

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: P842660

Luminaire Tested: **ARCH4-80-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842660
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: ARCH4-80-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

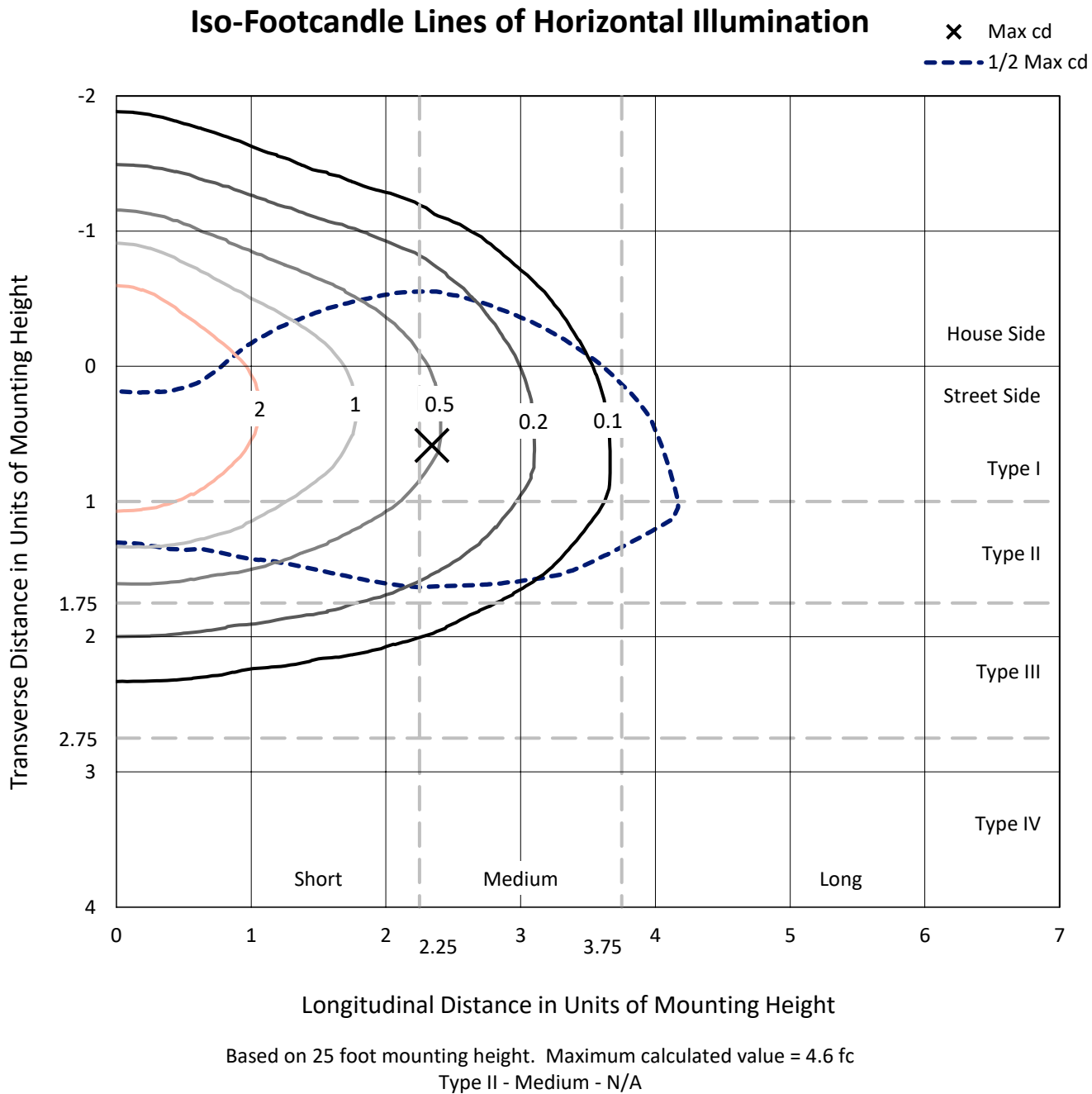
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12676 lumens
Efficiency: N/A
Efficacy: 152.0 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

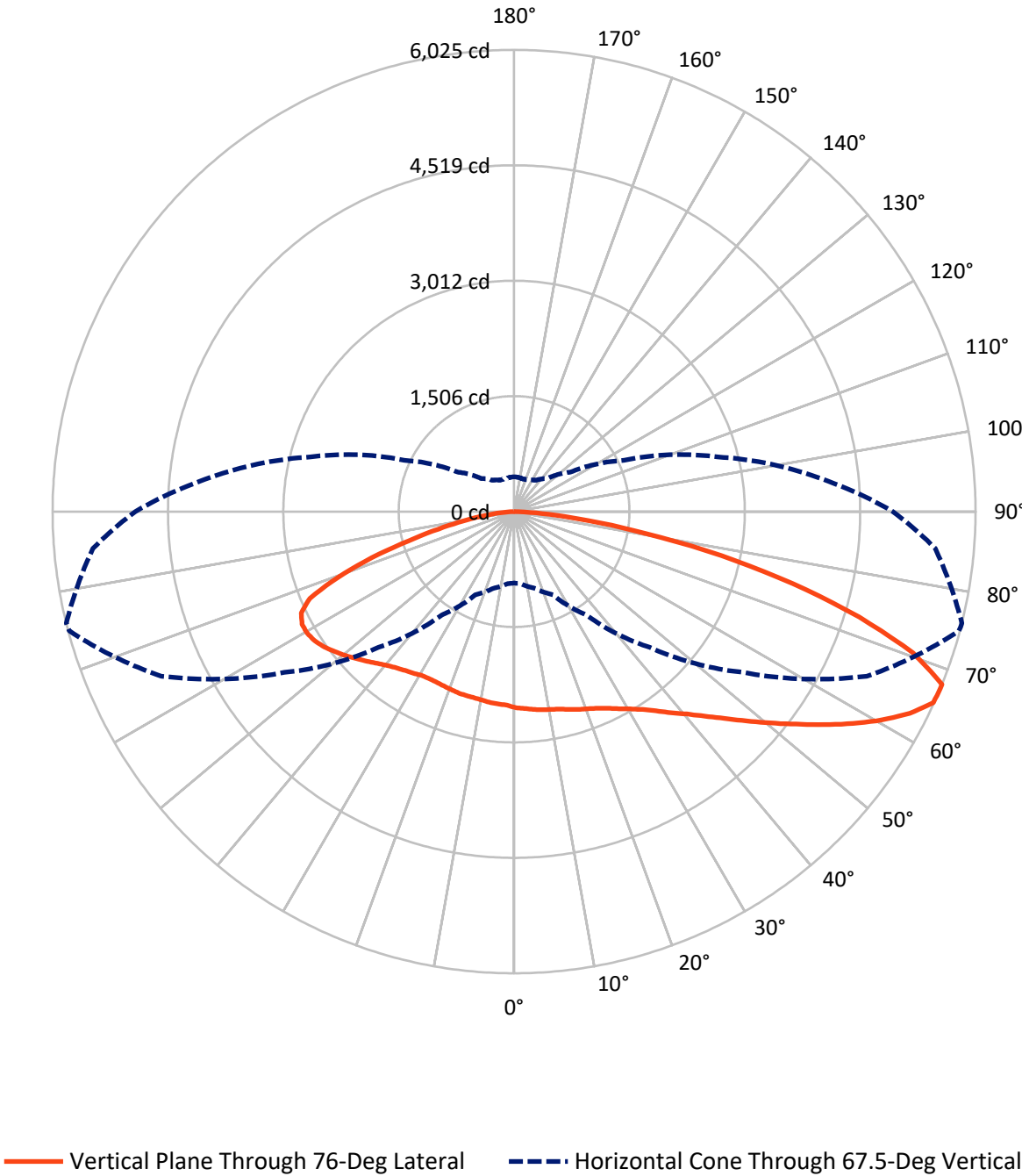


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Luminous Intensity Polar Plot



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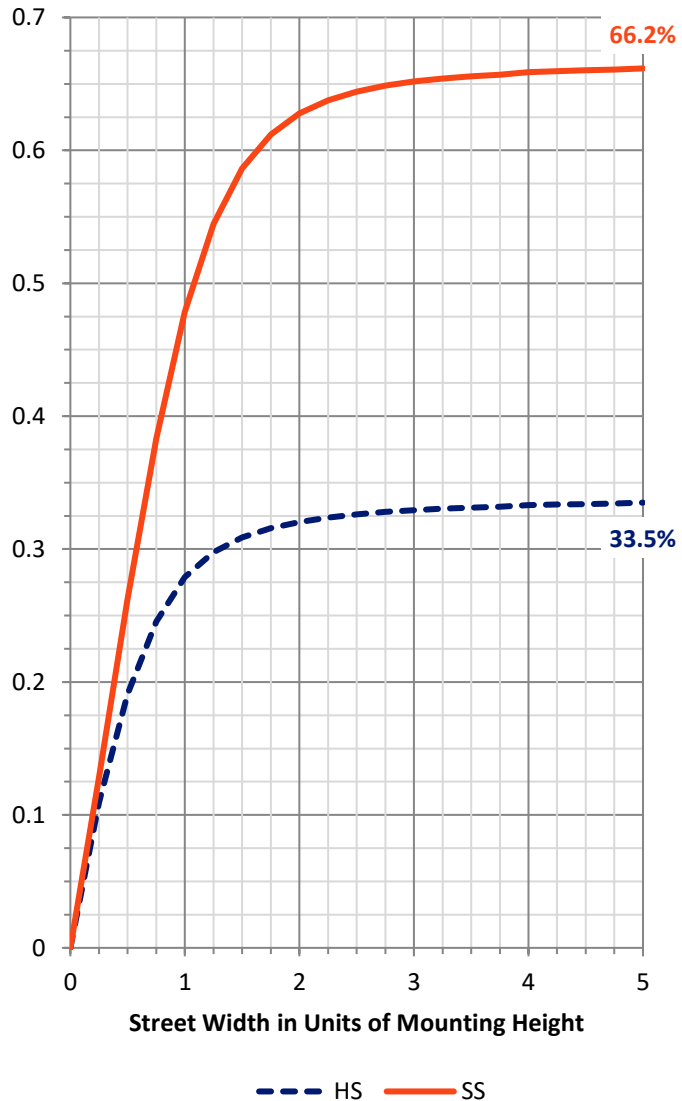
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4283.3	0.0	4283.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	8392.7	0.0	8392.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	12676.0	0.0	12676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	1.9
10°-20°	754.8	6.0
20°-30°	1282.5	10.1
30°-40°	1824.8	14.4
40°-50°	2304.7	18.2
50°-60°	2495.2	19.7
60°-70°	2320.8	18.3
70°-80°	1246.5	9.8
80°-90°	199.7	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°	12676.0	100.0
0°-180°	12676.0	100.0

