

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: P400117

Luminaire Tested: **ARCH-L-PA3-230-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400117
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-PA3-230-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25109 lumens
Efficiency: N/A
Efficacy: 109.6 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

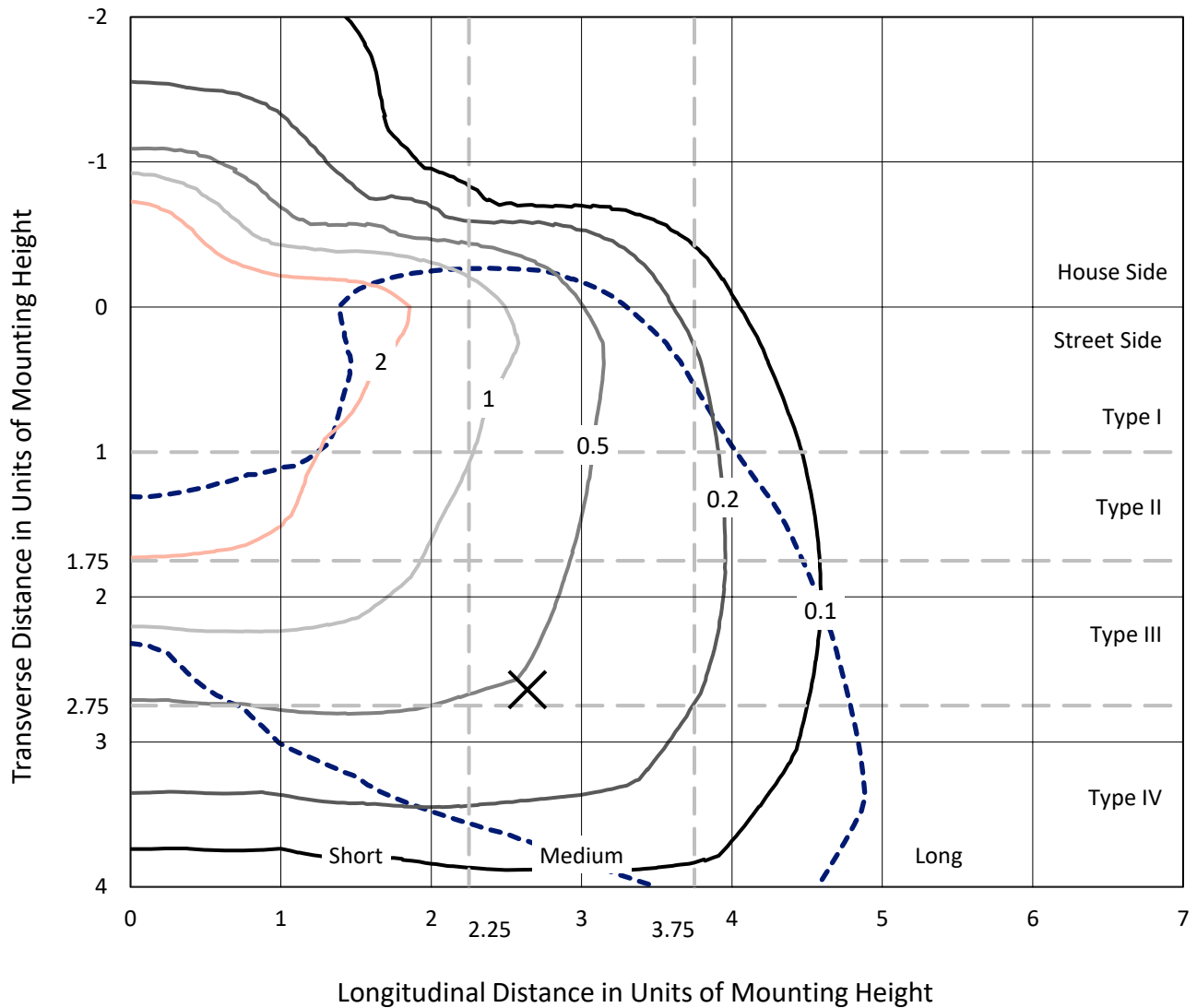
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

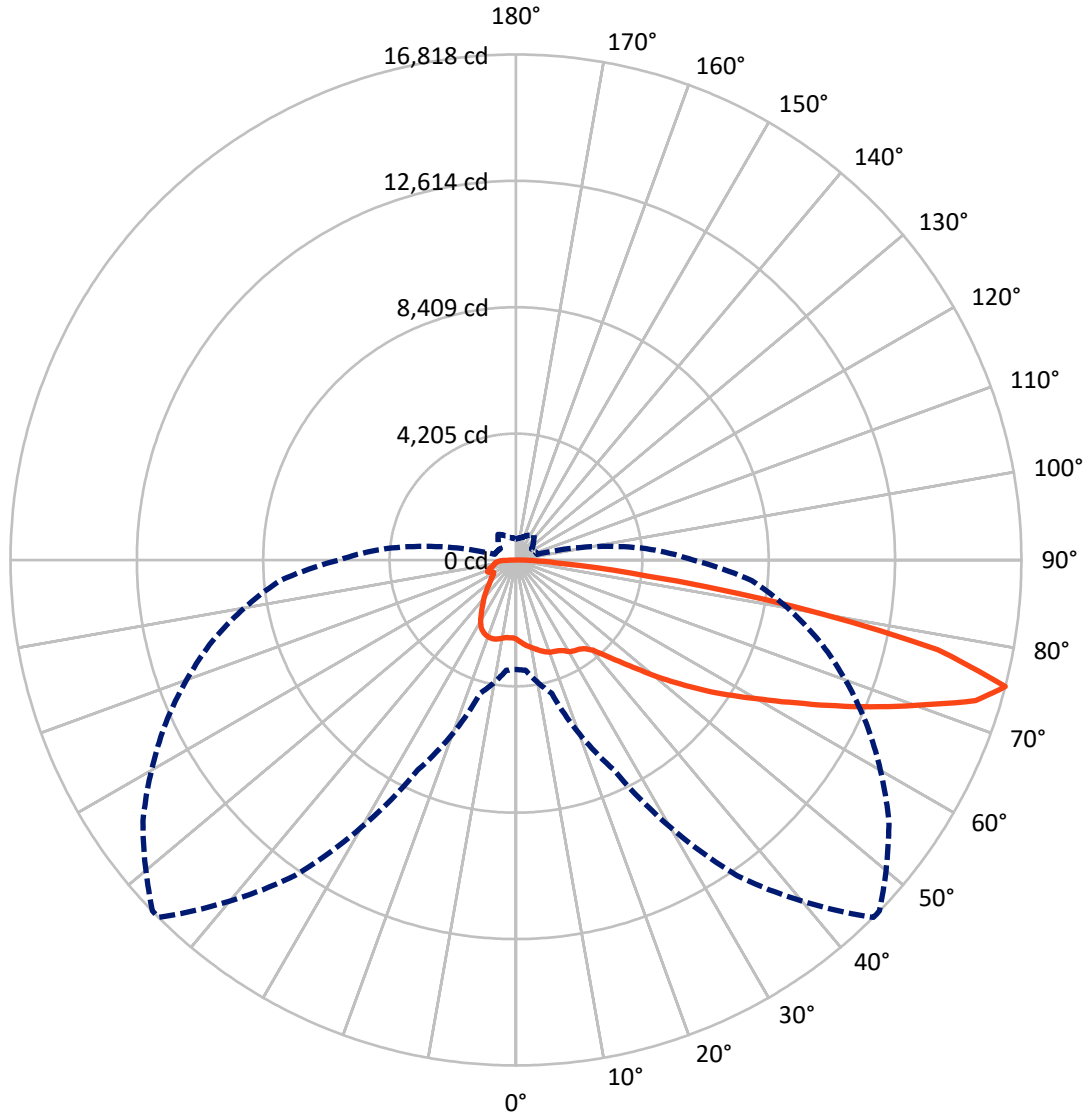
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	5549.0	0.0	5549.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	19560.0	0.0	19560.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	25109.0	0.0	25109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	1.0
10°-20°	829.9	3.3
20°-30°	1414.9	5.6
30°-40°	1982.5	7.9
40°-50°	2912.5	11.6
50°-60°	4635.3	18.5
60°-70°	6593.8	26.3
70°-80°	5521.0	22.0
80°-90°	958.2	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°	25109.0	100.0
0°-180°	25109.0	100.0

Coefficient of Utilization

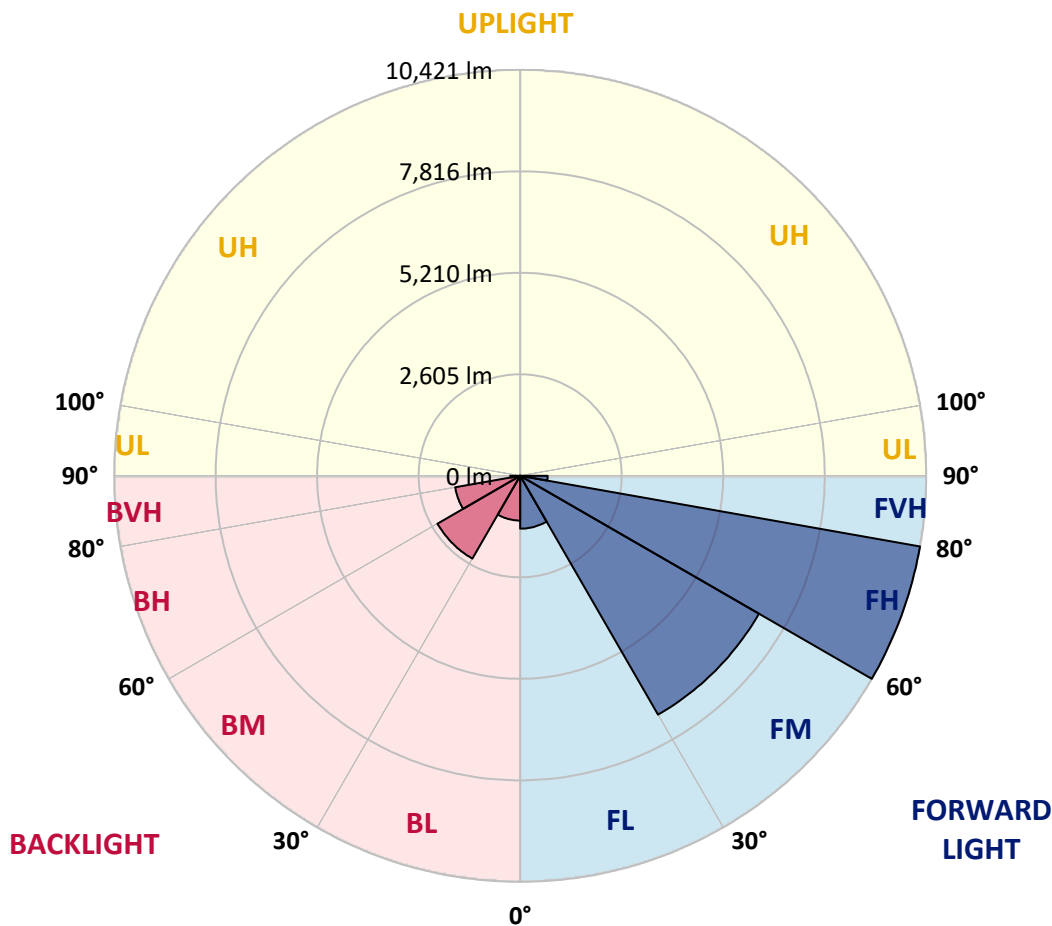


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.3	5.4			
FM (30°-60°)	7077.5	28.2			
FH (60°-80°)	10420.9	41.5			G4/12000
FVH (80°-90°)	704.4	2.8			G4/750
BL (0°-30°)	1148.4	4.6	B3/2500		
BM (30°-60°)	2452.9	9.8	B2/2500		
BH (60°-80°)	1693.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	253.7	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°	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0
