

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: P510305

Luminaire Tested: **VERD-M-CA4-250-722-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510305  
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-CA4-250-722-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 1130mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28125 lumens  
Efficiency: N/A  
Efficacy: 111.7 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

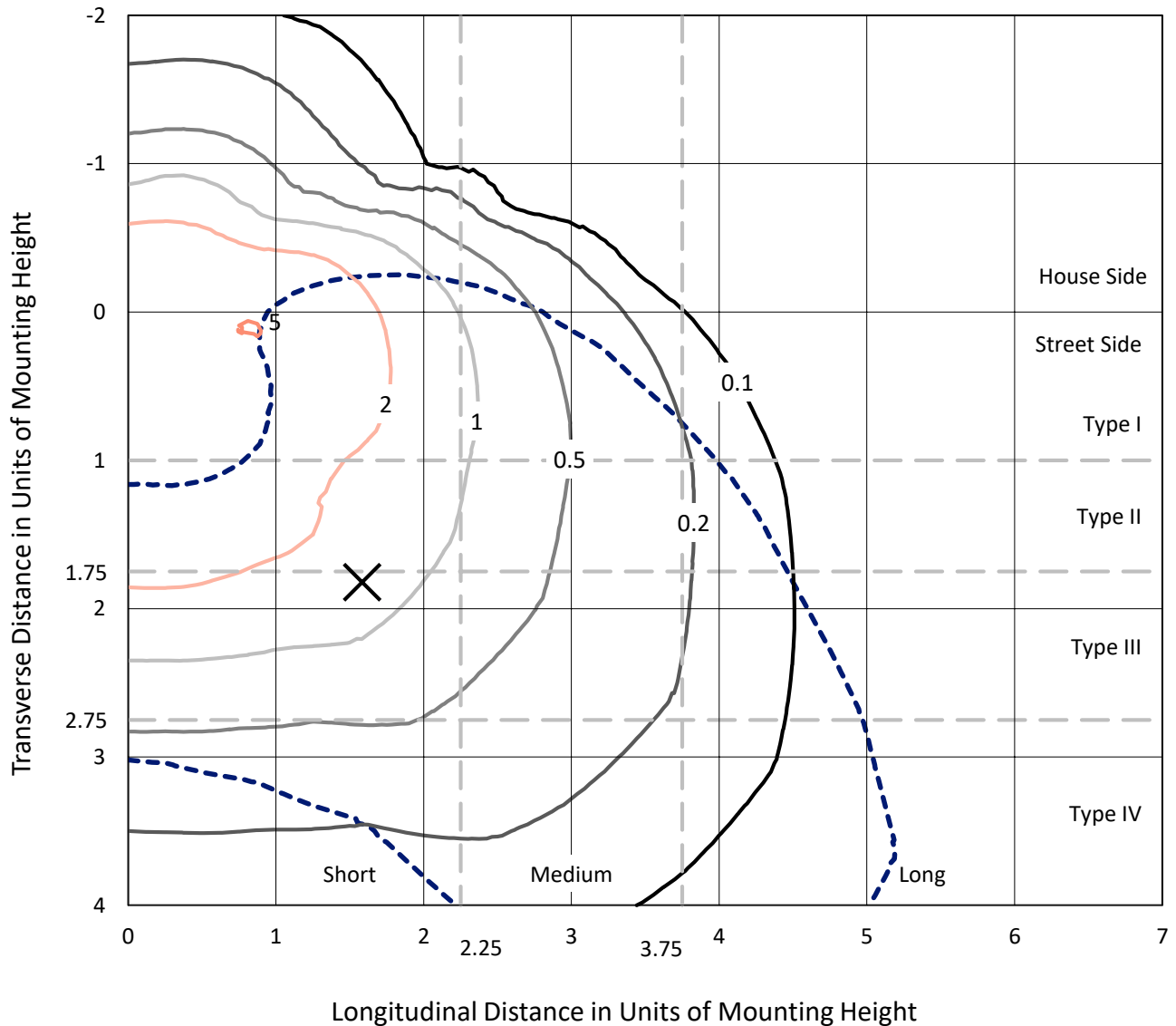
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

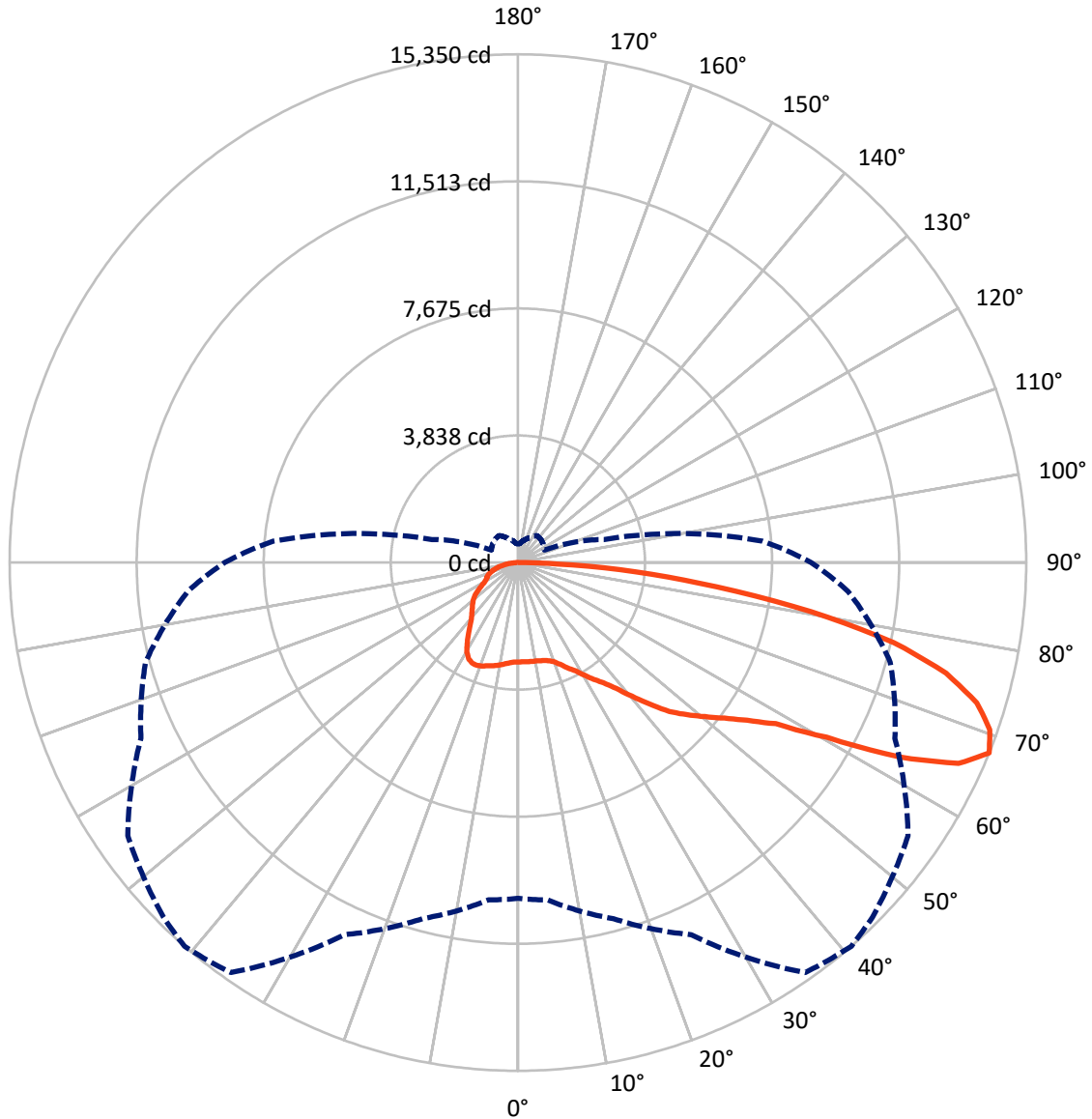
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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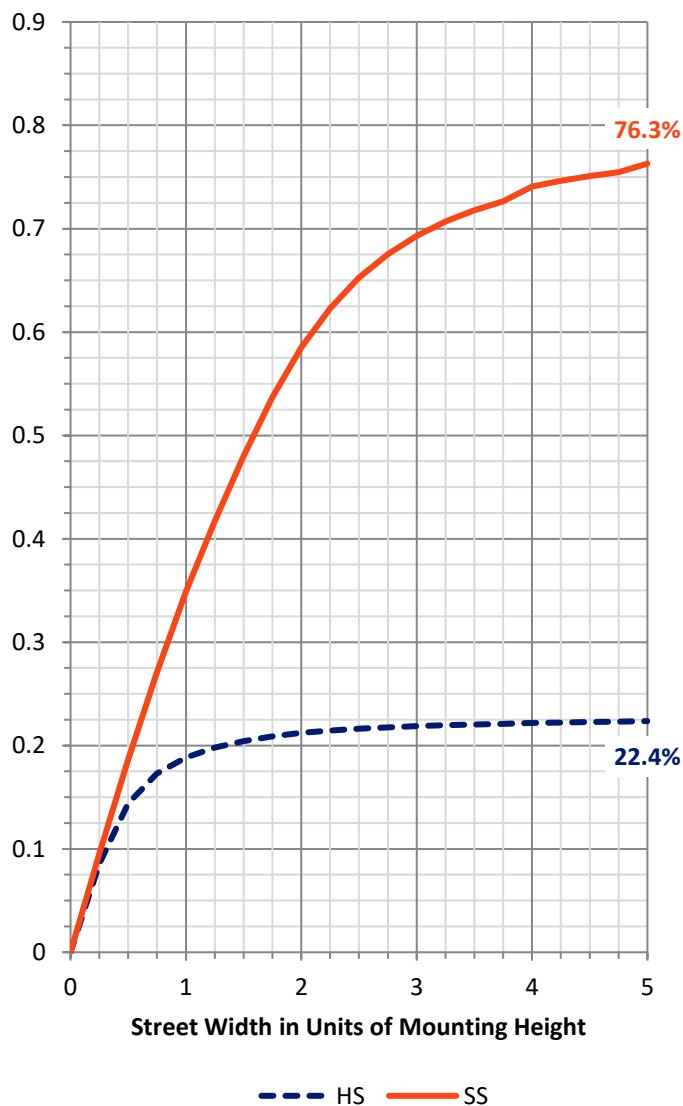
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6364.6	0.0	6364.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	21760.4	0.0	21760.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	28125.0	0.0	28125.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.2	1.0
10°-20°	899.9	3.2
20°-30°	1609.3	5.7
30°-40°	2523.4	9.0
40°-50°	3913.1	13.9
50°-60°	5516.5	19.6
60°-70°	7032.3	25.0
70°-80°	5262.5	18.7
80°-90°	1077.8	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°	28125.0	100.0
0°-180°	28125.0	100.0

