

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: P233839

Luminaire Tested: **VERD-G-C02-D-U-T2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-C02-D-U-T2-7030  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1175mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16663 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 138  
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: 28.75 FT

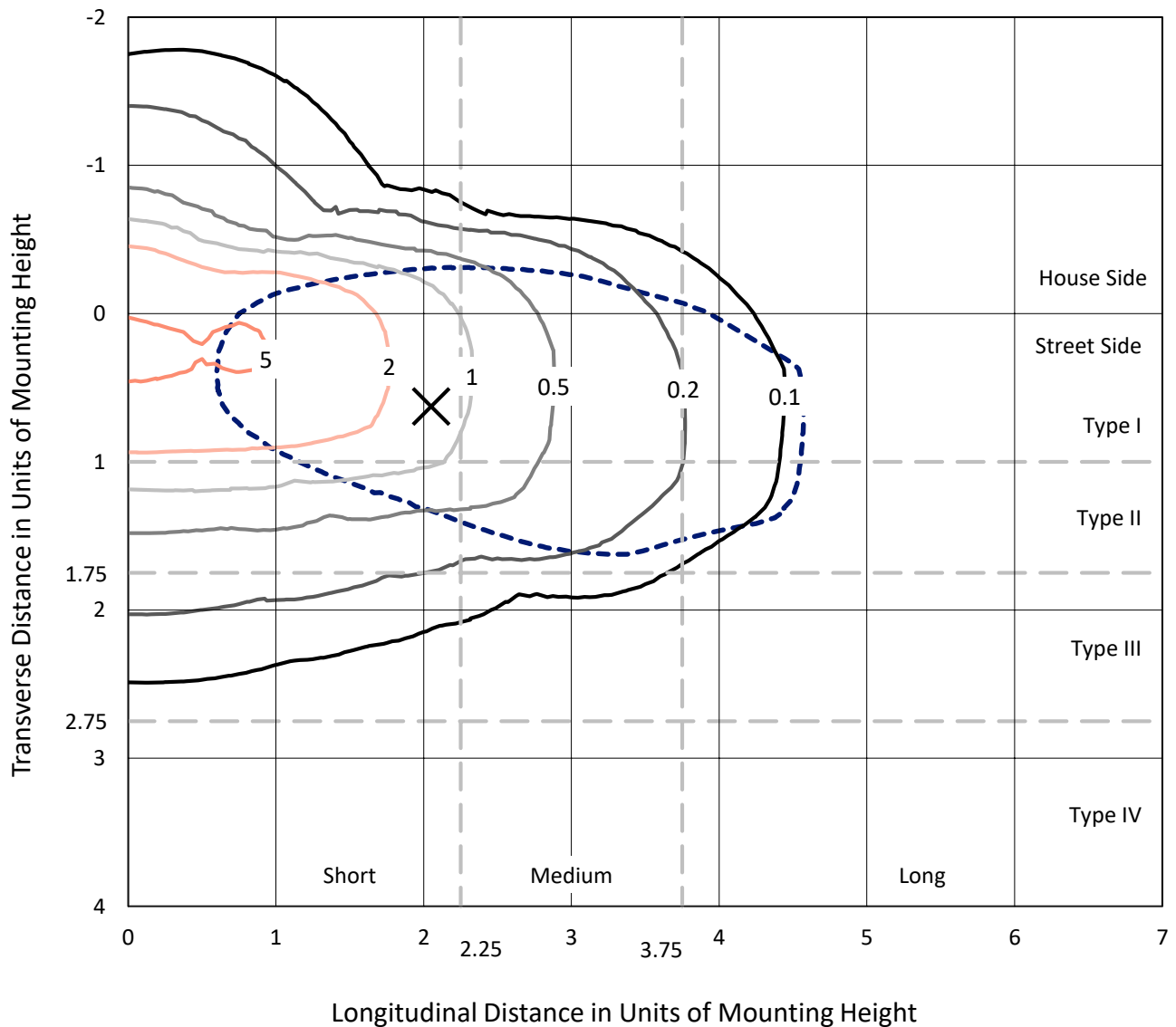


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

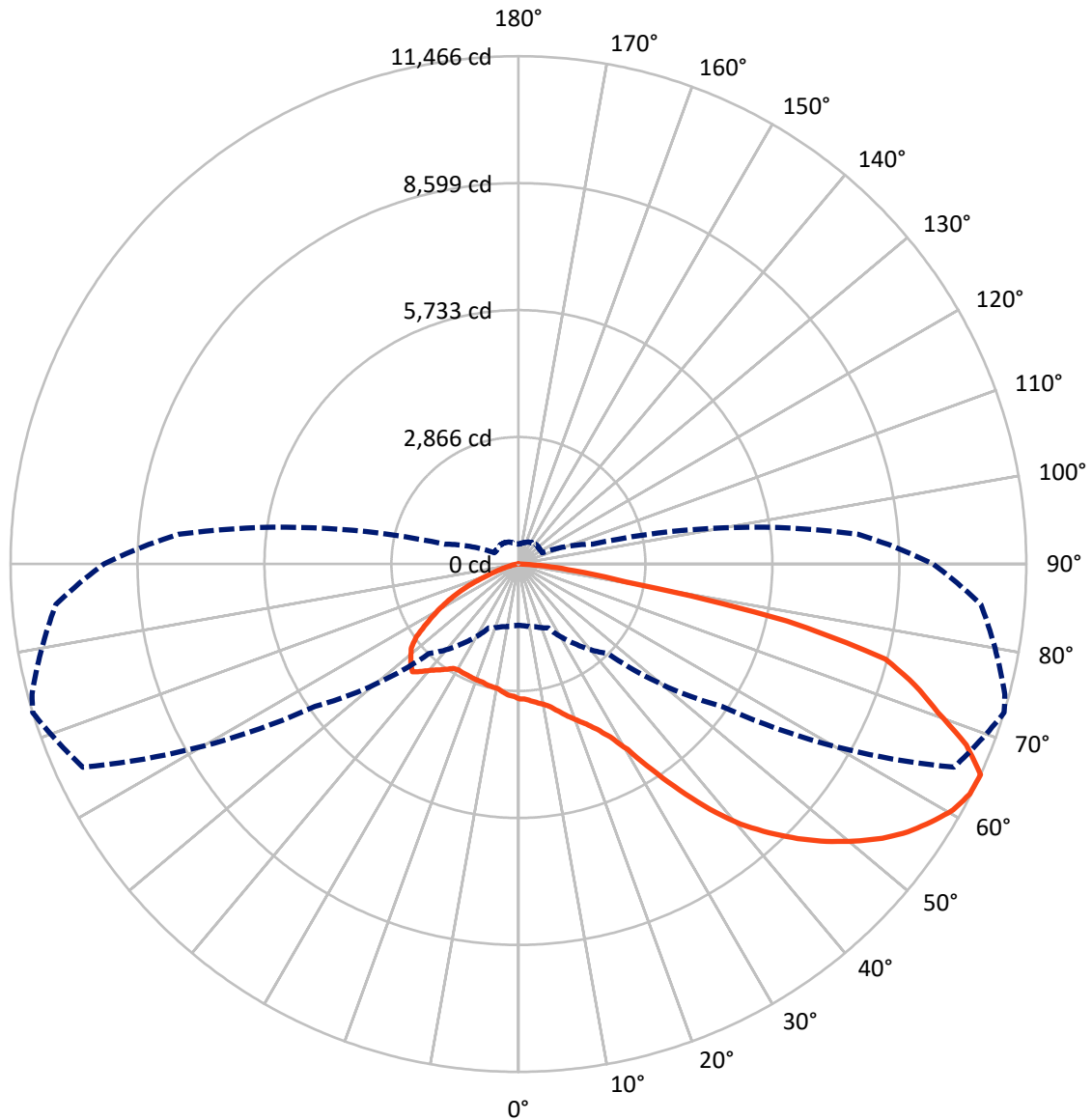


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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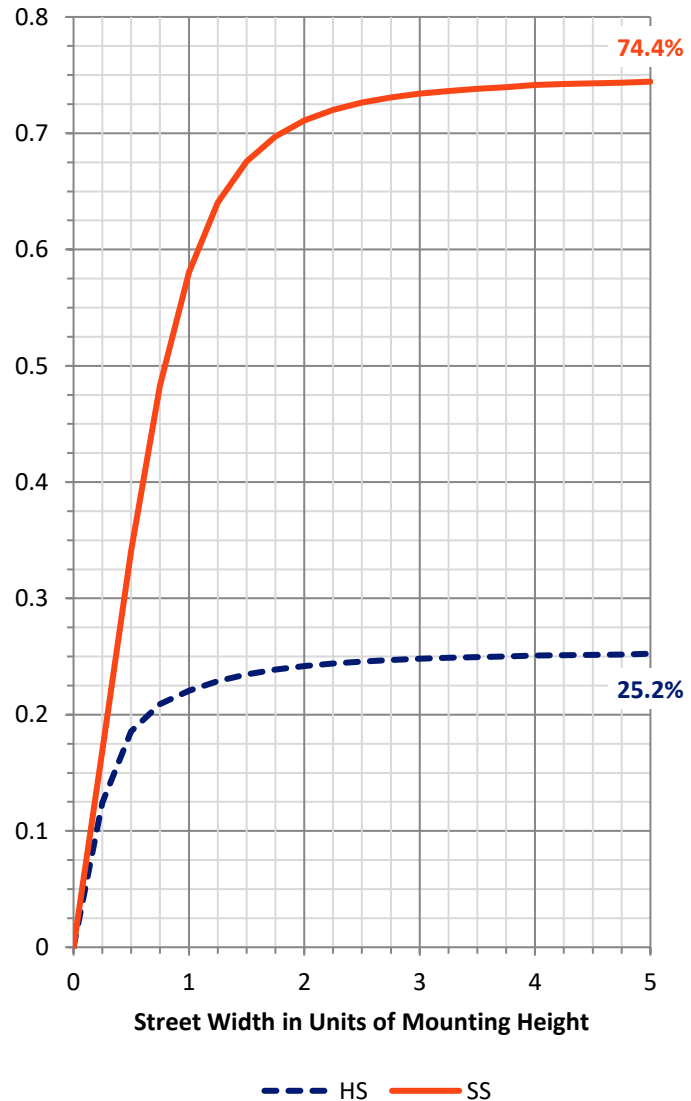
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4271.5	0.0	4271.5
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	12391.5	0.0	12391.5
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	16663.0	0.0	16663.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.7	1.7
10°-20°	879.1	5.3
20°-30°	1474.6	8.8
30°-40°	2162.5	13.0
40°-50°	2922.7	17.5
50°-60°	3385.7	20.3
60°-70°	3307.2	19.8
70°-80°	1986.0	11.9
80°-90°	254.3	1.5
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°	16663.0	100.0
0°-180°	16663.0	100.0