2.5°	2788.0	2774.5	2767.8	2767.8	2741.0	2724.2	2720.9	2697.4	2677.3	2657.1	2640.3
5°	2949.0	2938.9	2918.8	2902.0	2865.1	2818.2	2811.5	2761.1	2710.8	2663.8	2623.6
7.5°	3096.6	3076.5	3053.0	3019.5	2959.1	2895.3	2885.3	2814.8	2744.4	2673.9	2620.2
10°	3220.8	3200.6	3167.1	3120.1	3042.9	2965.8	2955.7	2881.9	2808.1	2724.2	2647.1
12.5°	3338.2	3321.4	3271.1	3207.3	3116.8	3046.3	3036.2	2972.5	2895.3	2801.4	2700.7
15°	3438.8	3422.1	3368.4	3294.6	3190.6	3136.9	3123.5	3063.1	2985.9	2885.3	2781.3
17.5°	3489.2	3489.2	3432.1	3351.6	3254.3	3214.0	3204.0	3130.2	3059.7	2962.4	2858.4
20°	3505.9	3512.6	3472.4	3375.1	3291.2	3274.4	3264.4	3204.0	3123.5	3029.5	2932.2
22.5°	3516.0	3529.4	3495.9	3385.1	3314.7	3304.6	3297.9	3257.7	3193.9	3103.3	3006.0
25°	3549.5	3549.5	3526.1	3401.9	3344.9	3341.5	3341.5	3318.1	3274.4	3197.3	3100.0
27.5°	3599.9	3596.5	3566.3	3438.8	3412.0	3422.1	3418.7	3415.3	3385.1	3308.0	3204.0
30°	3683.7	3683.7	3650.2	3512.6	3495.9	3539.5	3542.8	3549.5	3502.6	3381.8	3297.9
32.5°	3811.2	3797.8	3764.3	3586.4	3559.6	3599.9	3606.6	3603.2	3563.0	3448.9	3408.6
35°	4203.8	4173.6	4052.8	3750.8	3616.6	3640.1	3643.5	3660.3	3667.0	3576.4	3556.3
37.5°	4891.5	4851.3	4666.7	4140.0	3797.8	3740.8	3737.4	3781.0	3817.9	3737.4	3737.4
40°	5639.7	5606.1	5498.8	4811.0	4133.3	3945.4	3932.0	3972.3	4019.2	3962.2	3979.0
42.5°	6283.8	6310.7	6320.7	5522.3	4636.5	4327.9	4291.0	4234.0	4307.8	4257.4	4324.5
