

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: P237334

Luminaire Tested: **ARCH-L-AF72-210-D-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237334
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-AF72-210-D-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25638.2 lumens
Efficiency: N/A
Efficacy: 121.5 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): 211
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

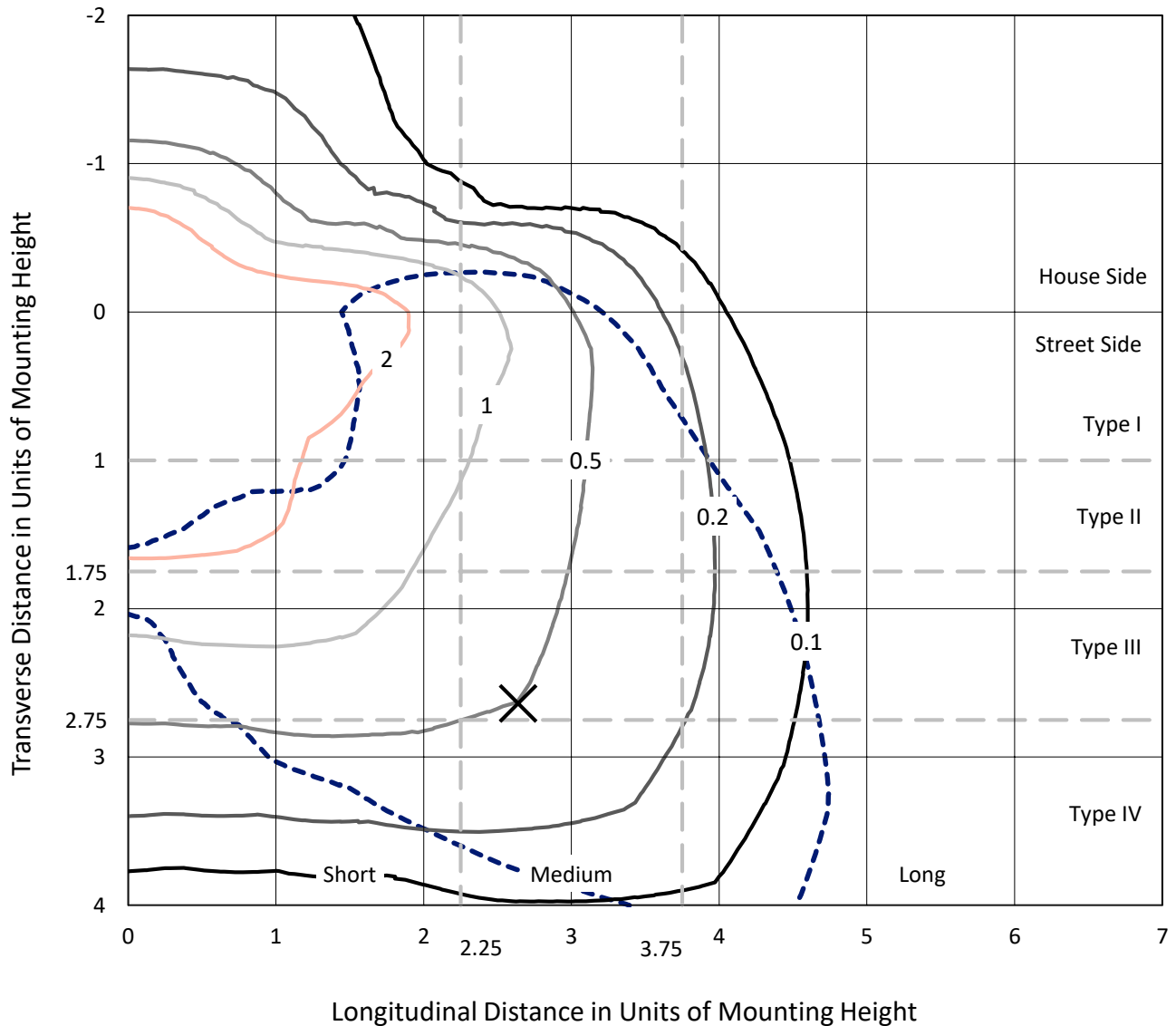


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

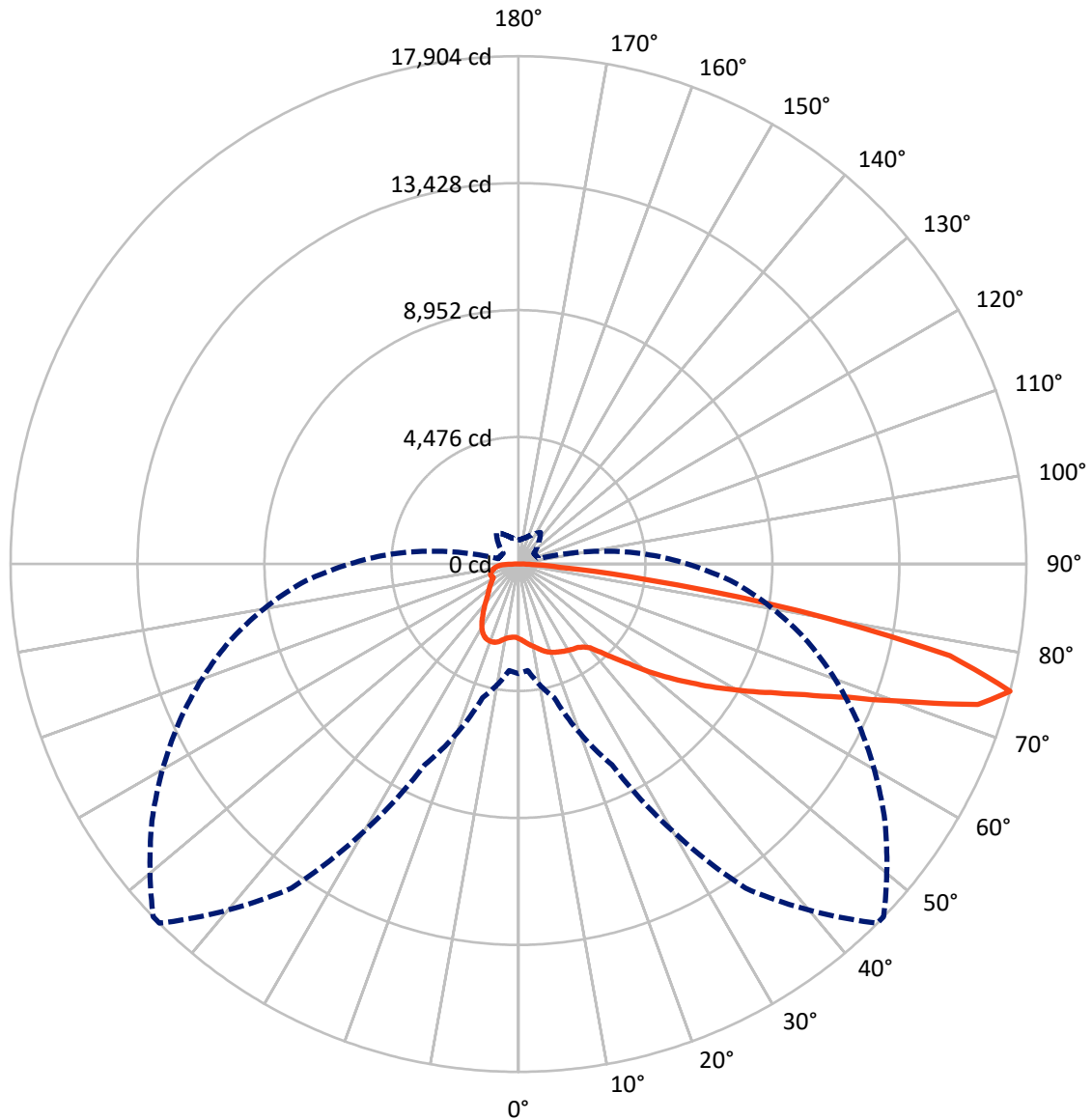


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Medium - Non-Cutoff

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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	5939.3	0.0	5939.3
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	19698.9	0.0	19698.9
	% Fixture	76.8	0.0	76.8
Total	Lumens	25638.2	0.0	25638.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	1.0
10°-20°	844.0	3.3
20°-30°	1448.4	5.6
30°-40°	2025.7	7.9
40°-50°	2971.5	11.6
50°-60°	4628.9	18.1
60°-70°	6660.6	26.0
70°-80°	5802.1	22.6
80°-90°	996.4	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°	25638.2	100.0
0°-180°	25638.2	100.0



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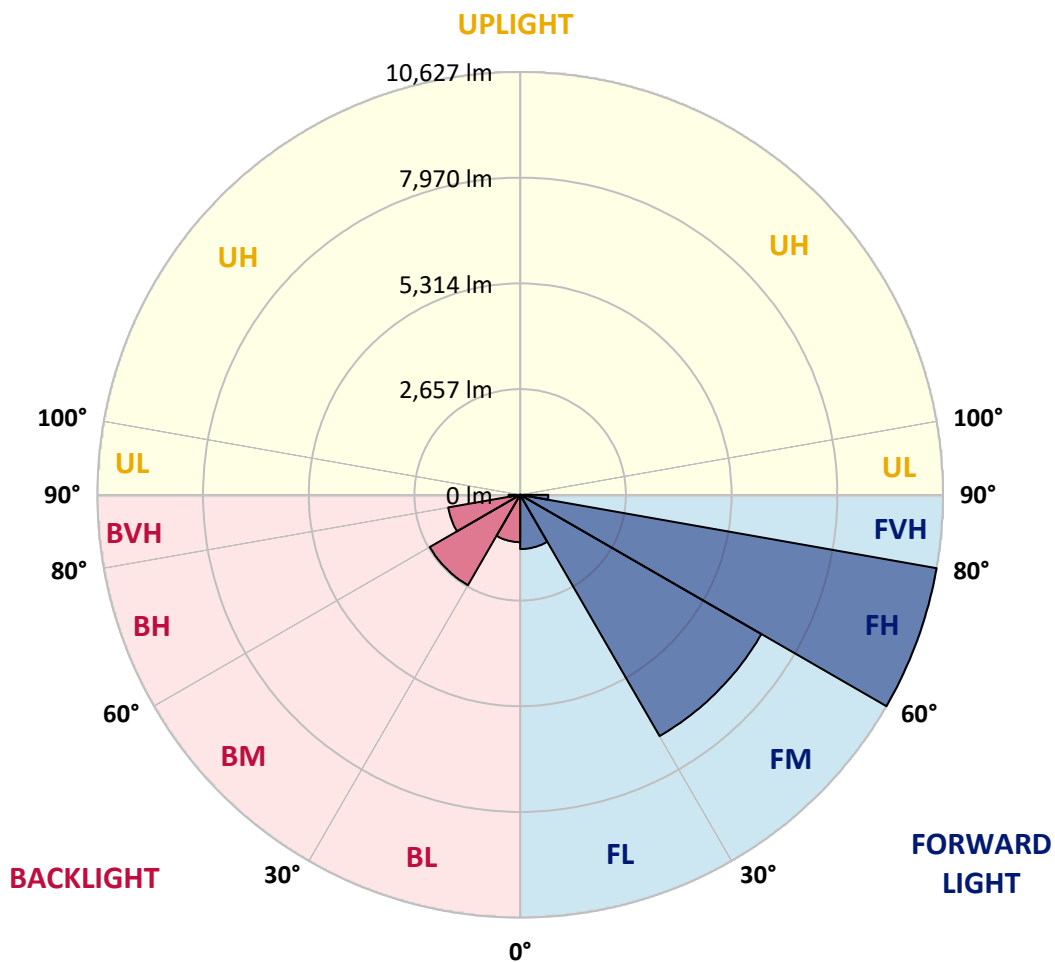
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1363.3	5.3			
FM	(30°-60°)	7001.3	27.3			
FH	(60°-80°)	10627.3	41.5			G4/12000
FVH	(80°-90°)	707.0	2.8			G4/750
BL	(0°-30°)	1189.6	4.6	B3/2500		