Coefficient of Utilization



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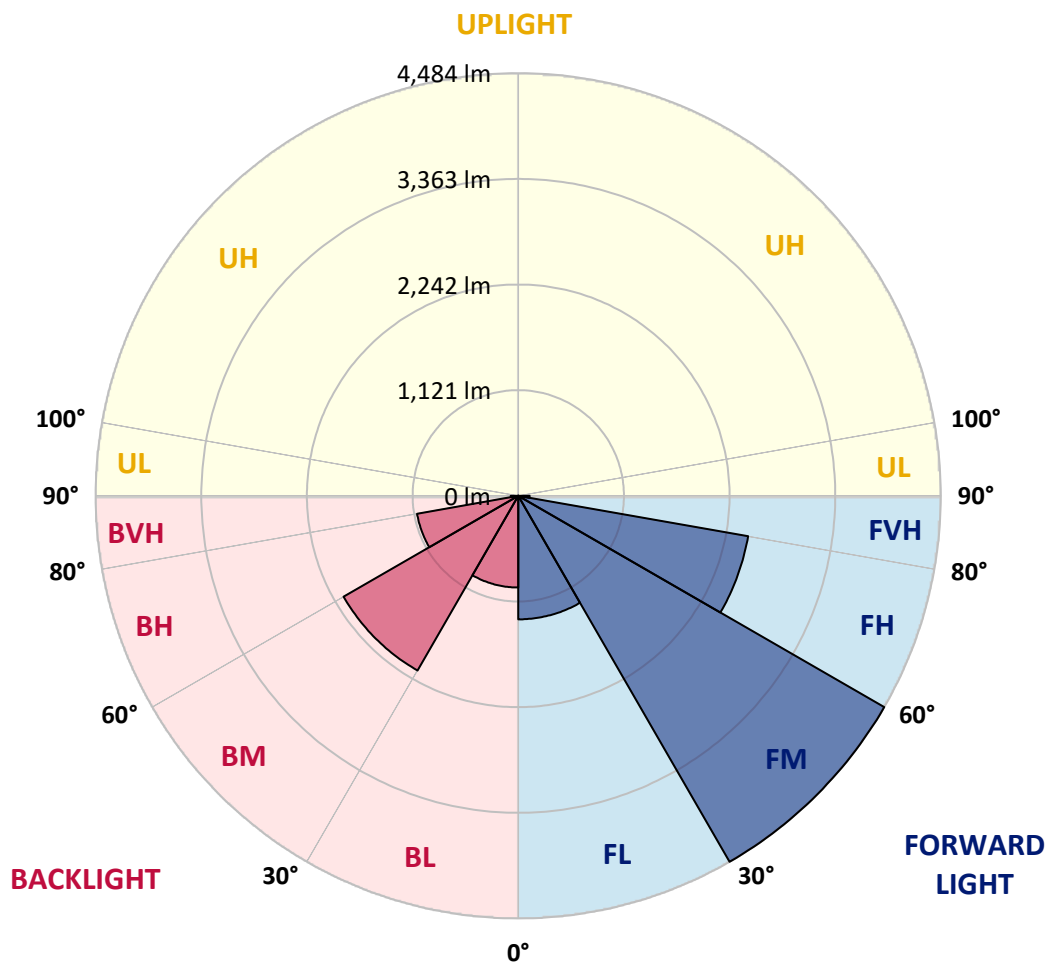
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.8	10.3			
FM	(30°-60°)	4484.3	35.4			
FH	(60°-80°)	2476.8	19.5			G2/5000
FVH	(80°-90°)	120.8	1.0			G2/225
BL	(0°-30°)	973.4	7.7	B2/1000		
BM	(30°-60°)	2140.4	16.9	B2/2500		
BH	(60°-80°)	1090.6	8.6	B3/2500		G3/2500
BVH	(80°-90°)	78.9	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°	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5
2.5°	2638.2	2633.5	2614.7	2617.0	2617.0	2614.7	2586.4	2574.6	2574.6	2572.3	2546.4
5°	2732.3	2725.3	2704.1	2699.4	2690.0	2678.2	2633.5	2607.6	2595.8	2593.5	2558.2
7.5°	2842.9	2833.5	2807.6	2793.5	2770.0	2739.4	2682.9	2642.9	2614.7	2612.3	2562.9
10°	2953.5	2944.1	2913.5	2887.6	2854.7	2805.3	2732.3	2673.5	2628.8	2624.1	2565.2
12.5°	3085.3	3075.9	3038.3	3005.3	2955.9	2890.0	2793.5	2713.5	2652.3	2645.2	2572.3
15°	3224.2	3210.1	3172.4	3134.8	3073.6	2988.8	2873.5	2767.6	2690.0	2678.2	2593.5
17.5°	3339.5	3320.7	3290.1	3252.4	3184.2	3085.3	2953.5	2821.8	2725.3	2715.8	2614.7
20°	3438.4	3424.2	3391.3	3356.0	3283.0	3174.8	3028.9	2875.9	2758.2	2746.4	2631.1
