

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: P509087

Luminaire Tested: **VERD-CA2-100-750-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-750-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1370mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14213 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

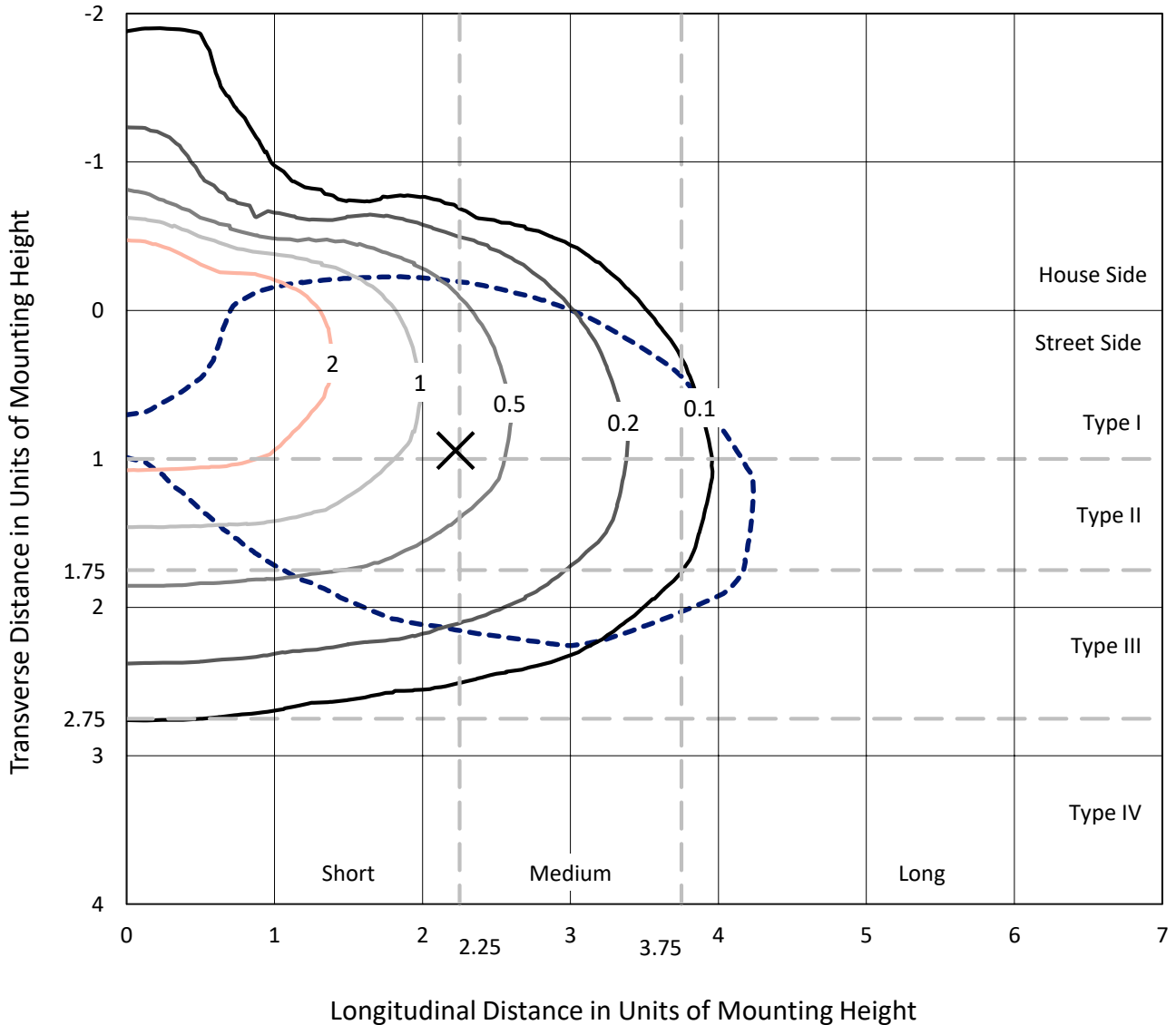
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

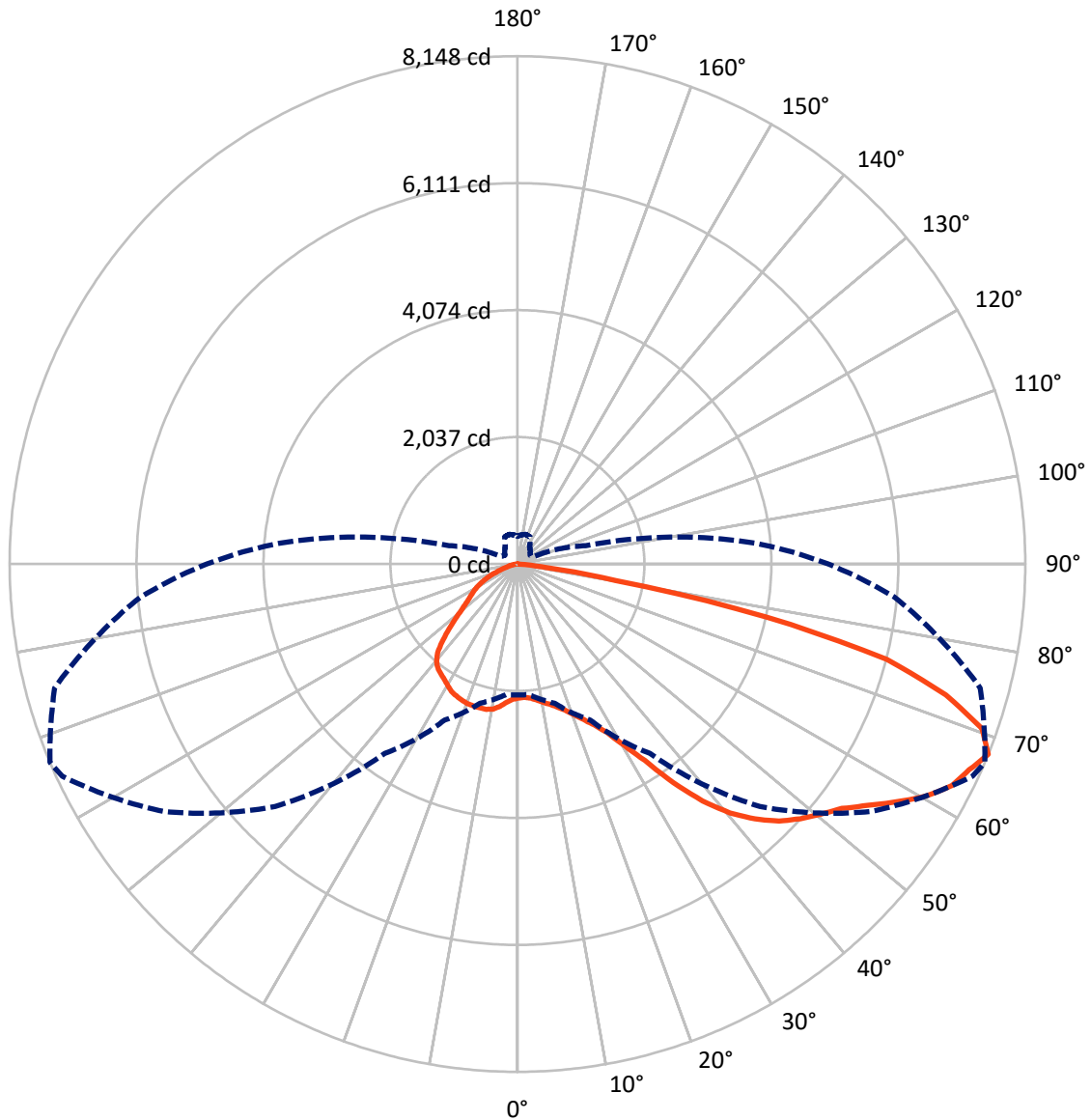
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3249.9	0.0	3249.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10963.1	0.0	10963.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	14213.0	0.0	14213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	1.5
10°-20°	696.9	4.9
20°-30°	1204.2	8.5
30°-40°	1827.8	12.9
40°-50°	2483.7	17.5
50°-60°	2953.9	20.8
60°-70°	3039.1	21.4
70°-80°	1657.9	11.7
80°-90°	131.7	0.9
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°	14213.0	100.0
0°-180°	14213.0	100.0

Coefficient of Utilization



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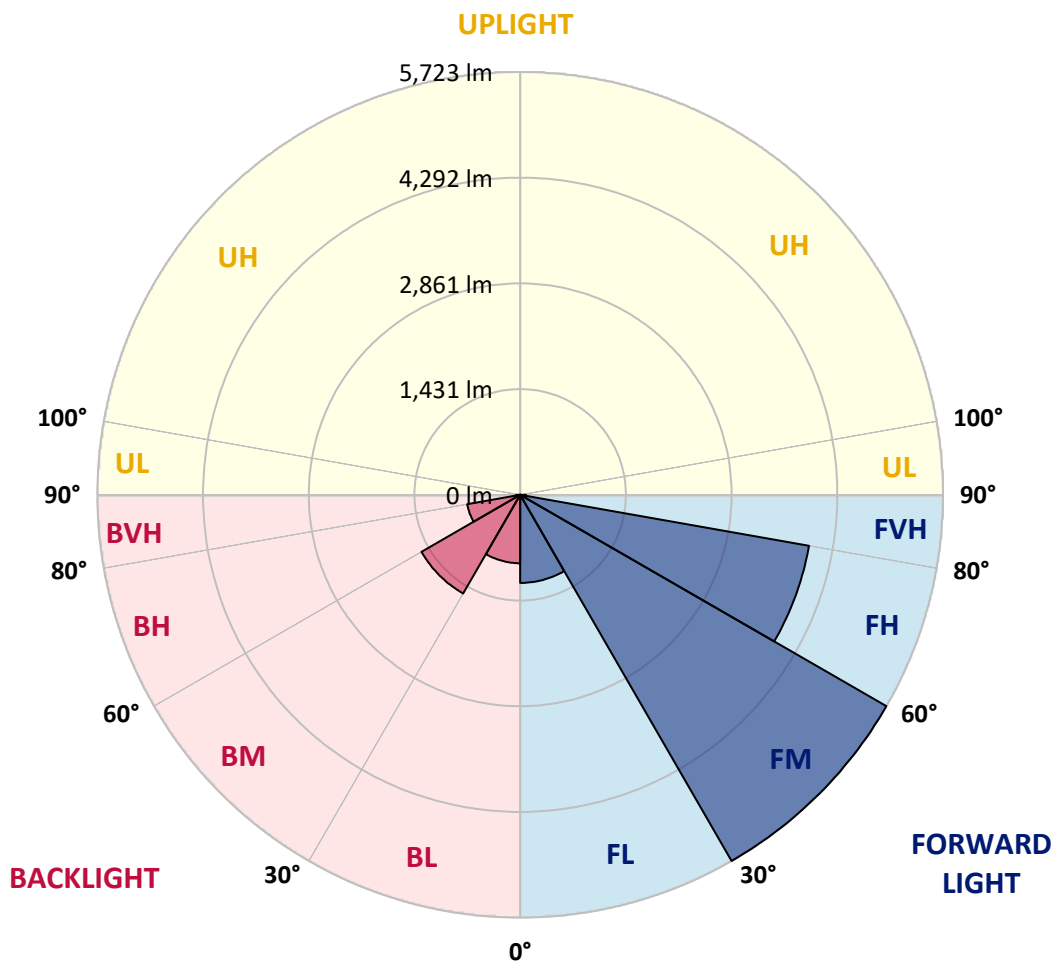
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.1	8.4			
FM (30°-60°)	5722.7	40.3			
FH (60°-80°)	3969.4	27.9			G2/5000
FVH (80°-90°)	78.8	0.6			G1/100
BL (0°-30°)	926.7	6.5	B2/1000		
BM (30°-60°)	1542.7	10.9	B2/2500		
BH (60°-80°)	727.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	52.9	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2
