

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: P237333

Luminaire Tested: **ARCH-L-AF72-200-D-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 24876.1 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

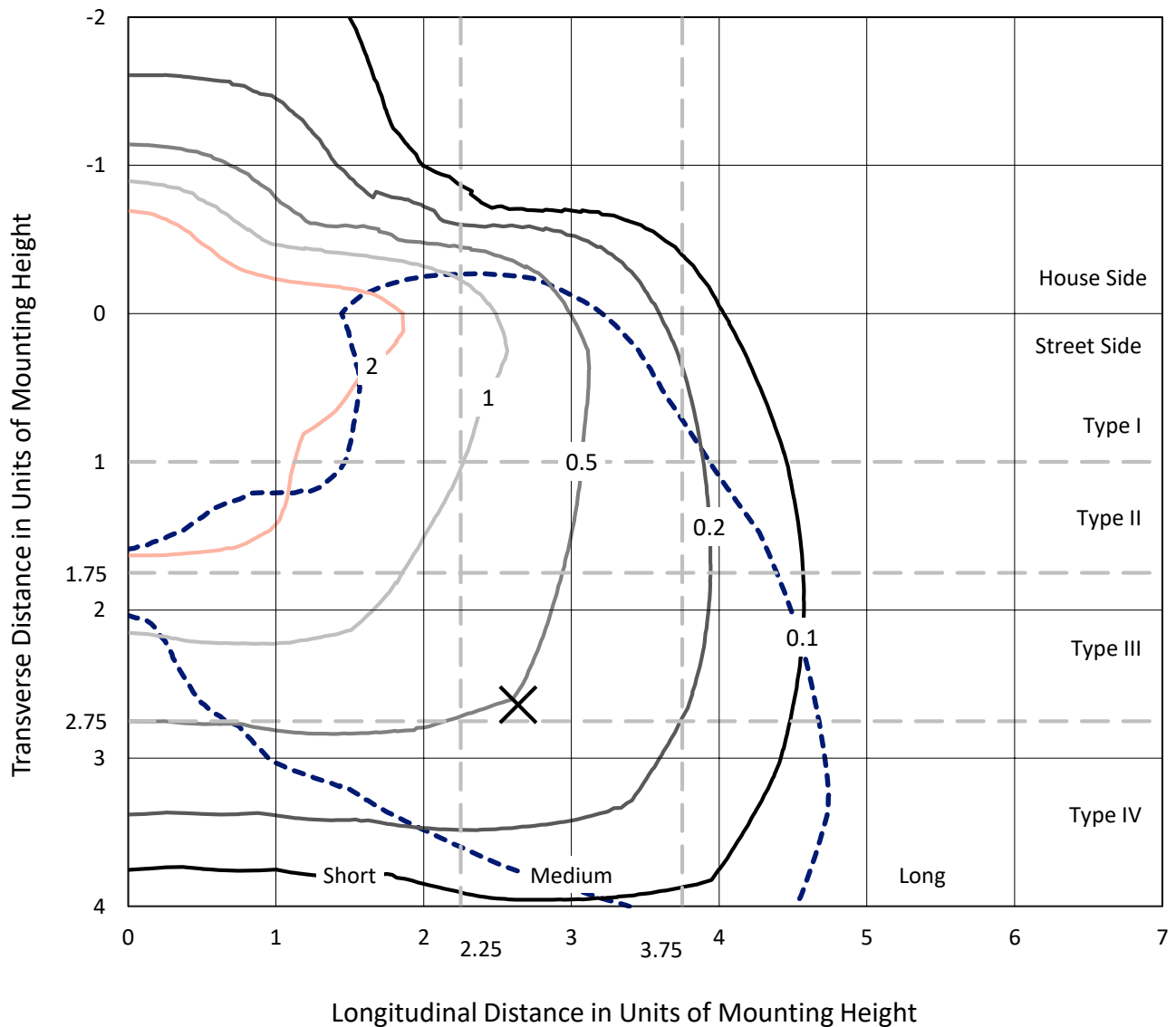
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

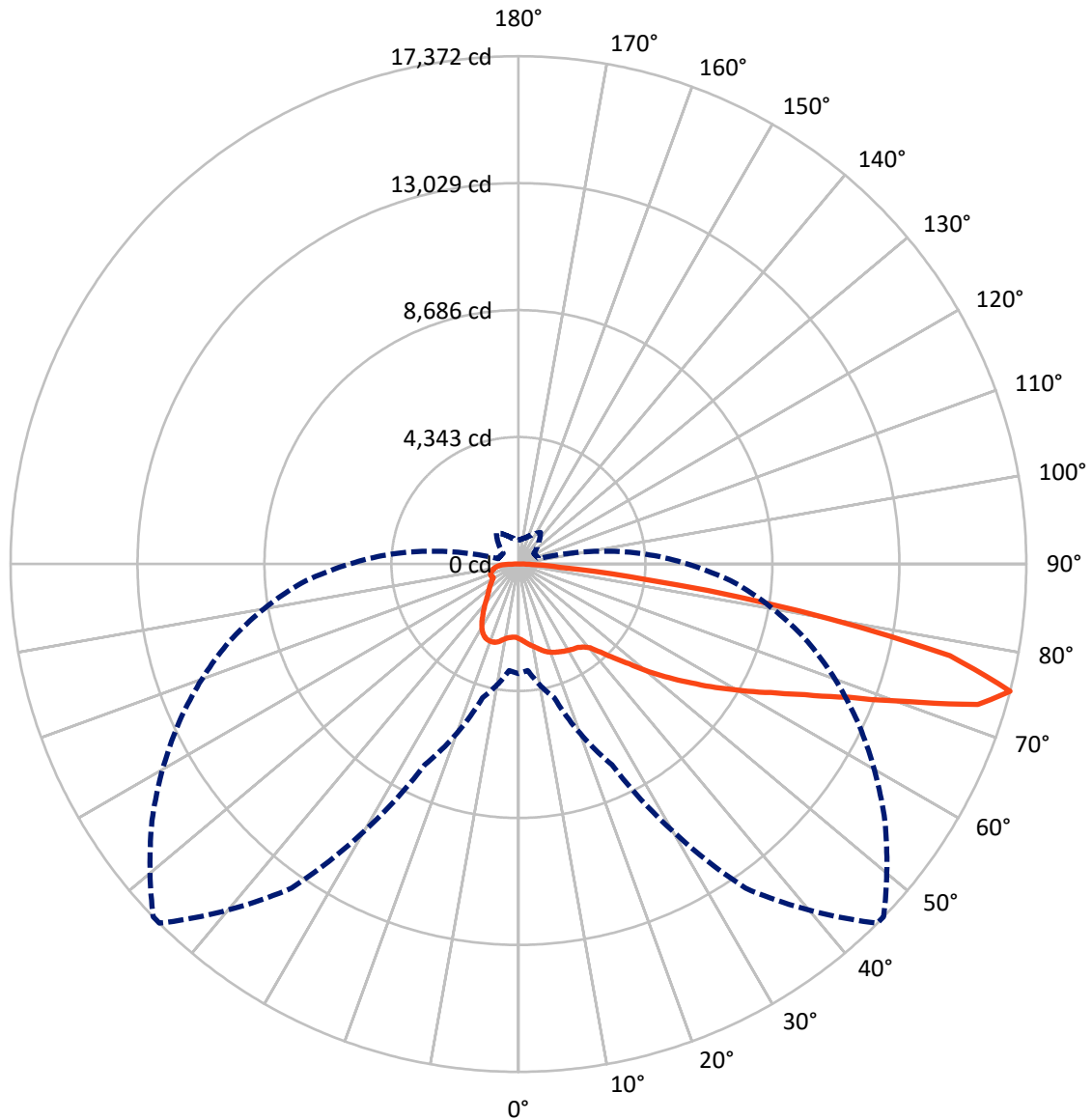
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Medium - Non-Cutoff

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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	5762.8	0.0	5762.8
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	19113.4	0.0	19113.4
	% Fixture	76.8	0.0	76.8
Total	Lumens	24876.1	0.0	24876.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	1.0
10°-20°	818.9	3.3
20°-30°	1405.3	5.6
30°-40°	1965.5	7.9
40°-50°	2883.2	11.6
50°-60°	4491.3	18.1
60°-70°	6462.6	26.0
70°-80°	5629.6	22.6
80°-90°	966.8	3.9
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°	24876.1	100.0
0°-180°	24876.1	100.0



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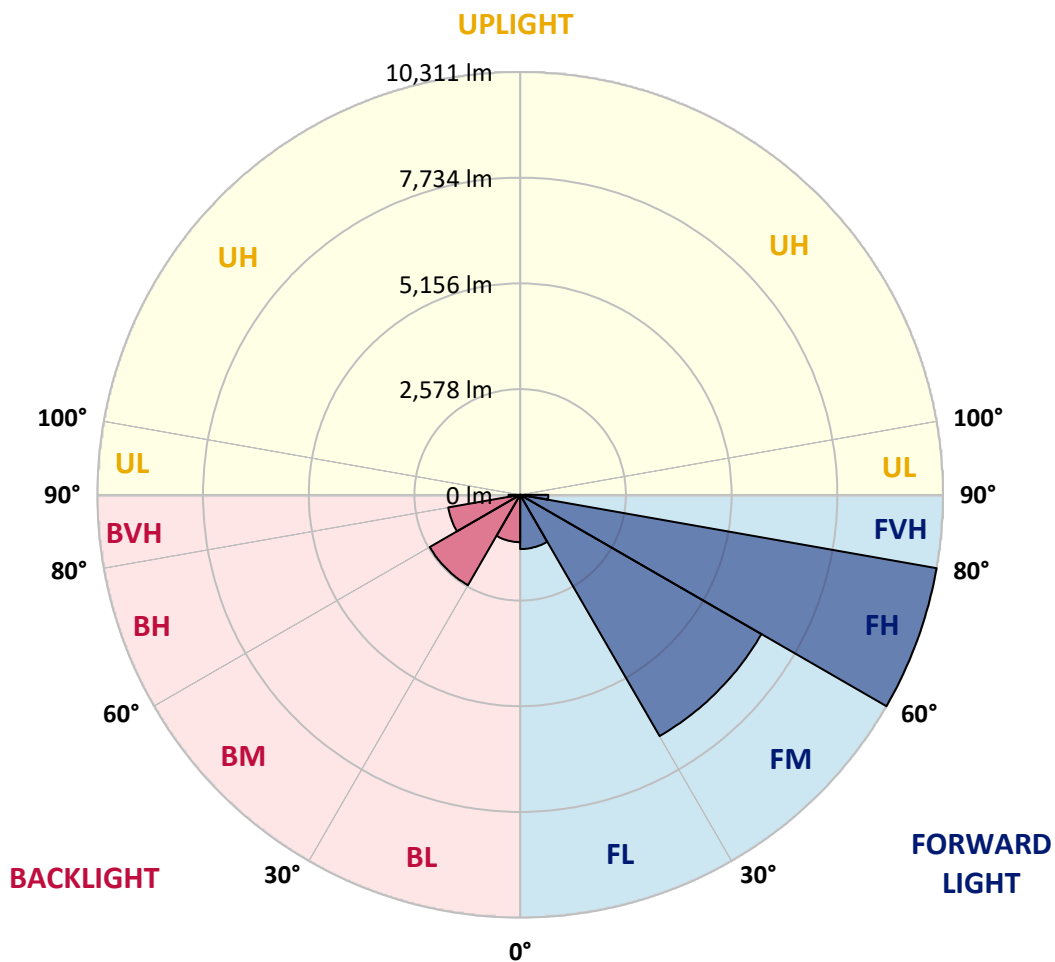
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1322.8	5.3			
FM	(30°-60°)	6793.2	27.3			
FH	(60°-80°)	10311.4	41.5			G4/12000
FVH	(80°-90°)	686.0	2.8			G4/750
BL	(0°-30°)	1154.2	4.6	B3/2500		
BM	(30°-60°)	2546.8	10.2	B3/5000		
BH	(60°-80°)	1780.9	7.2	B3/2500		G3/2500
BVH	(80°-90°)	280.9	1.1			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°	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1
