

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: P553573

Luminaire Tested: **VERD-G-CA2-150-740-U-T4**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-150-740-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1380mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21539 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

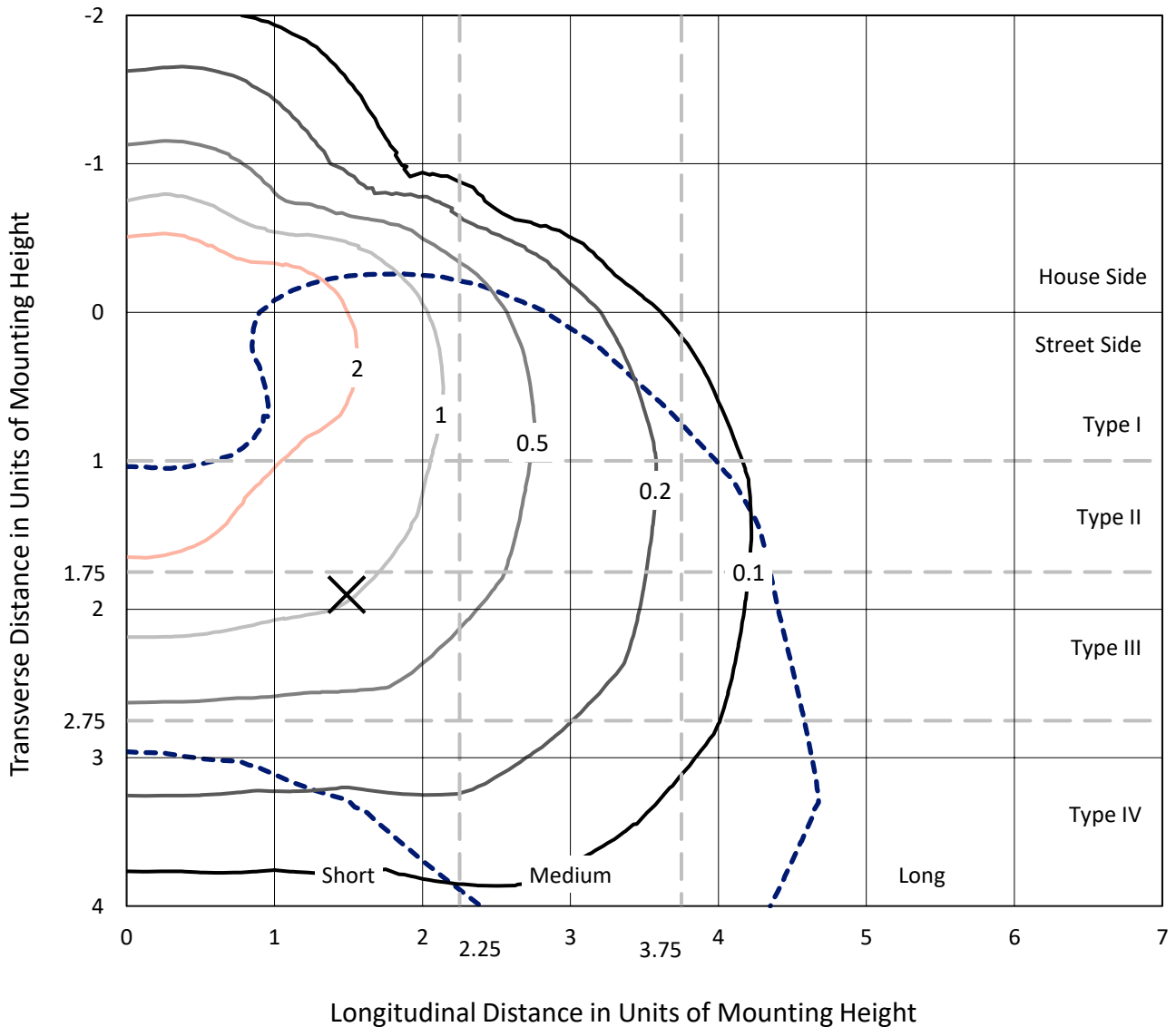
Input Watts (W): 152.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

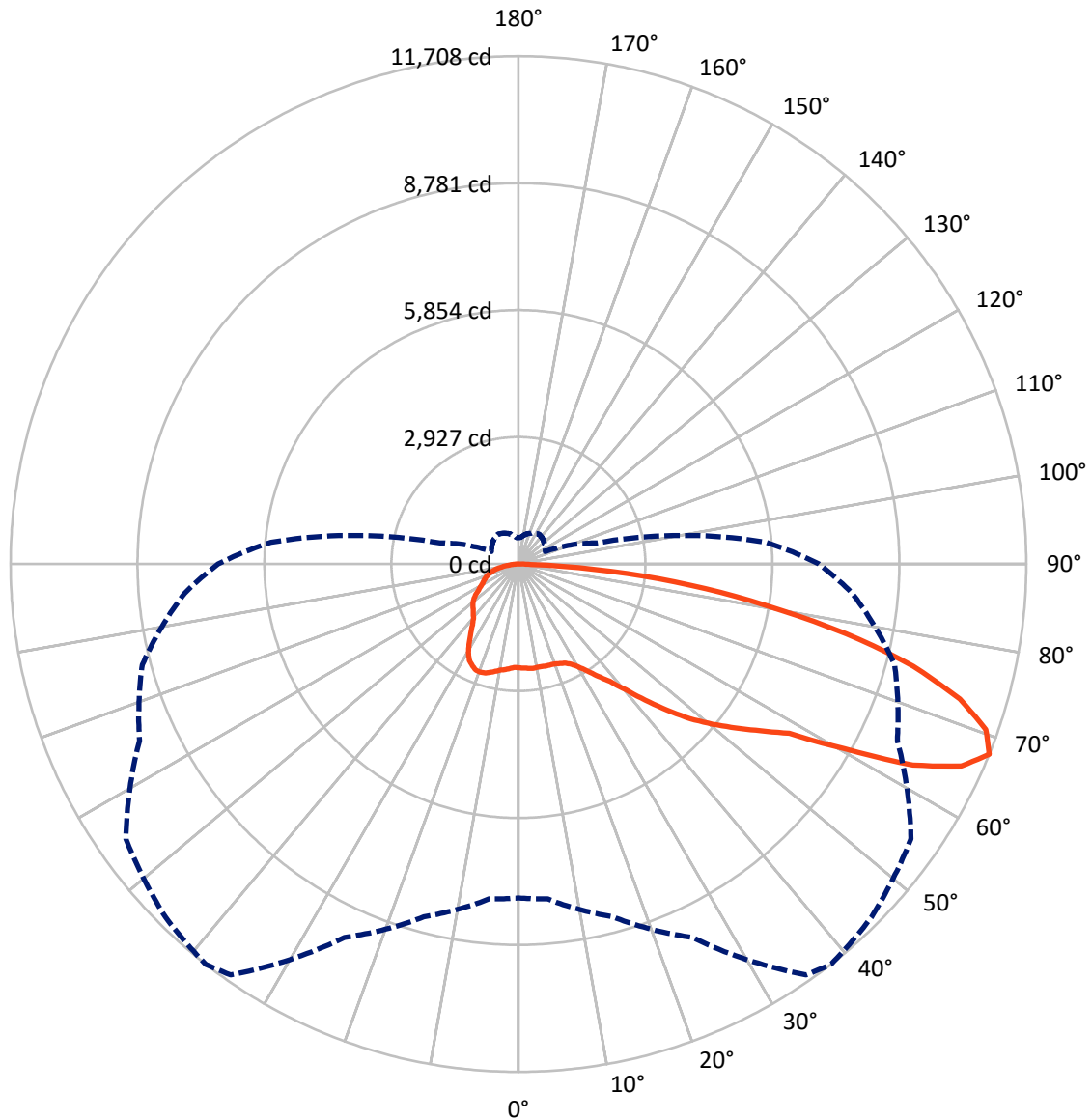
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4997.7	0.0	4997.7
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	16541.3	0.0	16541.3
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	21539.0	0.0	21539.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.2	1.1
10°-20°	716.0	3.3
20°-30°	1213.6	5.6
30°-40°	1859.8	8.6
40°-50°	3064.5	14.2
50°-60°	4380.0	20.3
60°-70°	5456.3	25.3
70°-80°	3888.2	18.1
80°-90°	728.4	3.4
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°	21539.0	100.0
0°-180°	21539.0	100.0

**Coefficient of Utilization**



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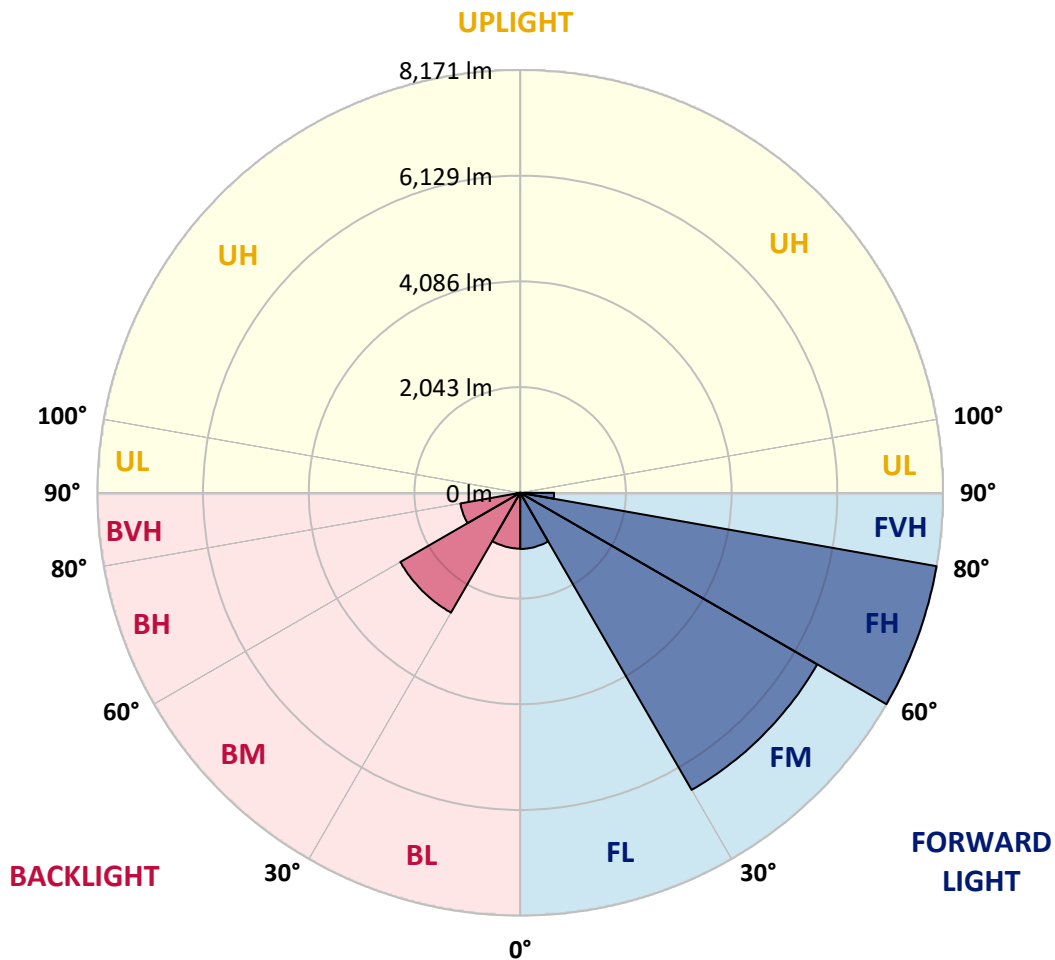
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1084.2	5.0			
FM (30°-60°)	6629.2	30.8			
FH (60°-80°)	8171.4	37.9			G4/12000
FVH (80°-90°)	656.6	3.0			G4/750
BL (0°-30°)	1077.7	5.0	B3/2500		
BM (30°-60°)	2675.1	12.4	B3/5000		
BH (60°-80°)	1173.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	71.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0