22.5°	3532.5	3513.7	3494.8	3468.9	3388.9	3268.9	3115.9	2941.8	2800.6	2786.5	2652.3
25°	3640.7	3619.6	3612.5	3598.4	3504.2	3381.9	3221.8	3024.1	2859.4	2842.9	2690.0
27.5°	3774.9	3751.4	3737.2	3737.2	3624.3	3497.2	3334.8	3120.6	2927.7	2913.5	2737.0
30°	3916.1	3887.9	3866.7	3866.7	3739.6	3612.5	3445.4	3217.1	3005.3	2988.8	2798.2
32.5°	4040.8	4012.6	3989.1	3986.7	3854.9	3727.8	3560.7	3323.0	3099.5	3078.3	2873.5
35°	4137.3	4111.4	4090.2	4095.0	3970.2	3845.5	3690.2	3464.2	3217.1	3193.6	2972.4
37.5°	4196.2	4186.7	4175.0	4191.4	4076.1	3958.5	3824.3	3600.7	3351.3	3330.1	3094.8
40°	4226.7	4219.7	4266.8	4287.9	4165.6	4059.7	3958.5	3741.9	3497.2	3473.7	3236.0
42.5°	4271.5	4330.3	4349.1	4344.4	4231.5	4137.3	4080.8	3894.9	3669.0	3647.8	3405.4
45°	4111.4	4097.3	4200.9	4257.3	4236.2	4186.7	4196.2	4078.5	3869.0	3847.8	3600.7
47.5°	3897.3	3878.4	3937.3	4076.1	4158.5	4205.6	4299.7	4269.1	4099.7	4080.8	3829.0
50°	3445.4	3471.3	3690.2	3876.1	4038.5	4200.9	4386.8	4473.9	4353.8	4335.0	4073.8
52.5°	2944.1	2970.0	3198.3	3626.6	3892.6	4165.6	4450.3	4678.6	4629.2	4608.0	4335.0
55°	2579.4	2635.8	2894.7	3205.4	3685.5	4054.9	4488.0	4888.1	4925.7	4906.9	4619.8
57.5°	2216.9	2259.3	2454.6	2730.0	3403.0	3862.0	4485.6	5083.4	5236.4	5217.5	4909.2