**Coefficient of Utilization**



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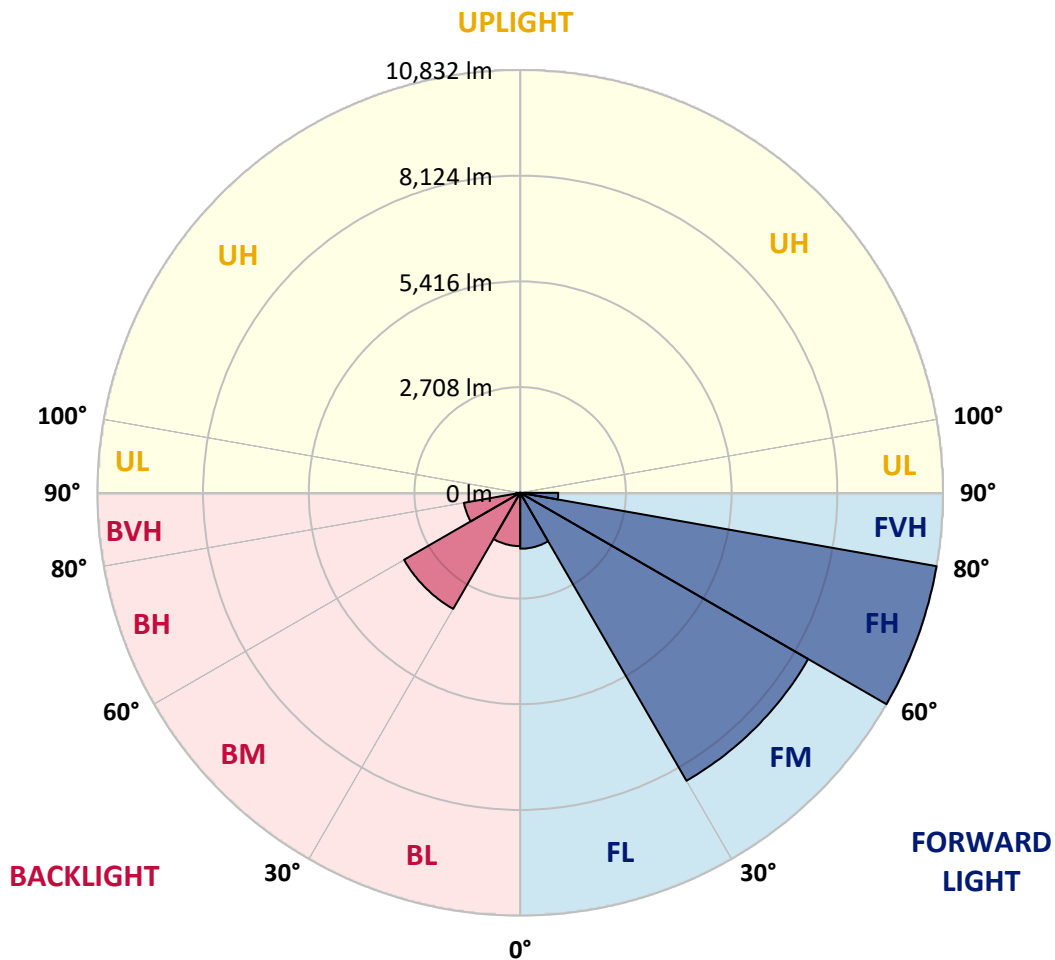
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1433.0	5.1			
FM	(30°-60°)	8518.8	30.3			
FH	(60°-80°)	10831.5	38.5			G4/12000
FVH	(80°-90°)	977.1	3.5			G5
BL	(0°-30°)	1366.4	4.9	B3/2500		
BM	(30°-60°)	3434.2	12.2	B3/5000		
BH	(60°-80°)	1463.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	100.7	0.4			G2/225
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°	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8
2.5°	2965.9	3000.3	2995.2	2988.8	2999.0	3000.3	2971.0	2982.5	2988.8	2999.0	3015.6
5°	2973.6	3007.9	3005.4	2993.9	3001.6	3005.4	2978.6	2999.0	2999.0	3002.8	3021.9
7.5°	2957.0	2990.1	2990.1	2986.3	3002.8	3018.1	2993.9	3011.7	3021.9	3032.1	3044.8
10°	2941.7	2969.7	2979.9	2977.4	3015.6	3019.4	3002.8	3046.1	3062.7	3072.8	3088.1
12.5°	2925.2	2959.5	2973.6	2987.6	3028.3	3042.3	3033.4	3077.9	3112.3	3130.1	3146.7
15°	2917.5	2955.7	2978.6	2999.0	3043.6	3069.0	3069.0	3136.5	3177.2	3200.1	3229.4
17.5°	2971.0	3010.5	3028.3	3044.8	3085.6	3119.9	3117.4	3196.3	3256.1	3291.8	3345.2
20°	3103.4	3150.5	3160.7	3167.0	3192.5	3205.2	3201.4	3286.7	3369.4	3436.9	3496.7
22.5°	3333.8	3361.8	3366.9	3341.4	3347.8	3358.0	3351.6	3398.7	3492.9	3571.8	3678.8
