

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: P237112

Luminaire Tested: **ARCH-L-AF72-190-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-190-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23292 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

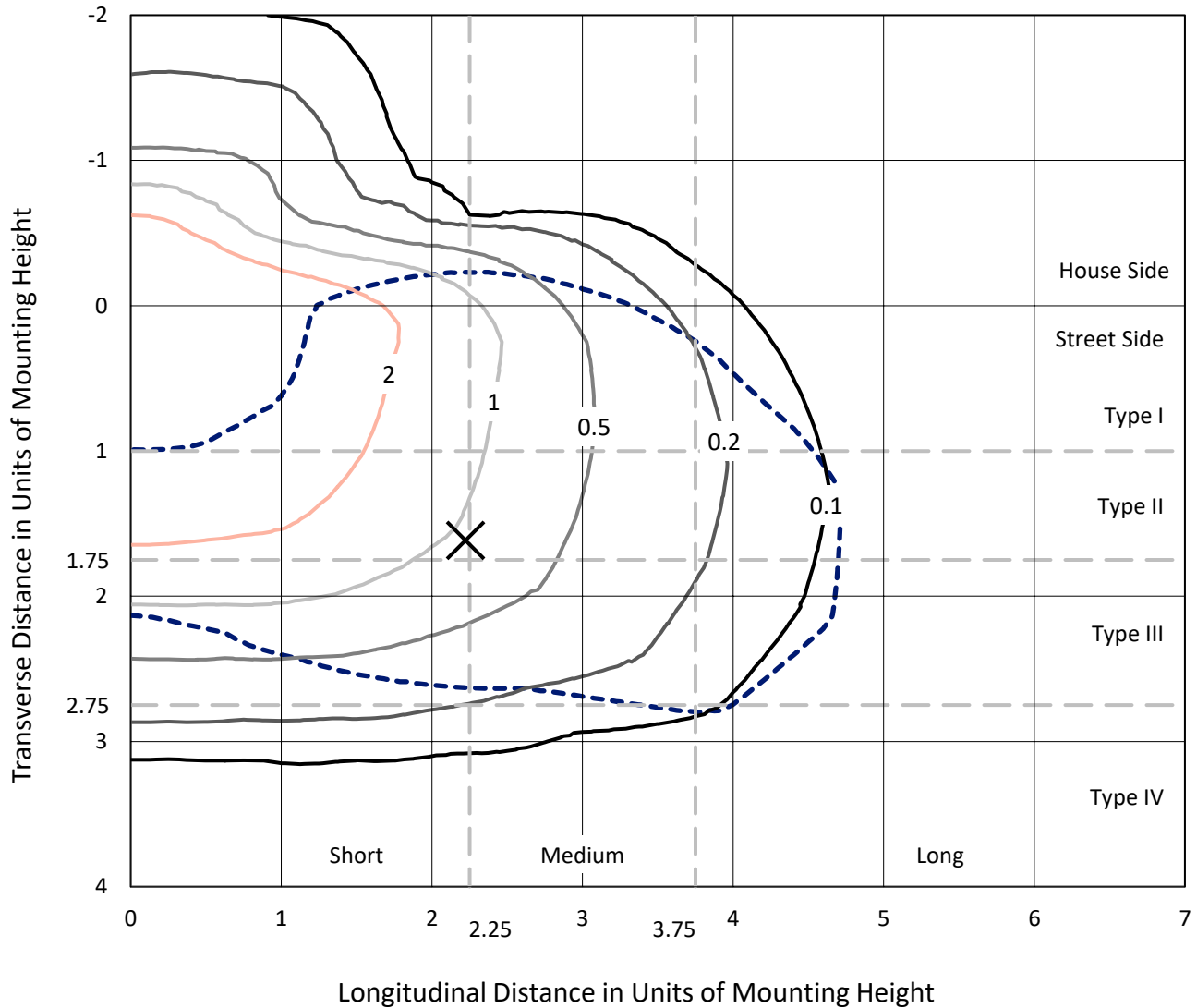
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

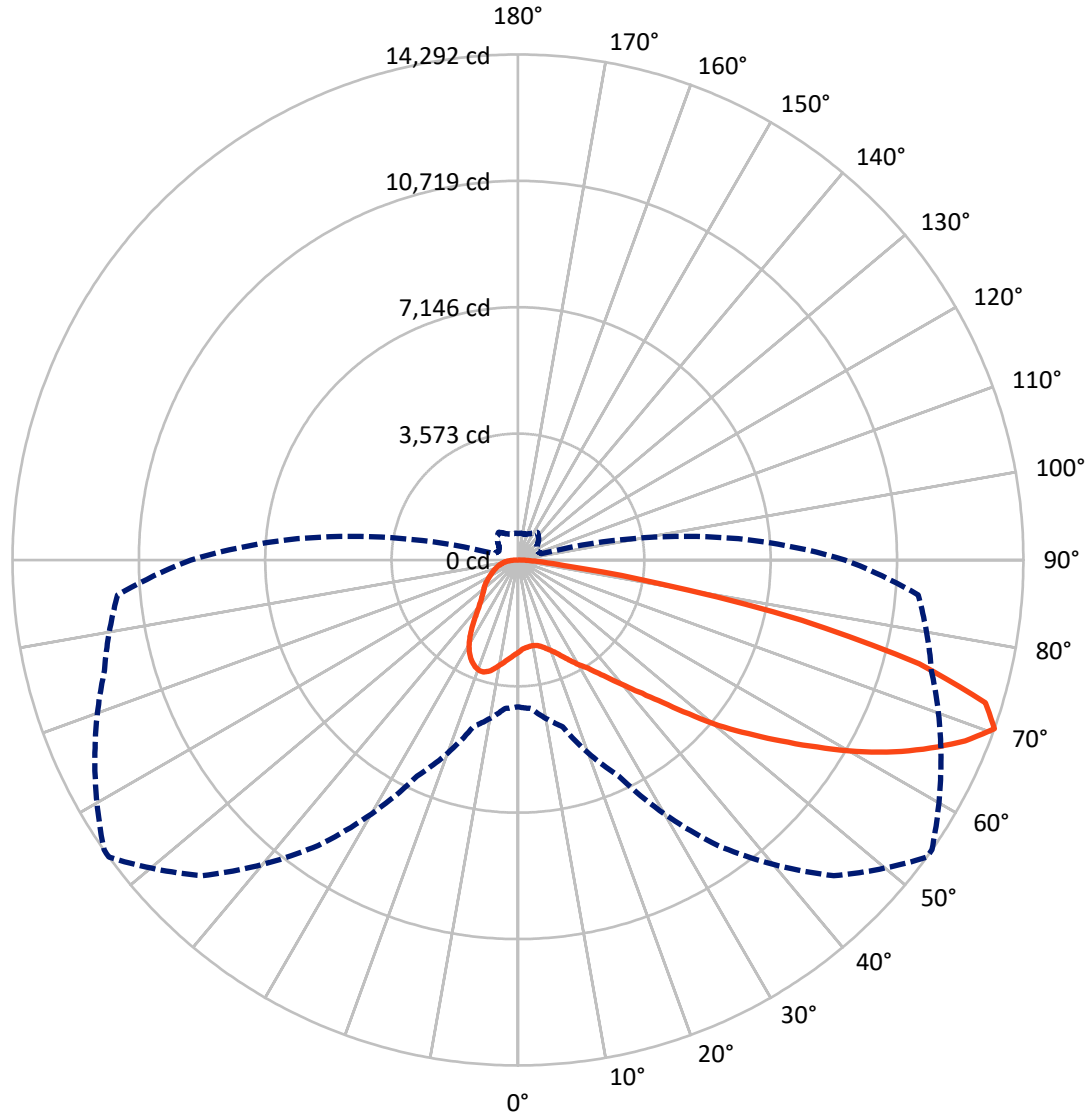
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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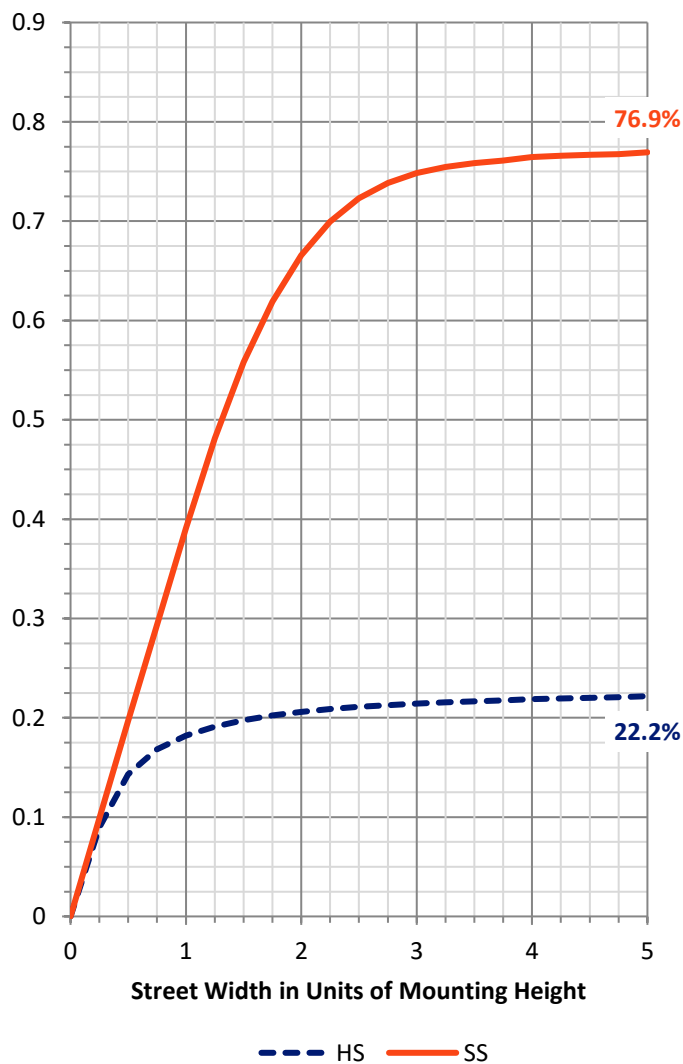
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5282.5	0.0	5282.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	18009.4	0.0	18009.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	23292.0	0.0	23292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	1.1
10°-20°	817.1	3.5
20°-30°	1419.7	6.1
30°-40°	2074.7	8.9
40°-50°	3256.1	14.0
50°-60°	5007.2	21.5
60°-70°	6117.5	26.3
70°-80°	3792.9	16.3
80°-90°	551.0	2.4
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°	23292.0	100.0
0°-180°	23292.0	100.0

Coefficient of Utilization



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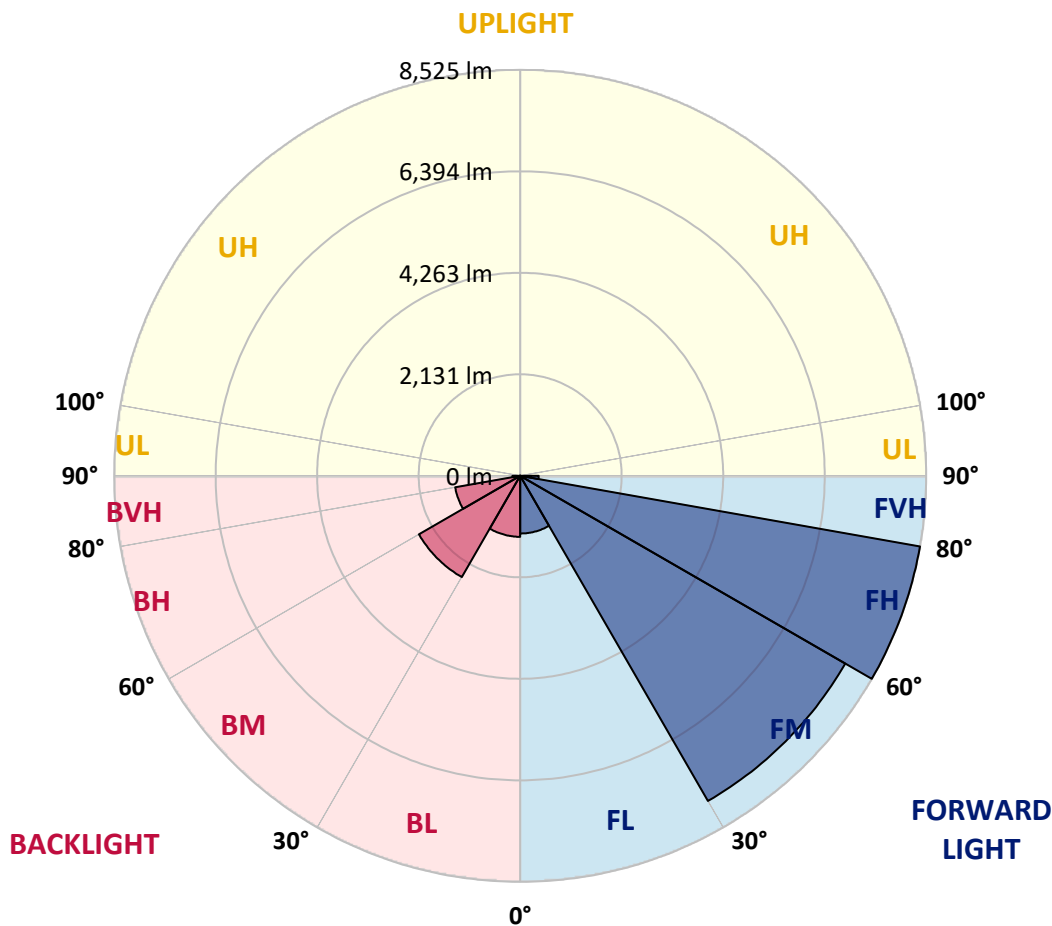
