

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: P509492

Luminaire Tested: **VERD-G-CA2-110-727-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-110-727-U-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12778 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

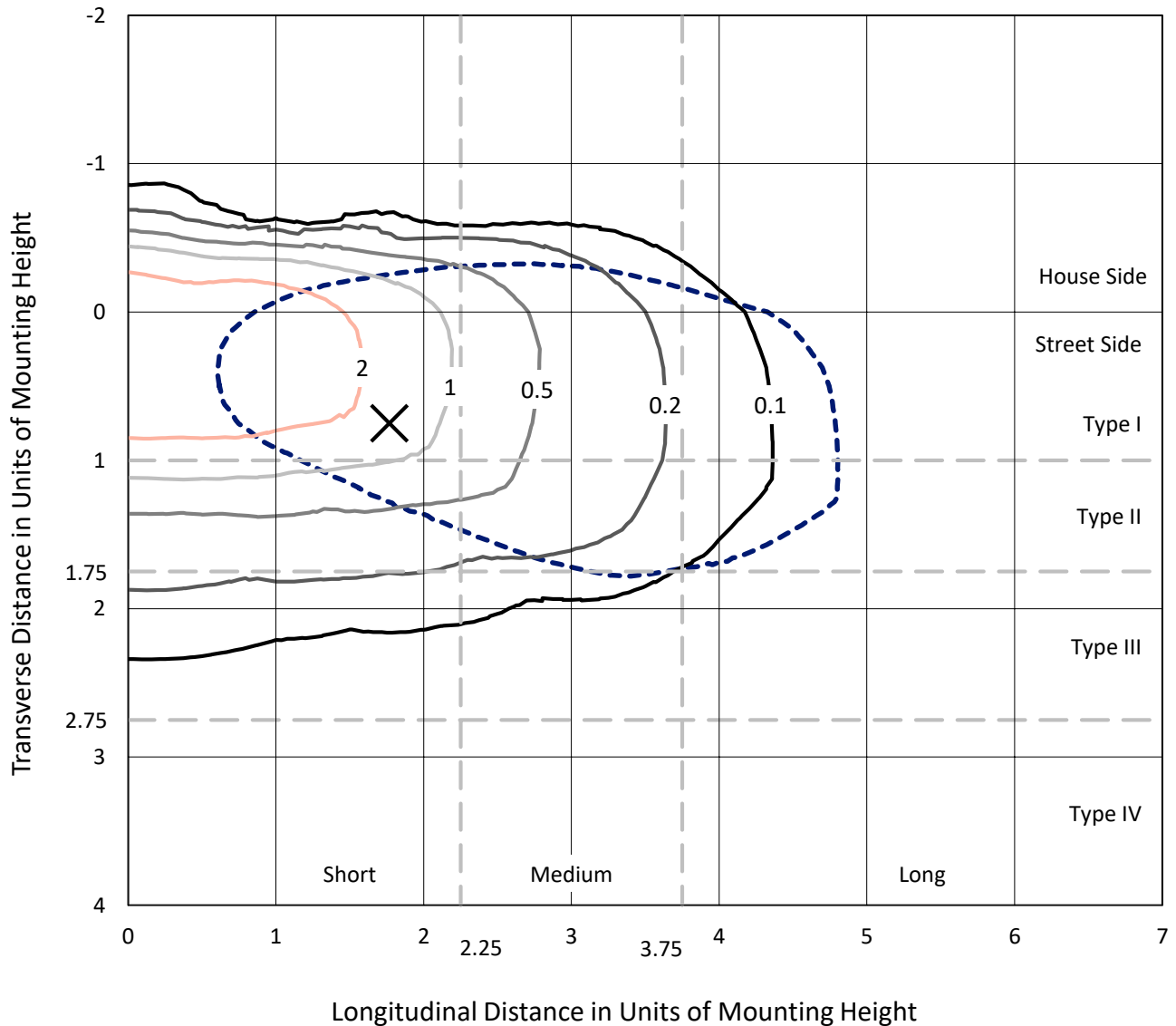
Input Watts (W): 113.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

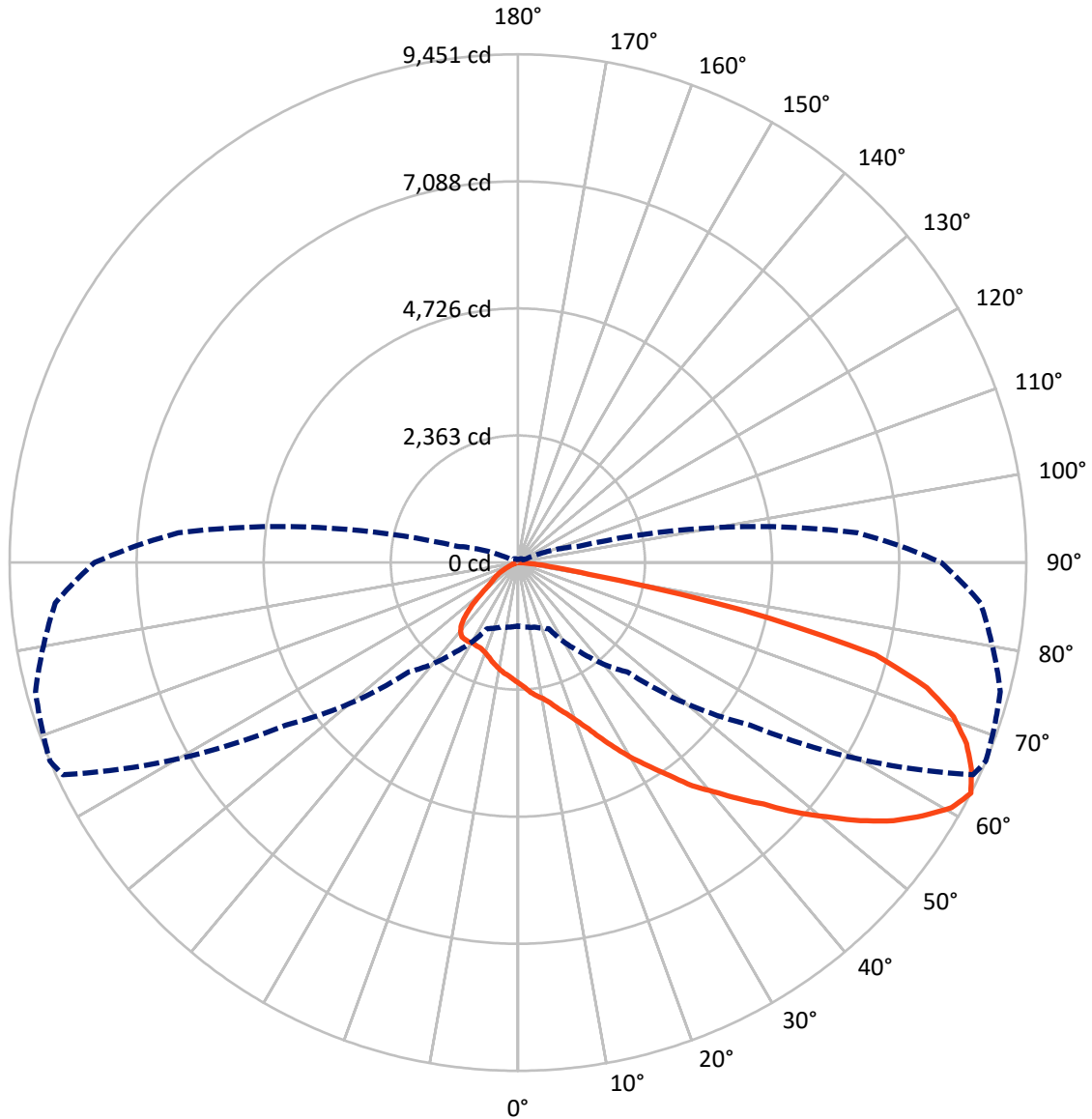
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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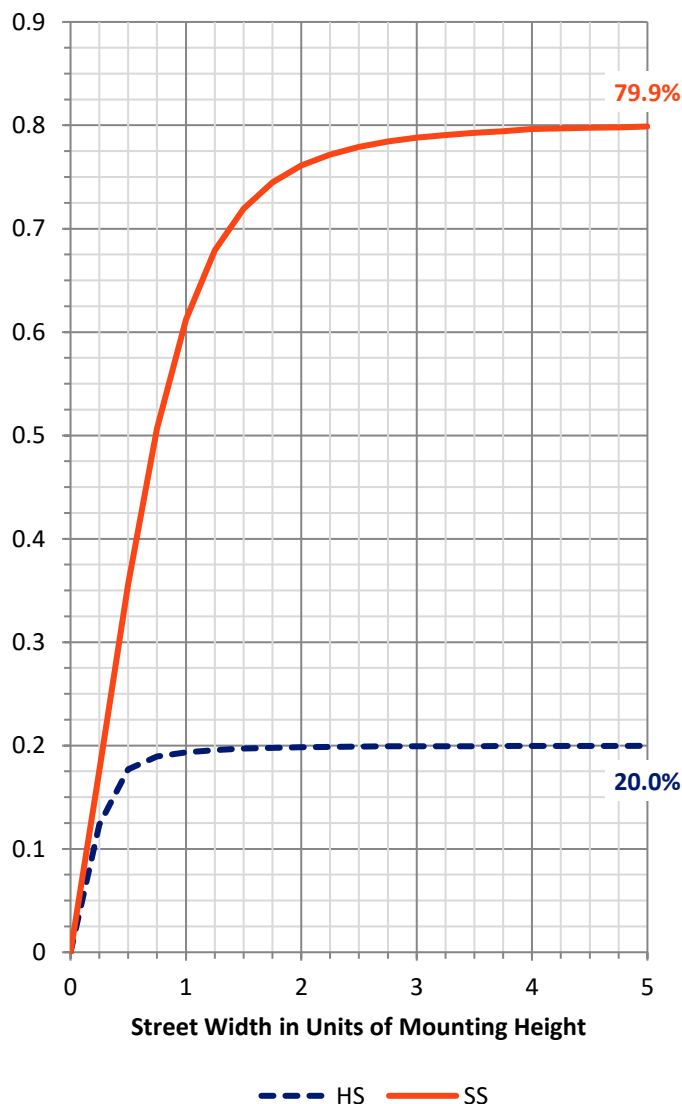
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2582.1	0.0	2582.1
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	10195.9	0.0	10195.9
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	12778.0	0.0	12778.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.9	1.7
10°-20°	654.3	5.1
20°-30°	1116.0	8.7
30°-40°	1635.0	12.8
40°-50°	2157.7	16.9
50°-60°	2539.3	19.9
60°-70°	2611.7	20.4
70°-80°	1692.1	13.2
80°-90°	154.9	1.2
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°	12778.0	100.0
0°-180°	12778.0	100.0

**Coefficient of Utilization**



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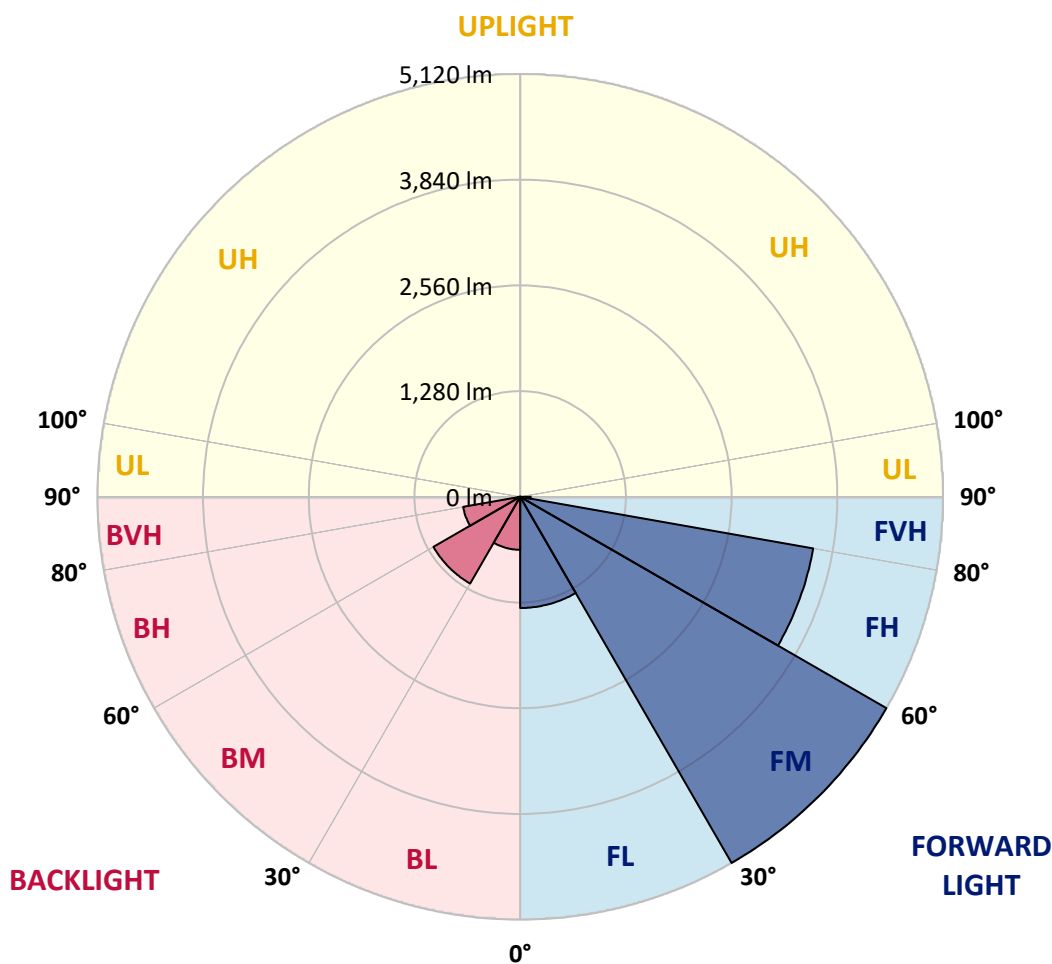
