

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: P399901

Luminaire Tested: **ARCH-L-PA3-200-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22962 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

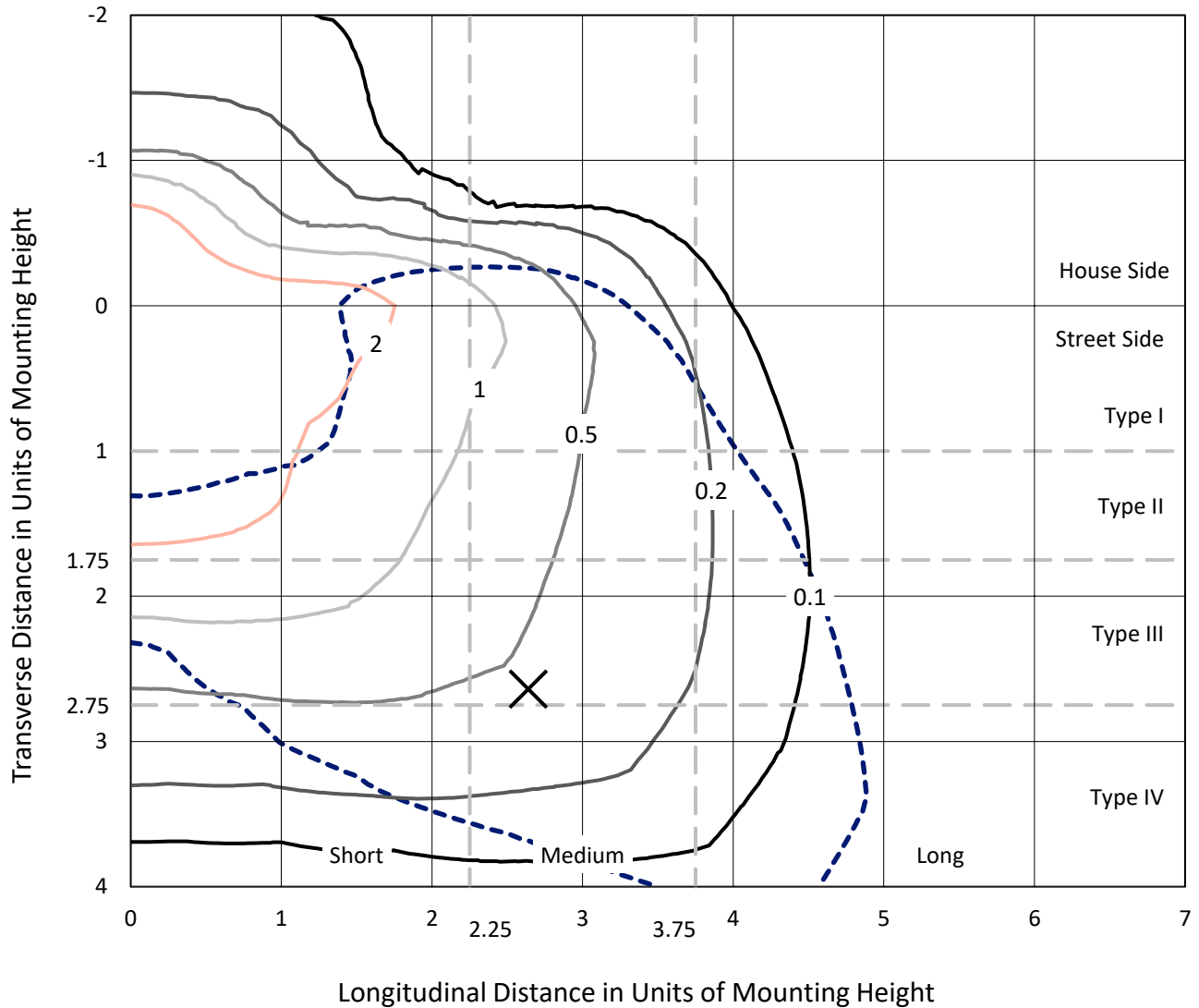
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

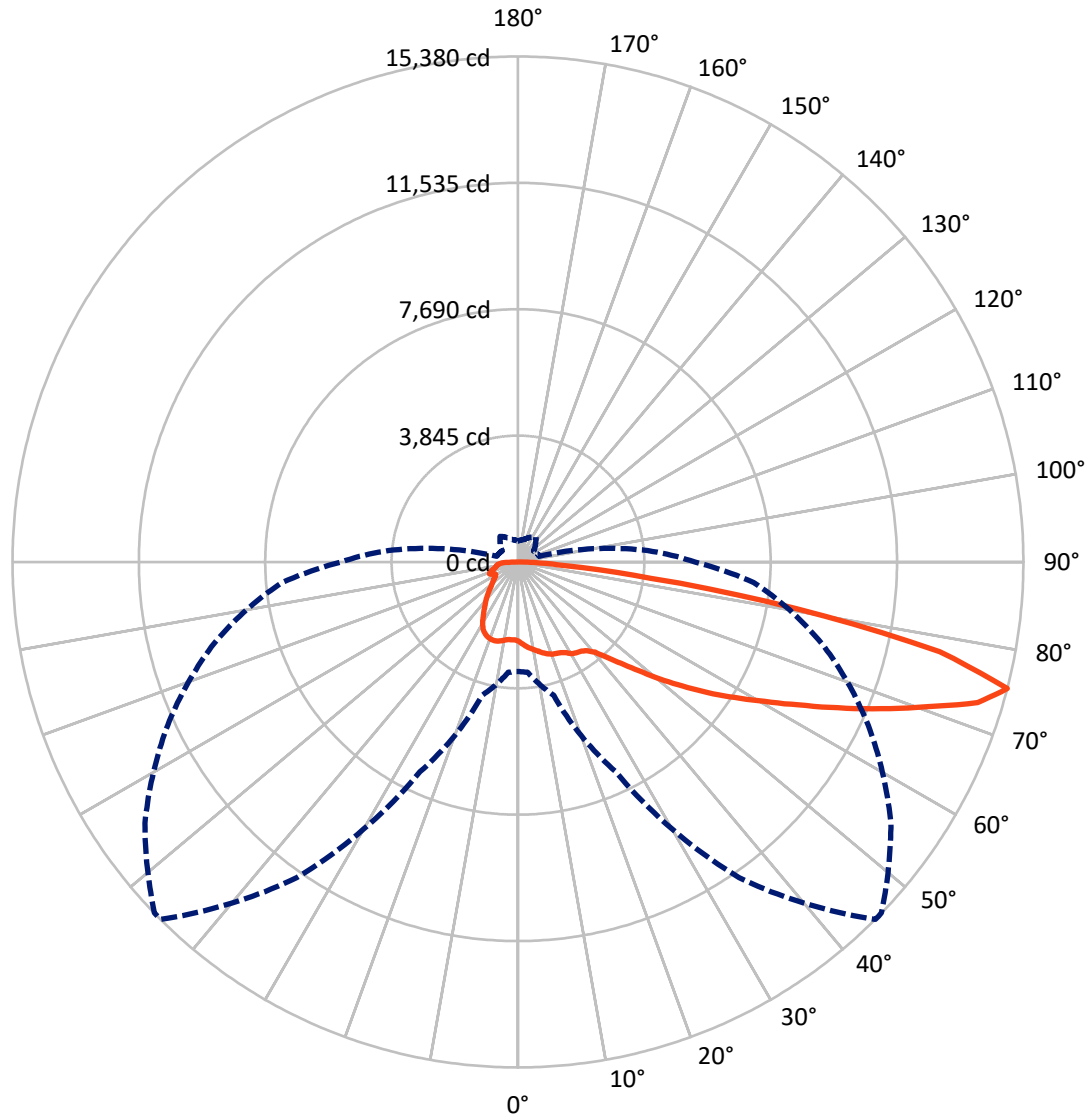
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5074.5	0.0	5074.5
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	17887.5	0.0	17887.5
	% Fixture	77.9	0.0	77.9
Total	Lumens	22962.0	0.0	22962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.6	1.0
10°-20°	759.0	3.3
20°-30°	1293.9	5.6
30°-40°	1813.0	7.9
40°-50°	2663.5	11.6
50°-60°	4239.0	18.5
60°-70°	6030.0	26.3
70°-80°	5048.9	22.0
80°-90°	876.2	3.8
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°	22962.0	100.0
0°-180°	22962.0	100.0

Coefficient of Utilization

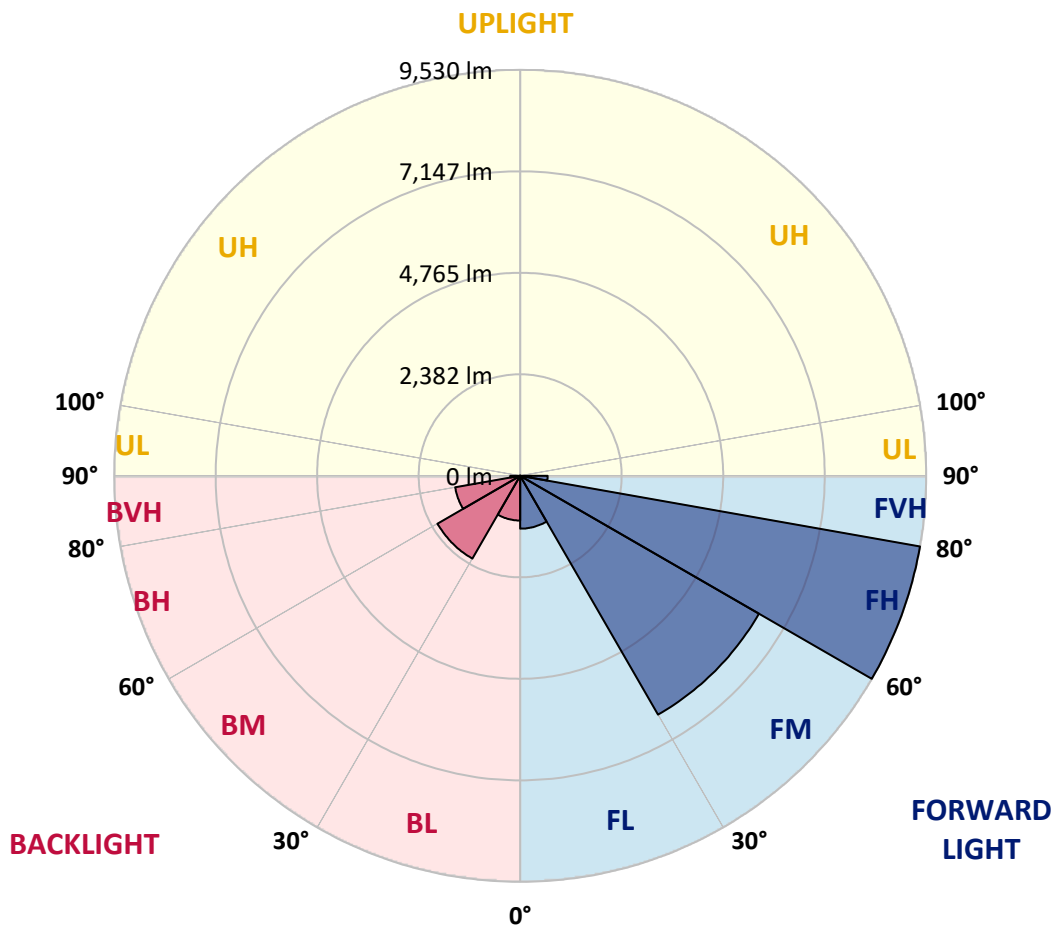


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.2	5.4			
FM (30°-60°)	6472.3	28.2			
FH (60°-80°)	9529.8	41.5			G4/12000
FVH (80°-90°)	644.2	2.8			G4/750
BL (0°-30°)	1050.2	4.6	B3/2500		
BM (30°-60°)	2243.2	9.8	B2/2500		
BH (60°-80°)	1549.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	232.1	1.0			G3/500
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5
2.5°	2549.6	2537.3	2531.2	2531.2	2506.6	2491.3	2488.2	2466.7	2448.3	2429.9	2414.6
