

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: P509468

Luminaire Tested: **VERD-G-CA2-100-750-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509468  
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-CA2-100-750-U-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 930mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14136 lumens  
Efficiency: N/A  
Efficacy: 137.8 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

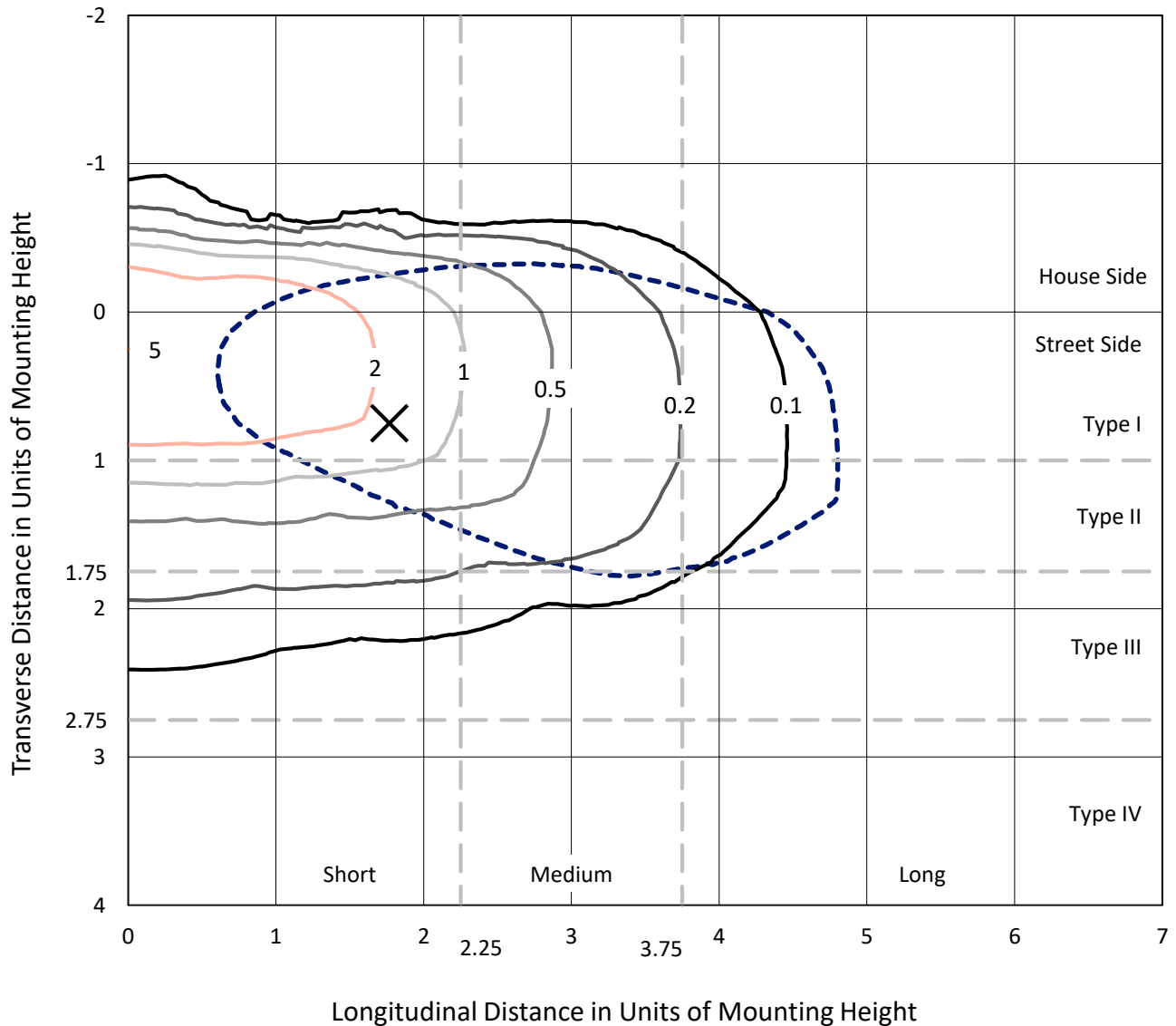
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

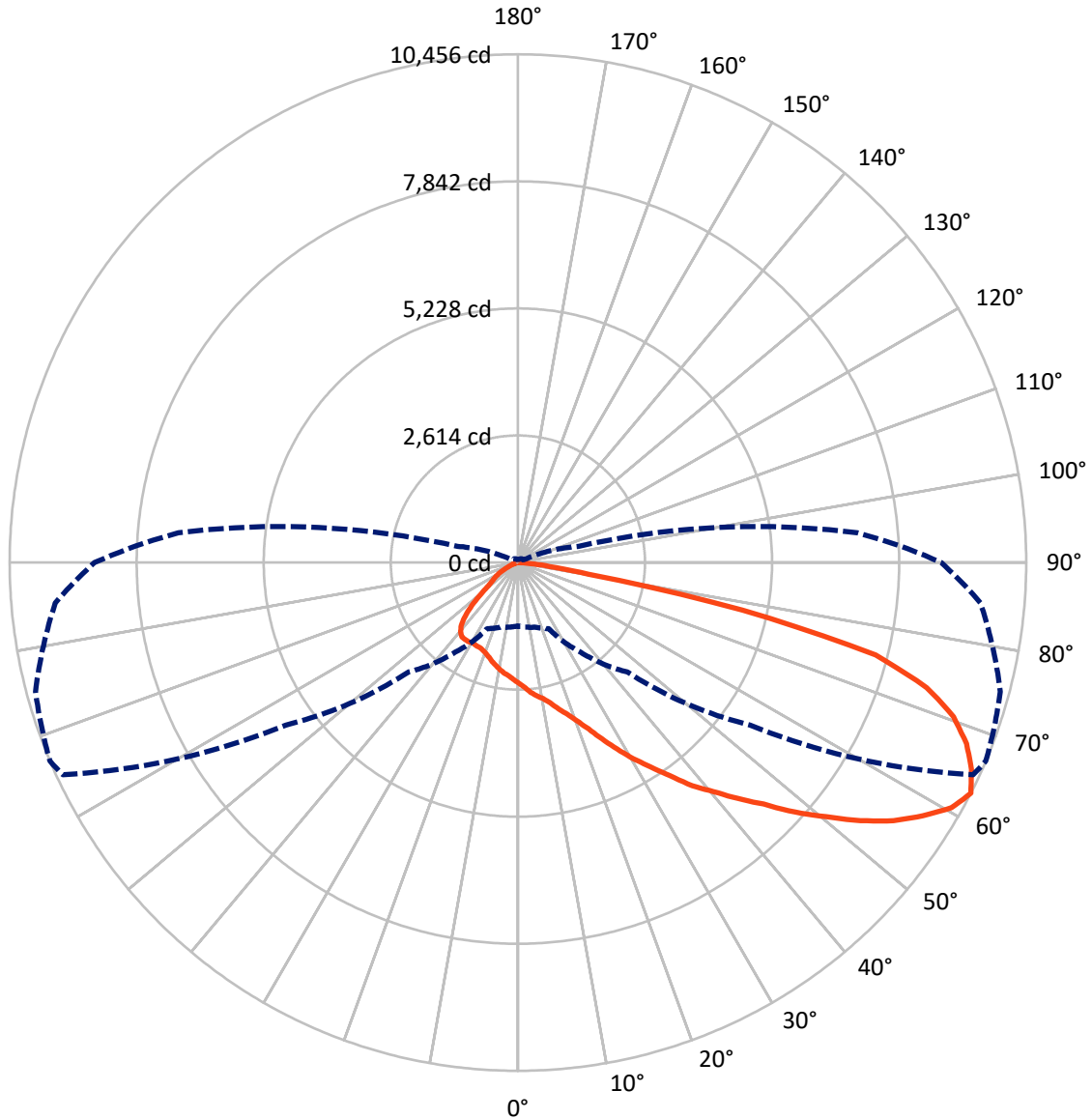
✕ Max cd  
 - - - 1/2 Max cd



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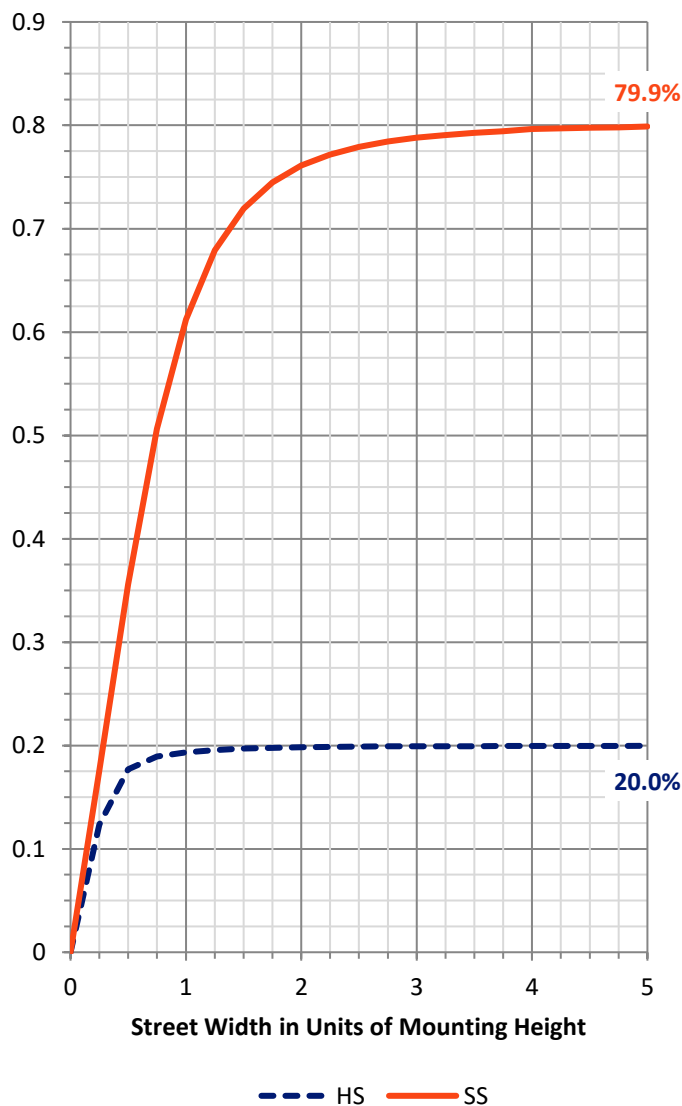
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2856.6	0.0	2856.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	11279.4	0.0	11279.4
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	14136.0	0.0	14136.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.0	1.7
10°-20°	723.8	5.1
20°-30°	1234.7	8.7
30°-40°	1808.8	12.8
40°-50°	2387.1	16.9
50°-60°	2809.2	19.9
60°-70°	2889.3	20.4
70°-80°	1871.9	13.2
80°-90°	171.3	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°	14136.0	100.0
