

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: P842678

Luminaire Tested: **ARCH4-80-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14487 lumens
Efficiency: N/A
Efficacy: 173.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 83.4
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

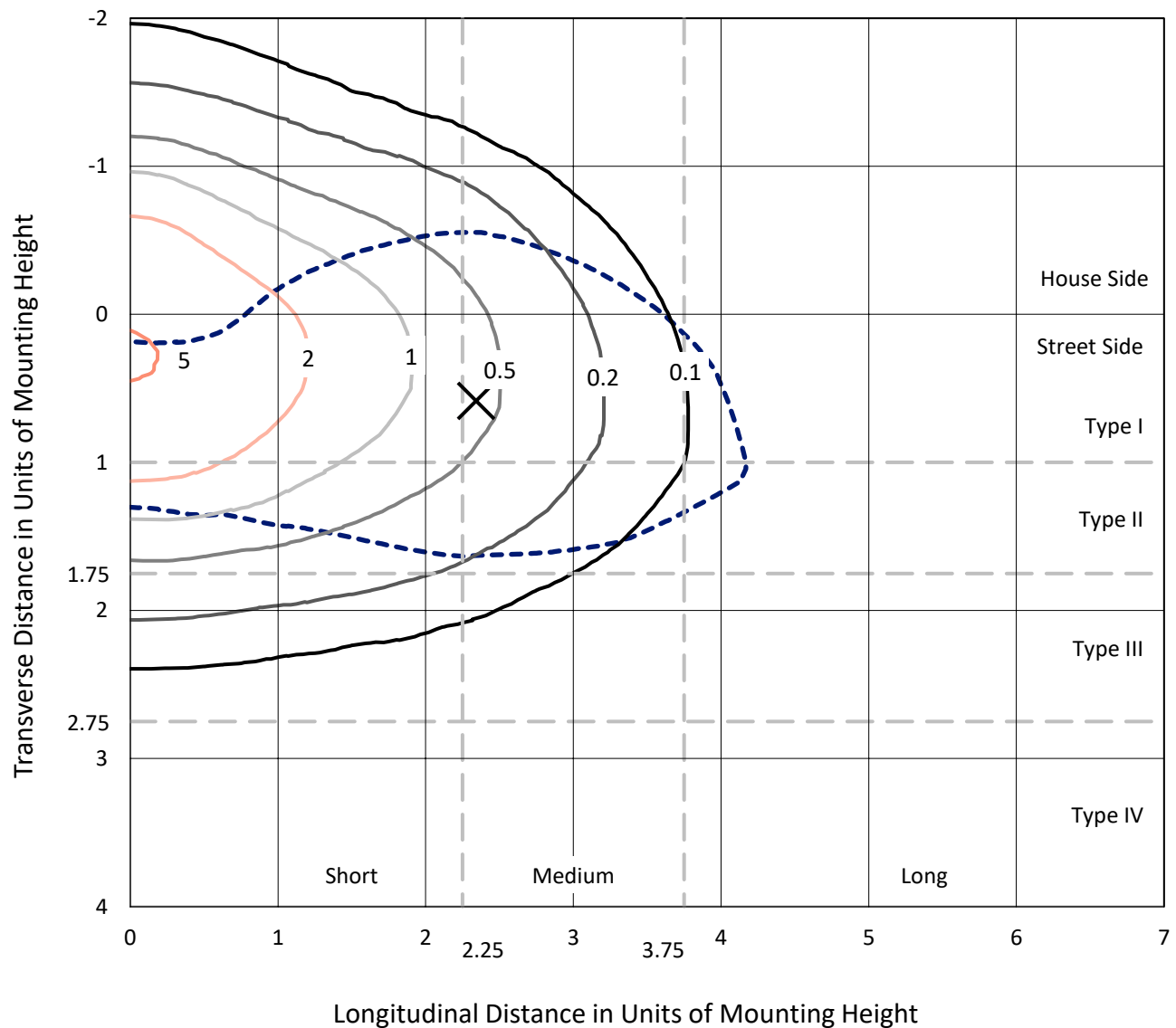


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Iso-Footcandle Lines of Horizontal Illumination

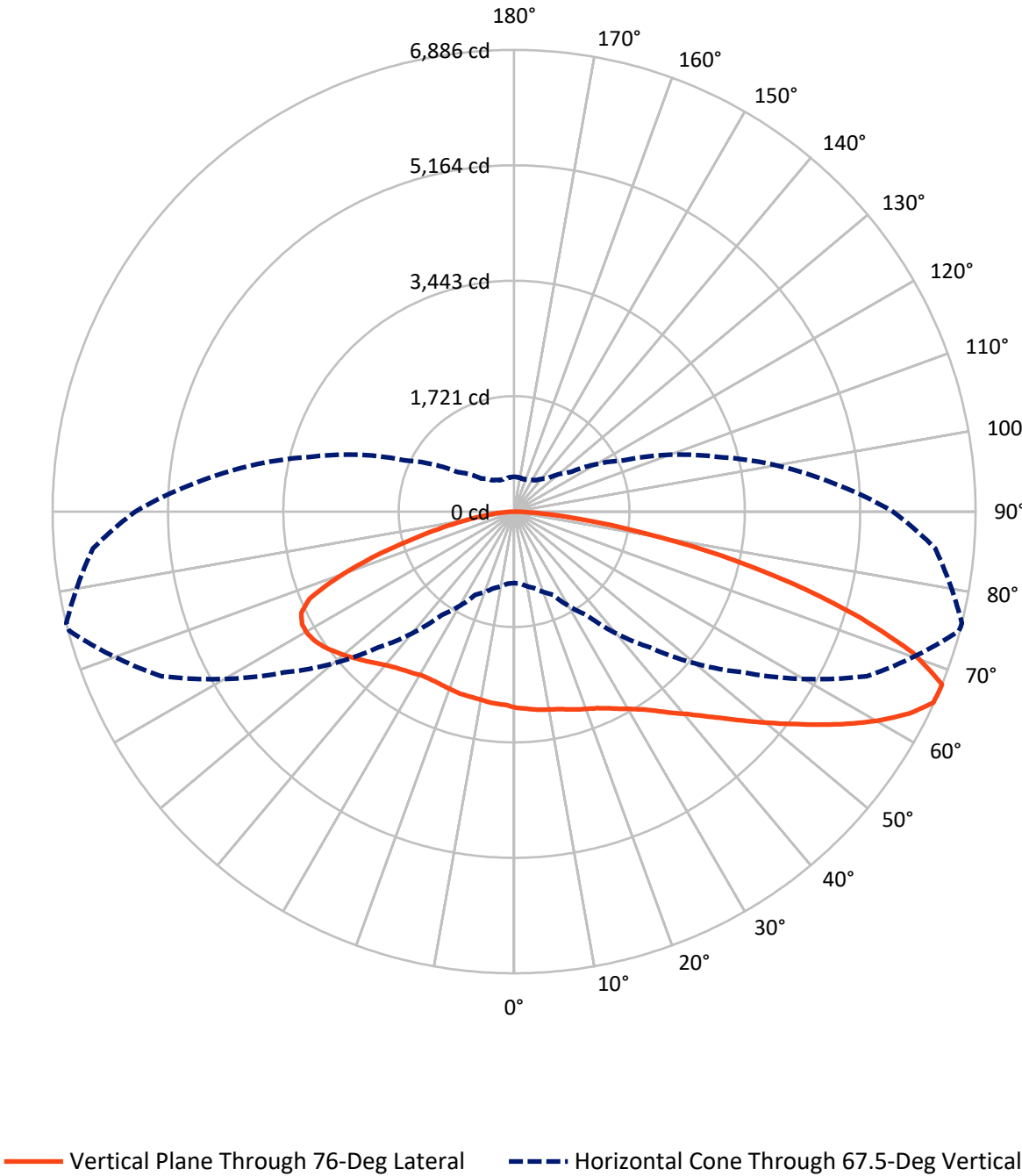
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	4895.2	0.0	4895.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	9591.8	0.0	9591.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	14487.0	0.0	14487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	1.9
10°-20°	862.7	6.0
20°-30°	1465.7	10.1
30°-40°	2085.5	14.4
40°-50°	2633.9	18.2
50°-60°	2851.7	19.7
60°-70°	2652.4	18.3
70°-80°	1424.6	9.8
80°-90°	228.3	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°	14487.0	100.0
0°-180°	14487.0	100.0

Coefficient of Utilization



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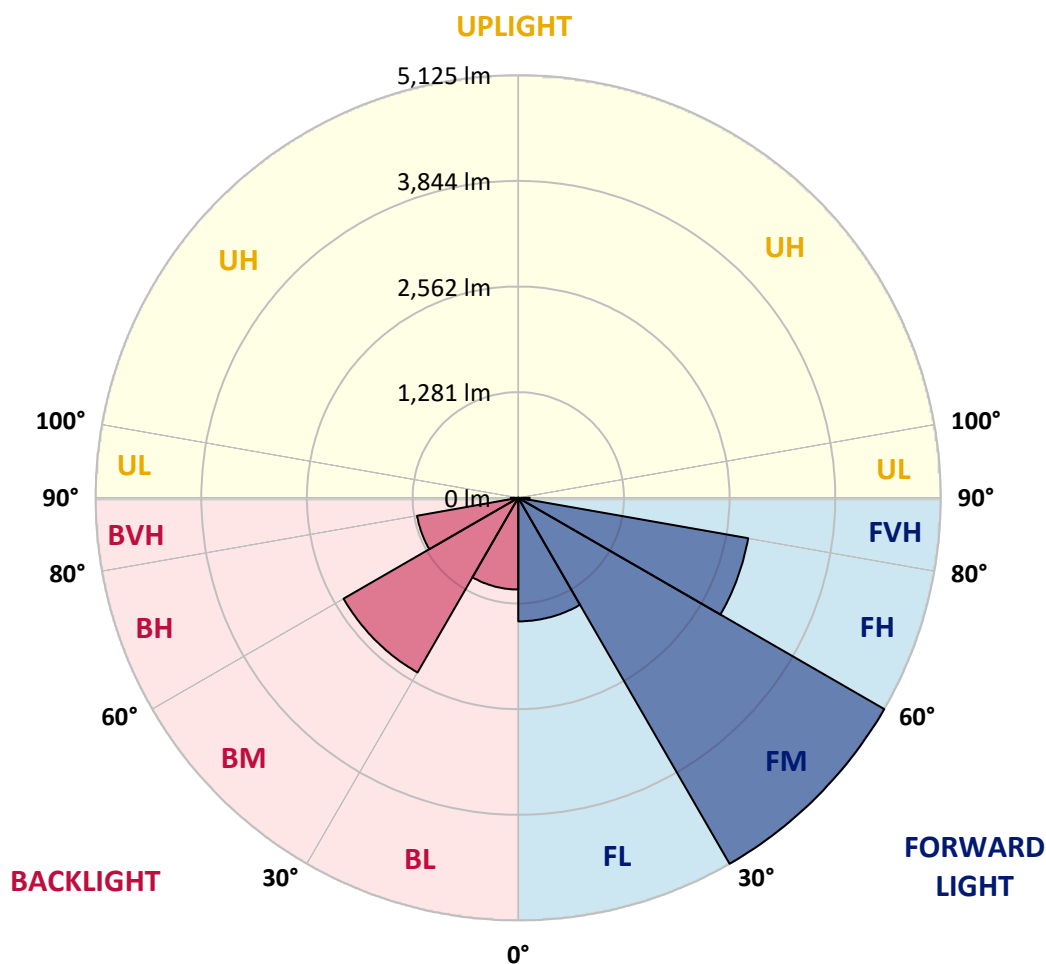
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1498.1	10.3			
FM	(30°-60°)	5125.0	35.4			
FH	(60°-80°)	2830.6	19.5			G2/5000
FVH	(80°-90°)	138.1	1.0			G2/225
BL	(0°-30°)	1112.5	7.7	B3/2500		
BM	(30°-60°)	2446.2	16.9	B2/2500		
BH	(60°-80°)	1246.4	8.6	B3/2500		G3/2500