25°	3522.2	3566.7	3554.0	3517.1	3522.2	3536.2	3517.1	3589.6	3657.1	3760.2	3868.4
27.5°	3720.8	3753.9	3739.9	3716.9	3711.8	3701.7	3697.8	3790.8	3890.1	3971.5	4131.9
30°	3962.6	3980.4	3939.7	3929.5	3938.4	3944.8	3920.6	4039.0	4129.4	4246.5	4462.9
32.5°	4369.9	4386.5	4327.9	4171.4	4175.2	4204.5	4184.1	4333.0	4503.6	4646.2	4866.4
35°	4889.3	4889.3	4843.5	4623.3	4456.5	4457.8	4462.9	4672.9	4989.9	5309.4	5535.9
37.5°	5415.0	5432.8	5346.3	5145.2	4933.9	4821.8	4727.6	4997.5	5412.5	6125.3	6462.6
40°	5962.4	5990.4	5860.5	5676.0	5432.8	5305.5	5196.1	5360.3	5920.4	6933.6	7200.9
42.5°	6441.0	6480.5	6346.8	6152.0	5982.7	5838.9	5673.4	5739.6	6479.2	7701.2	7852.7
45°	6886.5	6908.2	6794.9	6634.5	6494.5	6415.5	6299.7	6376.1	7118.2	8452.2	8424.2
47.5°	7214.9	7246.8	7143.7	7057.1	6913.3	6866.2	6864.9	7074.9	7837.4	9050.5	8920.7
50°	7748.3	7724.1	7492.4	7386.8	7298.9	7314.2	7351.1	7713.9	8682.6	9627.1	9338.2
52.5°	8643.2	8598.6	8084.3	7864.1	7755.9	7805.6	7824.7	8293.1	9535.5	10124.8	9683.1
55°	9800.2	9657.7	9283.4	8692.8	8352.9	8400.0	8378.4	8915.6	10217.8	10599.6	9939.0
57.5°	10565.3	10698.9	10519.4	10182.1	9338.2	9184.1	9133.2	9531.7	10849.1	11054.1	10203.8
60°	11229.7	11451.2	11736.4	11520.0	11292.1	10715.5	10240.7	10231.8	11405.4	11357.0	10310.7