0°-180°	14136.0	100.0

**Coefficient of Utilization**



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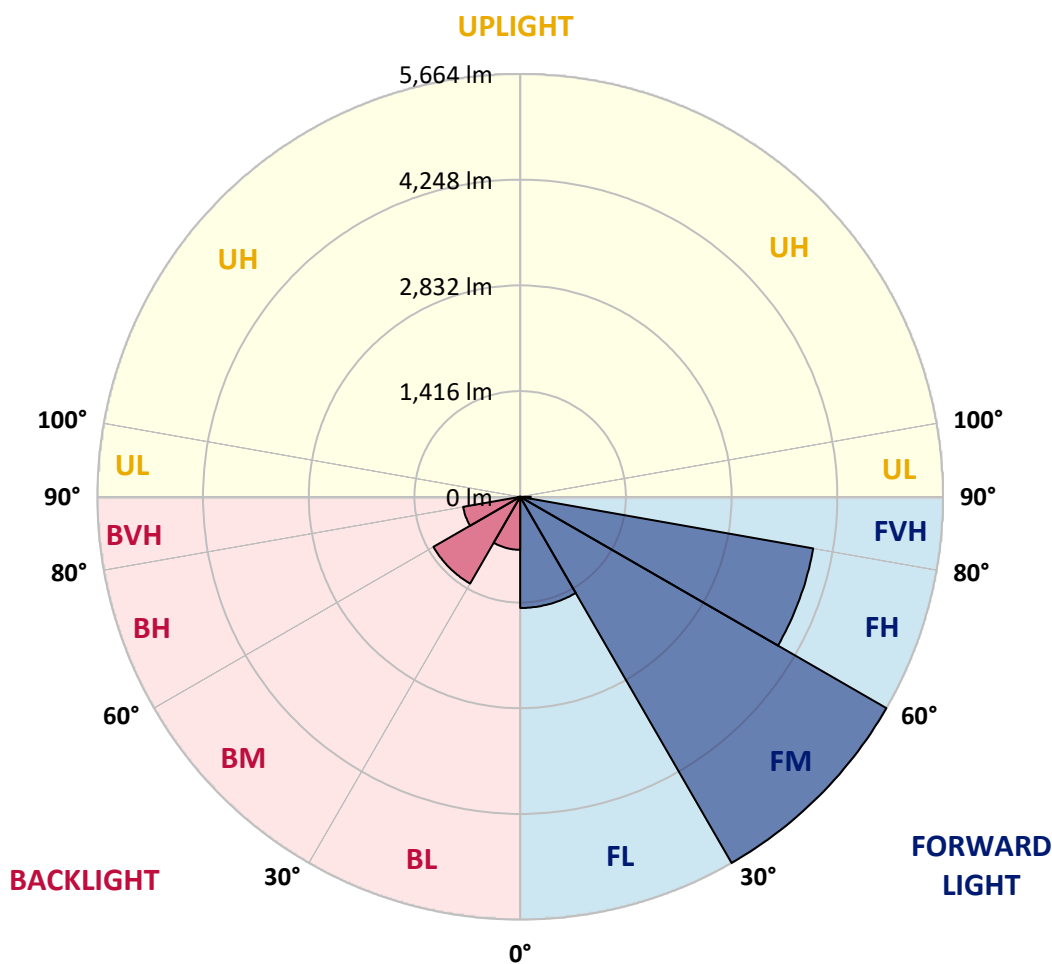
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.5	10.5			
FM (30°-60°)	5663.6	40.1			
FH (60°-80°)	3985.6	28.2			G2/5000
FVH (80°-90°)	141.7	1.0			G2/225
BL (0°-30°)	710.0	5.0	B2/1000		
BM (30°-60°)	1341.4	9.5	B2/2500		
BH (60°-80°)	775.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	29.6	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°	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
2.5°	2754.7	2751.6	2722.1	2694.6	2676.3	2675.2	2627.4	2584.6	2565.3	2542.9	2493.0
5°	2897.3	2921.7	2889.1	2848.4	2815.8	2791.3	2749.6	2700.7	2680.3	2627.4	2552.0
7.5°	3104.0	3104.0	3073.4	3038.8	3001.1	2936.0	2864.7	2779.1	2768.9	2709.9	2611.1
10°	3203.8	3228.2	3188.5	3147.8	3106.0	3072.4	2975.7	2870.8	2845.3	2756.7	2634.5
12.5°	3343.3	3343.3	3321.9	3287.3	3239.4	3172.2	3110.1	3004.2	2961.4	2829.0	2676.3
15°	3474.7	3463.5	3445.1	3388.1	3363.7	3321.9	3240.4	3129.4	3121.3	2974.6	2740.4
17.5°	3577.5	3559.2	3541.9	3511.3	3481.8	3465.5	3407.5	3310.7	3277.1	3142.7	2861.6
20°	3630.5	3645.8	3604.0	3603.0	3612.1	3599.9	3561.2	3488.9	3474.7	3314.8	2984.8
