

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: P553581

Luminaire Tested: **VERD-G-CA2-150-750-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553581
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-CA2-150-750-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1380mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21934 lumens
Efficiency: N/A
Efficacy: 144.1 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

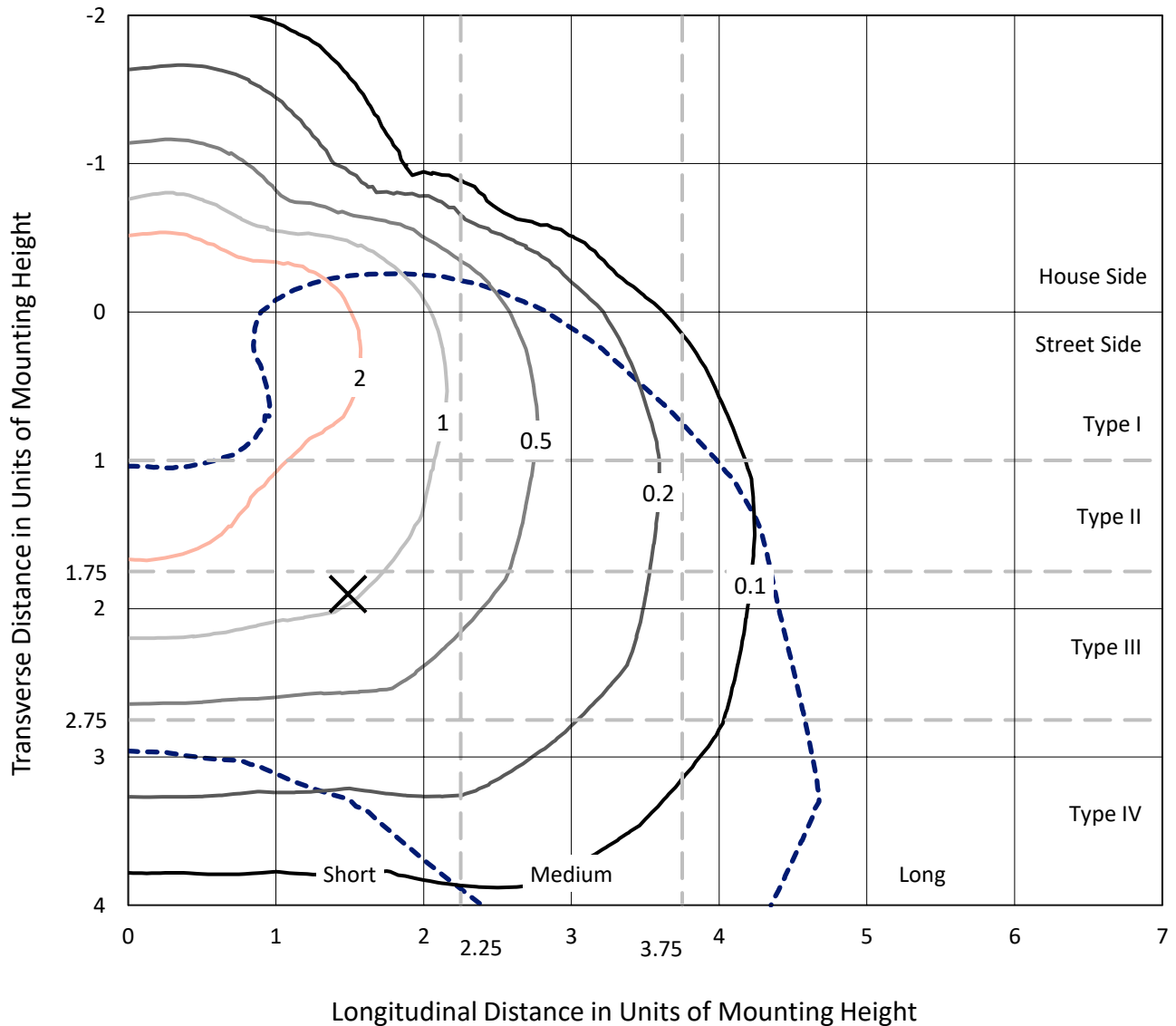
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

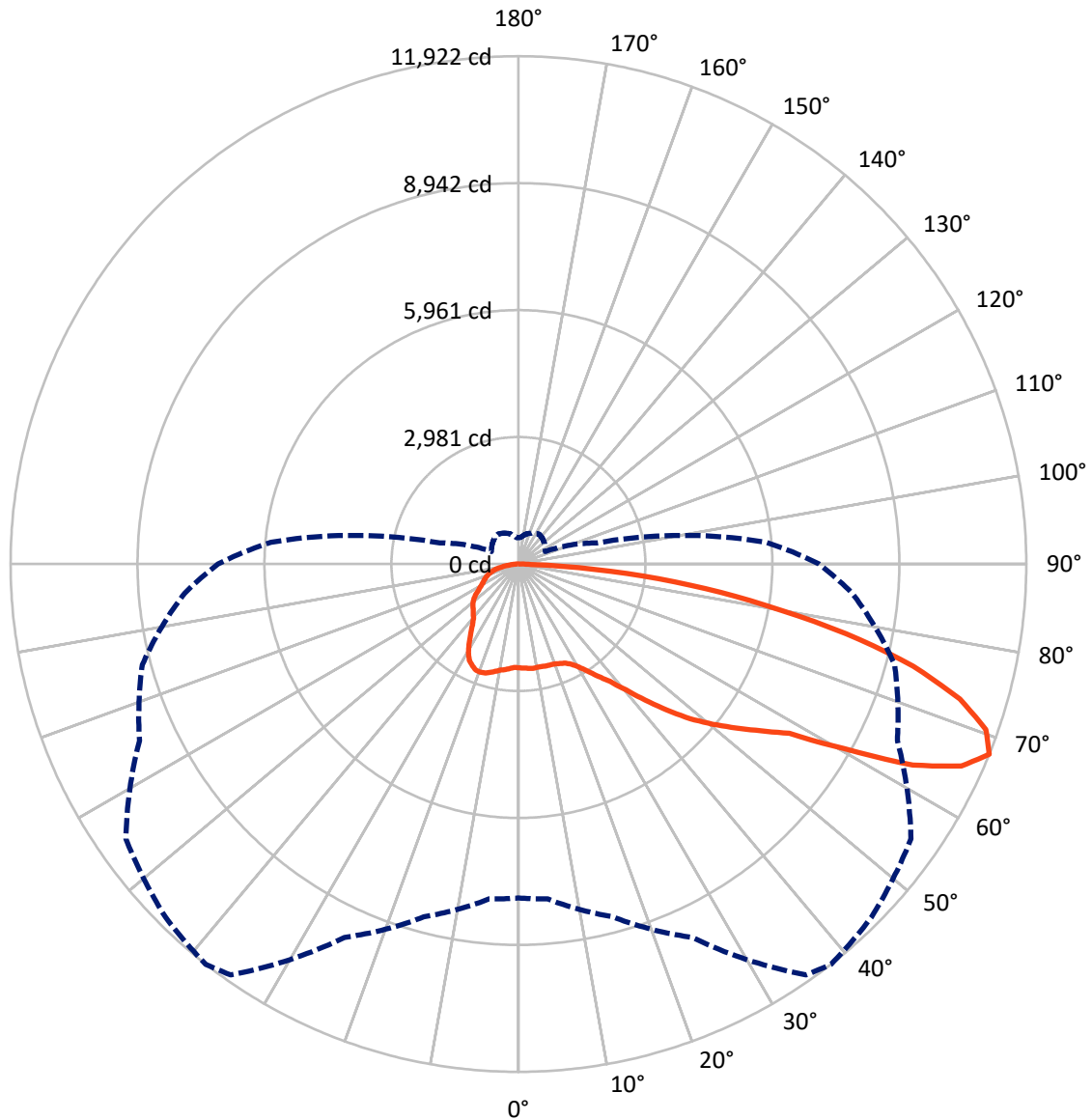
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	5089.3	0.0	5089.3
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	16844.7	0.0	16844.7
	% Fixture	76.8	0.0	76.8
Total	Lumens	21934.0	0.0	21934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	1.1
10°-20°	729.2	3.3
20°-30°	1235.9	5.6
30°-40°	1893.9	8.6
40°-50°	3120.7	14.2
50°-60°	4460.3	20.3
60°-70°	5556.4	25.3
70°-80°	3959.5	18.1
80°-90°	741.7	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°	21934.0	100.0
0°-180°	21934.0	100.0

Coefficient of Utilization



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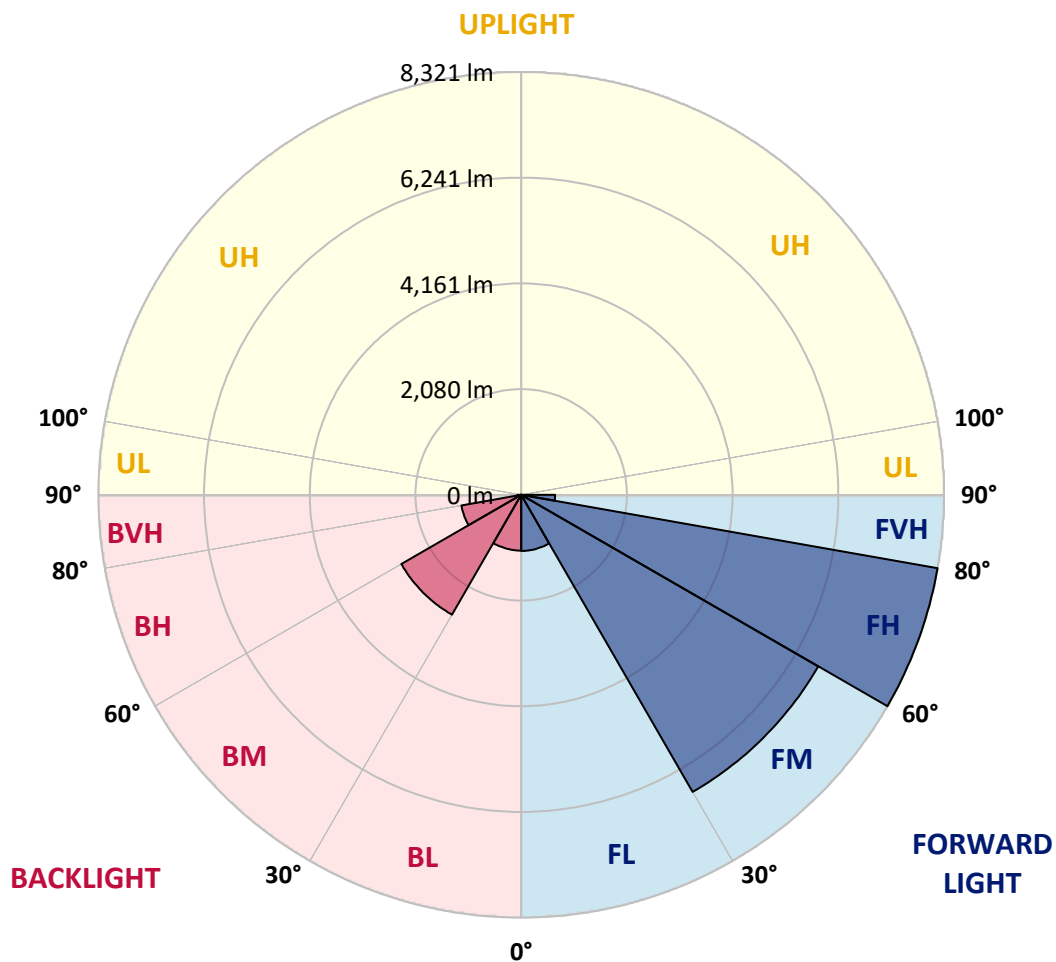
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1104.0	5.0			
FM	(30°-60°)	6750.8	30.8			
FH	(60°-80°)	8321.2	37.9			G4/12000
FVH	(80°-90°)	668.6	3.0			G4/750
BL	(0°-30°)	1097.4	5.0	B3/2500		
BM	(30°-60°)	2724.1	12.4	B3/5000		
