

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: P509452

Luminaire Tested: **VERD-G-CA2-100-730-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509452  
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-CA2-100-730-U-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 930mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13630 lumens  
Efficiency: N/A  
Efficacy: 132.8 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

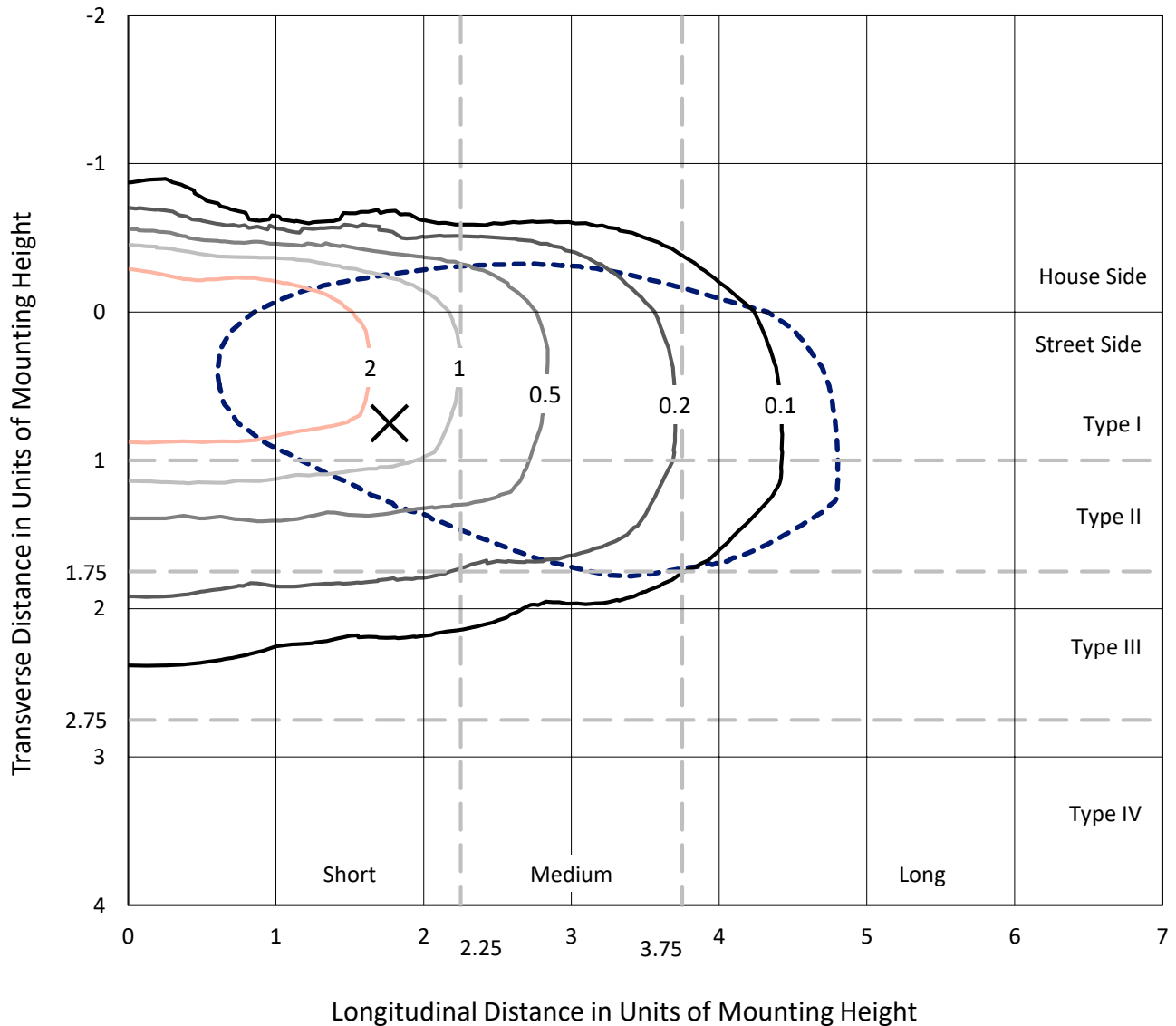
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

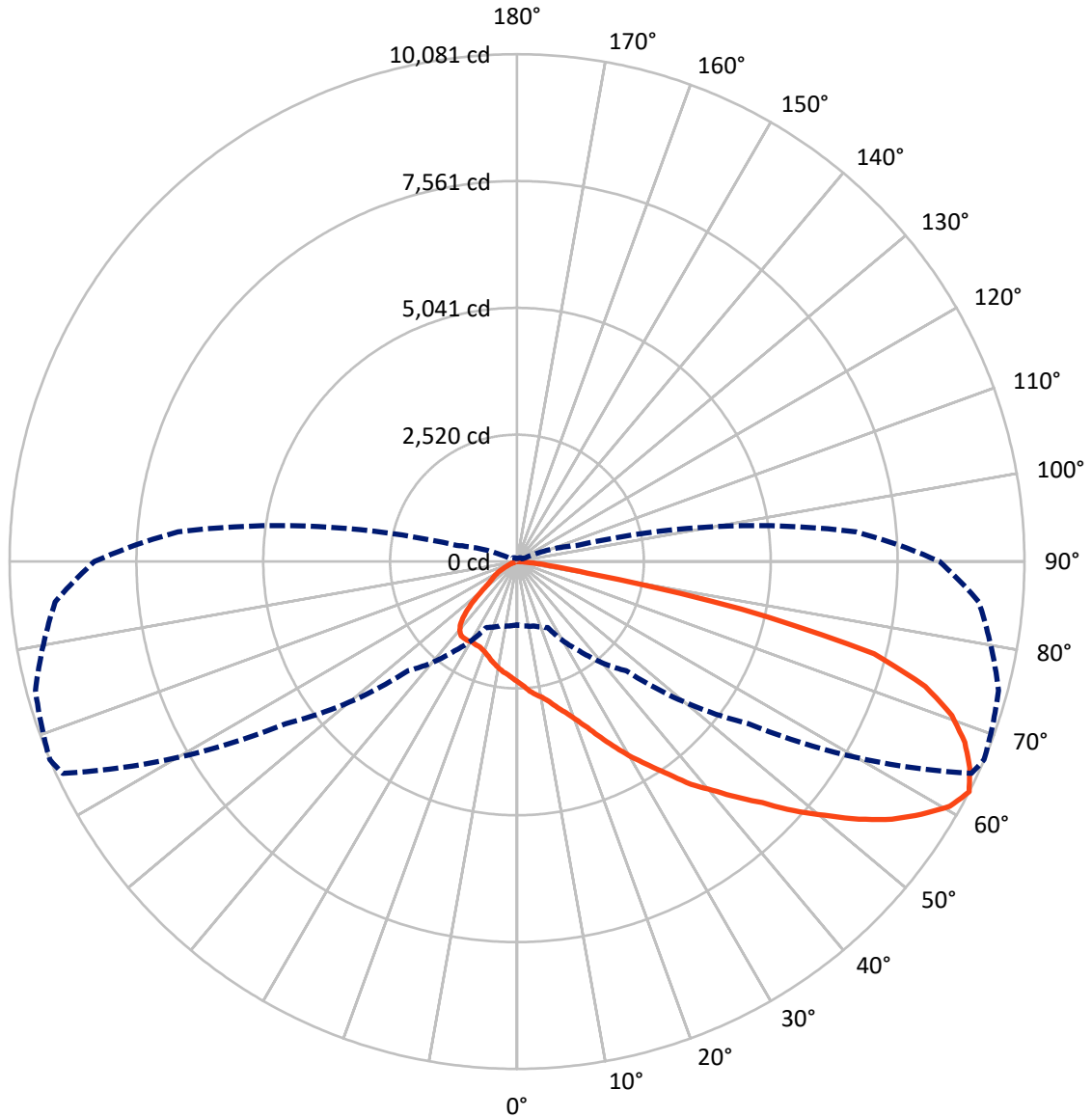
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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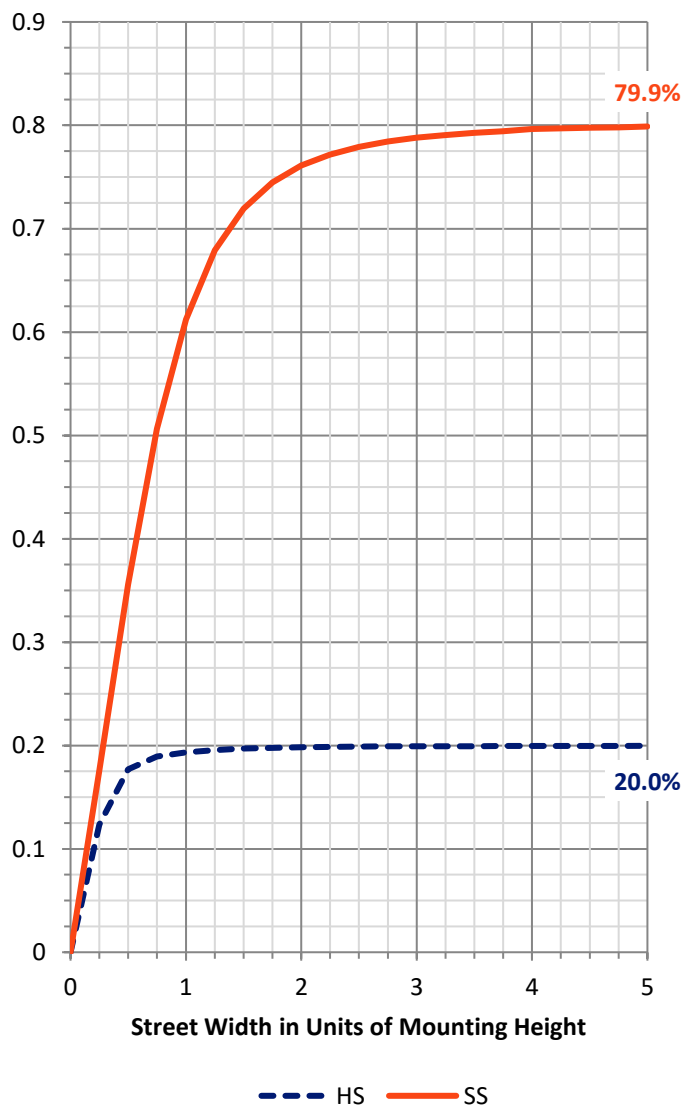
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2754.3	0.0	2754.3
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	10875.7	0.0	10875.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	13630.0	0.0	13630.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.4	1.7
10°-20°	697.9	5.1
20°-30°	1190.5	8.7
30°-40°	1744.0	12.8
40°-50°	2301.6	16.9
50°-60°	2708.6	19.9
60°-70°	2785.8	20.4
70°-80°	1804.9	13.2
80°-90°	165.2	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°	13630.0	100.0