22.5°	3690.6	3710.9	3700.7	3710.9	3738.4	3758.8	3756.8	3741.5	3719.1	3544.9	3183.4
25°	3703.8	3690.6	3733.3	3828.0	3897.3	3946.2	4041.9	4022.5	4016.4	3862.7	3453.3
27.5°	3663.1	3675.3	3742.5	3879.0	4057.2	4190.6	4269.0	4365.7	4344.4	4225.2	3778.1
30°	3638.6	3660.0	3748.6	3908.5	4147.8	4389.2	4544.0	4664.1	4682.5	4587.7	4097.9
32.5°	3554.1	3582.6	3674.3	3931.9	4236.4	4602.0	4794.5	5018.5	5010.4	4971.7	4486.9
35°	3423.7	3461.4	3602.0	3901.4	4336.2	4793.5	5049.1	5374.9	5381.1	5397.3	4856.6
37.5°	3318.9	3331.1	3491.0	3810.7	4375.9	4948.2	5286.3	5727.3	5826.1	5802.7	5276.2
40°	3150.8	3187.5	3360.6	3699.7	4371.8	5053.1	5527.7	6139.7	6192.7	6266.0	5715.1
42.5°	2944.1	2983.8	3149.8	3549.0	4314.8	5144.8	5759.9	6560.3	6634.7	6749.7	6117.3
45°	2745.5	2762.8	2918.6	3329.0	4203.8	5217.1	5986.0	6974.8	7088.9	7253.8	6522.6
47.5°	2498.1	2544.9	2719.0	3098.9	3958.4	5243.6	6153.0	7463.6	7673.4	7774.2	6985.0
50°	1921.7	1951.2	2440.0	2896.2	3691.6	5161.1	6369.9	8083.8	8216.2	8321.1	7453.4
52.5°	1693.5	1720.0	1909.4	2662.0	3394.2	4947.2	6502.3	8660.2	8820.1	8797.7	7923.9
55°	1597.8	1611.1	1692.5	2172.2	3123.3	4550.1	6594.9	9289.5	9376.1	9231.5	8390.3
57.5°	1486.8	1502.1	1563.2	1820.8	2817.8	4047.0	6517.5	9793.6	9826.2	9647.0	8805.8
