

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: P835877

Luminaire Tested: **ARCH3-110-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14982 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 111.9
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

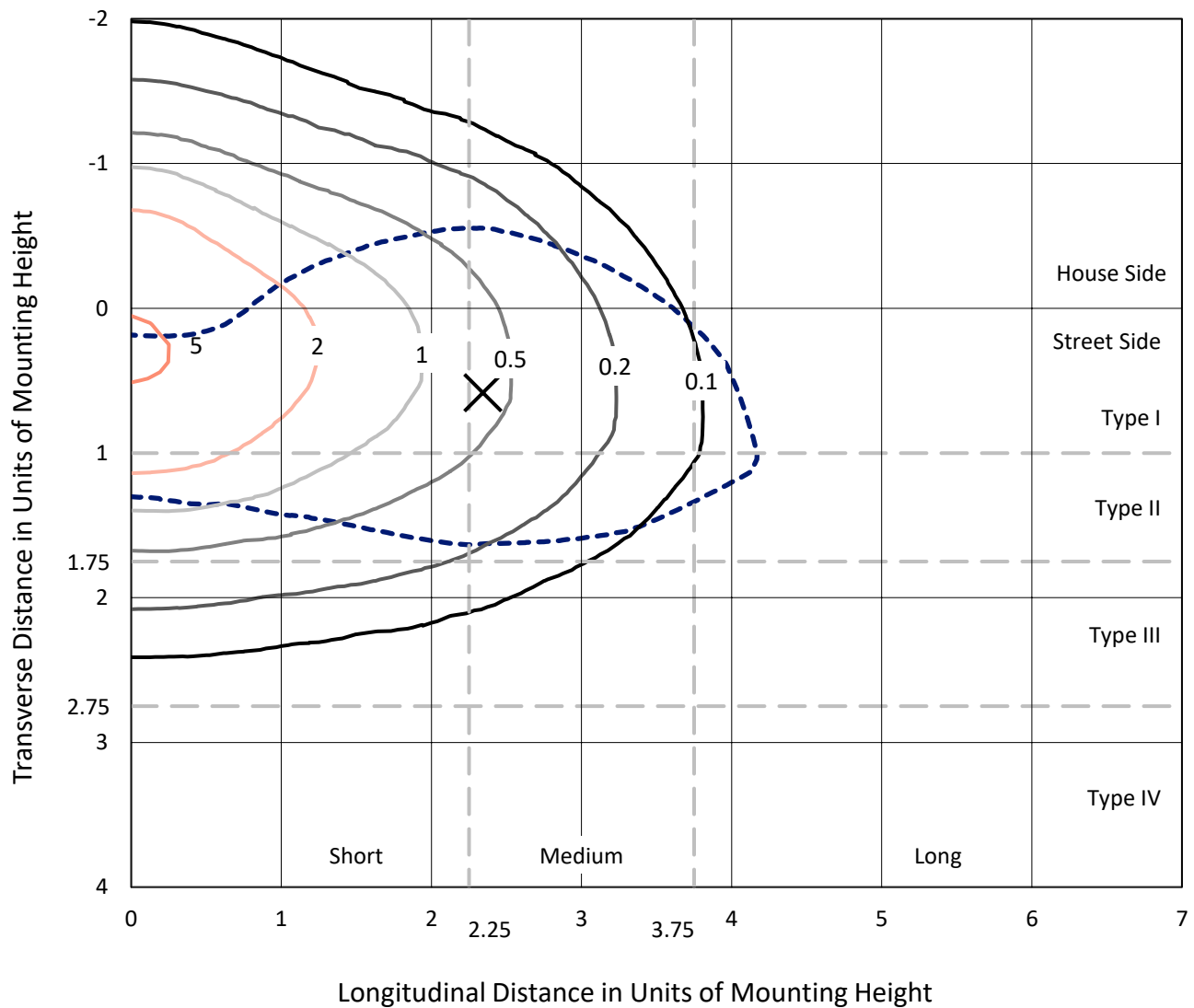


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Iso-Footcandle Lines of Horizontal Illumination

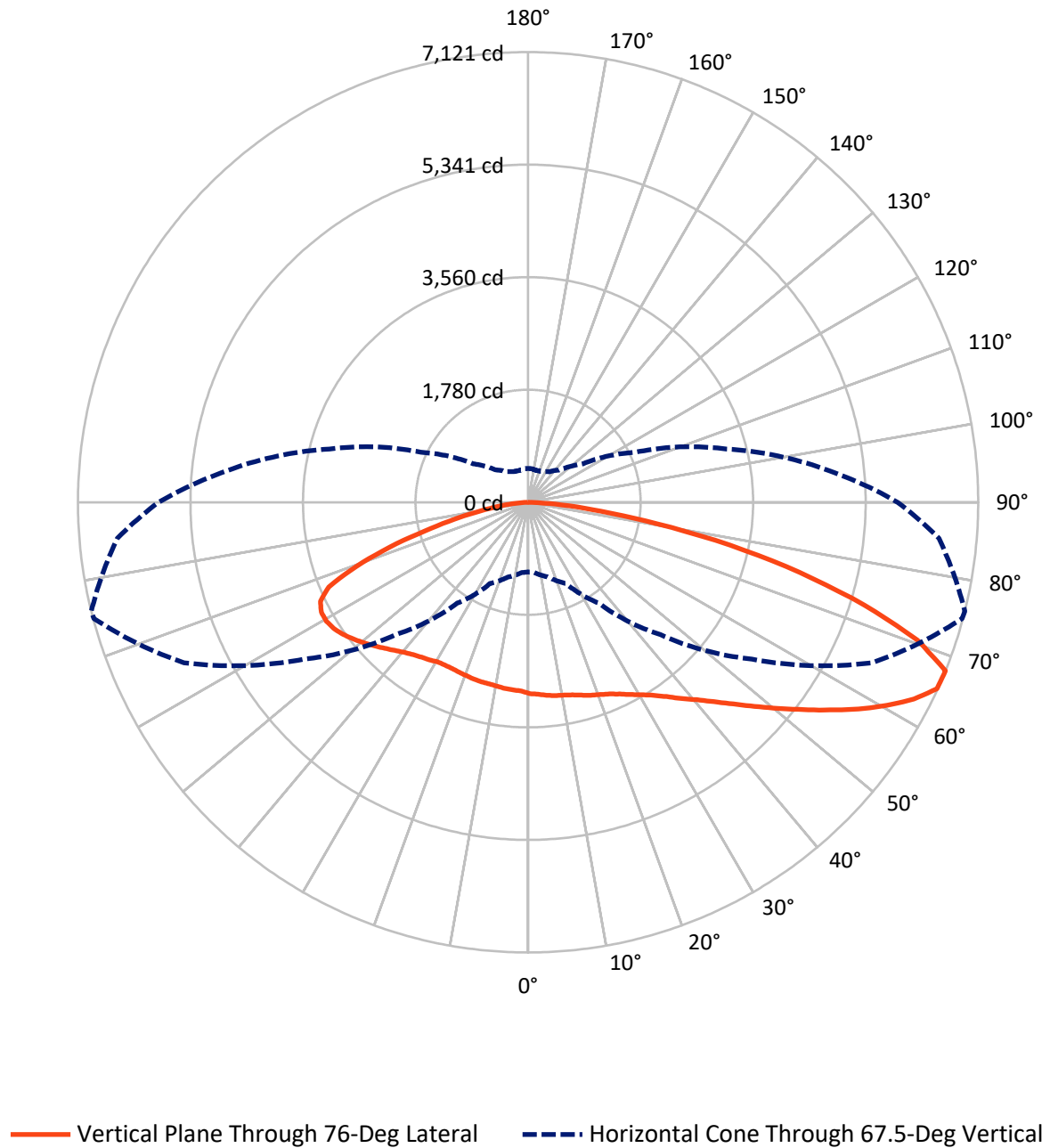
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5062.5	0.0	5062.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	9919.5	0.0	9919.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	14982.0	0.0	14982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	1.9
10°-20°	892.2	6.0
20°-30°	1515.8	10.1
30°-40°	2156.8	14.4
40°-50°	2723.9	18.2
50°-60°	2949.2	19.7
60°-70°	2743.0	18.3
70°-80°	1473.3	9.8
80°-90°	236.1	1.6
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°	14982.0	100.0
0°-180°	14982.0	100.0

Coefficient of Utilization



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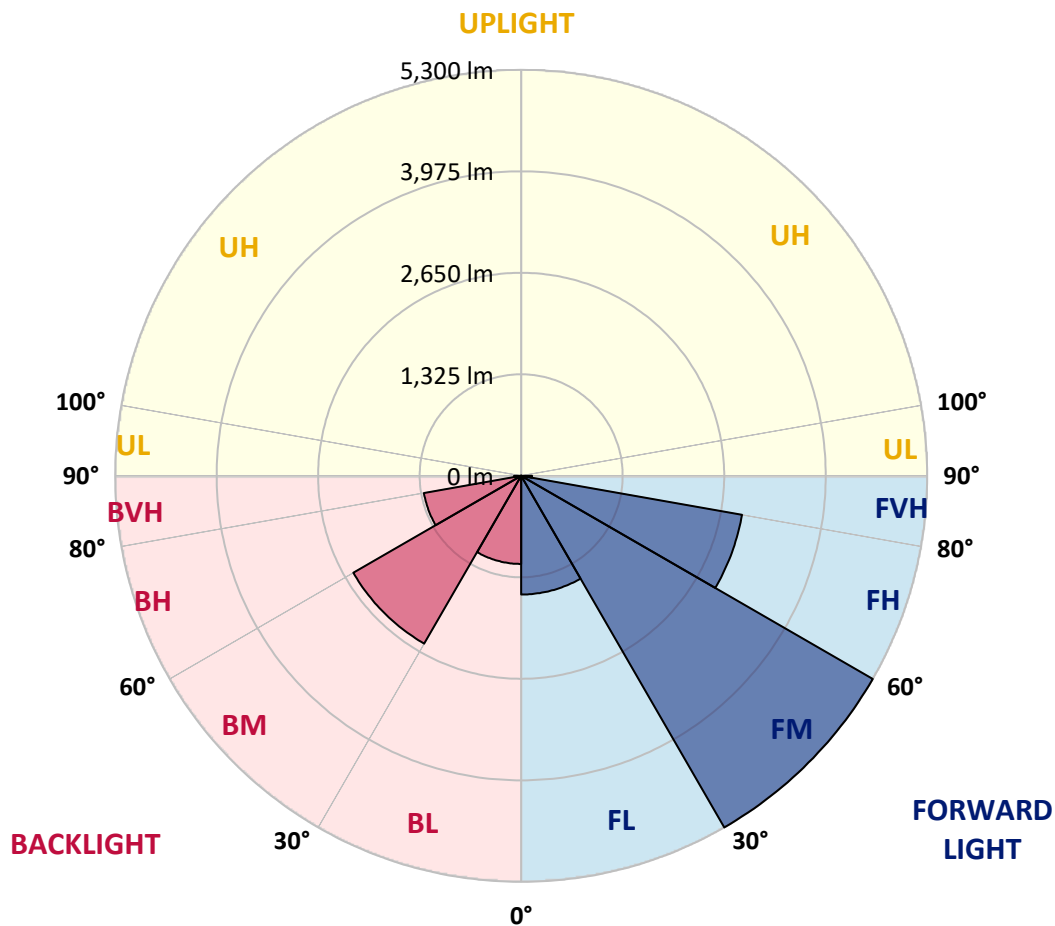
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1549.3	10.3			
FM	(30°-60°)	5300.1	35.4			
FH	(60°-80°)	2927.3	19.5			G2/5000
FVH	(80°-90°)	142.8	1.0			G2/225
BL	(0°-30°)	1150.5	7.7	B3/2500		
BM	(30°-60°)	2529.8	16.9	B3/5000		
BH	(60°-80°)	1289.0	8.6	B3/2500		G3/2500
BVH	(80°-90°)	93.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3