0°-180°	13630.0	100.0

**Coefficient of Utilization**



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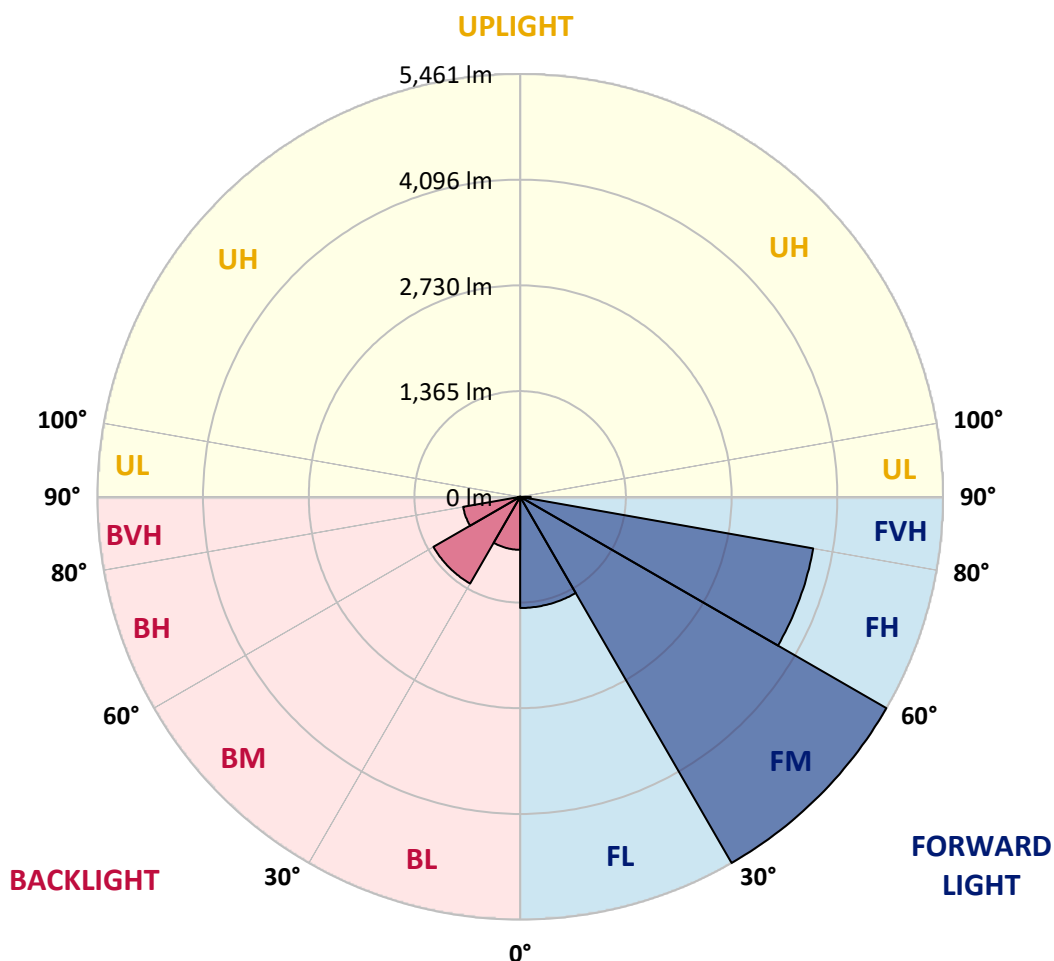
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.2	10.5			
FM (30°-60°)	5460.9	40.1			
FH (60°-80°)	3842.9	28.2			G2/5000
FVH (80°-90°)	136.6	1.0			G2/225
BL (0°-30°)	684.5	5.0	B2/1000		
BM (30°-60°)	1293.4	9.5	B2/2500		
BH (60°-80°)	747.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	28.6	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°	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9
2.5°	2656.1	2653.1	2624.7	2598.1	2580.5	2579.5	2533.3	2492.1	2473.4	2451.8	2403.7
5°	2793.5	2817.1	2785.7	2746.4	2715.0	2691.4	2651.2	2604.0	2584.4	2533.3	2460.7
7.5°	2992.9	2992.9	2963.4	2930.0	2893.7	2830.9	2762.1	2679.6	2669.8	2612.9	2517.6
10°	3089.1	3112.7	3074.4	3035.1	2994.8	2962.4	2869.2	2768.0	2743.5	2658.0	2540.2
12.5°	3223.6	3223.6	3203.0	3169.6	3123.5	3058.7	2998.8	2896.6	2855.4	2727.8	2580.5
15°	3350.3	3339.5	3321.8	3266.8	3243.3	3203.0	3124.5	3017.4	3009.6	2868.2	2642.3
17.5°	3449.5	3431.8	3415.1	3385.6	3357.2	3341.5	3285.5	3192.2	3159.8	3030.2	2759.2
20°	3500.5	3515.3	3475.0	3474.0	3482.8	3471.1	3433.8	3364.0	3350.3	3196.1	2878.0
