

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: P553621

Luminaire Tested: **VERD-G-CA2-160-740-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553621
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-CA2-160-740-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1460mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22646 lumens
Efficiency: N/A
Efficacy: 139.3 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

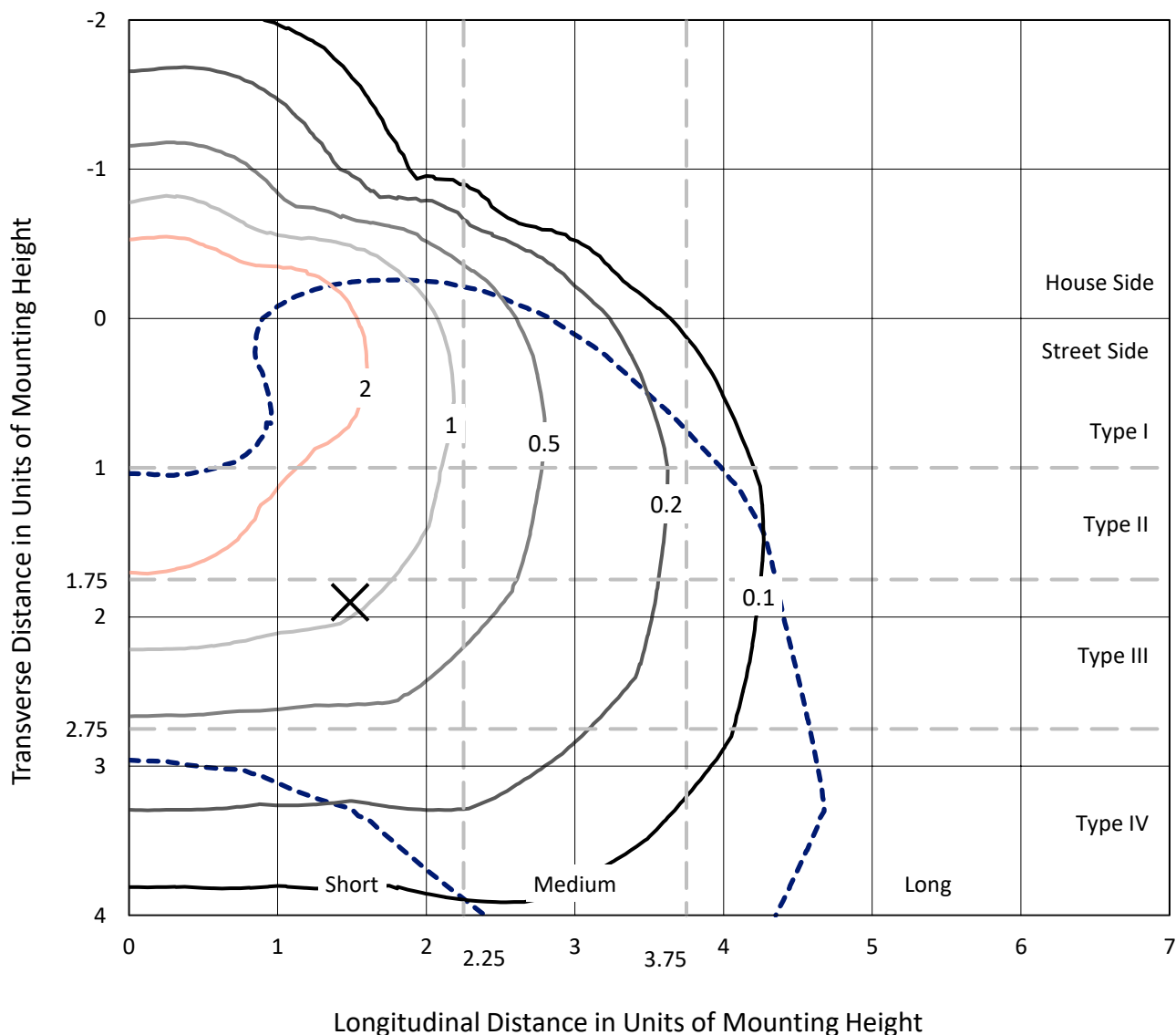
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

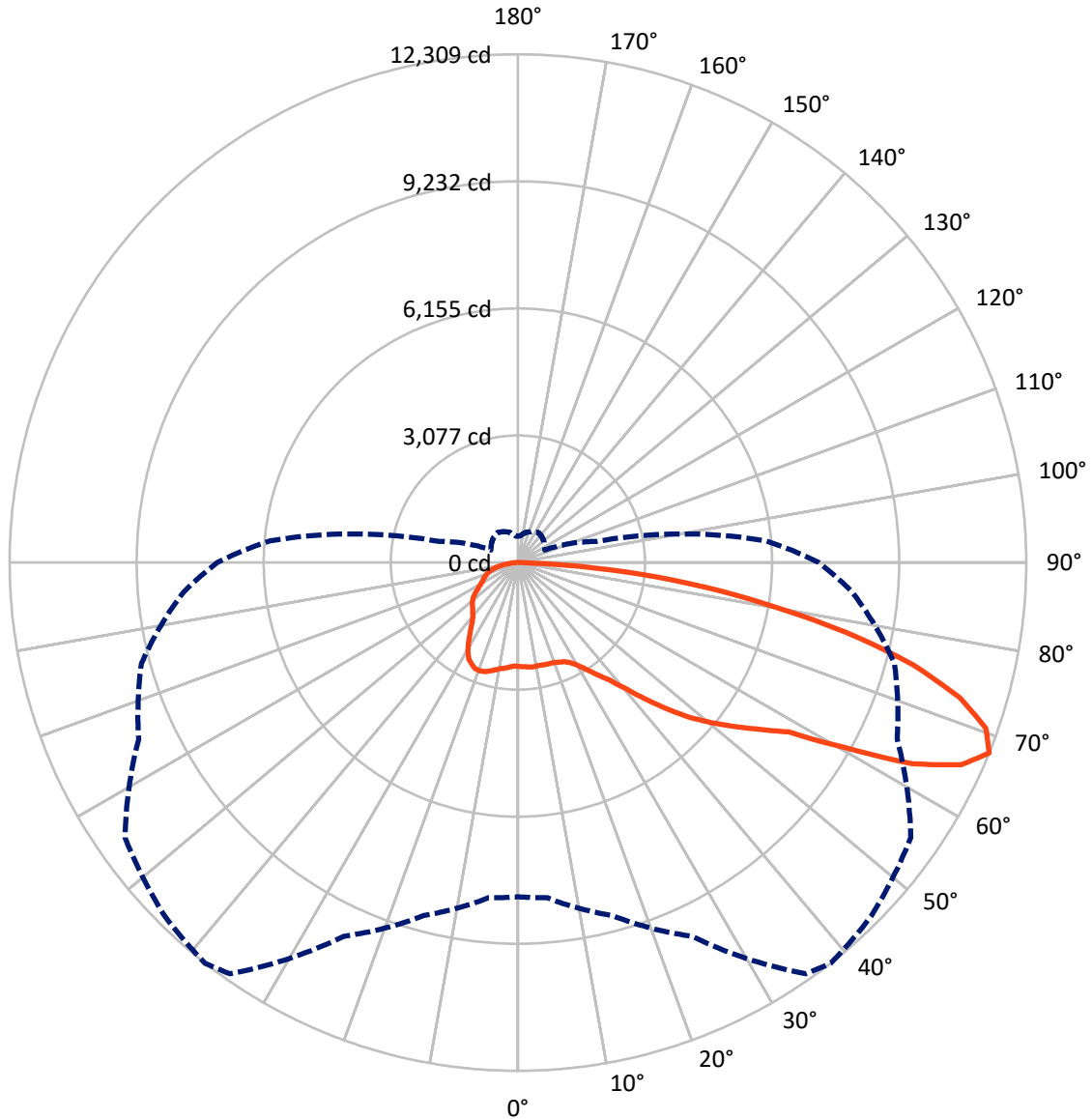
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	5254.5	0.0	5254.5
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	17391.5	0.0	17391.5
	% Fixture	76.8	0.0	76.8
Total	Lumens	22646.0	0.0	22646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	1.1
10°-20°	752.8	3.3
20°-30°	1276.0	5.6
30°-40°	1955.4	8.6
40°-50°	3222.0	14.2
50°-60°	4605.1	20.3
60°-70°	5736.8	25.3
70°-80°	4088.1	18.1
80°-90°	765.8	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°	22646.0	100.0
0°-180°	22646.0	100.0

Coefficient of Utilization



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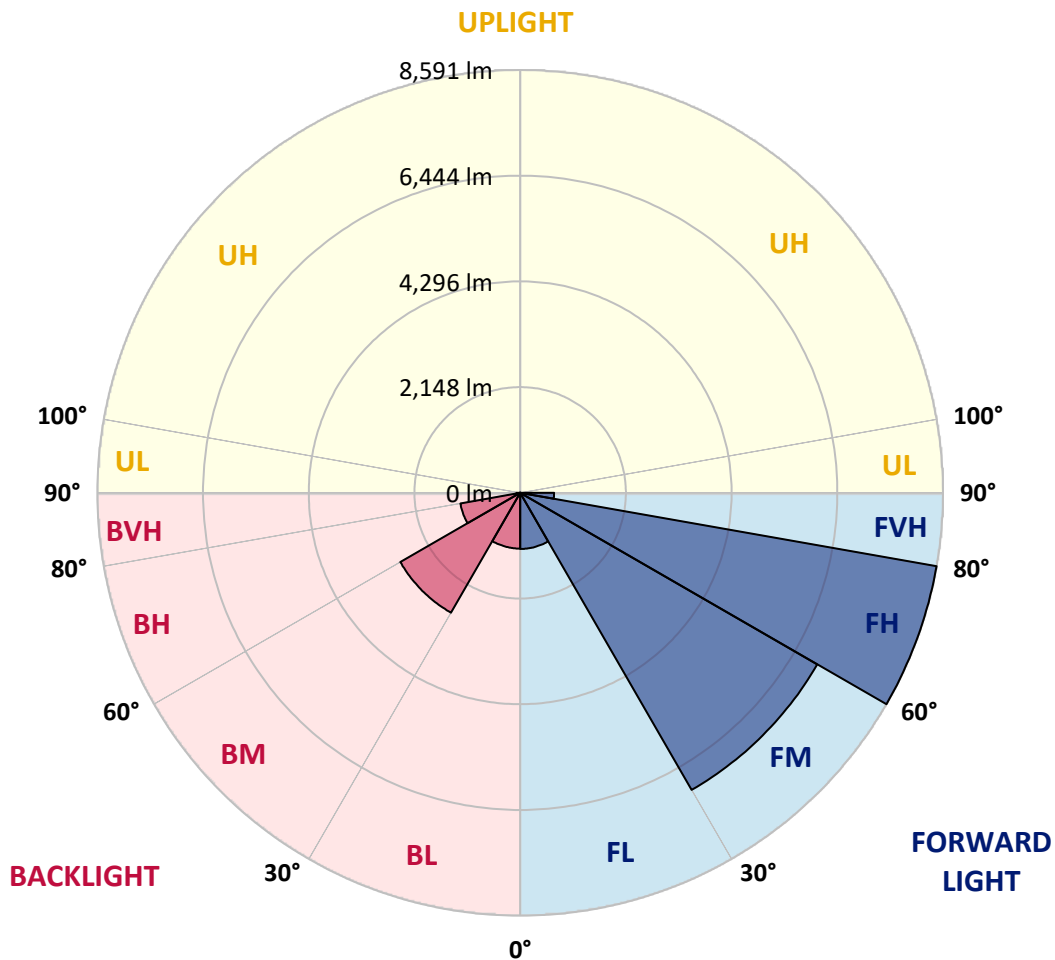
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.9	5.0			
FM (30°-60°)	6969.9	30.8			
FH (60°-80°)	8591.4	37.9			G4/12000
FVH (80°-90°)	690.3	3.0			G4/750
BL (0°-30°)	1133.1	5.0	B3/2500		
BM (30°-60°)	2812.6	12.4	B3/5000		