2.5°	2437.4	2447.4	2428.8	2425.9	2414.5	2400.2	2403.0	2391.6	2377.3	2383.0	2385.9
5°	2451.7	2451.7	2437.4	2423.1	2417.4	2414.5	2417.4	2404.5	2401.6	2411.6	2403.0
7.5°	2438.8	2447.4	2423.1	2423.1	2413.1	2430.2	2431.7	2415.9	2427.4	2427.4	2425.9
10°	2436.0	2438.8	2428.8	2408.8	2407.3	2417.4	2437.4	2443.1	2448.8	2447.4	2453.1
12.5°	2403.0	2400.2	2380.1	2385.9	2413.1	2423.1	2457.4	2473.2	2494.6	2500.4	2503.2
15°	2361.5	2373.0	2374.4	2391.6	2420.2	2436.0	2470.3	2501.8	2549.0	2560.5	2559.1
17.5°	2365.8	2370.1	2377.3	2387.3	2431.7	2438.8	2494.6	2529.0	2587.7	2627.7	2647.8
20°	2393.0	2384.4	2398.8	2424.5	2448.8	2454.6	2513.3	2566.2	2646.4	2699.3	2722.2
22.5°	2438.8	2440.3	2447.4	2447.4	2464.6	2490.4	2544.7	2586.2	2685.0	2759.4	2799.5
25°	2481.8	2484.6	2493.2	2490.4	2519.0	2530.4	2581.9	2644.9	2758.0	2845.3	2922.6
27.5°	2546.2	2554.8	2549.0	2550.5	2606.3	2617.7	2640.6	2725.1	2841.0	2958.4	3095.8
30°	2666.4	2666.4	2660.7	2666.4	2726.5	2755.1	2762.3	2845.3	2939.8	3081.5	3289.0
32.5°	2839.6	2841.0	2805.2	2833.8	2901.1	2951.2	2972.7	3104.4	3210.3	3279.0	3546.6
35°	3210.3	3194.5	3157.3	3074.3	3117.2	3178.8	3247.5	3414.9	3648.2	3904.4	4173.5
37.5°	3778.5	3777.0	3645.4	3479.3	3404.9	3436.4	3532.3	3782.8	4147.7	4787.5	5025.1
40°	4409.6	4425.4	4235.0	4027.5	3808.5	3811.4	3835.7	4149.2	4677.3	5601.9	5726.4
42.5°	5039.4	5013.6	4803.2	4604.3	4306.6	4288.0	4223.6	4519.8	5231.2	6253.1	6270.2