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.9	5.2			
FM (30°-60°)	7883.3	33.8			
FH (60°-80°)	8525.2	36.6			G4/12000
FVH (80°-90°)	389.1	1.7			G3/500
BL (0°-30°)	1280.7	5.5	B3/2500		
BM (30°-60°)	2454.7	10.5	B2/2500		
BH (60°-80°)	1385.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	161.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9
2.5°	2503.5	2495.0	2495.0	2507.8	2512.1	2524.9	2524.9	2529.1	2541.9	2563.3	2588.8
5°	2426.8	2422.5	2426.8	2443.8	2452.4	2478.0	2486.5	2490.7	2516.3	2550.5	2588.8
7.5°	2350.0	2345.7	2354.3	2379.9	2405.5	2443.8	2465.2	2469.4	2507.8	2554.7	2605.9
10°	2324.4	2320.2	2332.9	2354.3	2379.9	2422.5	2456.6	2460.9	2516.3	2571.8	2644.3
12.5°	2358.5	2354.3	2367.1	2388.4	2414.0	2443.8	2482.2	2486.5	2559.0	2631.5	2708.3
15°	2443.8	2443.8	2448.1	2460.9	2486.5	2512.1	2546.2	2550.5	2627.2	2712.5	2789.3
17.5°	2576.0	2567.5	2567.5	2563.3	2580.3	2593.1	2635.8	2640.0	2721.1	2797.8	2874.6
20°	2738.1	2733.9	2716.8	2695.5	2691.2	2699.7	2742.4	2746.6	2827.7	2891.7	2964.2
22.5°	2934.3	2938.6	2900.2	2853.3	2831.9	2844.7	2883.1	2887.4	2947.1	3002.5	3066.5
25°	3194.5	3181.7	3126.2	3058.0	3015.3	3015.3	3053.7	3053.7	3109.2	3143.3	3185.9
27.5°	3441.8	3416.3	3365.1	3267.0	3198.7	3211.5	3249.9	3249.9	3301.1	3313.9	3335.2