2.5°	2675.9	2656.6	2656.6	2642.1	2642.1	2617.9	2608.2	2603.4	2579.2	2564.6	2550.1
5°	2830.8	2806.7	2801.8	2767.9	2753.4	2700.2	2695.4	2661.4	2617.9	2574.4	2540.5
7.5°	2971.2	2956.6	2932.4	2898.5	2855.1	2787.2	2782.4	2729.2	2656.6	2598.5	2550.1
10°	3072.7	3063.1	3029.3	2985.7	2937.3	2869.5	2864.7	2806.7	2719.5	2651.8	2584.1
12.5°	3193.8	3179.2	3135.7	3077.6	3024.4	2961.4	2956.6	2908.2	2811.5	2724.3	2637.3
15°	3309.9	3290.5	3237.3	3179.2	3121.1	3067.9	3067.9	3014.7	2913.1	2811.5	2709.8
17.5°	3368.0	3358.2	3305.1	3242.1	3193.8	3155.0	3150.2	3101.8	3000.2	2893.7	2782.4
20°	3387.3	3392.1	3343.7	3276.0	3242.1	3222.8	3217.9	3184.0	3072.7	2971.2	2864.7
22.5°	3382.5	3397.0	3358.2	3285.7	3276.0	3276.0	3276.0	3237.3	3150.2	3048.6	2942.1
25°	3401.8	3421.2	3392.1	3305.1	3305.1	3324.4	3324.4	3305.1	3227.6	3140.6	3034.1
27.5°	3469.5	3484.1	3459.9	3338.9	3343.7	3372.8	3368.0	3372.8	3324.4	3242.1	3135.7
30°	3551.8	3571.2	3542.2	3392.1	3387.3	3416.3	3416.3	3440.5	3406.6	3319.6	3232.4
32.5°	3774.4	3769.6	3677.6	3450.2	3435.7	3464.7	3464.7	3488.9	3469.5	3401.8	3319.6
35°	4437.4	4364.8	4161.6	3638.9	3493.8	3508.3	3508.3	3551.8	3561.5	3508.3	3435.7
37.5°	5114.9	5090.6	4935.7	4142.2	3706.7	3600.2	3595.4	3658.3	3701.9	3658.3	3609.9
40°	5797.2	5777.7	5743.9	4814.8	4151.9	3764.8	3750.2	3803.4	3880.9	3851.8	3822.8
42.5°	6431.1	6421.4	6455.2	5477.8	4718.1	4118.0	4074.4	4011.5	4122.8	4113.2	4113.2
45°	6929.5	6953.6	6973.0	6097.2	5332.5	4572.9	4519.6	4306.7	4456.7	4495.5	4524.5