2.5°	3118.1	3112.6	3090.3	3093.1	3093.1	3090.3	3056.9	3043.0	3043.0	3040.2	3009.6
5°	3229.4	3221.0	3196.0	3190.4	3179.3	3165.4	3112.6	3082.0	3068.1	3065.3	3023.5
7.5°	3360.1	3349.0	3318.4	3301.7	3273.9	3237.7	3171.0	3123.7	3090.3	3087.5	3029.1
10°	3490.9	3479.7	3443.6	3413.0	3374.0	3315.6	3229.4	3159.8	3107.0	3101.4	3031.9
12.5°	3646.6	3635.5	3591.0	3552.0	3493.6	3415.7	3301.7	3207.1	3134.8	3126.5	3040.2
15°	3810.7	3794.0	3749.5	3705.0	3632.7	3532.6	3396.3	3271.1	3179.3	3165.4	3065.3
17.5°	3947.0	3924.8	3888.6	3844.1	3763.4	3646.6	3490.9	3335.1	3221.0	3209.9	3090.3
20°	4063.9	4047.2	4008.2	3966.5	3880.3	3752.3	3579.9	3399.1	3260.0	3246.1	3109.8
22.5°	4175.1	4152.9	4130.6	4100.0	4005.4	3863.6	3682.8	3476.9	3310.0	3293.4	3134.8
25°	4303.1	4278.0	4269.7	4253.0	4141.7	3997.1	3807.9	3574.3	3379.6	3360.1	3179.3
27.5°	4461.6	4433.8	4417.1	4417.1	4283.6	4133.4	3941.5	3688.3	3460.3	3443.6	3234.9
30°	4628.5	4595.1	4570.1	4570.1	4419.9	4269.7	4072.2	3802.4	3552.0	3532.6	3307.3
32.5°	4775.9	4742.5	4714.7	4712.0	4556.2	4406.0	4208.5	3927.6	3663.3	3638.3	3396.3
35°	4890.0	4859.4	4834.3	4839.9	4692.5	4545.1	4361.5	4094.4	3802.4	3774.6	3513.1
37.5°	4959.5	4948.4	4934.5	4953.9	4817.7	4678.6	4520.0	4255.8	3960.9	3935.9	3657.7
40°	4995.7	4987.3	5043.0	5068.0	4923.4	4798.2	4678.6	4422.7	4133.4	4105.6	3824.6
42.5°	5048.5	5118.1	5140.3	5134.7	5001.2	4890.0	4823.2	4603.5	4336.4	4311.4	4024.9
