

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: P399514

Luminaire Tested: **ARCH-L-PA3-150-750-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399514
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-PA3-150-750-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23713 lumens
Efficiency: N/A
Efficacy: 155.0 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

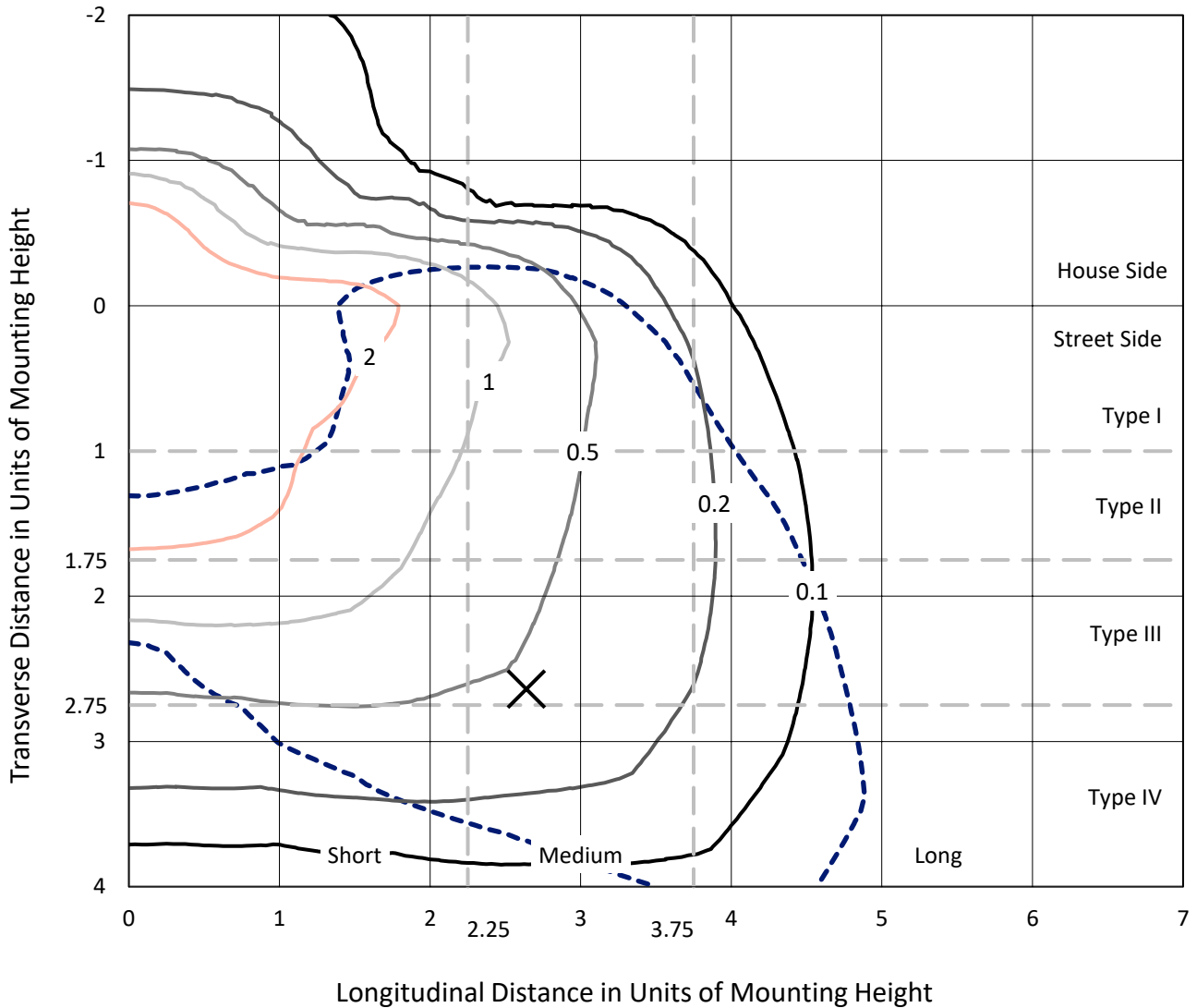
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

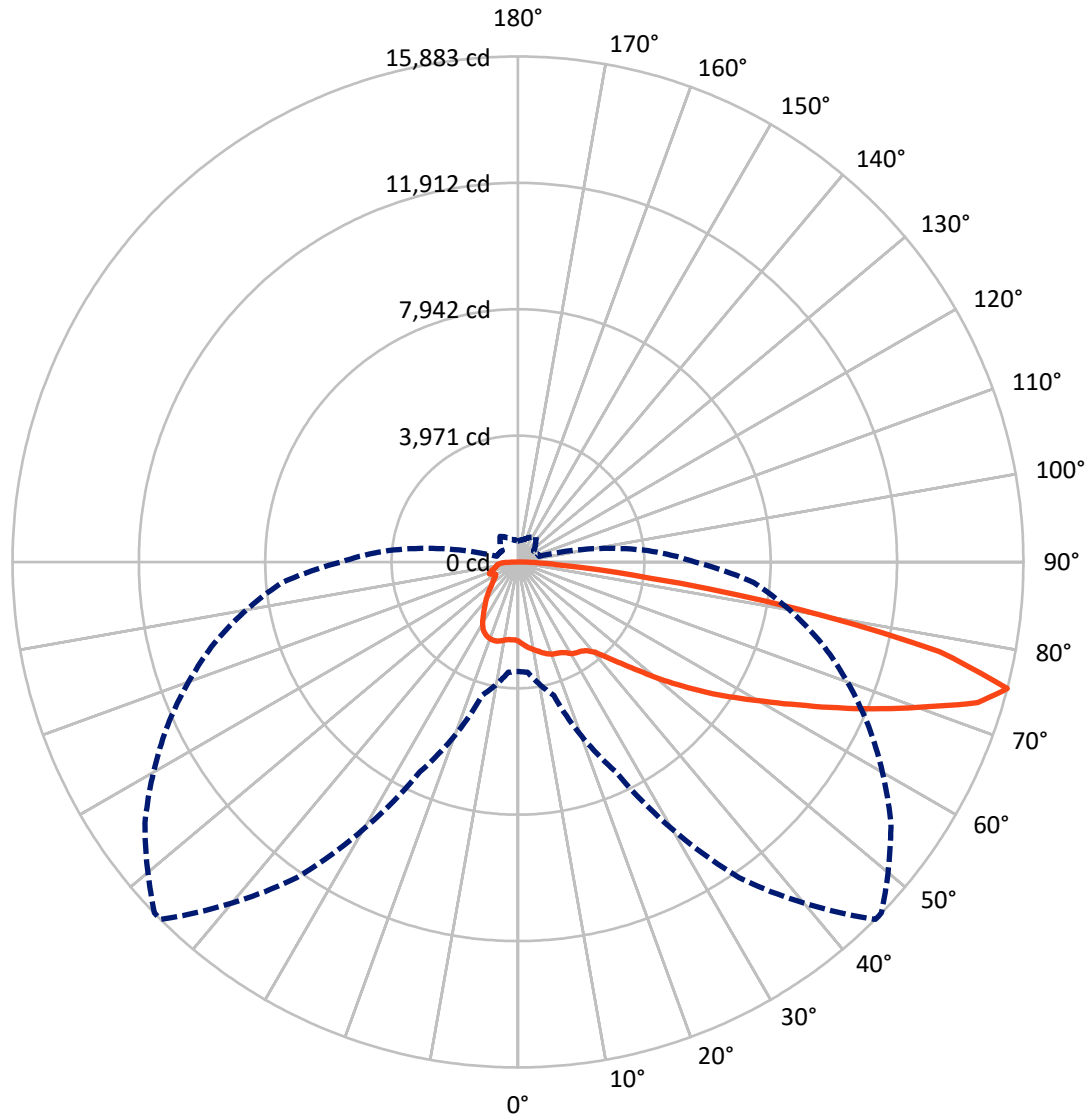
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	5240.4	0.0	5240.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	18472.5	0.0	18472.5
	% Fixture	77.9	0.0	77.9
Total	Lumens	23713.0	0.0	23713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	1.0
10°-20°	783.8	3.3
20°-30°	1336.2	5.6
30°-40°	1872.3	7.9
40°-50°	2750.6	11.6
50°-60°	4377.6	18.5
60°-70°	6227.2	26.3
70°-80°	5214.0	22.0
80°-90°	904.9	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°	23713.0	100.0
0°-180°	23713.0	100.0

Coefficient of Utilization



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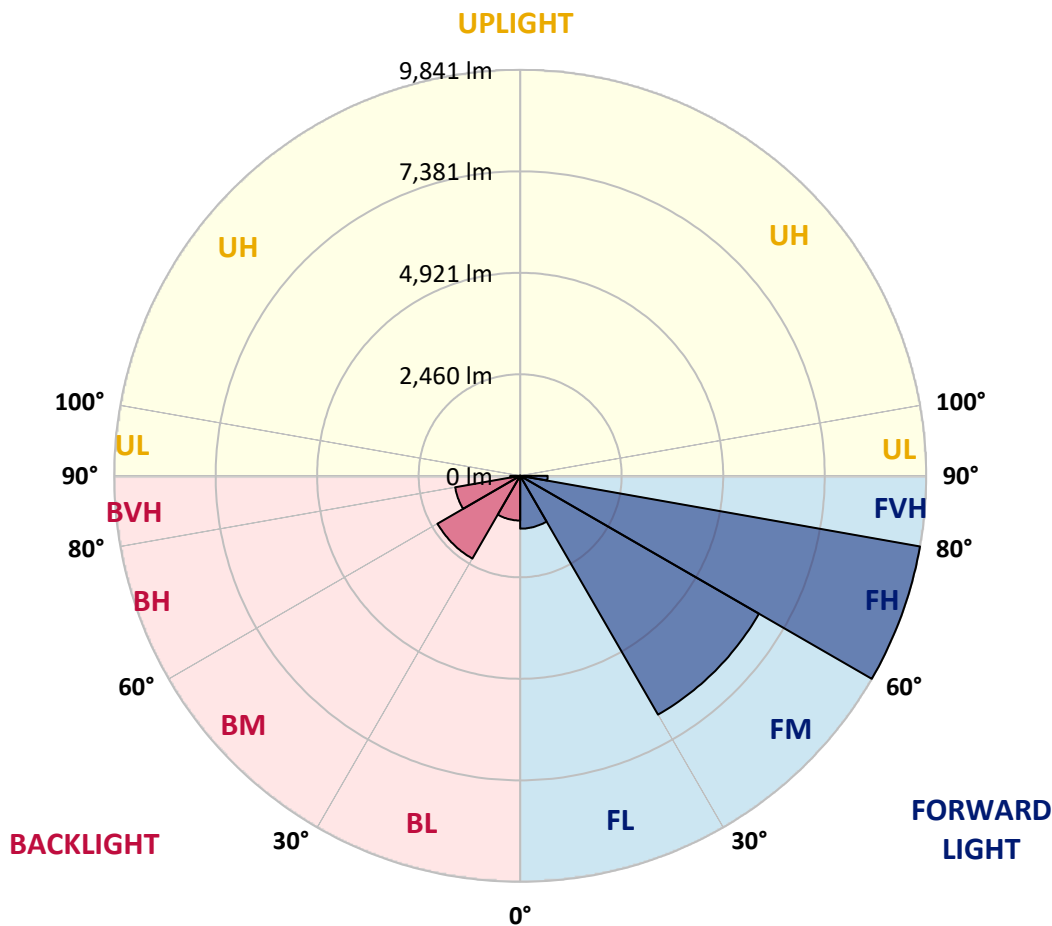
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.8	5.4			
FM (30°-60°)	6684.0	28.2			
FH (60°-80°)	9841.5	41.5			G4/12000
FVH (80°-90°)	665.2	2.8			G4/750
BL (0°-30°)	1084.6	4.6	B3/2500		
BM (30°-60°)	2316.5	9.8	B2/2500		
BH (60°-80°)	1599.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	239.6	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°	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4