45°	5600.4	5587.5	5354.3	5152.4	4871.9	4800.4	4727.4	4916.3	5759.3	6779.8	6666.7
47.5°	6127.1	6144.3	5822.3	5640.5	5362.8	5327.1	5242.6	5362.8	6281.7	7193.4	6988.7
50°	6726.8	6734.0	6349.0	6124.3	5849.5	5803.7	5770.7	5923.9	6821.3	7588.4	7316.5
52.5°	7398.1	7257.8	6882.8	6573.7	6310.3	6276.0	6257.4	6417.7	7412.4	7934.8	7532.6
55°	8242.5	8055.0	7671.4	7159.0	6775.5	6781.2	6716.8	6904.3	7910.4	8173.8	7743.0
57.5°	8611.7	8654.7	8583.1	8116.5	7443.9	7360.8	7202.0	7346.5	8384.2	8454.3	7909.0
60°	9307.3	9473.4	9318.8	9058.3	8859.4	8641.8	7866.1	7920.5	8816.4	8764.9	7927.6
62.5°	9354.6	9411.8	9899.9	9941.4	10134.6	10207.6	9565.0	8571.7	9208.6	8920.9	7990.6
65°	8890.8	8955.2	9543.5	10060.2	11123.6	11223.8	11020.5	9763.9	9526.3	9005.3	7940.5
67.5°	7698.6	7751.6	8420.0	9499.1	11563.0	11707.5	11510.0	11046.3	9637.9	8976.7	7720.1
70°	6585.1	6615.2	7170.5	8680.4	11261.0	11431.3	11352.6	11094.9	9633.6	8807.8	7233.5
72.5°	5172.5	5259.8	5707.8	7199.1	10498.1	10641.2	10664.1	10795.8	9388.9	8252.5	6145.7
75°	3751.3	3798.5	4306.6	5593.3	9061.2	9403.2	9805.4	10302.0	8468.6	7005.9	4544.2
77.5°	2643.5	2689.3	3167.3	4240.8	7333.7	7722.9	8450.0	8742.0	6871.4	5251.2	2391.6
80°	1740.4	1734.7	2189.8	3138.7	5503.1	5776.5	6316.0	5925.3	3987.4	2282.8	260.5
82.5°	1021.9	1079.2	1402.6	2156.9	3845.7	3997.4	3983.1	3120.1	1582.9	236.2	133.1
85°	589.7	611.1	827.3	1278.1	2119.7	2141.1	1917.9	1210.8	392.2	105.9	78.7
87.5°	263.3	253.3	329.2	422.2	386.4	287.7	178.9	50.1	30.1	20.0	12.9