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1345.5	10.5			
FM (30°-60°)	5119.5	40.1			
FH (60°-80°)	3602.7	28.2			G2/5000
FVH (80°-90°)	128.1	1.0			G2/225
BL (0°-30°)	641.8	5.0	B2/1000		
BM (30°-60°)	1212.6	9.5	B2/2500		
BH (60°-80°)	701.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	26.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2
2.5°	2490.0	2487.3	2460.6	2435.7	2419.2	2418.2	2375.0	2336.3	2318.8	2298.6	2253.5
5°	2618.9	2641.0	2611.6	2574.7	2545.3	2523.2	2485.4	2441.3	2422.8	2375.0	2306.9
7.5°	2805.8	2805.8	2778.2	2746.9	2712.8	2653.9	2589.5	2512.1	2502.9	2449.5	2360.3
10°	2896.0	2918.1	2882.2	2845.4	2807.6	2777.3	2689.8	2595.0	2572.0	2491.9	2381.4
12.5°	3022.1	3022.1	3002.8	2971.5	2928.2	2867.5	2811.3	2715.6	2676.9	2557.2	2419.2
15°	3140.9	3130.7	3114.2	3062.6	3040.5	3002.8	2929.1	2828.8	2821.4	2688.9	2477.2
17.5°	3233.8	3217.3	3201.6	3174.0	3147.3	3132.6	3080.1	2992.7	2962.3	2840.8	2586.7
20°	3281.7	3295.5	3257.8	3256.9	3265.1	3254.1	3219.1	3153.8	3140.9	2996.3	2698.1
22.5°	3336.0	3354.4	3345.2	3354.4	3379.3	3397.7	3395.9	3382.0	3361.8	3204.4	2877.6