2.5°	2633.0	2620.3	2614.0	2614.0	2588.6	2572.8	2569.6	2547.4	2528.4	2509.4	2493.6
5°	2785.0	2775.5	2756.5	2740.7	2705.8	2661.5	2655.1	2607.6	2560.1	2515.7	2477.7
7.5°	2924.5	2905.4	2883.3	2851.6	2794.6	2734.4	2724.8	2658.3	2591.8	2525.2	2474.5
10°	3041.7	3022.7	2991.0	2946.6	2873.8	2800.9	2791.4	2721.7	2652.0	2572.8	2499.9
12.5°	3152.6	3136.7	3089.2	3029.0	2943.5	2876.9	2867.4	2807.2	2734.4	2645.6	2550.6
15°	3247.6	3231.8	3181.1	3111.4	3013.2	2962.5	2949.8	2892.8	2819.9	2724.8	2626.6
17.5°	3295.2	3295.2	3241.3	3165.3	3073.4	3035.4	3025.8	2956.1	2889.6	2797.7	2699.5
20°	3311.0	3317.3	3279.3	3187.4	3108.2	3092.4	3082.9	3025.8	2949.8	2861.1	2769.2
22.5°	3320.5	3333.2	3301.5	3196.9	3130.4	3120.9	3114.6	3076.5	3016.3	2930.8	2838.9
25°	3352.2	3352.2	3330.0	3212.8	3158.9	3155.8	3155.8	3133.6	3092.4	3019.5	2927.6
27.5°	3399.7	3396.6	3368.0	3247.6	3222.3	3231.8	3228.6	3225.5	3196.9	3124.1	3025.8
30°	3478.9	3478.9	3447.2	3317.3	3301.5	3342.7	3345.9	3352.2	3307.8	3193.8	3114.6
32.5°	3599.3	3586.7	3555.0	3387.0	3361.7	3399.7	3406.1	3402.9	3364.9	3257.1	3219.1
35°	3970.0	3941.5	3827.5	3542.3	3415.6	3437.7	3440.9	3456.8	3463.1	3377.5	3358.5
37.5°	4619.6	4581.5	4407.3	3909.8	3586.7	3532.8	3529.6	3570.8	3605.7	3529.6	3529.6
40°	5326.1	5294.4	5193.1	4543.5	3903.5	3726.1	3713.4	3751.4	3795.8	3741.9	3757.8
42.5°	5934.5	5959.8	5969.3	5215.2	4378.8	4087.3	4052.4	3998.6	4068.3	4020.7	4084.1