BH	(60°-80°)	1194.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	73.1	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°	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9
2.5°	2482.1	2492.3	2473.3	2470.4	2458.8	2444.2	2447.1	2435.5	2420.9	2426.7	2429.6
5°	2496.7	2496.7	2482.1	2467.5	2461.7	2458.8	2461.7	2448.6	2445.7	2455.9	2447.1
7.5°	2483.6	2492.3	2467.5	2467.5	2457.3	2474.8	2476.3	2460.2	2471.9	2471.9	2470.4
10°	2480.6	2483.6	2473.3	2452.9	2451.5	2461.7	2482.1	2487.9	2493.8	2492.3	2498.1
12.5°	2447.1	2444.2	2423.8	2429.6	2457.3	2467.5	2502.5	2518.5	2540.4	2546.2	2549.1
15°	2404.8	2416.5	2418.0	2435.5	2464.6	2480.6	2515.6	2547.7	2595.8	2607.4	2606.0
17.5°	2409.2	2413.6	2420.9	2431.1	2476.3	2483.6	2540.4	2575.4	2635.1	2675.9	2696.3
20°	2436.9	2428.2	2442.7	2469.0	2493.8	2499.6	2559.3	2613.3	2694.9	2748.8	2772.1
22.5°	2483.6	2485.0	2492.3	2492.3	2509.8	2536.0	2591.4	2633.7	2734.2	2810.0	2850.8
25°	2527.3	2530.2	2538.9	2536.0	2565.2	2576.8	2629.3	2693.4	2808.6	2897.5	2976.2
27.5°	2592.9	2601.6	2595.8	2597.2	2654.1	2665.7	2689.1	2775.0	2893.1	3012.6	3152.5
30°	2715.3	2715.3	2709.5	2715.3	2776.5	2805.7	2812.9	2897.5	2993.7	3138.0	3349.3
32.5°	2891.6	2893.1	2856.7	2885.8	2954.3	3005.3	3027.2	3161.3	3269.1	3339.1	3611.6
35°	3269.1	3253.1	3215.2	3130.7	3174.4	3237.1	3307.0	3477.6	3715.1	3976.0	4250.0
37.5°	3847.8	3846.3	3712.2	3543.1	3467.4	3499.4	3597.1	3852.1	4223.8	4875.3	5117.2
40°	4490.5	4506.5	4312.7	4101.4	3878.4	3881.3	3906.1	4225.2	4763.1	5704.6	5831.4