60°	1791.0	1845.1	2000.4	2296.9	3026.5	3631.3	4419.7	5236.4	5535.3	5521.1	5189.3
62.5°	1499.1	1515.6	1626.2	1882.7	2541.7	3339.5	4271.5	5318.7	5805.9	5796.5	5441.1
65°	1207.3	1209.7	1310.9	1525.0	2073.4	2977.1	4019.6	5288.1	6010.6	6015.3	5622.3
67.5°	932.0	943.7	1035.5	1197.9	1647.4	2506.4	3659.6	5081.0	6013.0	6024.8	5518.8
70°	644.8	654.3	793.1	950.8	1273.2	1998.1	3172.4	4532.7	5518.8	5528.2	4946.9
72.5°	454.2	458.9	607.2	760.2	995.5	1506.2	2393.4	3749.0	4704.5	4711.6	4160.9
75°	338.9	343.6	428.3	576.6	762.5	1042.6	1635.6	2871.2	3758.4	3758.4	3285.4
77.5°	240.0	242.4	277.7	397.7	508.3	703.7	983.7	1880.4	2758.2	2762.9	2393.4
80°	162.4	164.7	181.2	268.3	317.7	381.3	534.2	986.1	1739.2	1746.2	1520.3
82.5°	84.7	89.4	101.2	136.5	160.0	211.8	275.4	501.3	962.5	981.4	913.1
85°	32.9	32.9	37.7	44.7	58.8	82.4	127.1	190.6	435.4	449.5	402.4
87.5°	11.8	11.8	14.1	14.1	16.5	18.8	21.2	28.2	49.4	49.4	47.1
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°	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5	2560.5
2.5°	2537.0	2537.0	2525.2	2529.9	2527.6	2522.9	2518.2	2525.2	2518.2	2501.7	2499.3
5°	2541.7	2537.0	2518.2	2515.8	2508.7	2499.3	2487.6	2492.3	2480.5	2466.4	2464.0