45°	6390.7	6378.0	6552.3	5902.8	4993.4	4540.4	4492.8	4347.1	4435.8	4432.6	4572.0
47.5°	6875.5	6853.3	6926.2	6549.1	5693.7	5094.8	5022.0	4806.5	4939.6	5031.5	5262.8
50°	7334.9	7341.2	7366.6	7059.3	6454.1	5769.7	5677.8	5389.5	5579.6	5772.9	6099.2
52.5°	7933.7	7889.4	7857.7	7654.9	7306.4	6473.1	6412.9	6083.4	6349.5	6577.7	7011.7
55°	8456.5	8428.0	8409.0	8399.5	8019.3	7249.4	7186.0	6843.8	7227.2	7388.8	8028.8
57.5°	9014.2	8998.3	9099.7	9261.3	9109.2	8038.3	7971.8	7642.2	8070.0	8184.0	9131.4
60°	9422.9	9432.4	9711.2	10123.1	10018.6	8893.8	8814.6	8523.1	8890.6	8992.0	10234.0
62.5°	9426.1	9521.1	10167.5	10905.7	11026.1	9879.2	9787.3	9470.4	9733.4	9733.4	11222.6
65°	8526.2	8634.0	10085.1	11099.0	12046.4	11051.5	10962.8	10465.3	10563.5	10430.5	12150.9
67.5°	7629.6	7756.3	9121.9	11114.8	12762.4	12306.2	12201.6	11460.2	11292.3	10956.4	12800.4
70°	7033.9	7122.6	8263.3	10908.9	13193.3	13617.9	13538.7	12404.4	11865.8	11396.8	12664.2
72.5°	5921.8	5890.1	6980.0	9929.9	13434.1	15107.1	15040.5	13431.0	12363.2	11187.7	10801.2
75°	3437.7	3475.8	4331.2	7274.7	12109.7	15883.3	15877.0	14308.6	12144.6	9882.3	7442.6
77.5°	991.7	1020.2	1422.6	3196.9	7658.1	13548.2	13982.3	13085.6	10265.7	7043.4	3859.1
80°	434.1	456.3	617.8	1064.6	3298.3	8849.4	9229.6	8849.4	6191.1	3231.8	1514.5
82.5°	256.6	272.5	402.4	659.0	1581.0	4210.8	4724.1	4125.3	2671.0	1371.9	627.3
85°	145.7	152.1	231.3	418.2	994.9	1473.3	1653.9	1549.4	1302.2	779.4	329.5