62.5°	11931.1	12048.2	12487.4	12621.0	13043.7	12938.0	12301.5	11117.7	11961.7	11578.5	10373.1
65°	11222.1	11378.7	12178.1	12907.5	14471.9	14624.6	14417.1	12764.9	12347.4	11691.8	10284.0
67.5°	10142.7	10229.2	11134.3	12399.6	15118.5	15350.2	15141.4	14381.5	12561.2	11642.2	10009.0
70°	8759.0	8860.8	9725.1	11451.2	15085.4	15116.0	15034.5	14530.4	12475.9	11409.2	9316.5
72.5°	7101.6	7230.2	7990.1	9782.4	14362.4	14494.8	14366.2	14235.1	12236.6	10757.5	8123.8
75°	5373.0	5543.6	6222.1	7799.2	12692.3	13359.3	13375.9	13780.7	11307.4	9222.3	5896.2
77.5°	3664.7	3827.7	4470.5	5942.0	10536.0	11601.4	11878.9	12321.9	9447.6	6815.2	3216.7
80°	2063.4	2048.1	2864.1	4245.2	8036.0	8971.6	9320.4	9302.5	6634.5	3499.3	655.6
82.5°	953.4	956.0	1465.1	2710.1	5440.5	6057.8	6199.1	5395.9	2328.2	593.2	208.8
85°	474.8	479.9	705.2	1359.5	3071.6	3548.9	3373.2	2245.4	499.0	173.1	124.7
87.5°	188.4	180.8	278.8	558.8	1108.7	1174.9	1026.0	449.3	90.4	61.1	42.0
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°	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8
2.5°	3011.7	3014.3	3025.7	3002.8	3009.2	3004.1	3000.3	3020.6	3019.4	3023.2	3016.8
5°	3020.6	3027.0	3038.5	3028.3	3038.5	3033.4	3037.2	3065.2	3069.0	3067.7	3067.7
7.5°	3044.8	3051.2	3072.8	3060.1	3083.0	3076.7	3077.9	3104.7	3109.8	3102.1	3099.6