45°	6766.9	6753.5	6938.0	6250.3	5287.4	4807.7	4757.3	4603.0	4696.9	4693.6	4841.2
47.5°	7280.3	7256.8	7333.9	6934.7	6028.9	5394.8	5317.6	5089.5	5230.4	5327.7	5572.6
50°	7766.7	7773.4	7800.3	7474.8	6834.0	6109.4	6012.1	5706.8	5908.1	6112.7	6458.3
52.5°	8400.8	8353.8	8320.3	8105.6	7736.5	6854.2	6790.4	6441.5	6723.3	6964.9	7424.5
55°	8954.4	8924.2	8904.0	8894.0	8491.4	7676.1	7609.0	7246.7	7652.7	7823.8	8501.5
57.5°	9544.8	9528.1	9635.4	9806.5	9645.5	8511.5	8441.1	8092.2	8545.1	8665.8	9669.0
60°	9977.6	9987.7	10282.9	10719.1	10608.4	9417.4	9333.5	9024.8	9414.0	9521.4	10836.5
62.5°	9981.0	10081.6	10766.0	11547.8	11675.2	10460.7	10363.5	10028.0	10306.4	10306.4	11883.2
65°	9028.2	9142.3	10678.8	11752.4	12755.5	11702.1	11608.1	11081.4	11185.4	11044.5	12866.3
67.5°	8078.7	8212.9	9658.9	11769.2	13513.8	13030.6	12919.9	12134.9	11957.1	11601.4	13554.0
70°	7448.0	7541.9	8749.7	11551.1	13970.0	14419.6	14335.7	13134.6	12564.3	12067.8	13409.8
72.5°	6270.4	6236.9	7391.0	10514.4	14225.0	15996.4	15926.0	14221.7	13091.0	11846.3	11437.0
75°	3640.1	3680.4	4586.2	7703.0	12822.6	16818.4	16811.7	15151.0	12859.5	10464.1	7880.8
77.5°	1050.1	1080.3	1506.4	3385.1	8108.9	14345.8	14805.4	13856.0	10870.1	7458.1	4086.3
80°	459.6	483.1	654.2	1127.3	3492.5	9370.4	9773.0	9370.4	6555.6	3422.1	1603.7
82.5°	271.8	288.5	426.1	697.8	1674.1	4458.7	5002.2	4368.2	2828.2	1452.7	664.3
85°	154.3	161.0	244.9	442.9	1053.5	1560.1	1751.3	1640.6	1378.9	825.3	348.9
87.5°	70.5	73.8	120.8	208.0	590.5	526.7	546.9	724.7	798.5	503.2	174.5