BH (60°-80°)	1233.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	75.5	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°	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0
2.5°	2562.7	2573.2	2553.6	2550.6	2538.6	2523.5	2526.6	2514.5	2499.5	2505.5	2508.5
5°	2577.7	2577.7	2562.7	2547.6	2541.6	2538.6	2541.6	2528.1	2525.0	2535.6	2526.6
7.5°	2564.2	2573.2	2547.6	2547.6	2537.1	2555.1	2556.6	2540.1	2552.1	2552.1	2550.6
10°	2561.2	2564.2	2553.6	2532.6	2531.1	2541.6	2562.7	2568.7	2574.7	2573.2	2579.2
12.5°	2526.6	2523.5	2502.5	2508.5	2537.1	2547.6	2583.7	2600.3	2622.9	2628.9	2631.9
15°	2482.9	2494.9	2496.5	2514.5	2544.6	2561.2	2597.3	2630.4	2680.0	2692.1	2690.6
17.5°	2487.4	2491.9	2499.5	2510.0	2556.6	2564.2	2622.9	2659.0	2720.7	2762.8	2783.9
20°	2516.0	2507.0	2522.0	2549.1	2574.7	2580.7	2642.4	2698.1	2782.4	2838.0	2862.1
22.5°	2564.2	2565.7	2573.2	2573.2	2591.3	2618.3	2675.5	2719.2	2823.0	2901.2	2943.4
25°	2609.3	2612.3	2621.4	2618.3	2648.4	2660.5	2714.6	2780.9	2899.7	2991.5	3072.8
27.5°	2677.0	2686.1	2680.0	2681.5	2740.2	2752.3	2776.3	2865.1	2987.0	3110.4	3254.9
30°	2803.4	2803.4	2797.4	2803.4	2866.6	2896.7	2904.3	2991.5	3090.8	3239.8	3458.0
32.5°	2985.5	2987.0	2949.4	2979.5	3050.2	3102.9	3125.5	3263.9	3375.3	3447.5	3728.9
35°	3375.3	3358.7	3319.6	3232.3	3277.4	3342.1	3414.4	3590.4	3835.7	4105.1	4388.0
37.5°	3972.7	3971.2	3832.7	3658.2	3579.9	3613.0	3713.8	3977.2	4360.9	5033.5	5283.3
40°	4636.3	4652.8	4452.7	4234.5	4004.3	4007.3	4032.8	4362.4	4917.7	5889.8	6020.7
