

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: P553541

Luminaire Tested: **VERD-G-CA2-140-760-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553541
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-CA2-140-760-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1290mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20356 lumens
Efficiency: N/A
Efficacy: 142.9 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

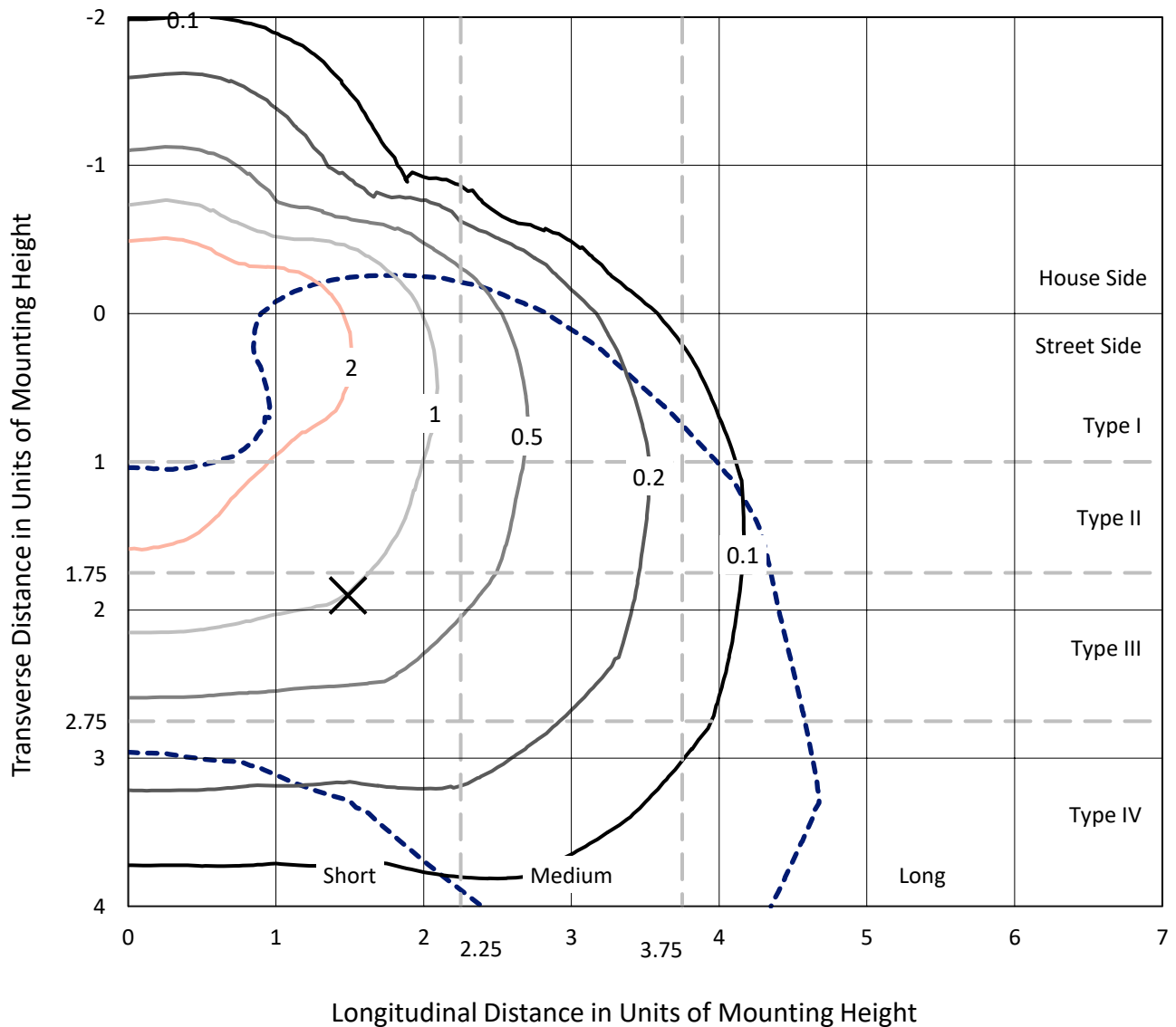
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

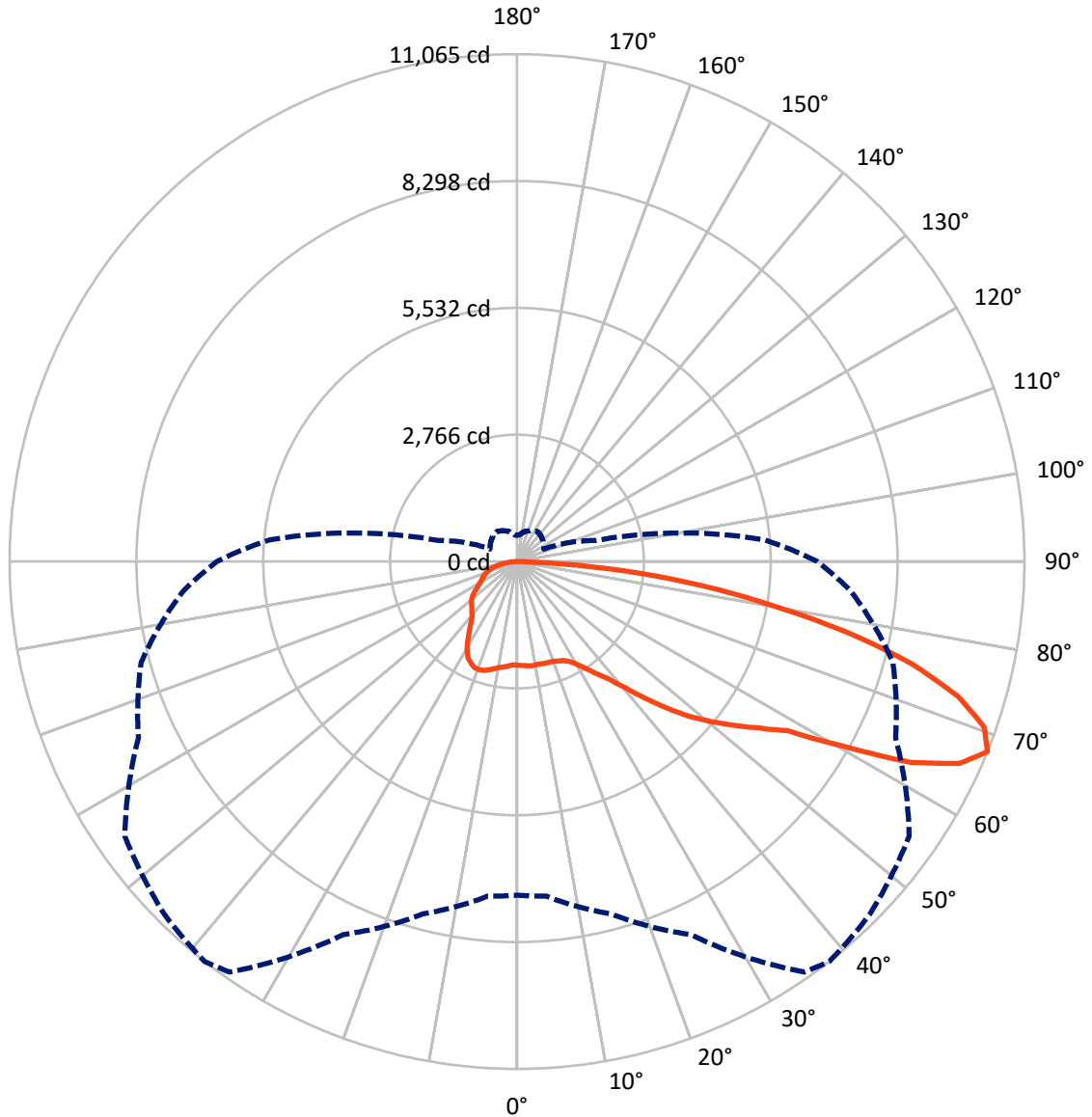
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	4723.2	0.0	4723.2
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	15632.8	0.0	15632.8
	% Fixture	76.8	0.0	76.8
Total	Lumens	20356.0	0.0	20356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.1
10°-20°	676.7	3.3
20°-30°	1147.0	5.6
30°-40°	1757.7	8.6
40°-50°	2896.1	14.2
50°-60°	4139.4	20.3
60°-70°	5156.6	25.3
70°-80°	3674.7	18.1
80°-90°	688.3	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°	20356.0	100.0
0°-180°	20356.0	100.0

Coefficient of Utilization



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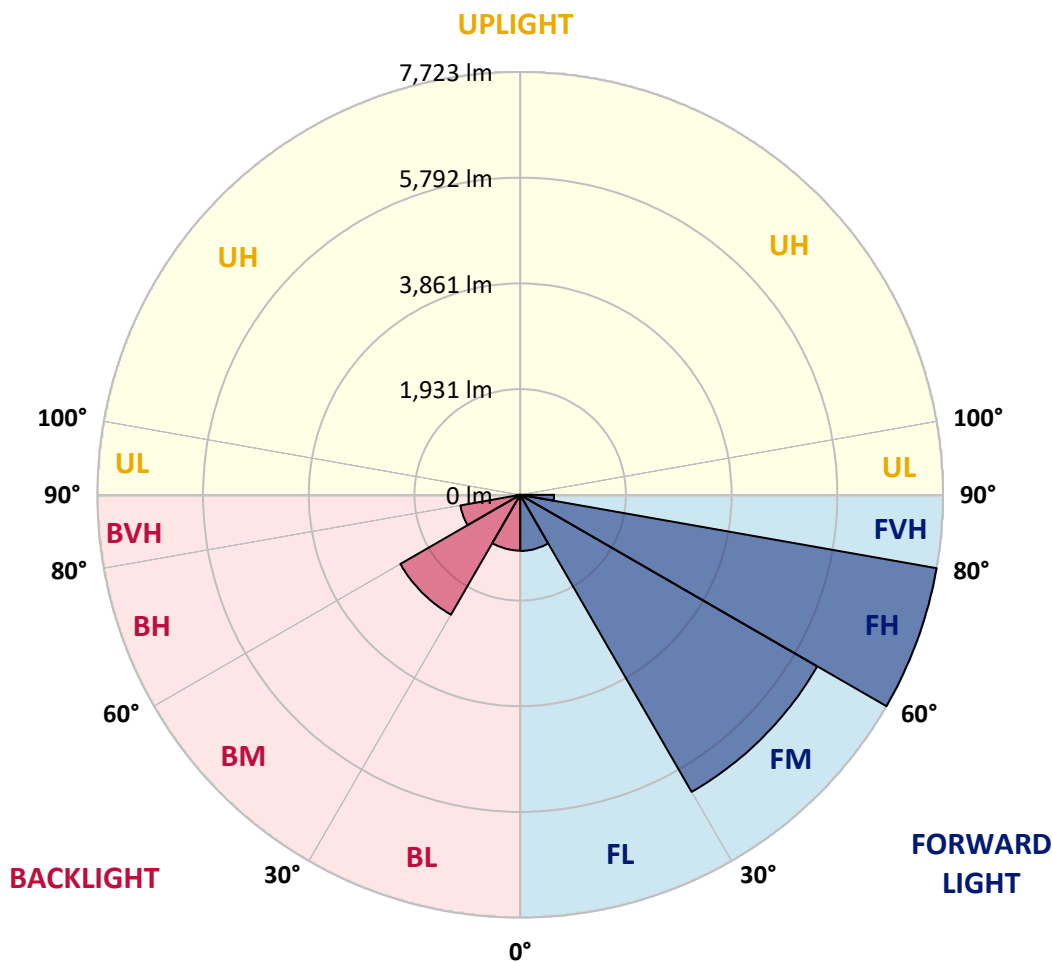
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.6	5.0			
FM (30°-60°)	6265.1	30.8			
FH (60°-80°)	7722.6	37.9			G4/12000
FVH (80°-90°)	620.5	3.0			G4/750
BL (0°-30°)	1018.5	5.0	B3/2500		
BM (30°-60°)	2528.1	12.4	B3/5000		