25°	3348.0	3336.0	3374.7	3460.3	3522.9	3567.1	3653.6	3636.1	3630.6	3491.6	3121.5
27.5°	3311.2	3322.2	3383.0	3506.3	3667.4	3788.0	3858.9	3946.3	3927.0	3819.3	3415.2
30°	3289.1	3308.4	3388.5	3533.0	3749.3	3967.5	4107.4	4216.1	4232.6	4147.0	3704.2
32.5°	3212.7	3238.4	3321.3	3554.2	3829.4	4159.9	4333.9	4536.4	4529.0	4494.1	4055.9
35°	3094.8	3128.9	3255.9	3526.6	3919.6	4333.0	4564.0	4858.6	4864.1	4878.8	4390.0
37.5°	3000.0	3011.1	3155.6	3444.6	3955.5	4472.9	4778.5	5177.1	5266.4	5245.2	4769.3
40°	2848.1	2881.3	3037.8	3344.3	3951.9	4567.7	4996.7	5549.9	5597.8	5664.1	5166.0
42.5°	2661.3	2697.2	2847.2	3208.1	3900.3	4650.5	5206.5	5930.1	5997.3	6101.3	5529.7
45°	2481.8	2497.4	2638.3	3009.2	3800.0	4715.9	5410.9	6304.7	6407.8	6557.0	5896.0
47.5°	2258.1	2300.4	2457.8	2801.2	3578.1	4739.8	5561.9	6746.6	6936.2	7027.4	6314.0
50°	1737.1	1763.7	2205.6	2618.0	3336.9	4665.3	5758.0	7307.2	7426.9	7521.7	6737.4
52.5°	1530.9	1554.8	1726.0	2406.3	3068.1	4472.0	5877.6	7828.2	7972.8	7952.5	7162.7
55°	1444.3	1456.3	1529.9	1963.5	2823.3	4113.0	5961.4	8397.1	8475.4	8344.7	7584.3
57.5°	1344.0	1357.8	1413.0	1645.9	2547.1	3658.2	5891.4	8852.8	8882.2	8720.2	7959.9
60°	1254.7	1263.9	1346.7	1472.9	2247.0	3217.3	5714.7	9180.5	9262.4	8996.4	8364.9