22.5°	3558.5	3578.1	3568.3	3578.1	3604.6	3624.2	3622.3	3607.6	3586.0	3418.0	3069.5
25°	3571.2	3558.5	3599.7	3691.0	3757.8	3804.9	3897.2	3878.6	3872.7	3724.4	3329.7
27.5°	3531.9	3543.7	3608.5	3740.1	3911.9	4040.6	4116.2	4209.5	4188.8	4074.0	3642.9
30°	3508.4	3529.0	3614.4	3768.6	3999.3	4232.1	4381.3	4497.2	4514.8	4423.5	3951.2
32.5°	3426.9	3454.4	3542.7	3791.2	4084.8	4437.3	4622.9	4838.9	4831.0	4793.7	4326.3
35°	3301.2	3337.5	3473.0	3761.7	4181.0	4621.9	4868.3	5182.5	5188.4	5204.1	4682.7
37.5°	3200.1	3211.8	3366.0	3674.3	4219.3	4771.1	5097.1	5522.3	5617.5	5594.9	5087.3
40°	3038.0	3073.4	3240.3	3567.3	4215.4	4872.3	5329.8	5920.0	5971.0	6041.7	5510.5
42.5°	2838.7	2877.0	3037.1	3422.0	4160.4	4960.6	5553.7	6325.5	6397.2	6508.1	5898.4
45°	2647.2	2663.9	2814.2	3209.9	4053.3	5030.3	5771.7	6725.1	6835.1	6994.2	6289.2
47.5°	2408.6	2453.8	2621.7	2988.0	3816.7	5055.9	5932.7	7196.4	7398.7	7495.9	6734.9
50°	1852.9	1881.3	2352.7	2792.6	3559.4	4976.3	6141.9	7794.4	7922.1	8023.2	7186.6
52.5°	1632.9	1658.5	1841.1	2566.7	3272.7	4770.1	6269.5	8350.2	8504.4	8482.8	7640.3
55°	1540.6	1553.4	1631.9	2094.4	3011.5	4387.2	6358.9	8957.0	9040.5	8901.1	8090.0