10°	3095.8	3100.8	3131.4	3128.8	3137.8	3132.7	3127.6	3139.0	3136.5	3125.0	3119.9
12.5°	3154.3	3168.3	3202.7	3204.0	3215.4	3189.9	3163.2	3159.4	3151.8	3133.9	3130.1
15°	3242.1	3258.7	3310.9	3298.1	3290.5	3235.8	3191.2	3155.6	3125.0	3109.8	3095.8
17.5°	3368.2	3396.2	3468.7	3429.3	3373.2	3293.1	3215.4	3137.8	3072.8	3018.1	2996.5
20°	3528.5	3560.4	3621.5	3569.3	3484.0	3364.3	3238.3	3098.3	2957.0	2836.1	2818.3
22.5°	3719.5	3770.4	3815.0	3695.3	3569.3	3417.8	3238.3	3037.2	2803.0	2622.2	2577.7
25°	3942.2	3981.7	3967.7	3799.7	3617.7	3426.7	3202.7	2929.0	2598.0	2388.0	2352.4
27.5°	4184.1	4201.9	4093.7	3849.3	3622.7	3374.5	3102.1	2736.8	2358.7	2193.2	2158.9
30°	4482.0	4428.5	4222.3	3879.9	3571.8	3258.7	2922.6	2455.5	2164.0	2018.9	1979.4
32.5°	4802.7	4704.7	4313.9	3858.2	3459.8	3065.2	2645.1	2256.9	2034.1	1857.2	1824.1
35°	5413.7	5135.0	4447.6	3793.3	3265.1	2806.8	2376.5	2104.1	1896.7	1707.0	1676.4
37.5°	6238.6	5753.6	4634.7	3702.9	3034.7	2556.0	2176.7	1941.2	1761.7	1565.7	1517.3
40°	6880.2	6378.6	4935.1	3606.2	2822.1	2318.0	2031.6	1855.9	1672.6	1463.9	1421.9
42.5°	7491.2	6950.2	5304.3	3498.0	2603.1	2152.5	1967.9	1836.8	1648.4	1435.9	1396.4
45°	8030.9	7412.2	5622.5	3389.8	2356.2	1999.8	1920.8	1799.9	1614.1	1400.2	1362.0
47.5°	8467.5	7809.4	5898.7	3272.7	2132.1	1883.9	1859.7	1732.5	1547.9	1327.7	1281.8