87.5°	66.5	69.7	114.1	196.4	557.6	497.4	516.5	684.4	754.1	475.3	164.8
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°	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4
2.5°	2487.2	2477.7	2458.7	2452.4	2442.9	2446.0	2449.2	2449.2	2452.4	2442.9	2442.9
5°	2461.9	2446.0	2427.0	2427.0	2427.0	2452.4	2474.5	2487.2	2493.6	2493.6	2487.2
7.5°	2452.4	2433.4	2411.2	2417.5	2423.8	2455.5	2496.7	2537.9	2550.6	2550.6	2544.2
10°	2471.4	2452.4	2436.5	2446.0	2461.9	2487.2	2518.9	2556.9	2588.6	2591.8	2588.6
12.5°	2515.7	2493.6	2477.7	2496.7	2515.7	2531.6	2547.4	2563.3	2604.4	2610.8	2610.8
15°	2588.6	2566.4	2547.4	2563.3	2569.6	2569.6	2569.6	2569.6	2610.8	2617.1	2617.1
17.5°	2661.5	2642.5	2623.5	2626.6	2607.6	2582.3	2572.8	2569.6	2591.8	2610.8	2614.0
20°	2731.2	2715.3	2696.3	2664.6	2617.1	2569.6	2553.8	2553.8	2566.4	2594.9	2594.9
22.5°	2807.2	2788.2	2756.5	2683.7	2604.4	2537.9	2522.1	2531.6	2547.4	2585.4	2582.3
25°	2892.8	2867.4	2813.6	2677.3	2563.3	2484.0	2487.2	2515.7	2544.2	2585.4	2585.4
27.5°	2987.8	2953.0	2845.2	2626.6	2471.4	2395.3	2423.8	2490.4	2531.6	2575.9	2582.3
30°	3092.4	3060.7	2870.6	2537.9	2322.5	2252.8	2322.5	2430.2	2493.6	2534.7	2544.2
32.5°	3219.1	3193.8	2892.8	2423.8	2129.2	2069.0	2170.4	2303.4	2404.8	2452.4	2461.9
35°	3377.5	3352.2	2921.3	2293.9	1948.6	1885.2	1977.1	2113.3	2246.4	2306.6	2325.6
37.5°	3583.5	3545.5	2946.6	2154.5	1796.5	1723.6	1768.0	1891.6	2012.0	2094.3	2116.5
40°	3846.5	3786.3	2968.8	1996.1	1663.4	1581.0	1596.9	1657.1	1726.8	1799.7	1828.2