2.5°	2162.5	2153.3	2141.0	2145.6	2136.3	2151.7	2145.6	2142.5	2142.5	2144.0	2151.7
5°	2211.8	2202.5	2193.3	2191.8	2173.3	2179.4	2170.2	2161.0	2161.0	2159.4	2162.5
7.5°	2298.0	2285.6	2274.9	2273.3	2250.2	2247.2	2219.5	2201.0	2201.0	2199.4	2204.1
10°	2411.8	2407.2	2385.7	2371.8	2344.1	2325.7	2291.8	2262.6	2256.4	2247.2	2259.5
12.5°	2521.1	2519.6	2499.6	2484.2	2445.7	2413.4	2358.0	2318.0	2310.3	2299.5	2308.7
15°	2658.1	2644.3	2622.7	2613.5	2558.1	2508.8	2445.7	2385.7	2378.0	2365.7	2373.4
17.5°	2809.0	2801.3	2767.4	2756.6	2687.4	2630.4	2551.9	2475.0	2462.6	2445.7	2444.2
20°	2990.6	2976.7	2950.6	2919.8	2852.0	2770.5	2679.7	2591.9	2581.2	2567.3	2538.1
22.5°	3186.0	3170.7	3144.5	3112.2	3026.0	2939.8	2825.9	2715.1	2708.9	2699.7	2645.8
25°	3372.3	3346.1	3349.2	3318.4	3241.5	3132.2	2998.3	2865.9	2862.8	2861.3	2775.1
27.5°	3570.8	3543.1	3533.9	3523.1	3450.8	3347.7	3196.8	3070.6	3059.8	3061.4	2930.5
30°	3757.1	3744.8	3737.1	3729.4	3694.0	3601.6	3456.9	3344.6	3378.4	3375.4	3195.3
32.5°	3901.7	3892.5	3924.8	3961.8	3952.5	3875.6	3775.5	3724.7	3758.6	3867.9	3710.9
35°	4029.5	4024.9	4086.4	4164.9	4220.4	4164.9	4154.2	4232.7	4311.2	4492.8	4402.0
37.5°	4168.0	4161.9	4214.2	4348.1	4445.1	4462.0	4543.6	4745.2	4820.6	5002.2	4811.4
40°	4166.5	4174.2	4300.4	4471.2	4648.2	4791.4	4959.1	5154.6	5251.6	5337.8	5042.3
42.5°	4098.8	4103.4	4261.9	4586.7	4843.7	5125.4	5274.7	5525.6	5591.7	5608.7	5314.7