45°	4859.4	4842.7	4965.1	5031.8	5006.8	4948.4	4959.5	4820.4	4572.9	4547.8	4255.8
47.5°	4606.3	4584.0	4653.5	4817.7	4915.0	4970.6	5081.9	5045.7	4845.5	4823.2	4525.6
50°	4072.2	4102.8	4361.5	4581.2	4773.1	4965.1	5184.8	5287.7	5145.9	5123.6	4814.9
52.5°	3479.7	3510.3	3780.1	4286.4	4600.7	4923.4	5259.9	5529.7	5471.3	5446.3	5123.6
55°	3048.6	3115.3	3421.3	3788.5	4355.9	4792.6	5304.4	5777.3	5821.8	5799.5	5460.2
57.5°	2620.2	2670.3	2901.2	3226.6	4022.1	4564.5	5301.6	6008.2	6189.0	6166.7	5802.3
60°	2116.8	2180.7	2364.3	2714.8	3577.1	4291.9	5223.8	6189.0	6542.2	6525.5	6133.3
62.5°	1771.8	1791.3	1922.1	2225.2	3004.1	3947.0	5048.5	6286.3	6862.1	6851.0	6431.0
65°	1426.9	1429.7	1549.3	1802.4	2450.5	3518.7	4750.9	6250.2	7104.1	7109.7	6645.1
67.5°	1101.5	1115.4	1223.9	1415.8	1947.1	2962.4	4325.3	6005.4	7106.9	7120.8	6522.7
70°	762.1	773.3	937.4	1123.7	1504.8	2361.5	3749.5	5357.3	6522.7	6533.9	5846.8
72.5°	536.8	542.4	717.6	898.4	1176.6	1780.2	2828.8	4431.0	5560.3	5568.7	4917.8
75°	400.5	406.1	506.2	681.5	901.2	1232.2	1933.2	3393.5	4442.1	4442.1	3883.0
77.5°	283.7	286.5	328.2	470.1	600.8	831.7	1162.7	2222.5	3260.0	3265.5	2828.8
80°	191.9	194.7	214.2	317.1	375.5	450.6	631.4	1165.5	2055.6	2063.9	1796.9
82.5°	100.1	105.7	119.6	161.3	189.1	250.3	325.4	592.5	1137.7	1159.9	1079.2
85°	38.9	38.9	44.5	52.8	69.5	97.4	150.2	225.3	514.6	531.3	475.6
87.5°	13.9	13.9	16.7	16.7	19.5	22.3	25.0	33.4	58.4	58.4	55.6
