5°	7779.8	7846.2	8540.4	9511.0	11596.5	11774.2	11614.1	11031.2	9635.0	8930.0	7677.3
70°	6718.5	6796.6	7459.6	8783.5	11571.1	11594.6	11532.1	11145.4	9569.5	8751.3	7146.2
72.5°	5447.2	5545.9	6128.8	7503.5	11016.5	11118.1	11019.5	10918.9	9386.0	8251.4	6231.3
75°	4121.3	4252.2	4772.6	5982.3	9735.5	10247.1	10259.8	10570.3	8673.2	7073.9	4522.6
77.5°	2811.0	2936.0	3429.1	4557.8	8081.5	8898.8	9111.6	9451.4	7246.7	5227.6	2467.3
80°	1582.7	1571.0	2196.9	3256.2	6163.9	6881.6	7149.1	7135.4	5088.9	2684.1	502.8
82.5°	731.3	733.3	1123.8	2078.7	4173.1	4646.6	4755.0	4138.9	1785.8	455.0	160.1
85°	364.2	368.1	540.9	1042.8	2356.0	2722.2	2587.4	1722.3	382.7	132.8	95.7
87.5°	144.5	138.6	213.8	428.6	850.4	901.2	787.0	344.7	69.3	46.9	32.2
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°	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3	2303.3
2.5°	2310.1	2312.1	2320.9	2303.3	2308.2	2304.3	2301.3	2317.0	2316.0	2318.9	2314.0
5°	2317.0	2321.8	2330.6	2322.8	2330.6	2326.7	2329.7	2351.1	2354.1	2353.1	2353.1
7.5°	2335.5	2340.4	2357.0	2347.2	2364.8	2359.9	2360.9	2381.4	2385.3	2379.4	2377.5
10°	2374.6	2378.5	2401.9	2400.0	2406.8	2402.9	2399.0	2407.8	2405.8	2397.0	2393.1
12.5°	2419.5	2430.2	2456.6	2457.6	2466.3	2446.8	2426.3	2423.4	2417.5	2403.9	2400.9
15°	2486.8	2499.5	2539.6	2529.8	2524.0	2482.0	2447.8	2420.5	2397.0	2385.3	2374.6
17.5°	2583.5	2605.0	2660.6	2630.4	2587.4	2525.9	2466.3	2406.8	2357.0	2315.0	2298.4
20°	2706.5	2730.9	2777.8	2737.8	2672.4	2580.6	2483.9	2376.5	2268.1	2175.4	2161.7
22.5°	2853.0	2892.0	2926.2	2834.4	2737.8	2621.6	2483.9	2329.7	2150.0	2011.4	1977.2
25°	3023.9	3054.1	3043.4	2914.5	2774.9	2628.4	2456.6	2246.7	1992.8	1831.7	1804.4
27.5°	3209.4	3223.0	3140.1	2952.6	2778.8	2588.4	2379.4	2099.2	1809.2	1682.3	1655.9
30°	3437.8	3396.8	3238.7	2976.0	2739.7	2499.5	2241.8	1883.4	1659.9	1548.5	1518.3
32.5°	3683.9	3608.7	3309.0	2959.4	2653.8	2351.1	2028.9	1731.1	1560.3	1424.5	1399.2
35°	4152.6	3938.7	3411.5	2909.6	2504.4	2152.9	1822.9	1614.0	1454.8	1309.3	1285.9
37.5°	4785.3	4413.3	3555.0	2840.3	2327.7	1960.6	1669.6	1489.0	1351.3	1201.0	1163.8
40°	5277.4	4892.7	3785.4	2766.1	2164.6	1778.0	1558.3	1423.6	1283.0	1122.8	1090.6
42.5°	5746.0	5331.1	4068.6	2683.1	1996.7	1651.1	1509.5	1408.9	1264.4	1101.4	1071.1
45°	6160.0	5685.5	4312.7	2600.1	1807.3	1533.9	1473.4	1380.6	1238.1	1074.0	1044.7
47.5°	6494.9	5990.1	4524.6	2510.3	1635.4	1445.0	1426.5	1328.9	1187.3	1018.4	983.2
50°	6797.6	6247.9	4671.0	2414.6	1467.5	1372.8	1349.4	1234.1	1086.7	937.3	914.9
52.5°	6984.1	6422.7	4758.9	2430.2	1308.4	1291.8	1253.7	1135.5	998.8	870.9	841.6
55°	7179.4	6587.7	4757.9	2342.3	1175.6	1169.7	1133.6	1042.8	935.4	828.0	810.4
57.5°	7259.4	6602.3	4669.1	1929.3	1058.4	1021.3	1013.5	965.6	871.9	770.4	750.8
60°	7313.1	6537.9	4501.1	1317.1	911.0	884.6	922.7	890.5	805.5	699.1	679.6
62.5°	7260.4	6467.6	4060.8	951.0	798.7	813.3	849.5	814.3	725.5	628.8	612.2
65°	7134.4	6199.1	3206.4	741.1	748.9	781.1	809.4	750.8	587.8	492.1	482.3
67.5°	6790.8	5688.4	2063.1	679.6	720.6	753.8	763.5	635.6	532.1	440.3	429.6
70°	6067.2	4566.5	794.8	640.5	692.3	706.9	666.9	582.9	489.2	410.1	400.3
72.5°	4746.2	2998.5	458.9	585.8	631.7	618.1	619.0	523.3	441.3	366.1	358.3
75°	2949.7	1085.7	408.1	521.4	535.1	560.4	528.2	454.0	379.8	334.9	325.1
77.5°	975.4	308.5	377.9	449.1	479.4	460.9	442.3	387.6	325.1	290.0	285.1
80°	236.3	231.4	338.8	351.5	375.9	344.7	342.7	322.2	274.4	253.9	249.0
82.5°	145.5	166.0	269.5	218.7	250.9	253.9	289.0	265.6	200.2	208.0	201.1
85°	89.8	127.9	141.6	105.4	106.4	142.6	172.8	160.1	120.1	113.3	112.3
87.5°	30.3	26.4	30.3	22.5	30.3	51.7	78.1	74.2	49.8	34.2	32.2
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)