5°	2696.8	2687.6	2669.2	2653.9	2620.1	2577.2	2571.1	2525.0	2479.0	2436.1	2399.2
7.5°	2831.8	2813.4	2792.0	2761.3	2706.0	2647.8	2638.6	2574.1	2509.7	2445.3	2396.2
10°	2945.4	2927.0	2896.3	2853.3	2782.8	2712.2	2703.0	2635.5	2568.0	2491.3	2420.7
12.5°	3052.7	3037.4	2991.4	2933.1	2850.2	2785.8	2776.6	2718.3	2647.8	2561.8	2469.8
15°	3144.8	3129.4	3080.4	3012.9	2917.7	2868.7	2856.4	2801.2	2730.6	2638.6	2543.4
17.5°	3190.8	3190.8	3138.6	3065.0	2976.0	2939.2	2930.0	2862.5	2798.1	2709.1	2614.0
20°	3206.1	3212.3	3175.5	3086.5	3009.8	2994.4	2985.2	2930.0	2856.4	2770.5	2681.5
22.5°	3215.3	3227.6	3196.9	3095.7	3031.3	3022.1	3015.9	2979.1	2920.8	2838.0	2749.0
25°	3246.0	3246.0	3224.6	3111.0	3058.9	3055.8	3055.8	3034.3	2994.4	2923.9	2834.9
27.5°	3292.1	3289.0	3261.4	3144.8	3120.2	3129.4	3126.4	3123.3	3095.7	3025.1	2930.0
30°	3368.8	3368.8	3338.1	3212.3	3196.9	3236.8	3239.9	3246.0	3203.1	3092.6	3015.9
32.5°	3485.3	3473.1	3442.4	3279.8	3255.2	3292.1	3298.2	3295.1	3258.3	3154.0	3117.2
35°	3844.3	3816.7	3706.2	3430.1	3307.4	3328.9	3331.9	3347.3	3353.4	3270.6	3252.2
37.5°	4473.3	4436.4	4267.7	3786.0	3473.1	3420.9	3417.8	3457.7	3491.5	3417.8	3417.8
40°	5157.4	5126.8	5028.6	4399.6	3779.9	3608.1	3595.8	3632.6	3675.6	3623.4	3638.7
42.5°	5746.5	5771.1	5780.3	5050.1	4240.1	3957.8	3924.1	3871.9	3939.4	3893.4	3954.8
45°	6188.3	6176.0	6344.8	5715.8	4835.3	4396.6	4350.5	4209.4	4295.3	4292.2	4427.2
47.5°	6657.7	6636.3	6706.8	6341.7	5513.3	4933.5	4862.9	4654.3	4783.1	4872.1	5096.1