BVH	(80°-90°)	90.2	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°	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3
2.5°	3015.1	3009.7	2988.2	2990.9	2990.9	2988.2	2955.9	2942.5	2942.5	2939.8	2910.2
5°	3122.7	3114.6	3090.4	3085.0	3074.3	3060.8	3009.7	2980.1	2966.7	2964.0	2923.7
7.5°	3249.1	3238.3	3208.8	3192.6	3165.7	3130.8	3066.2	3020.5	2988.2	2985.5	2929.0
10°	3375.5	3364.8	3329.8	3300.2	3262.5	3206.1	3122.7	3055.4	3004.3	2999.0	2931.7
12.5°	3526.1	3515.4	3472.3	3434.7	3378.2	3302.9	3192.6	3101.2	3031.2	3023.2	2939.8
15°	3684.8	3668.7	3625.7	3582.6	3512.7	3415.9	3284.1	3163.0	3074.3	3060.8	2964.0
17.5°	3816.6	3795.1	3760.1	3717.1	3639.1	3526.1	3375.5	3224.9	3114.6	3103.9	2988.2
20°	3929.6	3913.4	3875.8	3835.4	3752.1	3628.3	3461.6	3286.8	3152.3	3138.8	3007.0
22.5°	4037.2	4015.7	3994.1	3964.5	3873.1	3735.9	3561.1	3362.1	3200.7	3184.5	3031.2
25°	4160.9	4136.7	4128.6	4112.5	4004.9	3865.0	3682.1	3456.2	3267.9	3249.1	3074.3
27.5°	4314.2	4287.3	4271.2	4271.2	4142.1	3996.8	3811.2	3566.5	3345.9	3329.8	3128.1
30°	4475.6	4443.3	4419.1	4419.1	4273.9	4128.6	3937.7	3676.8	3434.7	3415.9	3198.0
32.5°	4618.1	4585.9	4559.0	4556.3	4405.7	4260.4	4069.4	3797.8	3542.3	3518.1	3284.1
35°	4728.4	4698.8	4674.6	4680.0	4537.4	4394.9	4217.4	3959.2	3676.8	3649.9	3397.0
37.5°	4795.7	4784.9	4771.4	4790.3	4658.5	4524.0	4370.7	4115.2	3830.1	3805.9	3536.9
40°	4830.6	4822.5	4876.3	4900.5	4760.7	4639.7	4524.0	4276.5	3996.8	3969.9	3698.3
42.5°	4881.7	4949.0	4970.5	4965.1	4836.0	4728.4	4663.9	4451.4	4193.2	4169.0	3891.9