42.5°	5131.8	5105.6	4891.3	4688.7	4385.6	4366.6	4301.0	4602.7	5327.1	6367.7	6385.2
45°	5703.1	5690.0	5452.4	5246.9	4961.3	4888.4	4814.1	5006.5	5864.9	6904.1	6789.0
47.5°	6239.5	6257.0	5929.0	5743.9	5461.2	5424.8	5338.8	5461.2	6396.9	7325.3	7116.9
50°	6850.2	6857.5	6465.4	6236.6	5956.7	5910.1	5876.6	6032.5	6946.4	7727.6	7450.7
52.5°	7533.7	7390.9	7009.0	6694.2	6426.0	6391.1	6372.1	6535.4	7548.3	8080.3	7670.7
55°	8393.6	8202.7	7812.1	7290.3	6899.7	6905.6	6840.0	7030.9	8055.5	8323.7	7885.0
57.5°	8769.7	8813.4	8740.5	8265.4	7580.4	7495.8	7334.1	7481.3	8537.9	8609.4	8054.1
60°	9478.0	9647.1	9489.7	9224.4	9021.8	8800.3	8010.3	8065.7	8978.1	8925.6	8073.0
62.5°	9526.1	9584.4	10081.4	10123.7	10320.4	10394.8	9740.4	8728.9	9377.4	9084.5	8137.1
65°	9053.9	9119.5	9718.5	10244.6	11327.6	11429.6	11222.6	9943.0	9701.0	9170.5	8086.1
67.5°	7839.8	7893.7	8574.4	9673.3	11775.0	11922.2	11721.1	11248.9	9814.7	9141.3	7861.7
70°	6705.9	6736.5	7302.0	8839.6	11467.5	11640.9	11560.8	11298.4	9810.3	8969.4	7366.1
72.5°	5267.3	5356.3	5812.4	7331.1	10690.6	10836.4	10859.7	10993.8	9561.1	8403.8	6258.4
75°	3820.1	3868.2	4385.6	5695.8	9227.3	9575.7	9985.2	10491.0	8623.9	7134.4	4627.5
77.5°	2692.0	2738.6	3225.4	4318.5	7468.1	7864.6	8605.0	8902.3	6997.4	5347.5	2435.5
80°	1772.3	1766.5	2229.9	3196.3	5604.0	5882.4	6431.9	6034.0	4060.5	2324.7	265.3
82.5°	1040.6	1098.9	1428.3	2196.4	3916.3	4070.8	4056.2	3177.3	1612.0	240.5	135.5
85°	600.5	622.3	842.4	1301.5	2158.5	2180.4	1953.0	1233.0	399.4	107.9	80.2