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°	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0
2.5°	2633.6	2623.6	2603.4	2596.7	2586.7	2590.0	2593.4	2593.4	2596.7	2586.7	2586.7
5°	2606.8	2590.0	2569.9	2569.9	2569.9	2596.7	2620.2	2633.6	2640.3	2640.3	2633.6
7.5°	2596.7	2576.6	2553.1	2559.8	2566.5	2600.1	2643.7	2687.3	2700.7	2700.7	2694.0
10°	2616.9	2596.7	2580.0	2590.0	2606.8	2633.6	2667.2	2707.4	2741.0	2744.4	2741.0
12.5°	2663.8	2640.3	2623.6	2643.7	2663.8	2680.6	2697.4	2714.2	2757.8	2764.5	2764.5
15°	2741.0	2717.5	2697.4	2714.2	2720.9	2720.9	2720.9	2720.9	2764.5	2771.2	2771.2
17.5°	2818.2	2798.0	2777.9	2781.3	2761.1	2734.3	2724.2	2720.9	2744.4	2764.5	2767.8
20°	2892.0	2875.2	2855.1	2821.5	2771.2	2720.9	2704.1	2704.1	2717.5	2747.7	2747.7
22.5°	2972.5	2952.4	2918.8	2841.6	2757.8	2687.3	2670.5	2680.6	2697.4	2737.6	2734.3
25°	3063.1	3036.2	2979.2	2834.9	2714.2	2630.3	2633.6	2663.8	2694.0	2737.6	2737.6
27.5°	3163.7	3126.8	3012.7	2781.3	2616.9	2536.3	2566.5	2637.0	2680.6	2727.6	2734.3
30°	3274.4	3240.9	3039.6	2687.3	2459.2	2385.4	2459.2	2573.3	2640.3	2684.0	2694.0
32.5°	3408.6	3381.8	3063.1	2566.5	2254.5	2190.8	2298.1	2439.1	2546.4	2596.7	2606.8
35°	3576.4	3549.5	3093.3	2429.0	2063.3	1996.2	2093.5	2237.8	2378.7	2442.4	2462.5
37.5°	3794.5	3754.2	3120.1	2281.4	1902.3	1825.1	1872.1	2002.9	2130.4	2217.6	2241.1
40°	4072.9	4009.2	3143.6	2113.6	1761.4	1674.1	1690.9	1754.6	1828.5	1905.6	1935.8