57.5°	1433.6	1448.3	1507.2	1755.7	2717.0	3902.1	6284.3	9443.1	9474.5	9301.7	8490.6
60°	1338.3	1348.2	1436.5	1571.1	2396.9	3431.8	6095.7	9792.6	9880.0	9596.2	8922.7
62.5°	1256.9	1280.4	1326.6	1445.4	2173.0	3067.5	5618.5	9957.6	10081.3	9904.6	9209.4
65°	1176.3	1187.1	1240.2	1345.2	1932.4	2852.5	5345.5	9740.6	9884.9	9945.8	9386.1
67.5°	1066.4	1082.1	1134.1	1209.7	1612.3	2643.3	4708.3	9388.1	9594.3	9728.8	9281.1
70°	937.7	951.5	1004.5	1067.3	1346.2	2335.0	3973.8	9028.7	9164.2	9173.0	8811.7
72.5°	788.5	801.2	854.3	917.1	1117.4	1944.2	3114.6	8177.4	8480.8	8673.2	8024.2
75°	501.8	556.7	688.3	759.0	920.1	1573.0	2222.1	6528.7	7326.1	7875.9	6944.1
77.5°	81.5	91.3	270.0	384.9	535.1	1066.4	1234.3	3617.4	4550.2	6581.8	5606.7
80°	61.9	69.7	98.2	261.2	343.7	663.8	486.0	1174.4	1415.9	3077.3	3141.1
82.5°	26.5	31.4	58.9	146.3	162.0	176.7	130.6	525.3	621.6	935.8	1089.9
85°	8.8	11.8	27.5	46.1	51.1	39.3	28.5	208.2	256.3	448.7	415.3
87.5°	0.0	1.0	5.9	6.9	5.9	3.9	2.9	2.0	2.0	2.9	2.9
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°	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9	2394.9
2.5°	2393.9	2360.5	2356.6	2316.3	2280.0	2238.8	2213.2	2204.4	2216.2	2228.0	2239.7
5°	2423.4	2372.3	2321.2	2237.8	2200.5	2155.3	2095.4	2059.1	2042.4	2057.1	2062.0