42.5°	5298.4	5271.3	5050.1	4840.9	4527.9	4508.4	4440.6	4752.1	5500.0	6574.4	6592.5
45°	5888.3	5874.7	5629.4	5417.3	5122.3	5047.1	4970.3	5169.0	6055.3	7128.2	7009.3
47.5°	6442.0	6460.1	6121.5	5930.4	5638.5	5600.8	5512.1	5638.5	6604.5	7563.1	7347.9
50°	7072.5	7080.1	6675.3	6439.0	6150.1	6101.9	6067.3	6228.3	7171.9	7978.4	7692.5
52.5°	7778.3	7630.8	7236.6	6911.5	6634.6	6598.5	6579.0	6747.5	7793.3	8342.6	7919.7
55°	8666.1	8469.0	8065.7	7527.0	7123.7	7129.7	7062.0	7259.1	8317.0	8593.9	8140.9
57.5°	9054.3	9099.5	9024.3	8533.7	7826.4	7739.2	7572.1	7724.1	8815.1	8888.8	8315.5
60°	9785.7	9960.2	9797.7	9523.8	9314.7	9085.9	8270.4	8327.5	9269.5	9215.4	8335.1
62.5°	9835.3	9895.5	10408.7	10452.3	10655.5	10732.2	10056.5	9012.2	9681.8	9379.4	8401.3
65°	9347.8	9415.5	10034.0	10577.2	11695.3	11800.6	11586.9	10265.7	10015.9	9468.2	8348.6
67.5°	8094.3	8150.0	8852.7	9987.3	12157.2	12309.2	12101.6	11614.0	10133.3	9438.1	8116.9
70°	6923.6	6955.2	7539.0	9126.6	11839.7	12018.8	11936.0	11665.2	10128.8	9260.5	7605.2
72.5°	5438.3	5530.1	6001.1	7569.1	11037.7	11188.1	11212.2	11350.7	9871.5	8676.6	6461.6
75°	3944.1	3993.7	4527.9	5880.7	9526.9	9886.5	10309.3	10831.5	8903.9	7366.0	4777.7
77.5°	2779.4	2827.5	3330.1	4458.7	7710.6	8119.9	8884.3	9191.3	7224.5	5521.1	2514.5
80°	1829.8	1823.8	2302.3	3300.0	5785.9	6073.4	6640.7	6229.8	4192.4	2400.1	273.9
82.5°	1074.4	1134.6	1474.7	2267.7	4043.4	4202.9	4187.8	3280.5	1664.3	248.3	139.9
85°	620.0	642.5	869.8	1343.8	2228.6	2251.2	2016.4	1273.1	412.3	111.4	82.8