30°	3710.5	3684.9	3621.0	3497.3	3407.7	3399.2	3446.1	3441.8	3510.1	3505.8	3488.8
32.5°	4038.9	4026.1	3919.5	3761.7	3642.3	3612.4	3655.1	3659.4	3702.0	3689.2	3633.8
35°	4499.6	4495.3	4397.2	4120.0	3962.2	3906.7	3932.3	3932.3	3962.2	3928.0	3834.2
37.5°	5079.6	5088.1	5002.8	4593.4	4371.6	4277.8	4282.0	4277.8	4286.3	4247.9	4149.8
40°	5659.6	5681.0	5676.7	5182.0	4900.5	4738.4	4678.7	4670.2	4691.5	4674.4	4580.6
42.5°	6423.1	6474.2	6354.8	5907.0	5591.4	5318.4	5156.4	5135.0	5182.0	5203.3	5113.7
45°	7216.4	7199.3	7011.6	6687.5	6401.7	6052.0	5744.9	5710.8	5744.9	5808.9	5715.1
47.5°	7630.1	7617.3	7570.3	7408.3	7365.6	6964.7	6499.8	6470.0	6406.0	6495.6	6384.7
50°	8312.5	8325.2	8133.3	8116.3	8295.4	8073.6	7352.8	7284.6	7169.4	7241.9	7148.1
52.5°	8807.2	8751.7	8632.3	8781.6	9340.3	9220.9	8154.6	8124.8	8018.2	8001.1	7958.5
55°	9007.6	9007.6	9029.0	9374.4	10172.0	10014.2	9024.7	9054.6	8909.5	8790.1	8845.6
57.5°	9067.4	9092.9	9276.3	9847.8	11148.7	10632.6	9984.3	10027.0	9818.0	9579.2	9754.0
60°	8773.1	8849.8	9289.1	10116.5	11698.8	11289.4	10995.1	11007.9	10705.1	10355.4	10662.5
62.5°	8018.2	8112.0	8896.8	10227.4	11609.3	11963.3	11950.5	11980.3	11566.6	11131.6	11515.5
65°	7092.7	7186.5	8022.4	9916.1	11541.0	12445.2	12824.8	12905.8	12372.7	11788.4	12048.6