BM	(30°-60°)	2624.9	10.2	B3/5000		
BH	(60°-80°)	1835.4	7.2	B3/2500		G3/2500
BVH	(80°-90°)	289.5	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°	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3
2.5°	2758.0	2738.0	2738.0	2723.0	2723.0	2698.1	2688.1	2683.1	2658.2	2643.2	2628.3
5°	2917.6	2892.6	2887.6	2852.7	2837.8	2782.8	2777.9	2742.9	2698.1	2653.2	2618.3
7.5°	3062.2	3047.2	3022.3	2987.3	2942.5	2872.7	2867.6	2812.8	2738.0	2678.2	2628.3
10°	3167.0	3156.9	3122.0	3077.1	3027.2	2957.5	2952.4	2892.6	2802.9	2733.0	2663.2
12.5°	3291.5	3276.6	3231.7	3171.9	3117.0	3052.2	3047.2	2997.3	2897.6	2807.8	2718.1
15°	3411.2	3391.3	3336.5	3276.6	3216.8	3161.9	3161.9	3107.0	3002.4	2897.6	2792.9
17.5°	3471.1	3461.2	3406.3	3341.5	3291.5	3251.7	3246.7	3196.8	3092.1	2982.4	2867.6
20°	3491.0	3496.0	3446.2	3376.4	3341.5	3321.5	3316.5	3281.6	3167.0	3062.2	2952.4
22.5°	3486.1	3501.0	3461.2	3386.4	3376.4	3376.4	3376.4	3336.5	3246.7	3142.0	3032.2
25°	3506.1	3526.0	3496.0	3406.3	3406.3	3426.3	3426.3	3406.3	3326.5	3236.7	3127.0
27.5°	3575.8	3590.9	3565.9	3441.2	3446.2	3476.1	3471.1	3476.1	3426.3	3341.5	3231.7
30°	3660.6	3680.6	3650.7	3496.0	3491.0	3521.0	3521.0	3546.0	3511.1	3421.3	3331.4
32.5°	3890.1	3885.1	3790.3	3555.9	3540.9	3570.9	3570.9	3595.8	3575.8	3506.1	3421.3
35°	4573.3	4498.5	4289.0	3750.4	3600.8	3615.7	3615.7	3660.6	3670.7	3615.7	3540.9
37.5°	5271.6	5246.6	5087.0	4269.1	3820.2	3710.5	3705.5	3770.4	3815.2	3770.4	3720.5
40°	5974.7	5954.8	5919.8	4962.3	4279.1	3880.1	3865.1	3919.9	3999.7	3969.9	3939.9