62.5°	1178.3	1200.4	1243.6	1355.0	2037.1	2875.8	5267.3	9335.2	9451.1	9285.4	8633.7
65°	1102.8	1112.9	1162.6	1261.1	1811.6	2674.2	5011.4	9131.7	9267.0	9324.1	8799.4
67.5°	999.7	1014.4	1063.2	1134.1	1511.5	2478.1	4414.0	8801.2	8994.6	9120.7	8700.9
70°	879.1	892.0	941.7	1000.6	1262.1	2189.0	3725.4	8464.3	8591.4	8599.6	8260.9
72.5°	739.2	751.2	800.9	859.8	1047.6	1822.7	2919.9	7666.2	7950.7	8131.1	7522.6
75°	470.4	521.9	645.3	711.6	862.5	1474.7	2083.2	6120.6	6868.1	7383.6	6510.0
77.5°	76.4	85.6	253.1	360.8	501.7	999.7	1157.1	3391.3	4265.8	6170.3	5256.3
80°	58.0	65.4	92.1	244.9	322.2	622.3	455.7	1101.0	1327.4	2885.0	2944.8
82.5°	24.9	29.5	55.2	137.2	151.9	165.7	122.4	492.5	582.7	877.3	1021.8
85°	8.3	11.0	25.8	43.3	47.9	36.8	26.7	195.2	240.3	420.7	389.4
87.5°	0.0	0.9	5.5	6.4	5.5	3.7	2.8	1.8	1.8	2.8	2.8
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°	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2
2.5°	2244.3	2213.0	2209.3	2171.5	2137.5	2098.8	2074.9	2066.6	2077.6	2088.7	2099.7
5°	2271.9	2224.0	2176.1	2097.9	2062.9	2020.6	1964.4	1930.4	1914.7	1928.5	1933.1
7.5°	2292.1	2230.5	2156.8	2050.0	1974.5	1893.5	1840.2	1783.1	1751.8	1757.3	1761.9