87.5°	268.2	258.0	335.2	430.0	393.5	293.0	182.2	51.0	30.6	20.4	13.1
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°	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9	2436.9
2.5°	2418.0	2410.7	2447.1	2426.7	2444.2	2434.0	2425.3	2436.9	2458.8	2477.7	2466.1
5°	2436.9	2441.3	2470.4	2445.7	2469.0	2464.6	2452.9	2466.1	2501.0	2518.5	2517.1
7.5°	2458.8	2461.7	2492.3	2482.1	2492.3	2483.6	2502.5	2493.8	2524.4	2536.0	2528.7
10°	2485.0	2489.4	2517.1	2518.5	2522.9	2517.1	2525.8	2530.2	2547.7	2571.0	2556.4
12.5°	2541.9	2552.1	2572.5	2594.3	2591.4	2568.1	2575.4	2552.1	2568.1	2575.4	2587.0
15°	2620.6	2645.3	2657.0	2687.6	2659.9	2646.8	2619.1	2572.5	2557.9	2550.6	2538.9
17.5°	2705.1	2728.4	2750.3	2789.6	2744.4	2709.5	2661.4	2573.9	2508.3	2485.0	2474.8
20°	2799.8	2821.7	2861.0	2887.3	2820.2	2744.4	2667.2	2538.9	2409.2	2320.3	2330.5
22.5°	2906.2	2954.3	2980.6	2973.3	2878.5	2775.0	2642.4	2447.1	2281.0	2148.3	2139.6
25°	3053.4	3081.1	3091.3	3024.3	2910.6	2753.2	2559.3	2337.8	2106.1	1957.4	1935.5
27.5°	3207.9	3237.1	3183.1	3057.8	2900.4	2702.2	2466.1	2151.2	1903.5	1760.6	1744.6
30°	3406.1	3398.9	3245.8	3047.6	2842.1	2579.7	2295.5	1960.3	1731.5	1598.9	1591.6
32.5°	3621.8	3567.9	3296.8	2998.0	2731.3	2419.4	2078.4	1779.6	1603.2	1470.6	1464.8
35°	4132.0	3884.2	3371.2	2935.4	2568.1	2197.9	1877.2	1644.0	1501.2	1351.1	1321.9
37.5°	4881.1	4481.8	3524.2	2871.2	2381.5	1979.3	1709.6	1543.5	1407.9	1247.6	1219.9
40°	5579.2	5089.5	3792.4	2823.1	2213.9	1802.9	1594.5	1473.5	1342.3	1182.0	1147.0