42.5°	6628.0	6618.1	6653.0	5645.6	4862.6	4244.1	4199.3	4134.5	4249.1	4239.2	4239.2
45°	7141.7	7166.7	7186.6	6283.9	5495.9	4712.9	4658.1	4438.7	4593.3	4633.1	4663.1
47.5°	7431.0	7451.0	7520.7	6907.4	6129.3	5256.5	5216.6	4857.6	5062.1	5181.8	5266.6
50°	7844.9	7790.1	7849.9	7515.8	6892.3	5964.7	5855.1	5421.1	5680.4	5889.9	6089.4
52.5°	8244.0	8154.1	8204.1	8219.0	7760.2	6658.0	6543.3	6084.4	6408.6	6737.8	7091.9
55°	8603.0	8598.0	8647.9	8902.2	8598.0	7401.0	7271.4	6817.6	7286.4	7640.4	8238.9
57.5°	8892.3	8942.1	9161.5	9695.2	9565.5	8209.0	8064.4	7670.4	8224.0	8578.1	9570.5
60°	9231.4	9311.2	9675.3	10368.5	10448.3	9056.8	8907.2	8623.0	9186.5	9545.6	11111.6
62.5°	9346.1	9460.9	10208.9	11076.7	11370.9	9984.5	9849.8	9660.3	10198.9	10523.1	12647.7
65°	8583.1	8802.5	10503.1	11440.8	12363.4	11101.6	10986.9	10822.3	11206.3	11420.8	13690.0
67.5°	8373.6	8473.3	9929.6	11964.4	13296.0	12537.9	12423.2	12138.9	12149.0	12059.2	14029.2
70°	8079.4	8189.0	9341.1	12358.4	14632.6	14502.9	14363.3	13525.5	13011.7	12468.1	13360.9
72.5°	6882.4	6847.5	8049.4	11296.1	15275.9	16936.7	16772.1	15016.6	13650.2	12114.0	11276.2
75°	3865.1	3765.4	4882.5	7815.0	13949.4	17904.2	17899.3	15769.7	13201.3	10553.1	7675.4
77.5°	1122.2	1092.2	1610.8	3276.6	9391.0	15555.2	15744.7	14223.6	11016.9	7580.6	4214.3
80°	528.7	538.6	693.3	1082.3	4009.8	10039.3	10582.9	9366.0	6583.2	3496.0	1740.6
82.5°	334.1	339.1	473.8	698.2	1695.6	4558.4	5007.2	4214.3	2608.3	1511.1	768.0
85°	209.5	209.5	314.1	458.8	1012.4	1456.3	1581.0	1436.3	1117.2	822.9	418.9