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°	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3
2.5°	2998.5	2998.5	2984.6	2990.2	2987.4	2981.8	2976.3	2984.6	2976.3	2956.8	2954.0
5°	3004.1	2998.5	2976.3	2973.5	2965.1	2954.0	2940.1	2945.7	2931.8	2915.1	2912.3
7.5°	3006.9	2995.7	2965.1	2954.0	2937.3	2915.1	2892.8	2892.8	2873.3	2856.7	2853.9
10°	3001.3	2987.4	2945.7	2923.4	2892.8	2859.4	2828.8	2820.5	2798.2	2778.8	2778.8
12.5°	3004.1	2984.6	2931.8	2895.6	2853.9	2812.2	2773.2	2762.1	2742.6	2723.1	2720.4
15°	3020.8	2993.0	2926.2	2878.9	2817.7	2770.4	2728.7	2720.4	2703.7	2689.8	2689.8
17.5°	3037.5	3001.3	2917.9	2851.1	2776.0	2723.1	2684.2	2684.2	2673.1	2664.7	2664.7
20°	3045.8	3004.1	2901.2	2812.2	2725.9	2670.3	2634.1	2639.7	2636.9	2634.1	2634.1
22.5°	3065.3	3009.6	2887.3	2776.0	2673.1	2614.7	2581.3	2589.6	2586.8	2586.8	2589.6
25°	3095.9	3023.5	2876.1	2742.6	2623.0	2559.0	2522.9	2528.4	2528.4	2528.4	2528.4
27.5°	3137.6	3051.4	2873.3	2712.0	2572.9	2500.6	2456.1	2456.1	2445.0	2447.8	2450.5
30°	3201.6	3104.2	2878.9	2684.2	2520.1	2428.3	2375.4	2367.1	2364.3	2369.9	2372.7
32.5°	3279.5	3176.5	2912.3	2664.7	2464.5	2347.6	2280.9	2278.1	2269.7	2269.7	2269.7
35°	3376.8	3246.1	2942.9	2661.9	2408.8	2261.4	2189.1	2180.7	2161.3	2152.9	2152.9
37.5°	3502.0	3354.6	2979.0	2642.5	2361.5	2178.0	2091.7	2063.9	2041.7	2038.9	2038.9
40°	3655.0	3476.9	3031.9	2620.2	2311.5	2091.7	1977.7	1930.4	1933.2	1944.3	1944.3
42.5°	3835.8	3627.1	3098.7	2609.1	2239.2	2002.7	1844.2	1788.5	1808.0	1819.1	1821.9