BH (60°-80°)	1108.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	67.8	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°	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6
2.5°	2303.5	2313.0	2295.4	2292.7	2281.9	2268.4	2271.1	2260.2	2246.7	2252.1	2254.8
5°	2317.1	2317.1	2303.5	2290.0	2284.6	2281.9	2284.6	2272.4	2269.7	2279.2	2271.1
7.5°	2304.9	2313.0	2290.0	2290.0	2280.5	2296.8	2298.1	2283.2	2294.1	2294.1	2292.7
10°	2302.2	2304.9	2295.4	2276.5	2275.1	2284.6	2303.5	2308.9	2314.3	2313.0	2318.4
12.5°	2271.1	2268.4	2249.4	2254.8	2280.5	2290.0	2322.5	2337.3	2357.6	2363.0	2365.7
15°	2231.8	2242.7	2244.0	2260.2	2287.3	2302.2	2334.6	2364.4	2409.0	2419.9	2418.5
17.5°	2235.9	2240.0	2246.7	2256.2	2298.1	2304.9	2357.6	2390.1	2445.6	2483.4	2502.4
20°	2261.6	2253.5	2267.0	2291.4	2314.3	2319.8	2375.2	2425.3	2501.0	2551.1	2572.7
22.5°	2304.9	2306.2	2313.0	2313.0	2329.2	2353.6	2405.0	2444.2	2537.5	2607.9	2645.7
25°	2345.5	2348.2	2356.3	2353.6	2380.6	2391.4	2440.1	2499.7	2606.5	2689.0	2762.1
27.5°	2406.3	2414.4	2409.0	2410.4	2463.1	2474.0	2495.6	2575.4	2685.0	2795.9	2925.7
30°	2519.9	2519.9	2514.5	2519.9	2576.8	2603.8	2610.6	2689.0	2778.3	2912.2	3108.3
32.5°	2683.6	2685.0	2651.1	2678.2	2741.8	2789.1	2809.4	2933.8	3033.9	3098.9	3351.8
35°	3033.9	3019.1	2983.9	2905.4	2946.0	3004.2	3069.1	3227.4	3447.8	3690.0	3944.3
37.5°	3570.9	3569.6	3445.1	3288.2	3217.9	3247.7	3338.3	3575.0	3919.9	4524.5	4749.1
40°	4167.4	4182.3	4002.4	3806.3	3599.3	3602.0	3625.0	3921.3	4420.4	5294.2	5411.9