45°	4698.8	4682.7	4801.0	4865.6	4841.4	4784.9	4795.7	4661.2	4421.8	4397.6	4115.2
47.5°	4454.1	4432.5	4499.8	4658.5	4752.6	4806.4	4914.0	4879.0	4685.4	4663.9	4376.1
50°	3937.7	3967.2	4217.4	4429.9	4615.4	4801.0	5013.5	5113.0	4975.9	4954.3	4655.8
52.5°	3364.8	3394.3	3655.2	4144.8	4448.7	4760.7	5086.1	5347.0	5290.5	5266.3	4954.3
55°	2947.9	3012.4	3308.3	3663.3	4212.0	4634.3	5129.2	5586.4	5629.4	5607.9	5279.8
57.5°	2533.7	2582.1	2805.3	3120.0	3889.2	4413.7	5126.5	5809.6	5984.5	5963.0	5610.6
60°	2046.8	2108.7	2286.2	2625.1	3458.9	4150.1	5051.2	5984.5	6326.1	6309.9	5930.7
62.5°	1713.3	1732.1	1858.5	2151.7	2904.8	3816.6	4881.7	6078.6	6635.4	6624.6	6218.5
65°	1379.8	1382.5	1498.1	1742.9	2369.6	3402.4	4593.9	6043.6	6869.4	6874.8	6425.6
67.5°	1065.1	1078.6	1183.4	1369.0	1882.8	2864.5	4182.4	5807.0	6872.1	6885.5	6307.2
70°	737.0	747.7	906.4	1086.6	1455.1	2283.5	3625.7	5180.3	6307.2	6318.0	5653.6
72.5°	519.1	524.5	693.9	868.8	1137.7	1721.4	2735.4	4284.6	5376.6	5384.7	4755.3
75°	387.3	392.7	489.5	659.0	871.4	1191.5	1869.3	3281.4	4295.4	4295.4	3754.8
77.5°	274.3	277.0	317.4	454.6	581.0	804.2	1124.3	2149.0	3152.3	3157.7	2735.4
80°	185.6	188.3	207.1	306.6	363.1	435.7	610.6	1127.0	1987.7	1995.7	1737.5
82.5°	96.8	102.2	115.7	156.0	182.9	242.1	314.7	572.9	1100.1	1121.6	1043.6
85°	37.7	37.7	43.0	51.1	67.2	94.1	145.2	217.9	497.6	513.7	459.9
87.5°	13.4	13.4	16.1	16.1	18.8	21.5	24.2	32.3	56.5	56.5	53.8