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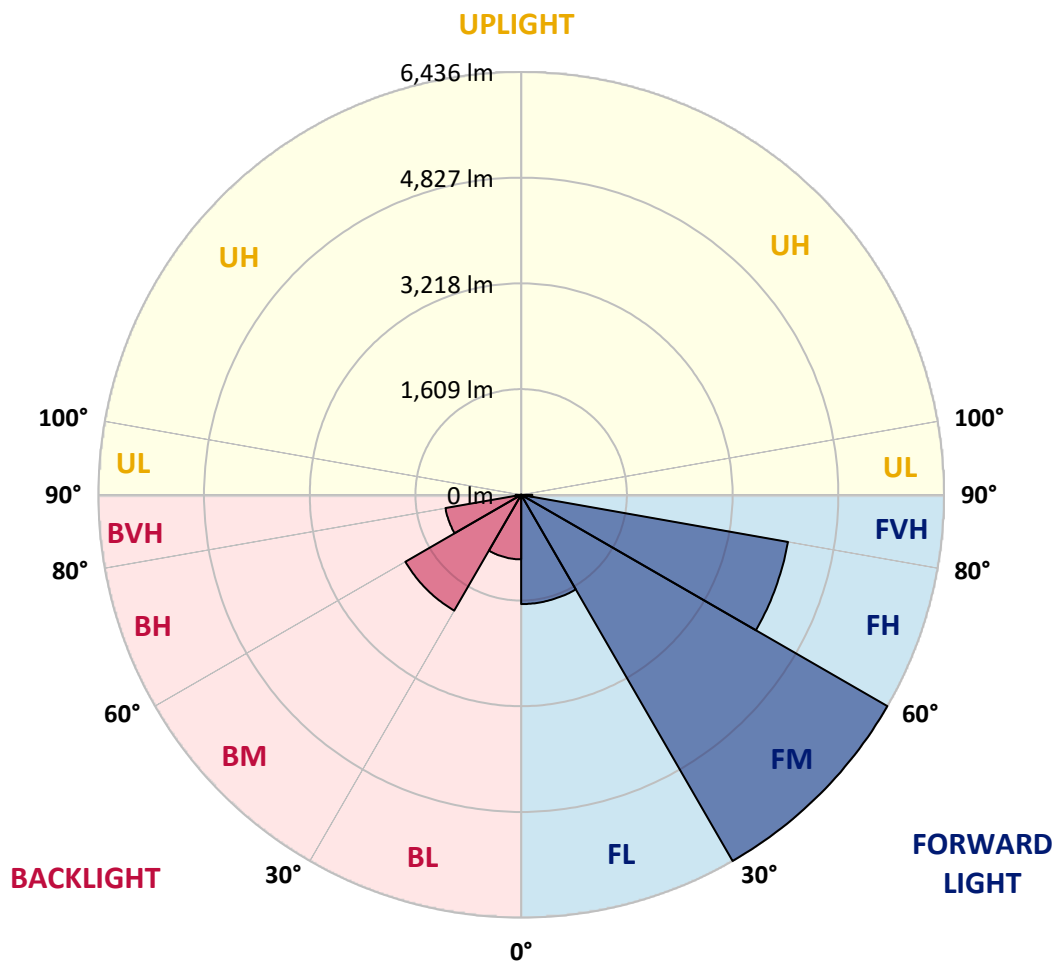
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.7	10.0			
FM (30°-60°)	6435.8	38.6			
FH (60°-80°)	4123.7	24.7			G2/5000
FVH (80°-90°)	169.4	1.0			G2/225
BL (0°-30°)	981.8	5.9	B2/1000		
BM (30°-60°)	2035.2	12.2	B2/2500		
BH (60°-80°)	1169.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	85.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8
2.5°	3234.4	3246.5	3232.9	3193.6	3173.9	3160.3	3119.4	3083.1	3054.4	3051.4	3024.1
5°	3358.5	3376.6	3353.9	3304.0	3284.3	3255.6	3210.2	3160.3	3108.8	3098.3	3043.8
7.5°	3515.8	3518.8	3506.7	3456.8	3415.9	3355.4	3276.8	3223.8	3164.8	3148.2	3061.9
10°	3648.9	3647.4	3632.3	3583.9	3543.0	3490.1	3379.6	3293.4	3223.8	3202.6	3083.1
12.5°	3776.0	3773.0	3757.8	3707.9	3656.5	3612.6	3529.4	3412.9	3319.1	3291.9	3143.6
15°	3933.3	3925.8	3901.6	3835.0	3794.2	3742.7	3682.2	3565.7	3458.3	3420.5	3231.4
17.5°	4054.4	4052.8	4034.7	3978.7	3930.3	3874.3	3818.4	3727.6	3611.1	3568.7	3317.6
20°	4123.9	4117.9	4113.4	4069.5	4057.4	4027.1	3946.9	3877.4	3760.9	3717.0	3414.4
22.5°	4198.1	4199.6	4201.1	4178.4	4213.2	4187.5	4128.5	4043.8	3925.8	3875.8	3550.6