67.5°	5732.1	5855.8	6649.1	8866.9	11208.4	12841.9	13643.7	13729.0	12995.4	12129.6	12001.7
70°	4154.1	4213.8	4879.1	6738.7	9852.1	12624.3	14292.0	14287.7	13200.1	12104.0	11361.9
72.5°	2000.3	2047.2	2623.0	4183.9	7045.8	10713.6	13822.8	13903.8	12918.6	11733.0	9899.0
75°	823.1	870.1	1062.0	1765.7	3697.7	7079.9	11715.9	11907.8	11733.0	10530.2	7745.2
77.5°	511.8	528.9	622.7	912.7	1688.9	3305.4	8201.6	8461.7	9297.7	8436.1	5113.7
80°	383.8	396.6	464.9	639.7	1066.2	1219.8	4073.1	4401.5	5634.0	4840.8	2315.9
82.5°	319.9	324.1	371.1	464.9	725.0	699.5	1305.1	1454.4	2627.2	1846.7	797.6
85°	298.5	307.1	332.7	332.7	460.6	439.3	541.7	567.2	763.4	631.2	277.2
87.5°	153.5	145.0	294.3	260.2	238.8	213.2	230.3	247.4	285.8	302.8	123.7
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°	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9	2605.9
2.5°	2597.4	2610.2	2631.5	2652.8	2678.4	2708.3	2725.3	2746.6	2763.7	2755.2	2750.9
5°	2610.2	2631.5	2678.4	2721.1	2772.2	2831.9	2870.3	2913.0	2947.1	2955.6	2942.8
7.5°	2631.5	2669.9	2733.9	2810.6	2878.9	2955.6	3015.3	3075.1	3117.7	3126.2	3126.2
10°	2682.7	2725.3	2810.6	2913.0	2994.0	3075.1	3143.3	3190.2	3228.6	3245.7	3245.7