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°	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0	2393.0
2.5°	2374.4	2367.3	2403.0	2383.0	2400.2	2390.2	2381.6	2393.0	2414.5	2433.1	2421.7
5°	2393.0	2397.3	2425.9	2401.6	2424.5	2420.2	2408.8	2421.7	2456.0	2473.2	2471.7
7.5°	2414.5	2417.4	2447.4	2437.4	2447.4	2438.8	2457.4	2448.8	2478.9	2490.4	2483.2
10°	2440.3	2444.6	2471.7	2473.2	2477.5	2471.7	2480.3	2484.6	2501.8	2524.7	2510.4
12.5°	2496.1	2506.1	2526.1	2547.6	2544.7	2521.8	2529.0	2506.1	2521.8	2529.0	2540.4
15°	2573.4	2597.7	2609.1	2639.2	2612.0	2599.1	2571.9	2526.1	2511.8	2504.7	2493.2
17.5°	2656.4	2679.3	2700.7	2739.4	2695.0	2660.7	2613.4	2527.6	2463.2	2440.3	2430.2
20°	2749.4	2770.9	2809.5	2835.3	2769.4	2695.0	2619.2	2493.2	2365.8	2278.5	2288.5
22.5°	2853.9	2901.1	2926.9	2919.7	2826.7	2725.1	2594.8	2403.0	2239.9	2109.6	2101.1
25°	2998.4	3025.6	3035.7	2969.8	2858.2	2703.6	2513.3	2295.7	2068.1	1922.1	1900.7
27.5°	3150.2	3178.8	3125.8	3002.7	2848.2	2653.5	2421.7	2112.5	1869.2	1728.9	1713.2
30°	3344.8	3337.6	3187.4	2992.7	2790.9	2533.3	2254.2	1925.0	1700.3	1570.1	1562.9
32.5°	3556.6	3503.7	3237.5	2944.1	2682.1	2375.9	2040.9	1747.5	1574.4	1444.1	1438.4
35°	4057.6	3814.2	3310.4	2882.5	2521.8	2158.3	1843.4	1614.4	1474.2	1326.8	1298.1
37.5°	4793.2	4401.1	3460.7	2819.5	2338.6	1943.6	1678.8	1515.7	1382.6	1225.1	1197.9
40°	5478.8	4997.9	3724.1	2772.3	2174.0	1770.4	1565.8	1447.0	1318.2	1160.7	1126.4