42.5°	4762.6	4738.3	4539.4	4351.4	4070.1	4052.5	3991.6	4271.6	4943.9	5909.6	5925.9
45°	5292.8	5280.7	5060.2	4869.5	4604.3	4536.7	4467.7	4646.3	5443.0	6407.4	6300.5
47.5°	5790.6	5806.8	5502.5	5330.7	5068.3	5034.5	4954.7	5068.3	5936.7	6798.3	6604.9
50°	6357.3	6364.1	6000.3	5787.9	5528.2	5484.9	5453.8	5598.5	6446.6	7171.6	6914.6
52.5°	6991.7	6859.2	6504.8	6212.6	5963.7	5931.3	5913.7	6065.2	7005.3	7499.0	7118.9
55°	7789.8	7612.6	7250.1	6765.8	6403.3	6408.7	6347.9	6525.1	7476.0	7724.9	7317.7
57.5°	8138.8	8179.3	8111.7	7670.7	7035.0	6956.6	6806.4	6943.0	7923.7	7990.0	7474.6
60°	8796.1	8953.0	8807.0	8560.8	8372.8	8167.2	7434.0	7485.4	8332.2	8283.5	7492.2
62.5°	8840.8	8894.9	9356.1	9395.3	9578.0	9646.9	9039.6	8100.9	8702.8	8430.9	7551.7
65°	8402.5	8463.4	9019.3	9507.6	10512.6	10607.3	10415.2	9227.6	9003.1	8510.7	7504.4
67.5°	7275.8	7325.8	7957.5	8977.4	10927.9	11064.5	10877.8	10439.6	9108.6	8483.7	7296.1
70°	6223.4	6251.8	6776.7	8203.7	10642.5	10803.4	10729.0	10485.6	9104.5	8324.1	6836.2
72.5°	4888.4	4970.9	5394.3	6803.7	9921.5	10056.8	10078.4	10202.9	8873.2	7799.2	5808.2
75°	3545.2	3589.9	4070.1	5286.1	8563.5	8886.8	9266.8	9736.2	8003.5	6621.1	4294.6
77.5°	2498.3	2541.6	2993.4	4007.8	6930.9	7298.8	7985.9	8261.8	6494.0	4962.8	2260.2
80°	1644.8	1639.4	2069.5	2966.3	5200.9	5459.2	5969.1	5599.9	3768.4	2157.4	246.2
82.5°	965.8	1019.9	1325.6	2038.4	3634.5	3777.9	3764.4	2948.7	1496.0	223.2	125.8
85°	557.3	577.6	781.8	1207.9	2003.2	2023.5	1812.5	1144.3	370.6	100.1	74.4