60°	1388.0	1398.2	1489.9	1629.4	2485.8	3559.2	6322.0	10156.2	10246.8	9952.5	9253.9
62.5°	1303.5	1328.0	1375.8	1499.0	2253.6	3181.4	5827.1	10327.3	10455.6	10272.3	9551.3
65°	1220.0	1231.2	1286.2	1395.2	2004.1	2958.4	5544.0	10102.2	10251.9	10315.0	9734.6
67.5°	1105.9	1122.2	1176.2	1254.6	1672.2	2741.4	4883.1	9736.6	9950.5	10090.0	9625.6
70°	972.5	986.8	1041.8	1107.0	1396.2	2421.7	4121.3	9363.9	9504.4	9513.6	9138.8
72.5°	817.7	831.0	886.0	951.2	1158.9	2016.4	3230.3	8481.0	8795.6	8995.2	8322.1
75°	520.4	577.4	713.9	787.2	954.2	1631.4	2304.6	6771.1	7598.0	8168.3	7201.9
77.5°	84.5	94.7	280.1	399.2	555.0	1105.9	1280.1	3751.7	4719.1	6826.1	5814.9
80°	64.2	72.3	101.8	270.9	356.4	688.4	504.1	1218.0	1468.5	3191.6	3257.8
82.5°	27.5	32.6	61.1	151.7	168.0	183.3	135.4	544.8	644.6	970.5	1130.4
85°	9.2	12.2	28.5	47.9	53.0	40.7	29.5	215.9	265.8	465.4	430.8
87.5°	0.0	1.0	6.1	7.1	6.1	4.1	3.1	2.0	2.0	3.1	3.1
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°	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
2.5°	2482.8	2448.2	2444.1	2402.3	2364.6	2321.9	2295.4	2286.2	2298.5	2310.7	2322.9
5°	2513.3	2460.4	2407.4	2320.9	2282.2	2235.3	2173.2	2135.5	2118.2	2133.5	2138.6