42.5°	6074.8	5561.8	4114.5	2744.4	2046.3	1663.0	1546.4	1447.3	1324.9	1176.2	1148.5
45°	6474.1	5969.9	4433.7	2655.5	1849.5	1543.5	1496.8	1425.4	1303.0	1158.7	1126.6
47.5°	6755.4	6226.4	4655.2	2555.0	1661.5	1470.6	1454.6	1390.4	1269.5	1133.9	1113.5
50°	7045.5	6513.5	4806.8	2451.5	1492.5	1415.2	1396.3	1311.7	1201.0	1080.0	1058.1
52.5°	7234.9	6653.4	4894.2	2431.1	1348.2	1339.4	1316.1	1235.9	1131.0	999.8	973.6
55°	7379.2	6777.3	4881.1	2311.6	1218.5	1240.3	1225.7	1166.0	1074.2	945.9	928.4
57.5°	7414.2	6796.2	4761.6	1941.4	1096.0	1107.7	1115.0	1126.6	1037.7	931.3	902.2
60°	7514.8	6707.3	4550.3	1396.3	951.7	980.9	1039.2	1049.4	988.2	867.2	849.7
62.5°	7450.7	6647.6	4091.2	983.8	849.7	909.5	964.9	964.9	880.3	768.1	756.4
65°	7338.4	6411.5	3200.6	775.4	795.8	857.0	908.0	873.0	800.2	695.2	687.9
67.5°	7052.8	5835.8	1910.8	698.1	757.9	816.2	852.6	800.2	731.7	628.2	616.5
70°	6232.2	4650.8	727.3	661.7	720.0	760.8	784.1	730.2	663.2	559.7	549.5
72.5°	4948.2	2909.1	462.0	616.5	671.9	708.3	722.9	660.2	553.8	435.8	424.1
75°	2977.6	830.8	400.8	533.4	591.7	654.4	629.6	548.0	467.9	365.8	358.5
77.5°	753.5	252.1	357.1	430.0	481.0	555.3	553.8	494.1	408.1	298.8	287.1
80°	180.7	176.4	290.0	317.7	362.9	425.6	419.8	411.0	323.6	207.0	170.5
82.5°	115.1	122.4	196.8	177.8	207.0	247.8	281.3	265.3	241.9	126.8	113.7
85°	77.2	97.7	96.2	67.0	93.3	139.9	182.2	166.2	137.0	78.7	70.0
87.5°	11.7	13.1	17.5	26.2	40.8	68.5	90.4	88.9	67.0	49.6	46.6
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)