25°	4214.7	4217.7	4248.0	4297.9	4340.3	4387.2	4344.8	4261.6	4134.5	4081.6	3736.7
27.5°	4167.8	4179.9	4270.7	4355.4	4505.2	4565.7	4558.1	4553.6	4423.5	4370.5	3992.3
30°	4210.2	4210.2	4272.2	4417.4	4606.5	4765.4	4800.2	4897.0	4857.7	4819.8	4422.0
32.5°	4083.1	4105.8	4216.2	4418.9	4718.5	4949.9	5107.3	5376.6	5532.4	5500.6	5030.1
35°	3844.1	3874.3	4036.2	4346.3	4774.5	5167.8	5449.2	5968.1	6269.1	6306.9	5762.3
37.5°	3659.5	3685.2	3887.9	4232.9	4795.6	5372.0	5844.0	6633.7	7022.5	7002.8	6382.6
40°	3434.1	3479.5	3683.7	4098.2	4745.7	5546.0	6272.1	7244.9	7722.9	7632.2	6972.6
42.5°	3231.4	3270.7	3441.7	3883.4	4676.1	5644.3	6659.4	7874.2	8293.3	8220.7	7530.8
45°	3016.6	3051.4	3210.2	3626.2	4514.3	5692.7	7022.5	8476.3	8840.9	8759.2	8048.2
47.5°	2770.0	2816.9	3006.0	3384.2	4276.7	5662.5	7287.3	8999.8	9361.3	9300.8	8476.3
50°	2148.2	2196.6	2691.3	3157.3	3946.9	5536.9	7524.8	9523.2	9831.8	9774.3	8854.5
52.5°	1950.0	1971.2	2125.5	2897.0	3603.5	5288.8	7673.0	9954.4	10290.2	10232.7	9211.6
55°	1829.0	1844.1	1930.4	2366.0	3311.6	4889.4	7691.2	10402.1	10676.0	10600.3	9591.3
57.5°	1704.9	1721.6	1816.9	2040.8	3018.1	4264.6	7499.0	10781.9	10989.1	10907.4	9954.4
60°	1600.6	1609.6	1703.4	1857.7	2686.8	3644.4	7004.4	11040.6	11278.1	11172.2	10309.9