87.5°	248.9	239.4	311.1	399.0	365.2	271.9	169.1	47.3	28.4	18.9	12.2
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°	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6	2261.6
2.5°	2244.0	2237.2	2271.1	2252.1	2268.4	2258.9	2250.8	2261.6	2281.9	2299.5	2288.6
5°	2261.6	2265.7	2292.7	2269.7	2291.4	2287.3	2276.5	2288.6	2321.1	2337.3	2336.0
7.5°	2281.9	2284.6	2313.0	2303.5	2313.0	2304.9	2322.5	2314.3	2342.8	2353.6	2346.8
10°	2306.2	2310.3	2336.0	2337.3	2341.4	2336.0	2344.1	2348.2	2364.4	2386.0	2372.5
12.5°	2359.0	2368.5	2387.4	2407.7	2405.0	2383.3	2390.1	2368.5	2383.3	2390.1	2400.9
15°	2432.0	2455.0	2465.8	2494.2	2468.5	2456.4	2430.7	2387.4	2373.9	2367.1	2356.3
17.5°	2510.5	2532.1	2552.4	2588.9	2547.0	2514.5	2469.9	2388.7	2327.9	2306.2	2296.8
20°	2598.4	2618.7	2655.2	2679.6	2617.3	2547.0	2475.3	2356.3	2235.9	2153.4	2162.9
22.5°	2697.1	2741.8	2766.1	2759.4	2671.4	2575.4	2452.3	2271.1	2116.9	1993.8	1985.7
25°	2833.8	2859.5	2868.9	2806.7	2701.2	2555.1	2375.2	2169.6	1954.5	1816.6	1796.3
27.5°	2977.1	3004.2	2954.1	2837.8	2691.7	2507.8	2288.6	1996.5	1766.5	1634.0	1619.1
30°	3161.1	3154.3	3012.3	2828.3	2637.6	2394.2	2130.4	1819.3	1606.9	1483.8	1477.1
32.5°	3361.3	3311.2	3059.6	2782.4	2534.8	2245.4	1928.8	1651.6	1487.9	1364.8	1359.4
35°	3834.7	3604.8	3128.6	2724.2	2383.3	2039.8	1742.2	1525.8	1393.2	1253.9	1226.8
37.5°	4529.9	4159.3	3270.7	2664.7	2210.2	1836.9	1586.6	1432.4	1306.6	1157.8	1132.1
40°	5177.9	4723.4	3519.5	2620.0	2054.6	1673.2	1479.8	1367.5	1245.8	1097.0	1064.5