50°	7102.6	7108.7	7133.3	6835.7	6249.7	5587.0	5498.0	5218.8	5402.9	5590.0	5906.1
52.5°	7682.5	7639.5	7608.8	7412.5	7075.0	6268.1	6209.8	5890.7	6148.4	6369.3	6789.7
55°	8188.7	8161.1	8142.7	8133.5	7765.3	7019.8	6958.4	6627.1	6998.3	7154.8	7774.5
57.5°	8728.7	8713.4	8811.5	8968.0	8820.7	7783.7	7719.3	7400.2	7814.4	7924.9	8842.2
60°	9124.5	9133.7	9403.7	9802.5	9701.3	8612.1	8535.4	8253.1	8609.0	8707.2	9909.9
62.5°	9127.5	9219.6	9845.5	10560.3	10676.9	9566.3	9477.3	9170.5	9425.1	9425.1	10867.1
65°	8256.2	8360.5	9765.7	10747.5	11664.8	10701.5	10615.6	10133.9	10229.0	10100.1	11766.1
67.5°	7387.9	7510.7	8833.0	10762.8	12358.2	11916.4	11815.2	11097.3	10934.6	10609.4	12395.1
70°	6811.1	6897.0	8001.6	10563.4	12775.5	13186.6	13109.9	12011.5	11490.0	11035.9	12263.1
72.5°	5734.2	5703.6	6759.0	9615.4	13008.7	14628.6	14564.2	13005.6	11971.7	10833.4	10459.1
75°	3328.9	3365.7	4194.1	7044.3	11726.2	15380.3	15374.2	13855.5	11760.0	9569.3	7206.9
77.5°	960.3	987.9	1377.6	3095.7	7415.6	13119.1	13539.4	12671.2	9940.6	6820.3	3736.9
80°	420.3	441.8	598.3	1030.9	3193.9	8569.2	8937.3	8569.2	5995.0	3129.4	1466.5
82.5°	248.5	263.9	389.6	638.2	1531.0	4077.5	4574.5	3994.6	2586.4	1328.5	607.5
85°	141.1	147.3	224.0	405.0	963.4	1426.7	1601.5	1500.3	1261.0	754.7	319.1
87.5°	64.4	67.5	110.5	190.2	540.0	481.7	500.1	662.7	730.2	460.2	159.5
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°	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5	2411.5