62.5°	1505.3	1517.4	1585.4	1726.1	2408.4	3179.9	6314.5	11042.1	11436.9	11371.9	10489.9
65°	1381.2	1399.4	1465.9	1593.0	2183.0	2862.3	5600.5	10849.9	11465.7	11368.8	10480.8
67.5°	1237.5	1260.2	1320.7	1422.1	1883.5	2523.4	4605.0	10597.3	10904.4	10887.8	10048.1
70°	1093.8	1093.8	1161.8	1243.5	1562.7	2160.3	3638.3	9697.2	10048.1	10073.9	9272.1
72.5°	922.8	925.8	978.8	1049.9	1258.7	1773.0	2650.5	8290.3	9367.4	9055.7	8362.9
75°	774.6	771.5	826.0	885.0	1024.2	1396.3	1729.2	6090.6	8561.0	8630.6	7359.9
77.5°	411.5	396.4	465.9	512.8	600.6	776.1	959.1	3054.4	6199.5	6335.7	5892.4
80°	116.5	118.0	308.6	344.9	394.8	384.3	444.8	1164.9	2452.3	2763.9	3435.6
82.5°	69.6	80.2	175.5	205.7	154.3	99.8	169.4	647.5	1269.3	1422.1	1704.9
85°	36.3	39.3	62.0	77.2	59.0	49.9	51.4	272.3	617.2	627.8	680.8
87.5°	16.6	16.6	22.7	24.2	15.1	9.1	6.1	4.5	4.5	3.0	3.0
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°	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8
2.5°	3002.9	3018.1	2992.4	2972.7	2957.6	2948.5	2937.9	2912.2	2919.7	2930.3	2928.8
5°	3018.1	3025.6	2980.3	2918.2	2860.7	2819.9	2792.7	2751.8	2751.8	2768.5	2768.5
7.5°	3031.7	3021.1	2928.8	2824.4	2759.4	2726.1	2682.2	2638.4	2630.8	2642.9	2644.4