42.5°	4465.4	4338.0	3146.9	1935.8	1617.1	1536.6	1529.9	1550.0	1550.0	1550.0	1560.1
45°	5012.3	4770.7	3153.7	1768.1	1469.5	1385.6	1365.5	1358.8	1308.4	1211.1	1204.4
47.5°	5703.4	5337.7	3183.9	1627.2	1315.1	1241.3	1214.5	1187.7	1093.7	993.1	972.9
50°	6589.1	5995.3	3244.2	1493.0	1184.3	1134.0	1100.4	1036.7	932.7	855.5	835.4
52.5°	7609.0	6777.0	3301.3	1352.0	1087.0	1053.5	1013.2	936.0	825.3	778.3	771.6
55°	8779.9	7649.3	3415.3	1227.9	1003.1	979.6	942.7	868.9	785.1	751.5	748.2
57.5°	9977.6	8625.6	3576.4	1117.2	922.6	909.2	909.2	845.4	791.8	778.3	778.3
60°	11131.7	9464.3	3452.2	1013.2	848.8	855.5	919.3	902.5	862.2	879.0	889.1
62.5°	12027.5	9957.5	2801.4	929.3	795.1	855.5	1019.9	1019.9	972.9	966.2	966.2
65°	12410.0	9950.8	1969.4	865.6	775.0	939.4	1137.3	1083.7	959.5	912.5	902.5
67.5°	12312.7	9514.7	1358.8	822.0	768.3	1026.6	1191.0	1040.0	899.1	858.9	828.7
70°	11457.2	8592.0	1046.7	781.7	758.2	989.7	1174.2	989.7	852.2	815.3	788.4
72.5°	9242.9	6891.1	868.9	741.4	718.0	915.9	1117.2	942.7	815.3	775.0	748.2
75°	5894.7	4334.6	734.7	687.8	640.8	822.0	1040.0	895.8	775.0	721.3	701.2
77.5°	2834.9	1868.7	640.8	624.0	577.1	761.6	962.9	835.4	721.3	677.7	664.3
80°	1147.4	855.5	556.9	560.3	530.1	724.7	909.2	778.3	667.6	620.7	597.2
82.5°	597.2	496.5	469.7	483.1	483.1	691.1	868.9	731.4	620.7	600.5	523.4
85°	322.1	308.7	362.3	389.2	419.4	624.0	808.5	681.1	567.0	486.5	469.7
87.5°	157.7	201.3	204.7	234.8	291.9	499.9	681.1	570.3	473.0	392.5	385.8
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)