87.5°	276.9	266.3	346.1	443.9	406.3	302.5	188.1	52.7	31.6	21.1	13.5
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°	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0	2516.0
2.5°	2496.5	2488.9	2526.6	2505.5	2523.5	2513.0	2504.0	2516.0	2538.6	2558.2	2546.1
5°	2516.0	2520.5	2550.6	2525.0	2549.1	2544.6	2532.6	2546.1	2582.2	2600.3	2598.8
7.5°	2538.6	2541.6	2573.2	2562.7	2573.2	2564.2	2583.7	2574.7	2606.3	2618.3	2610.8
10°	2565.7	2570.2	2598.8	2600.3	2604.8	2598.8	2607.8	2612.3	2630.4	2654.5	2639.4
12.5°	2624.4	2634.9	2656.0	2678.5	2675.5	2651.4	2659.0	2634.9	2651.4	2659.0	2671.0
15°	2705.6	2731.2	2743.2	2774.8	2746.3	2732.7	2704.1	2656.0	2640.9	2633.4	2621.4
17.5°	2792.9	2817.0	2839.5	2880.2	2833.5	2797.4	2747.8	2657.5	2589.8	2565.7	2555.1
20°	2890.7	2913.3	2953.9	2981.0	2911.8	2833.5	2753.8	2621.4	2487.4	2395.6	2406.2
22.5°	3000.6	3050.2	3077.3	3069.8	2972.0	2865.1	2728.2	2526.6	2355.0	2218.1	2209.0
25°	3152.5	3181.1	3191.7	3122.4	3005.1	2842.6	2642.4	2413.7	2174.4	2020.9	1998.4
27.5°	3312.1	3342.1	3286.5	3157.1	2994.5	2789.9	2546.1	2221.1	1965.3	1817.8	1801.2
30°	3516.7	3509.2	3351.2	3146.5	2934.3	2663.5	2370.1	2023.9	1787.7	1650.8	1643.2
32.5°	3739.4	3683.7	3403.8	3095.4	2820.0	2498.0	2145.8	1837.4	1655.3	1518.3	1512.3
35°	4266.1	4010.3	3480.6	3030.7	2651.4	2269.2	1938.2	1697.4	1549.9	1394.9	1364.8
37.5°	5039.6	4627.2	3638.6	2964.4	2458.8	2043.5	1765.1	1593.6	1453.6	1288.1	1259.5
40°	5760.4	5254.7	3915.5	2914.8	2285.8	1861.4	1646.2	1521.3	1385.9	1220.4	1184.3