45°	4029.5	4032.6	4205.0	4569.7	5006.9	5437.8	5604.0	5833.4	5884.2	5825.7	5499.4
47.5°	3929.5	3949.5	4135.7	4552.8	5146.9	5725.6	5859.5	6087.3	6107.4	6033.5	5653.3
50°	3810.9	3821.7	4035.7	4497.4	5239.3	5904.2	6062.7	6269.0	6307.4	6224.3	5844.2
52.5°	3666.3	3675.5	3907.9	4423.5	5290.1	6041.2	6218.2	6464.4	6516.8	6479.8	6011.9
55°	3500.0	3504.6	3741.7	4303.5	5276.2	6101.2	6353.6	6741.5	6829.2	6738.4	6152.0
57.5°	3292.2	3309.2	3578.5	4123.4	5171.5	6176.6	6598.3	7083.2	7195.5	7001.6	6256.6
60°	3078.3	3095.2	3340.0	3914.1	4996.1	6210.5	6850.8	7451.0	7549.5	7250.9	6321.3
62.5°	2838.2	2861.3	3064.4	3598.5	4682.1	6165.8	7037.0	7772.7	7828.1	7400.2	6304.4
65°	2488.8	2501.1	2722.8	3218.4	4272.7	5933.4	7029.3	7945.1	7963.6	7564.9	6230.5
67.5°	2100.9	2102.5	2311.8	2759.7	3709.4	5499.4	6921.6	8057.5	8148.3	7686.5	6068.9
70°	1597.6	1619.2	1782.3	2114.8	3032.1	4757.5	6566.0	7946.6	7903.5	7354.1	5605.6
72.5°	1140.5	1128.2	1211.3	1436.0	2122.5	3670.9	5661.0	7180.1	7189.4	6698.4	4877.6
75°	606.4	609.5	680.3	869.6	1083.6	2388.8	4528.2	6065.8	6121.2	5744.1	3817.1
77.5°	135.4	153.9	234.0	332.5	471.0	765.0	2456.5	3978.7	4083.4	3780.2	2091.7
80°	104.7	106.2	153.9	189.3	207.8	366.3	780.3	1443.7	1602.3	1513.0	786.5
82.5°	69.3	70.8	101.6	104.7	100.0	167.8	354.0	432.5	475.6	415.6	292.4
85°	36.9	38.5	46.2	50.8	40.0	49.3	46.2	36.9	38.5	33.9	33.9
87.5°	7.7	4.6	6.2	4.6	4.6	3.1	4.6	4.6	4.6	4.6	4.6