42.5°	5965.4	5461.6	4040.4	2695.0	2009.5	1633.0	1518.5	1421.2	1301.0	1155.0	1127.8
45°	6357.6	5862.3	4353.8	2607.7	1816.2	1515.7	1469.9	1399.7	1279.5	1137.8	1106.3
47.5°	6633.8	6114.2	4571.4	2509.0	1631.6	1444.1	1428.4	1365.4	1246.6	1113.5	1093.5
50°	6918.6	6396.2	4720.2	2407.3	1465.6	1389.7	1371.1	1288.1	1179.3	1060.5	1039.1
52.5°	7104.7	6533.6	4806.1	2387.3	1323.9	1315.3	1292.4	1213.7	1110.6	981.8	956.1
55°	7246.3	6655.2	4793.2	2269.9	1196.5	1218.0	1203.7	1145.0	1054.8	928.9	911.7
57.5°	7280.7	6673.9	4675.8	1906.4	1076.3	1087.7	1094.9	1106.3	1019.0	914.6	885.9
60°	7379.5	6586.5	4468.3	1371.1	934.6	963.2	1020.5	1030.5	970.4	851.6	834.4
62.5°	7316.5	6527.9	4017.5	966.1	834.4	893.1	947.5	947.5	864.5	754.3	742.8
65°	7206.3	6296.0	3143.0	761.4	781.5	841.6	891.7	857.3	785.7	682.7	675.5
67.5°	6925.8	5730.7	1876.4	685.6	744.2	801.5	837.3	785.7	718.5	616.9	605.4
70°	6120.0	4567.1	714.2	649.8	707.0	747.1	770.0	717.0	651.2	549.6	539.6
72.5°	4859.0	2856.7	453.7	605.4	659.8	695.6	709.9	648.3	543.9	427.9	416.5
75°	2924.0	815.8	393.6	523.8	581.1	642.6	618.3	538.1	459.4	359.2	352.1
77.5°	739.9	247.6	350.7	422.2	472.3	545.3	543.9	485.2	400.7	293.4	282.0
80°	177.5	173.2	284.8	312.0	356.4	417.9	412.2	403.6	317.7	203.2	167.5
82.5°	113.1	120.2	193.2	174.6	203.2	243.3	276.2	260.5	237.6	124.5	111.6
85°	75.9	95.9	94.5	65.8	91.6	137.4	178.9	163.2	134.5	77.3	68.7
87.5°	11.4	12.9	17.2	25.8	40.1	67.3	88.7	87.3	65.8	48.7	45.8
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)