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°	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3	2926.3
2.5°	2899.4	2899.4	2886.0	2891.4	2888.7	2883.3	2877.9	2886.0	2877.9	2859.1	2856.4
5°	2904.8	2899.4	2877.9	2875.2	2867.2	2856.4	2843.0	2848.3	2834.9	2818.8	2816.1
7.5°	2907.5	2896.8	2867.2	2856.4	2840.3	2818.8	2797.2	2797.2	2778.4	2762.3	2759.6
10°	2902.1	2888.7	2848.3	2826.8	2797.2	2765.0	2735.4	2727.3	2705.8	2687.0	2687.0
12.5°	2904.8	2886.0	2834.9	2799.9	2759.6	2719.2	2681.6	2670.8	2652.0	2633.2	2630.5
15°	2921.0	2894.1	2829.5	2783.8	2724.6	2678.9	2638.5	2630.5	2614.3	2600.9	2600.9
17.5°	2937.1	2902.1	2821.4	2756.9	2684.3	2633.2	2595.5	2595.5	2584.8	2576.7	2576.7
20°	2945.2	2904.8	2805.3	2719.2	2635.9	2582.1	2547.1	2552.5	2549.8	2547.1	2547.1
22.5°	2964.0	2910.2	2791.9	2684.3	2584.8	2528.3	2496.0	2504.1	2501.4	2501.4	2504.1
25°	2993.6	2923.7	2781.1	2652.0	2536.3	2474.5	2439.5	2444.9	2444.9	2444.9	2444.9
27.5°	3033.9	2950.5	2778.4	2622.4	2487.9	2418.0	2375.0	2375.0	2364.2	2366.9	2369.6
30°	3095.8	3001.7	2783.8	2595.5	2436.8	2348.1	2297.0	2288.9	2286.2	2291.6	2294.3
32.5°	3171.1	3071.6	2816.1	2576.7	2383.0	2270.1	2205.5	2202.8	2194.8	2194.8	2194.8
35°	3265.2	3138.8	2845.7	2574.0	2329.2	2186.7	2116.8	2108.7	2089.9	2081.8	2081.8
37.5°	3386.3	3243.7	2880.6	2555.2	2283.5	2106.0	2022.6	1995.7	1974.2	1971.5	1971.5
40°	3534.2	3362.1	2931.7	2533.7	2235.1	2022.6	1912.3	1866.6	1869.3	1880.1	1880.1