7.5°	2445.0	2379.2	2300.6	2186.7	2106.2	2019.8	1962.8	1902.0	1868.6	1874.5	1879.4
10°	2448.9	2376.2	2242.7	2132.7	2003.1	1884.3	1809.7	1781.2	1758.6	1739.0	1741.9
12.5°	2485.2	2378.2	2193.6	2060.1	1923.6	1770.4	1686.9	1650.6	1646.7	1606.4	1602.5
15°	2534.3	2421.4	2168.1	1994.3	1819.5	1675.1	1576.0	1511.2	1513.1	1492.5	1489.6
17.5°	2613.9	2463.6	2149.4	1917.7	1710.5	1577.9	1452.3	1393.3	1374.7	1368.8	1363.9
20°	2703.2	2525.5	2126.8	1849.9	1615.2	1461.1	1320.7	1260.8	1208.7	1193.0	1195.0
22.5°	2834.8	2607.0	2145.5	1798.9	1509.2	1347.2	1207.8	1090.9	1001.6	978.0	975.0
25°	3067.5	2768.0	2201.5	1754.7	1443.4	1236.2	1048.7	884.7	766.9	741.3	743.3
27.5°	3326.7	2980.1	2279.0	1736.0	1360.0	1113.5	855.2	672.6	562.6	533.2	535.1
30°	3634.1	3232.5	2396.9	1684.0	1270.6	934.8	637.3	492.9	407.5	373.1	375.1
32.5°	3929.6	3484.8	2548.1	1676.1	1158.7	702.1	460.5	358.4	288.7	263.2	266.1
35°	4255.6	3773.5	2707.1	1636.9	975.0	503.7	323.0	248.4	211.1	203.3	202.3
37.5°	4624.8	4030.8	2825.0	1600.5	729.6	354.5	220.9	191.5	186.6	175.8	175.8
40°	4967.5	4298.8	2913.3	1504.3	510.6	240.6	172.8	173.8	168.9	154.2	151.2
42.5°	5283.7	4575.7	2994.8	1350.1	345.6	164.0	155.1	158.1	160.1	143.4	139.4