87.5°	114.7	114.7	189.6	264.3	553.6	468.8	483.8	573.6	698.2	503.7	209.5
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°	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3
2.5°	2623.3	2613.3	2598.4	2593.4	2588.4	2583.4	2588.4	2598.4	2588.4	2588.4	2593.4
5°	2608.3	2598.4	2578.4	2578.4	2583.4	2588.4	2613.3	2628.3	2633.3	2633.3	2633.3
7.5°	2608.3	2593.4	2578.4	2583.4	2593.4	2613.3	2653.2	2678.2	2698.1	2703.0	2703.0
10°	2633.3	2613.3	2603.3	2613.3	2643.2	2658.2	2698.1	2738.0	2762.9	2772.9	2772.9
12.5°	2678.2	2658.2	2658.2	2678.2	2718.1	2738.0	2772.9	2802.9	2832.8	2847.7	2847.7
15°	2753.0	2728.0	2733.0	2767.9	2812.8	2832.8	2857.7	2867.6	2892.6	2912.5	2912.5
17.5°	2822.8	2797.9	2807.8	2847.7	2877.7	2887.6	2902.6	2897.6	2907.5	2922.6	2927.5
20°	2902.6	2877.7	2882.7	2907.5	2912.5	2902.6	2902.6	2887.6	2882.7	2907.5	2917.6
22.5°	2982.4	2957.5	2952.4	2937.5	2912.5	2887.6	2872.7	2857.7	2847.7	2872.7	2882.7
25°	3077.1	3042.3	3017.3	2952.4	2887.6	2842.8	2822.8	2812.8	2807.8	2832.8	2842.8
27.5°	3181.9	3147.0	3072.1	2932.5	2827.7	2753.0	2738.0	2738.0	2748.0	2762.9	2772.9
30°	3281.6	3246.7	3112.0	2887.6	2723.0	2613.3	2598.4	2613.3	2638.3	2653.2	2668.2
32.5°	3381.4	3346.5	3137.0	2817.8	2568.4	2428.8	2418.8	2443.7	2483.6	2493.6	2503.6
35°	3516.0	3481.1	3167.0	2718.1	2374.0	2224.3	2214.4	2229.3	2264.2	2279.1	2294.2
37.5°	3705.5	3685.6	3211.8	2608.3	2194.4	2029.8	1999.9	1989.9	2009.9	2004.9	2024.8
40°	3954.9	3969.9	3291.5	2463.7	2019.8	1850.3	1785.5	1755.5	1735.5	1695.6	1715.6