47.5°	7210.2	7229.5	7297.2	6702.1	5947.1	5100.3	5061.6	4713.1	4911.6	5027.7	5109.9
50°	7611.8	7558.5	7616.6	7292.4	6687.5	5787.4	5681.0	5260.0	5511.7	5714.8	5908.5
52.5°	7998.9	7911.8	7960.2	7974.7	7529.5	6460.0	6348.7	5903.6	6218.1	6537.5	6881.1
55°	8347.3	8342.5	8390.9	8637.6	8342.5	7181.1	7055.3	6614.9	7069.8	7413.3	7994.1
57.5°	8628.0	8676.4	8889.2	9407.1	9281.2	7965.0	7824.7	7442.4	7979.5	8323.1	9286.0
60°	8957.0	9034.4	9387.6	10060.3	10137.7	8787.7	8642.5	8366.6	8913.5	9261.9	10781.3
62.5°	9068.3	9179.6	9905.4	10747.4	11032.9	9687.7	9557.0	9373.2	9895.7	10210.3	12271.7
65°	8327.9	8540.8	10190.9	11100.7	11995.9	10771.7	10660.4	10500.6	10873.3	11081.3	13283.0
67.5°	8124.7	8221.5	9634.5	11608.8	12900.7	12165.2	12053.9	11778.2	11787.8	11700.7	13612.1
70°	7839.2	7945.7	9063.4	11991.0	14197.6	14071.8	13936.4	13123.3	12625.0	12097.5	12963.7
72.5°	6677.8	6644.0	7810.1	10960.3	14821.8	16433.3	16273.6	14570.2	13244.3	11753.9	10941.0
75°	3750.2	3653.5	4737.4	7582.7	13534.7	17372.1	17367.1	15300.9	12808.9	10239.3	7447.2
77.5°	1088.7	1059.8	1563.0	3179.2	9111.8	15092.8	15276.7	13800.8	10689.3	7355.3	4088.9
80°	512.9	522.6	672.6	1050.1	3890.6	9740.9	10268.4	9087.7	6387.5	3392.1	1688.8
82.5°	324.2	329.1	459.7	677.5	1645.2	4422.8	4858.4	4088.9	2530.8	1466.2	745.2
85°	203.3	203.3	304.8	445.2	982.3	1413.0	1533.9	1393.7	1083.9	798.4	406.5
87.5°	111.3	111.3	183.9	256.5	537.2	454.9	469.4	556.5	677.5	488.8	203.3