12.5°	2755.2	2806.4	2908.7	3032.4	3122.0	3198.7	3237.1	3258.4	3275.5	3292.6	3296.8
15°	2840.5	2895.9	3019.6	3151.8	3245.7	3284.0	3284.0	3279.8	3279.8	3288.3	3296.8
17.5°	2925.8	2985.5	3113.4	3254.2	3313.9	3292.6	3262.7	3249.9	3241.4	3237.1	3249.9
20°	3015.3	3075.1	3203.0	3335.2	3318.2	3228.6	3185.9	3156.1	3130.5	3117.7	3134.8
22.5°	3113.4	3168.9	3301.1	3390.7	3262.7	3126.2	3045.2	2998.3	2955.6	2930.0	2947.1
25°	3228.6	3284.0	3412.0	3407.7	3164.6	2972.7	2844.7	2768.0	2721.1	2695.5	2695.5
27.5°	3365.1	3412.0	3535.7	3365.1	3028.1	2768.0	2580.3	2507.8	2495.0	2473.7	2473.7
30°	3505.8	3544.2	3650.8	3267.0	2840.5	2499.3	2294.6	2260.4	2264.7	2243.4	2247.6
32.5°	3650.8	3689.2	3719.1	3122.0	2597.4	2196.5	2060.0	2034.4	2030.1	2013.1	1996.0
35°	3855.5	3911.0	3727.6	2925.8	2303.1	1944.8	1846.7	1821.1	1795.6	1735.8	1735.8
37.5°	4166.9	4226.6	3706.3	2682.7	2000.3	1748.6	1659.1	1625.0	1582.3	1522.6	1501.3
40°	4593.4	4593.4	3659.4	2409.7	1757.2	1590.8	1505.5	1462.9	1416.0	1356.3	1343.5
42.5°	5096.7	4977.2	3586.9	2132.5	1578.0	1484.2	1407.4	1360.5	1305.1	1236.8	1228.3
45°	5685.2	5361.1	3484.5	1885.1	1445.8	1420.2	1373.3	1292.3	1198.5	1126.0	1113.2
47.5°	6256.7	5706.5	3386.4	1710.3	1334.9	1394.6	1356.3	1219.8	1091.8	989.5	976.7