45°	4047.2	3805.2	3173.8	2595.2	2172.4	1902.6	1702.3	1632.8	1641.1	1643.9	1646.7
47.5°	4291.9	4002.7	3251.6	2584.1	2097.3	1777.4	1546.5	1454.8	1452.0	1435.3	1440.8
50°	4547.8	4211.3	3332.3	2564.6	2005.5	1630.0	1382.4	1274.0	1251.7	1226.7	1229.4
52.5°	4820.4	4425.5	3407.4	2534.0	1891.5	1479.8	1226.7	1109.8	1065.3	1037.5	1043.1
55°	5120.8	4645.2	3479.7	2486.7	1771.8	1329.6	1087.6	968.0	912.3	890.1	892.9
57.5°	5396.2	4856.6	3532.6	2428.3	1641.1	1193.3	965.2	848.4	812.2	809.4	812.2
60°	5663.2	5034.6	3554.8	2347.6	1507.6	1068.1	851.2	762.1	737.1	751.0	753.8
62.5°	5888.6	5148.7	3543.7	2239.2	1371.3	948.5	759.4	695.4	678.7	706.5	709.3
65°	6019.3	5184.8	3465.8	2083.4	1223.9	831.7	673.1	603.6	595.3	611.9	620.3
67.5°	5846.8	4959.5	3254.4	1869.2	1059.8	723.2	589.7	534.1	520.2	534.1	534.1
70°	5182.0	4297.5	2753.7	1529.9	879.0	617.5	511.8	472.9	461.7	472.9	470.1
72.5°	4317.0	3574.3	2169.6	1193.3	692.6	520.2	445.0	408.9	397.8	386.6	381.1
75°	3349.0	2714.8	1574.4	876.2	522.9	417.2	372.7	339.3	311.5	322.7	317.1
77.5°	2453.3	1905.4	1115.4	606.4	375.5	322.7	292.1	267.0	247.6	269.8	267.0
80°	1579.9	1232.2	745.5	406.1	258.7	225.3	214.2	200.3	219.7	286.5	292.1
82.5°	965.2	781.6	445.0	264.2	169.7	150.2	139.1	139.1	225.3	247.6	250.3
85°	431.1	414.5	242.0	136.3	94.6	86.2	77.9	100.1	91.8	66.8	69.5
87.5°	69.5	72.3	52.8	47.3	36.2	36.2	27.8	19.5	13.9	8.3	8.3
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)