2.5°	2408.4	2399.2	2380.8	2374.7	2365.5	2368.6	2371.6	2371.6	2374.7	2365.5	2365.5
5°	2383.9	2368.6	2350.2	2350.2	2350.2	2374.7	2396.2	2408.4	2414.6	2414.6	2408.4
7.5°	2374.7	2356.3	2334.8	2340.9	2347.1	2377.8	2417.6	2457.5	2469.8	2469.8	2463.7
10°	2393.1	2374.7	2359.4	2368.6	2383.9	2408.4	2439.1	2475.9	2506.6	2509.7	2506.6
12.5°	2436.1	2414.6	2399.2	2417.6	2436.1	2451.4	2466.7	2482.1	2522.0	2528.1	2528.1
15°	2506.6	2485.1	2466.7	2482.1	2488.2	2488.2	2488.2	2488.2	2528.1	2534.2	2534.2
17.5°	2577.2	2558.8	2540.4	2543.4	2525.0	2500.5	2491.3	2488.2	2509.7	2528.1	2531.2
20°	2644.7	2629.3	2610.9	2580.3	2534.2	2488.2	2472.9	2472.9	2485.1	2512.8	2512.8
22.5°	2718.3	2699.9	2669.2	2598.7	2522.0	2457.5	2442.2	2451.4	2466.7	2503.6	2500.5
25°	2801.2	2776.6	2724.5	2592.5	2482.1	2405.4	2408.4	2436.1	2463.7	2503.6	2503.6
27.5°	2893.2	2859.5	2755.1	2543.4	2393.1	2319.5	2347.1	2411.5	2451.4	2494.4	2500.5
30°	2994.4	2963.8	2779.7	2457.5	2248.9	2181.4	2248.9	2353.2	2414.6	2454.5	2463.7
32.5°	3117.2	3092.6	2801.2	2347.1	2061.8	2003.5	2101.6	2230.5	2328.7	2374.7	2383.9
35°	3270.6	3246.0	2828.8	2221.3	1886.9	1825.5	1914.5	2046.4	2175.3	2233.6	2252.0
37.5°	3470.0	3433.2	2853.3	2086.3	1739.6	1669.0	1712.0	1831.6	1948.2	2028.0	2049.5
40°	3724.7	3666.4	2874.8	1932.9	1610.7	1531.0	1546.3	1604.6	1672.1	1742.7	1770.3
42.5°	4083.6	3967.0	2877.9	1770.3	1478.8	1405.2	1399.0	1417.5	1417.5	1417.5	1426.7