42.5°	4319.0	4328.9	3381.4	2299.1	1870.3	1680.7	1595.9	1541.1	1501.2	1436.3	1446.4
45°	4852.6	4767.8	3486.1	2124.6	1735.5	1546.1	1446.4	1381.5	1326.6	1271.7	1276.7
47.5°	5560.8	5301.4	3600.8	1979.9	1600.9	1436.3	1346.5	1271.7	1206.9	1162.1	1167.0
50°	6433.5	5964.7	3715.5	1845.3	1466.3	1351.5	1271.7	1191.9	1127.1	1082.3	1077.3
52.5°	7585.6	6762.7	3790.3	1695.6	1331.6	1276.7	1206.9	1132.1	1052.3	997.5	992.5
55°	8782.5	7690.3	3855.2	1516.1	1202.0	1191.9	1157.1	1072.3	977.5	907.7	897.7
57.5°	10099.2	8682.8	3905.0	1341.6	1102.2	1122.2	1112.2	1012.4	907.7	842.8	837.9
60°	11296.1	9710.2	3745.4	1186.9	1012.4	1052.3	1062.3	977.5	922.6	937.6	942.5
62.5°	12503.0	10503.1	3137.0	1072.3	952.6	1007.4	1092.2	1087.2	1062.3	1087.2	1092.2
65°	12937.0	10667.7	2224.3	977.5	892.7	1027.3	1186.9	1177.0	1062.3	1017.4	1007.4
67.5°	12692.6	10179.0	1496.2	902.7	847.8	1052.3	1286.7	1177.0	1022.3	962.5	942.5
70°	11530.5	8977.0	1097.2	827.9	807.9	1047.3	1341.6	1172.0	1002.4	937.6	912.7
72.5°	9196.5	6927.3	882.7	758.1	748.1	1022.3	1371.5	1162.1	982.4	912.7	882.7
75°	5954.8	4309.0	743.1	688.2	658.3	982.4	1356.5	1132.1	957.6	867.8	847.8
77.5°	2762.9	1855.2	633.4	608.5	573.6	922.6	1311.6	1072.3	902.7	818.0	793.0
80°	1286.7	877.8	533.7	528.7	513.7	872.8	1251.8	1002.4	837.9	768.0	728.1
82.5°	688.2	528.7	433.9	433.9	448.9	812.9	1177.0	917.7	753.1	718.2	613.5
85°	364.1	304.2	314.1	339.1	384.0	718.2	1077.3	827.9	658.3	548.6	533.7
87.5°	184.5	194.5	194.5	229.4	294.2	583.5	887.7	683.2	558.5	448.9	438.8
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)