42.5°	6272.0	5742.3	4248.0	2833.5	2112.7	1717.0	1596.6	1494.3	1367.9	1214.4	1185.8
45°	6684.3	6163.6	4577.6	2741.7	1909.6	1593.6	1545.4	1471.7	1345.3	1196.3	1163.2
47.5°	6974.7	6428.5	4806.3	2637.9	1715.5	1518.3	1501.8	1435.6	1310.7	1170.7	1149.7
50°	7274.2	6724.9	4962.8	2531.1	1540.9	1461.2	1441.6	1354.3	1240.0	1115.1	1092.5
52.5°	7469.8	6869.4	5053.1	2510.0	1391.9	1382.9	1358.8	1276.1	1167.7	1032.3	1005.2
55°	7618.8	6997.3	5039.6	2386.6	1258.0	1280.6	1265.5	1203.8	1109.0	976.6	958.6
57.5°	7654.9	7016.9	4916.2	2004.4	1131.6	1143.6	1151.2	1163.2	1071.4	961.6	931.5
60°	7758.7	6925.1	4698.0	1441.6	982.6	1012.7	1072.9	1083.5	1020.3	895.4	877.3
62.5°	7692.5	6863.4	4224.0	1015.7	877.3	939.0	996.2	996.2	908.9	793.0	781.0
65°	7576.6	6619.6	3304.5	800.6	821.6	884.8	937.5	901.4	826.1	717.8	710.3
67.5°	7281.7	6025.2	1972.8	720.8	782.5	842.7	880.3	826.1	755.4	648.6	636.5
70°	6434.5	4801.8	750.9	683.2	743.4	785.5	809.6	753.9	684.7	577.8	567.3
72.5°	5108.8	3003.6	477.0	636.5	693.7	731.3	746.4	681.7	571.8	449.9	437.9
75°	3074.3	857.7	413.8	550.8	610.9	675.7	650.1	565.8	483.0	377.7	370.2
77.5°	778.0	260.3	368.7	443.9	496.6	573.3	571.8	510.1	421.3	308.5	296.4
80°	186.6	182.1	299.5	328.0	374.7	439.4	433.4	424.4	334.1	213.7	176.1
82.5°	118.9	126.4	203.1	183.6	213.7	255.8	290.4	273.9	249.8	130.9	117.4
85°	79.8	100.8	99.3	69.2	96.3	144.5	188.1	171.5	141.5	81.3	72.2
87.5°	12.0	13.5	18.1	27.1	42.1	70.7	93.3	91.8	69.2	51.2	48.2
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)