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°	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1
2.5°	2545.3	2535.6	2521.2	2516.3	2511.4	2506.6	2511.4	2521.2	2511.4	2511.4	2516.3
5°	2530.8	2521.2	2501.7	2501.7	2506.6	2511.4	2535.6	2550.1	2555.0	2555.0	2555.0
7.5°	2530.8	2516.3	2501.7	2506.6	2516.3	2535.6	2574.4	2598.5	2617.9	2622.7	2622.7
10°	2555.0	2535.6	2526.0	2535.6	2564.6	2579.2	2617.9	2656.6	2680.8	2690.5	2690.5
12.5°	2598.5	2579.2	2579.2	2598.5	2637.3	2656.6	2690.5	2719.5	2748.6	2763.1	2763.1
15°	2671.1	2646.9	2651.8	2685.7	2729.2	2748.6	2772.7	2782.4	2806.7	2826.0	2826.0
17.5°	2738.8	2714.7	2724.3	2763.1	2792.1	2801.8	2816.3	2811.5	2821.1	2835.6	2840.5
20°	2816.3	2792.1	2797.0	2821.1	2826.0	2816.3	2816.3	2801.8	2797.0	2821.1	2830.8
22.5°	2893.7	2869.5	2864.7	2850.1	2826.0	2801.8	2787.2	2772.7	2763.1	2787.2	2797.0
25°	2985.7	2951.8	2927.6	2864.7	2801.8	2758.2	2738.8	2729.2	2724.3	2748.6	2758.2
27.5°	3087.3	3053.4	2980.8	2845.3	2743.8	2671.1	2656.6	2656.6	2666.3	2680.8	2690.5
30°	3184.0	3150.2	3019.5	2801.8	2642.1	2535.6	2521.2	2535.6	2559.8	2574.4	2588.9
32.5°	3280.8	3246.9	3043.7	2734.0	2492.1	2356.6	2347.0	2371.1	2409.9	2419.5	2429.2
35°	3411.5	3377.6	3072.7	2637.3	2303.4	2158.2	2148.5	2163.0	2196.9	2211.4	2225.9
37.5°	3595.4	3576.0	3116.3	2530.8	2129.2	1969.5	1940.4	1930.7	1950.2	1945.2	1964.7
40°	3837.3	3851.8	3193.8	2390.4	1959.8	1795.3	1732.4	1703.3	1684.0	1645.2	1664.6
42.5°	4190.6	4200.2	3280.8	2230.7	1814.6	1630.8	1548.4	1495.2	1456.6	1393.7	1403.3