10°	2295.8	2227.7	2102.5	1999.4	1877.9	1766.5	1696.5	1669.9	1648.7	1630.3	1633.0
12.5°	2329.9	2229.5	2056.5	1931.3	1803.3	1659.7	1581.5	1547.4	1543.7	1506.0	1502.3
15°	2375.9	2270.0	2032.5	1869.6	1705.8	1570.4	1477.5	1416.7	1418.5	1399.2	1396.5
17.5°	2450.5	2309.6	2015.1	1797.8	1603.6	1479.3	1361.5	1306.2	1288.7	1283.2	1278.6
20°	2534.2	2367.6	1993.9	1734.3	1514.3	1369.8	1238.1	1182.0	1133.2	1118.5	1120.3
22.5°	2657.6	2444.0	2011.4	1686.4	1414.9	1263.0	1132.3	1022.7	938.9	916.9	914.1
25°	2875.8	2595.0	2063.8	1645.0	1353.2	1159.0	983.1	829.4	718.9	695.0	696.8
27.5°	3118.8	2793.8	2136.6	1627.5	1274.9	1043.9	801.8	630.6	527.5	499.9	501.7
30°	3406.9	3030.4	2247.0	1578.7	1191.2	876.3	597.4	462.1	382.0	349.8	351.6
32.5°	3684.0	3267.0	2388.8	1571.4	1086.2	658.2	431.7	336.0	270.6	246.7	249.5
35°	3989.6	3537.6	2537.9	1534.5	914.1	472.2	302.9	232.9	197.9	190.6	189.6
37.5°	4335.7	3778.8	2648.4	1500.5	684.0	332.3	207.1	179.5	174.9	164.8	164.8
40°	4657.0	4030.1	2731.2	1410.3	478.7	225.5	162.0	162.9	158.3	144.5	141.8
42.5°	4953.4	4289.7	2807.6	1265.7	324.0	153.7	145.4	148.2	150.0	134.4	130.7
45°	5289.4	4610.0	2791.1	1048.5	206.2	139.0	130.7	139.0	148.2	132.6	128.9