10°	3039.3	2993.9	2865.3	2768.5	2683.7	2615.7	2559.7	2509.8	2508.3	2524.9	2527.9
12.5°	3072.5	2984.8	2860.7	2727.6	2600.5	2527.9	2461.4	2405.4	2385.7	2387.2	2390.3
15°	3124.0	3021.1	2854.7	2671.6	2534.0	2437.2	2340.3	2269.2	2251.1	2275.3	2284.4
17.5°	3186.0	3080.1	2825.9	2620.2	2452.3	2335.8	2239.0	2175.4	2117.9	2092.2	2087.7
20°	3267.7	3130.0	2841.1	2544.6	2373.6	2217.8	2096.8	2019.6	1971.2	1968.2	1965.2
22.5°	3375.1	3186.0	2844.1	2494.6	2249.6	2087.7	1937.9	1894.0	1807.8	1776.0	1789.7
25°	3517.3	3270.7	2836.5	2441.7	2154.3	1936.4	1756.4	1676.2	1644.4	1608.1	1611.2
27.5°	3700.4	3405.4	2856.2	2372.1	1998.4	1751.8	1550.6	1464.4	1416.0	1385.7	1390.3
30°	4072.5	3609.6	2854.7	2305.5	1854.7	1561.2	1334.3	1276.8	1228.4	1201.2	1214.8
32.5°	4602.0	4052.8	2918.2	2216.3	1691.3	1305.6	1152.8	1087.7	1046.9	1016.6	1024.2
35°	5257.0	4535.4	3081.6	2095.3	1505.3	1110.4	1006.0	925.8	875.9	863.8	859.3
37.5°	5865.2	4962.0	3235.9	2015.1	1291.9	1003.0	871.4	791.2	747.3	762.5	762.5
40°	6408.3	5527.8	3409.9	1886.5	1098.3	880.5	721.6	685.3	662.6	688.3	697.4
42.5°	6818.3	6070.9	3645.9	1717.0	941.0	735.2	617.2	642.9	652.0	670.2	665.6
45°	7326.6	6381.1	3878.9	1559.7	803.3	612.7	596.1	649.0	670.2	686.8	679.3
47.5°	7794.0	6621.6	3832.0	1269.3	676.2	593.0	606.6	649.0	685.3	712.5	708.0