42.5°	3709.0	3507.3	2996.3	2522.9	2165.2	1936.5	1783.2	1729.4	1748.3	1759.0	1761.7
45°	3913.4	3679.4	3068.9	2509.4	2100.6	1839.7	1646.1	1578.8	1586.9	1589.6	1592.3
47.5°	4150.1	3870.4	3144.2	2498.7	2028.0	1718.7	1495.4	1406.7	1404.0	1387.9	1393.2
50°	4397.6	4072.1	3222.2	2479.9	1939.2	1576.1	1336.8	1231.9	1210.3	1186.1	1188.8
52.5°	4661.2	4279.2	3294.8	2450.3	1829.0	1430.9	1186.1	1073.2	1030.1	1003.2	1008.6
55°	4951.7	4491.7	3364.8	2404.5	1713.3	1285.7	1051.7	936.0	882.2	860.7	863.4
57.5°	5217.9	4696.1	3415.9	2348.1	1586.9	1153.9	933.3	820.3	785.4	782.7	785.4
60°	5476.1	4868.3	3437.4	2270.1	1457.8	1032.8	823.0	737.0	712.8	726.2	728.9
62.5°	5694.0	4978.5	3426.6	2165.2	1326.0	917.2	734.3	672.4	656.3	683.2	685.9
65°	5820.4	5013.5	3351.3	2014.5	1183.4	804.2	650.9	583.7	575.6	591.7	599.8
67.5°	5653.6	4795.7	3146.9	1807.4	1024.8	699.3	570.2	516.4	503.0	516.4	516.4
70°	5010.8	4155.5	2662.8	1479.3	849.9	597.1	494.9	457.2	446.5	457.2	454.6
72.5°	4174.3	3456.2	2097.9	1153.9	669.7	503.0	430.3	395.4	384.6	373.9	368.5
75°	3238.3	2625.1	1522.3	847.2	505.7	403.4	360.4	328.1	301.2	312.0	306.6
77.5°	2372.3	1842.4	1078.6	586.3	363.1	312.0	282.4	258.2	239.4	260.9	258.2
80°	1527.7	1191.5	720.8	392.7	250.1	217.9	207.1	193.7	212.5	277.0	282.4
82.5°	933.3	755.8	430.3	255.5	164.1	145.2	134.5	134.5	217.9	239.4	242.1
85°	416.9	400.8	234.0	131.8	91.4	83.4	75.3	96.8	88.8	64.6	67.2
87.5°	67.2	69.9	51.1	45.7	35.0	35.0	26.9	18.8	13.4	8.1	8.1
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)