45°	4583.7	4362.8	2884.0	1616.9	1343.8	1267.1	1248.7	1242.6	1196.6	1107.6	1101.4
47.5°	5215.7	4881.3	2911.6	1488.0	1202.7	1135.2	1110.6	1086.1	1000.2	908.2	889.7
50°	6025.7	5482.7	2966.8	1365.3	1083.0	1037.0	1006.3	948.0	852.9	782.4	764.0
52.5°	6958.4	6197.5	3019.0	1236.4	994.1	963.4	926.6	856.0	754.7	711.8	705.7
55°	8029.2	6995.2	3123.3	1122.9	917.4	895.9	862.1	794.6	717.9	687.3	684.2
57.5°	9124.5	7888.0	3270.6	1021.7	843.7	831.5	831.5	773.2	724.1	711.8	711.8
60°	10179.9	8655.1	3157.1	926.6	776.2	782.4	840.7	825.3	788.5	803.8	813.0
62.5°	10999.1	9106.1	2561.8	849.9	727.1	782.4	932.7	932.7	889.7	883.6	883.6
65°	11348.8	9099.9	1801.0	791.6	708.7	859.1	1040.1	991.0	877.5	834.5	825.3
67.5°	11259.9	8701.1	1242.6	751.7	702.6	938.8	1089.2	951.1	822.2	785.4	757.8
70°	10477.5	7857.4	957.2	714.9	693.4	905.1	1073.8	905.1	779.3	745.5	721.0
72.5°	8452.6	6301.8	794.6	678.0	656.6	837.6	1021.7	862.1	745.5	708.7	684.2
75°	5390.6	3964.0	671.9	629.0	586.0	751.7	951.1	819.2	708.7	659.6	641.2
77.5°	2592.5	1708.9	586.0	570.7	527.7	696.5	880.5	764.0	659.6	619.8	607.5
80°	1049.3	782.4	509.3	512.4	484.8	662.7	831.5	711.8	610.5	567.6	546.1
82.5°	546.1	454.1	429.5	441.8	441.8	632.0	794.6	668.8	567.6	549.2	478.6
85°	294.5	282.3	331.4	355.9	383.5	570.7	739.4	622.8	518.5	444.9	429.5
87.5°	144.2	184.1	187.2	214.8	266.9	457.1	622.8	521.6	432.6	359.0	352.8
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)