50°	8196.5	6922.7	3742.7	986.4	649.0	611.2	617.2	632.4	686.8	705.0	705.0
52.5°	8447.6	7220.7	3632.3	797.3	668.7	633.9	623.3	621.8	658.1	671.7	659.6
55°	8750.1	7529.3	3346.4	739.8	676.2	649.0	639.9	626.3	636.9	626.3	632.4
57.5°	9086.0	7833.4	2907.6	723.1	671.7	644.5	692.9	620.3	614.2	576.4	567.3
60°	9381.0	7952.9	2523.4	685.3	647.5	632.4	644.5	612.7	582.4	532.5	512.8
62.5°	9491.4	7942.3	2133.1	646.0	611.2	614.2	612.7	590.0	562.8	512.8	500.7
65°	9358.3	7700.3	1729.2	599.1	582.4	594.5	579.4	546.1	500.7	459.9	449.3
67.5°	8907.5	7083.0	1284.4	537.1	535.5	558.2	547.6	502.3	452.3	420.6	420.6
70°	8045.2	6323.6	832.1	446.3	479.6	518.9	518.9	470.5	405.4	378.2	385.8
72.5°	7101.2	5441.6	538.6	331.3	378.2	470.5	467.5	434.2	373.7	338.9	340.4
75°	6151.1	4317.6	347.9	228.4	245.1	400.9	414.5	354.0	290.5	248.1	240.5
77.5°	4676.1	3248.0	220.9	133.1	155.8	245.1	314.7	295.0	296.5	361.6	358.5
80°	2875.9	1957.6	160.4	65.1	77.2	160.4	254.2	281.4	394.8	260.2	239.0
82.5°	1440.2	915.3	84.7	39.3	43.9	71.1	151.3	337.4	287.4	172.5	163.4
85°	538.6	246.6	25.7	19.7	24.2	36.3	62.0	308.6	183.1	137.7	134.6
87.5°	3.0	4.5	4.5	6.1	9.1	10.6	22.7	146.7	92.3	66.6	63.5
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)