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°	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2	2150.2
2.5°	2151.7	2154.8	2162.5	2174.8	2181.0	2194.8	2204.1	2227.2	2259.5	2248.7	2234.8
5°	2164.0	2173.3	2199.4	2231.8	2256.4	2293.3	2311.8	2356.4	2393.4	2390.3	2365.7
7.5°	2210.2	2230.2	2262.6	2310.3	2351.8	2388.8	2414.9	2462.6	2496.5	2482.7	2459.6
10°	2268.7	2288.7	2324.1	2367.2	2398.0	2438.0	2454.9	2493.4	2515.0	2498.0	2478.0
12.5°	2322.6	2333.4	2358.0	2390.3	2407.2	2433.4	2441.1	2468.8	2488.8	2481.1	2456.5
15°	2374.9	2373.4	2378.0	2387.2	2393.4	2399.5	2401.1	2421.1	2434.9	2419.5	2402.6
17.5°	2433.4	2418.0	2398.0	2382.6	2359.5	2348.7	2328.7	2338.0	2336.4	2324.1	2310.3
20°	2507.3	2479.6	2418.0	2370.3	2310.3	2262.6	2221.0	2213.3	2213.3	2179.4	2177.9
22.5°	2595.0	2548.8	2445.7	2341.0	2244.1	2168.7	2091.7	2047.1	2014.7	1990.1	1979.3
25°	2708.9	2624.3	2470.3	2301.0	2157.9	2020.9	1905.5	1843.9	1782.3	1742.3	1736.2
27.5°	2830.5	2738.1	2485.7	2265.6	2039.4	1851.6	1691.5	1565.3	1508.4	1482.2	1457.6
30°	3029.0	2865.9	2513.4	2190.2	1890.1	1643.8	1431.4	1283.7	1228.2	1209.8	1194.4
32.5°	3510.8	3196.8	2539.6	2113.3	1730.0	1414.5	1134.4	1009.7	962.0	980.4	986.6
35°	4114.2	3689.3	2664.3	2024.0	1563.8	1154.4	872.7	789.6	792.7	820.4	829.6
37.5°	4523.6	4123.4	2918.2	1911.6	1325.2	855.8	675.7	649.5	672.6	697.2	701.9
40°	4763.7	4321.9	3096.8	1773.1	1043.5	640.3	507.9	489.4	538.7	594.1	628.0