50°	6883.7	6013.6	3271.2	1565.2	1249.6	1377.6	1334.9	1113.2	972.4	899.9	891.4
52.5°	7510.6	6325.0	3147.6	1411.7	1177.1	1343.5	1283.8	1036.4	968.2	870.1	857.3
55°	8171.7	6687.5	3002.5	1241.1	1091.8	1275.2	1215.5	1032.1	998.0	870.1	840.2
57.5°	8815.7	7088.4	2768.0	1074.8	998.0	1172.9	1189.9	1006.5	934.0	861.5	827.4
60°	9528.0	7514.9	2379.9	934.0	917.0	1087.6	1155.8	951.1	861.5	835.9	818.9
62.5°	10099.5	7898.7	1859.5	835.9	848.7	1019.3	1113.2	917.0	831.7	810.3	806.1
65°	10346.8	7907.3	1334.9	750.6	780.5	955.4	1070.5	887.1	806.1	797.6	793.3
67.5°	10086.7	7472.2	938.3	669.6	708.0	895.6	1015.1	857.3	780.5	784.8	776.2
70°	9246.5	6555.3	686.7	592.8	639.7	831.7	955.4	818.9	750.6	759.2	746.4
72.5°	7736.7	5109.4	550.2	528.9	584.3	763.4	895.6	776.2	703.7	708.0	682.4
75°	5715.1	3386.4	460.6	473.4	520.3	699.5	818.9	720.8	652.5	635.5	618.4
77.5°	3399.2	1740.1	379.6	413.7	464.9	622.7	733.6	652.5	597.1	567.2	554.4
80°	1403.2	703.7	311.3	349.7	405.2	554.4	648.3	571.5	533.1	503.3	486.2
82.5°	558.7	345.5	247.4	285.8	341.2	481.9	567.2	503.3	464.9	443.6	396.6
85°	213.2	170.6	166.3	200.5	255.9	371.1	469.1	422.2	392.4	336.9	324.1
87.5°	85.3	76.8	76.8	98.1	145.0	234.6	336.9	294.3	307.1	243.1	247.4
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)