42.5°	5637.8	5161.6	3818.5	2547.0	1899.1	1543.3	1435.1	1343.2	1229.5	1091.6	1065.9
45°	6008.4	5540.4	4114.7	2464.5	1716.5	1432.4	1389.1	1322.9	1209.2	1075.3	1045.6
47.5°	6269.4	5778.4	4320.3	2371.2	1542.0	1364.8	1349.9	1290.4	1178.1	1052.3	1033.4
50°	6538.6	6044.9	4461.0	2275.1	1385.1	1313.4	1295.8	1217.4	1114.6	1002.3	982.0
52.5°	6714.4	6174.7	4542.1	2256.2	1251.2	1243.1	1221.4	1147.0	1049.6	927.9	903.6
55°	6848.4	6289.7	4529.9	2145.3	1130.8	1151.1	1137.6	1082.1	996.9	877.9	861.6
57.5°	6880.8	6307.3	4419.0	1801.7	1017.2	1028.0	1034.8	1045.6	963.1	864.3	837.3
60°	6974.1	6224.8	4222.9	1295.8	883.3	910.3	964.4	973.9	917.1	804.8	788.6
62.5°	6914.6	6169.3	3796.8	913.0	788.6	844.0	895.4	895.4	817.0	712.8	702.0
65°	6810.5	5950.2	2970.4	719.6	738.5	795.3	842.7	810.2	742.6	645.2	638.4
67.5°	6545.4	5415.9	1773.3	647.9	703.4	757.5	791.3	742.6	679.0	583.0	572.2
70°	5783.8	4316.2	675.0	614.1	668.2	706.1	727.7	677.7	615.4	519.4	509.9
72.5°	4592.2	2699.8	428.8	572.2	623.6	657.4	670.9	612.7	514.0	404.4	393.6
75°	2763.4	771.0	372.0	495.1	549.2	607.3	584.3	508.6	434.2	339.5	332.7
77.5°	699.3	234.0	331.4	399.0	446.4	515.4	514.0	458.5	378.7	277.3	266.5
80°	167.7	163.7	269.2	294.9	336.8	395.0	389.6	381.4	300.3	192.1	158.3
82.5°	106.9	113.6	182.6	165.0	192.1	229.9	261.1	246.2	224.5	117.7	105.5
85°	71.7	90.6	89.3	62.2	86.6	129.9	169.1	154.2	127.1	73.0	64.9
87.5°	10.8	12.2	16.2	24.3	37.9	63.6	83.9	82.5	62.2	46.0	43.3
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)