47.5°	5657.6	4844.8	2826.0	756.7	145.4	131.6	121.5	132.6	139.9	129.8	124.3
50°	6073.7	5152.2	2720.2	440.0	133.5	124.3	116.9	121.5	132.6	127.0	120.6
52.5°	6454.8	5426.6	2575.7	215.4	126.1	116.9	109.5	113.2	124.3	117.8	119.7
55°	6776.1	5711.9	2282.0	153.7	121.5	108.6	105.9	106.8	113.2	104.9	110.5
57.5°	7170.1	5946.7	1983.8	143.6	117.8	103.1	104.0	96.7	98.5	93.9	88.4
60°	7520.8	6168.5	1578.7	132.6	112.3	105.9	93.9	83.8	78.2	75.5	74.6
62.5°	7871.5	6337.0	1163.6	120.6	106.8	95.7	82.8	71.8	62.6	58.9	58.0
65°	8004.1	6427.2	794.4	110.5	100.3	87.5	73.6	58.0	47.9	44.2	41.4
67.5°	7905.6	6144.6	460.3	99.4	96.7	80.1	64.4	46.9	36.8	34.1	32.2
70°	7449.0	5700.9	245.8	90.2	84.7	70.9	57.1	38.7	29.5	25.8	24.9
72.5°	6663.8	4902.8	128.9	75.5	70.9	58.0	45.1	32.2	23.9	19.3	18.4
75°	5658.5	3848.8	90.2	55.2	48.8	45.1	34.1	25.8	19.3	14.7	13.8
77.5°	4466.4	2501.1	68.1	35.9	28.5	29.5	24.9	21.2	15.6	11.0	11.0
80°	2306.9	1299.8	51.5	23.9	16.6	17.5	17.5	15.6	12.0	8.3	8.3
82.5°	915.0	478.7	35.9	13.8	10.1	11.0	10.1	10.1	8.3	5.5	5.5
85°	301.9	104.9	12.9	8.3	6.4	6.4	5.5	4.6	2.8	1.8	1.8
87.5°	2.8	2.8	3.7	4.6	4.6	3.7	2.8	0.9	0.0	0.0	0.0
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)