7.5°	2535.7	2467.5	2386.0	2267.9	2184.4	2094.8	2035.7	1972.6	1938.0	1944.1	1949.2
10°	2539.8	2464.4	2325.9	2211.9	2077.5	1954.2	1876.9	1847.3	1823.9	1803.5	1806.6
12.5°	2577.5	2466.5	2275.0	2136.5	1995.0	1836.1	1749.6	1711.9	1707.8	1666.0	1662.0
15°	2628.4	2511.3	2248.6	2068.3	1887.0	1737.3	1634.5	1567.3	1569.3	1547.9	1544.9
17.5°	2710.9	2555.1	2229.2	1988.9	1774.0	1636.5	1506.2	1445.1	1425.7	1419.6	1414.5
20°	2803.6	2619.2	2205.8	1918.6	1675.2	1515.3	1369.7	1307.6	1253.6	1237.3	1239.4
22.5°	2940.0	2703.8	2225.1	1865.6	1565.2	1397.2	1252.6	1131.4	1038.7	1014.3	1011.2
25°	3181.4	2870.8	2283.2	1819.8	1497.0	1282.1	1087.6	917.5	795.3	768.9	770.9
27.5°	3450.2	3090.7	2363.6	1800.5	1410.4	1154.8	887.0	697.6	583.5	553.0	555.0
30°	3769.0	3352.5	2485.8	1746.5	1317.8	969.5	660.9	511.2	422.6	387.0	389.0
32.5°	4075.5	3614.2	2642.7	1738.4	1201.7	728.1	477.6	371.7	299.4	272.9	276.0
35°	4413.6	3913.6	2807.6	1697.6	1011.2	522.4	335.0	257.6	218.9	210.8	209.8
37.5°	4796.5	4180.4	2929.8	1659.9	756.6	367.6	229.1	198.6	193.5	182.3	182.3
40°	5151.9	4458.4	3021.5	1560.1	529.6	249.5	179.2	180.3	175.2	159.9	156.8
42.5°	5479.8	4745.6	3106.0	1400.3	358.5	170.1	160.9	164.0	166.0	148.7	144.6