42.5°	4217.2	4096.8	2972.0	1828.2	1527.2	1451.1	1444.8	1463.8	1463.8	1463.8	1473.3
45°	4733.6	4505.5	2978.3	1669.8	1387.8	1308.6	1289.5	1283.2	1235.7	1143.8	1137.5
47.5°	5386.3	5041.0	3006.8	1536.7	1242.0	1172.3	1147.0	1121.6	1032.9	937.9	918.8
50°	6222.8	5662.0	3063.9	1410.0	1118.5	1070.9	1039.2	979.0	880.8	807.9	788.9
52.5°	7186.0	6400.2	3117.7	1276.9	1026.6	994.9	956.9	884.0	779.4	735.1	728.7
55°	8291.8	7224.0	3225.5	1159.6	947.4	925.2	890.3	820.6	741.4	709.7	706.6
57.5°	9422.9	8146.0	3377.5	1055.1	871.3	858.6	858.6	798.4	747.7	735.1	735.1
60°	10512.8	8938.1	3260.3	956.9	801.6	807.9	868.1	852.3	814.3	830.1	839.6
62.5°	11358.8	9403.9	2645.6	877.7	750.9	807.9	963.2	963.2	918.8	912.5	912.5
65°	11720.0	9397.6	1859.9	817.5	731.9	887.2	1074.1	1023.4	906.2	861.8	852.3
67.5°	11628.1	8985.7	1283.2	776.3	725.6	969.5	1124.8	982.2	849.1	811.1	782.6
70°	10820.2	8114.3	988.5	738.2	716.1	934.7	1108.9	934.7	804.8	769.9	744.6
72.5°	8729.0	6507.9	820.6	700.2	678.0	865.0	1055.1	890.3	769.9	731.9	706.6
75°	5566.9	4093.6	693.9	649.5	605.2	776.3	982.2	846.0	731.9	681.2	662.2
77.5°	2677.3	1764.8	605.2	589.3	545.0	719.2	909.3	788.9	681.2	640.0	627.3
80°	1083.6	807.9	526.0	529.1	500.6	684.4	858.6	735.1	630.5	586.2	564.0
82.5°	564.0	468.9	443.6	456.3	456.3	652.7	820.6	690.7	586.2	567.1	494.3
85°	304.2	291.5	342.2	367.5	396.1	589.3	763.6	643.2	535.5	459.4	443.6
87.5°	148.9	190.1	193.3	221.8	275.7	472.1	643.2	538.6	446.7	370.7	364.4
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)