45°	5642.1	4917.4	2977.2	1118.4	219.9	148.3	139.4	148.3	158.1	141.4	137.5
47.5°	6034.8	5167.8	3014.5	807.1	155.1	140.4	129.6	141.4	149.3	138.4	132.6
50°	6478.7	5495.8	2901.6	469.4	142.4	132.6	124.7	129.6	141.4	135.5	128.6
52.5°	6885.2	5788.4	2747.4	229.8	134.5	124.7	116.8	120.8	132.6	125.7	127.6
55°	7227.9	6092.8	2434.2	164.0	129.6	115.9	112.9	113.9	120.8	111.9	117.8
57.5°	7648.1	6343.2	2116.0	153.2	125.7	110.0	111.0	103.1	105.1	100.2	94.3
60°	8022.2	6579.8	1684.0	141.4	119.8	112.9	100.2	89.4	83.5	80.5	79.5
62.5°	8396.3	6759.5	1241.1	128.6	113.9	102.1	88.4	76.6	66.8	62.8	61.9
65°	8537.7	6855.7	847.4	117.8	107.0	93.3	78.6	61.9	51.1	47.1	44.2
67.5°	8432.7	6554.3	491.0	106.0	103.1	85.4	68.7	50.1	39.3	36.3	34.4
70°	7945.6	6081.0	262.2	96.2	90.3	75.6	60.9	41.2	31.4	27.5	26.5
72.5°	7108.1	5229.7	137.5	80.5	75.6	61.9	48.1	34.4	25.5	20.6	19.6
75°	6035.8	4105.4	96.2	58.9	52.0	48.1	36.3	27.5	20.6	15.7	14.7
77.5°	4764.2	2667.9	72.7	38.3	30.4	31.4	26.5	22.6	16.7	11.8	11.8
80°	2460.7	1386.5	55.0	25.5	17.7	18.7	18.7	16.7	12.8	8.8	8.8
82.5°	976.0	510.6	38.3	14.7	10.8	11.8	10.8	10.8	8.8	5.9	5.9
85°	322.1	111.9	13.7	8.8	6.9	6.9	5.9	4.9	2.9	2.0	2.0
87.5°	2.9	2.9	3.9	4.9	4.9	3.9	2.9	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)