45°	5851.5	5100.0	3087.7	1159.9	228.1	153.8	144.6	153.8	164.0	146.6	142.6
47.5°	6258.9	5359.7	3126.4	837.1	160.9	145.6	134.4	146.6	154.8	143.6	137.5
50°	6719.2	5699.8	3009.3	486.8	147.7	137.5	129.3	134.4	146.6	140.5	133.4
52.5°	7140.8	6003.3	2849.4	238.3	139.5	129.3	121.2	125.3	137.5	130.4	132.4
55°	7496.2	6319.0	2524.5	170.1	134.4	120.2	117.1	118.1	125.3	116.1	122.2
57.5°	7932.1	6578.6	2194.6	158.9	130.4	114.1	115.1	106.9	109.0	103.9	97.8
60°	8320.1	6824.1	1746.5	146.6	124.2	117.1	103.9	92.7	86.6	83.5	82.5
62.5°	8708.1	7010.4	1287.2	133.4	118.1	105.9	91.7	79.4	69.2	65.2	64.2
65°	8854.7	7110.2	878.9	122.2	111.0	96.7	81.5	64.2	53.0	48.9	45.8
67.5°	8745.7	6797.6	509.2	110.0	106.9	88.6	71.3	51.9	40.7	37.7	35.6
70°	8240.6	6306.7	271.9	99.8	93.7	78.4	63.1	42.8	32.6	28.5	27.5
72.5°	7372.0	5423.8	142.6	83.5	78.4	64.2	49.9	35.6	26.5	21.4	20.4
75°	6259.9	4257.8	99.8	61.1	54.0	49.9	37.7	28.5	21.4	16.3	15.3
77.5°	4941.1	2766.9	75.4	39.7	31.6	32.6	27.5	23.4	17.3	12.2	12.2
80°	2552.0	1437.9	57.0	26.5	18.3	19.3	19.3	17.3	13.2	9.2	9.2
82.5°	1012.3	529.6	39.7	15.3	11.2	12.2	11.2	11.2	9.2	6.1	6.1
85°	334.0	116.1	14.3	9.2	7.1	7.1	6.1	5.1	3.1	2.0	2.0
87.5°	3.1	3.1	4.1	5.1	5.1	4.1	3.1	1.0	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)