42.5°	5019.2	4491.2	3189.1	1593.0	732.6	463.3	389.4	403.3	481.8	529.5	551.0
45°	5156.2	4623.6	3147.6	1336.0	498.7	360.2	349.4	387.9	466.4	509.5	515.6
47.5°	5303.9	4756.0	3047.5	1068.2	381.7	341.7	343.2	389.4	469.4	515.6	515.6
50°	5431.7	4865.3	2869.0	837.3	363.2	329.4	344.8	397.1	474.1	514.1	512.5
52.5°	5579.4	4914.5	2615.0	677.2	344.8	318.6	346.3	403.3	466.4	489.4	486.4
55°	5625.6	4879.1	2493.4	566.4	330.9	312.4	352.5	412.5	463.3	467.9	460.2
57.5°	5625.6	4783.7	2354.9	483.3	318.6	312.4	355.5	411.0	480.2	509.5	506.4
60°	5601.0	4683.6	2142.5	432.5	301.7	309.4	357.1	434.0	571.0	603.3	601.8
62.5°	5522.5	4522.0	1880.8	381.7	284.7	310.9	352.5	466.4	652.6	638.7	604.9
65°	5336.2	4217.3	1525.3	335.5	266.3	310.9	346.3	512.5	580.3	554.1	541.8
67.5°	4985.3	3834.0	1134.4	287.8	244.7	290.9	337.1	480.2	492.5	463.3	444.8
70°	4522.0	3247.6	728.0	243.2	221.6	274.0	330.9	451.0	475.6	440.2	417.1
72.5°	3767.8	2579.6	421.7	198.6	187.8	252.4	318.6	437.1	467.9	420.2	387.9
75°	2658.1	1628.4	277.0	146.2	150.8	215.5	295.5	409.4	438.7	380.2	334.0
77.5°	1354.5	611.0	197.0	107.7	101.6	164.7	255.5	377.1	432.5	383.2	327.8
80°	478.7	307.8	129.3	70.8	66.2	101.6	195.5	320.1	406.3	374.0	363.2
82.5°	204.7	153.9	70.8	44.6	40.0	50.8	110.8	252.4	357.1	338.6	409.4
85°	29.2	26.2	20.0	16.9	16.9	23.1	35.4	124.7	241.6	275.5	334.0
87.5°	4.6	4.6	4.6	3.1	3.1	3.1	1.5	18.5	80.0	120.1	166.2
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)