45°	4708.3	4626.1	3382.5	2061.5	1684.0	1500.1	1403.3	1340.4	1287.2	1234.0	1238.8
47.5°	5395.5	5143.9	3493.8	1921.1	1553.4	1393.7	1306.5	1234.0	1171.1	1127.5	1132.3
50°	6242.4	5787.4	3605.1	1790.5	1422.6	1311.3	1234.0	1156.5	1093.6	1050.1	1045.3
52.5°	7360.1	6561.7	3677.6	1645.2	1292.0	1238.8	1171.1	1098.4	1021.0	967.8	963.0
55°	8521.5	7461.7	3740.5	1471.1	1166.2	1156.5	1122.7	1040.3	948.5	880.7	871.0
57.5°	9798.9	8424.7	3788.9	1301.7	1069.4	1088.7	1079.1	982.3	880.7	817.7	812.9
60°	10960.3	9421.6	3634.1	1151.6	982.3	1021.0	1030.7	948.5	895.2	909.7	914.6
62.5°	12131.4	10190.9	3043.7	1040.3	924.2	977.4	1059.8	1054.9	1030.7	1054.9	1059.8
65°	12552.4	10350.6	2158.2	948.5	866.1	996.9	1151.6	1142.0	1030.7	987.1	977.4
67.5°	12315.3	9876.4	1451.7	875.9	822.7	1021.0	1248.5	1142.0	992.0	934.0	914.6
70°	11187.8	8710.2	1064.6	803.3	783.9	1016.2	1301.7	1137.2	972.6	909.7	885.6
72.5°	8923.1	6721.4	856.5	735.5	725.9	992.0	1330.8	1127.5	953.3	885.6	856.5
75°	5777.7	4180.9	721.0	667.8	638.7	953.3	1316.2	1098.4	929.0	842.0	822.7
77.5°	2680.8	1800.1	614.6	590.3	556.5	895.2	1272.7	1040.3	875.9	793.6	769.4
80°	1248.5	851.7	517.8	512.9	498.4	846.8	1214.5	972.6	812.9	745.2	706.4
82.5°	667.8	512.9	420.9	420.9	435.5	788.8	1142.0	890.4	730.7	696.8	595.2
85°	353.2	295.2	304.8	329.1	372.6	696.8	1045.3	803.3	638.7	532.2	517.8
87.5°	179.0	188.7	188.7	222.6	285.5	566.2	861.3	663.0	542.0	435.5	425.9
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)