50°	8862.1	8145.4	6089.7	3147.9	1913.2	1789.7	1759.2	1609.0	1416.8	1222.0	1192.7
52.5°	9105.2	8373.3	6204.2	3168.3	1705.7	1684.1	1634.4	1480.4	1302.2	1135.4	1097.3
55°	9359.8	8588.4	6203.0	3053.7	1532.6	1525.0	1477.9	1359.5	1219.5	1079.4	1056.5
57.5°	9464.2	8607.5	6087.1	2515.3	1379.9	1331.5	1321.3	1258.9	1136.7	1004.3	978.9
60°	9534.2	8523.5	5868.2	1717.2	1187.6	1153.3	1202.9	1160.9	1050.2	911.4	886.0
62.5°	9465.5	8431.9	5294.1	1239.8	1041.3	1060.3	1107.4	1061.6	945.8	819.8	798.1
65°	9301.3	8081.8	4180.3	966.1	976.3	1018.3	1055.3	978.9	766.3	641.6	628.8
67.5°	8853.2	7416.1	2689.7	886.0	939.4	982.7	995.4	828.7	693.7	574.1	560.1
70°	7910.0	5953.5	1036.2	835.0	902.5	921.6	869.4	759.9	637.7	534.6	521.9
72.5°	6187.7	3909.2	598.3	763.8	823.6	805.8	807.0	682.3	575.4	477.3	467.2
75°	3845.5	1415.5	532.1	679.7	697.6	730.7	688.7	591.9	495.2	436.6	423.9
77.5°	1271.7	402.2	492.6	585.5	625.0	600.8	576.6	505.4	423.9	378.1	371.7
80°	308.0	301.7	441.7	458.3	490.1	449.3	446.8	420.1	357.7	331.0	324.6
82.5°	189.7	216.4	351.3	285.1	327.1	331.0	376.8	346.2	260.9	271.1	262.2
85°	117.1	166.8	184.6	137.5	138.7	185.8	225.3	208.8	156.6	147.7	146.4
87.5°	39.5	34.4	39.5	29.3	39.5	67.5	101.8	96.7	64.9	44.6	42.0
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)