7.5°	2544.1	2534.6	2508.7	2499.3	2485.2	2466.4	2447.6	2447.6	2431.1	2417.0	2414.6
10°	2539.3	2527.6	2492.3	2473.4	2447.6	2419.3	2393.4	2386.4	2367.5	2351.1	2351.1
12.5°	2541.7	2525.2	2480.5	2449.9	2414.6	2379.3	2346.4	2336.9	2320.5	2304.0	2301.6
15°	2555.8	2532.3	2475.8	2435.8	2384.0	2344.0	2308.7	2301.6	2287.5	2275.8	2275.8
17.5°	2569.9	2539.3	2468.7	2412.3	2348.7	2304.0	2271.1	2271.1	2261.6	2254.6	2254.6
20°	2577.0	2541.7	2454.6	2379.3	2306.4	2259.3	2228.7	2233.4	2231.0	2228.7	2228.7
22.5°	2593.5	2546.4	2442.9	2348.7	2261.6	2212.2	2184.0	2191.0	2188.7	2188.7	2191.0
25°	2619.4	2558.2	2433.4	2320.5	2219.3	2165.1	2134.6	2139.3	2139.3	2139.3	2139.3
27.5°	2654.7	2581.7	2431.1	2294.6	2176.9	2115.7	2078.1	2078.1	2068.7	2071.0	2073.4
30°	2708.8	2626.4	2435.8	2271.1	2132.2	2054.5	2009.8	2002.8	2000.4	2005.1	2007.5
32.5°	2774.7	2687.6	2464.0	2254.6	2085.1	1986.3	1929.8	1927.5	1920.4	1920.4	1920.4
35°	2857.1	2746.4	2489.9	2252.2	2038.1	1913.3	1852.1	1845.1	1828.6	1821.5	1821.5
37.5°	2963.0	2838.2	2520.5	2235.8	1998.1	1842.7	1769.8	1746.2	1727.4	1725.1	1725.1
40°	3092.4	2941.8	2565.2	2216.9	1955.7	1769.8	1673.3	1633.3	1635.6	1645.0	1645.0
42.5°	3245.4	3068.9	2621.7	2207.5	1894.5	1694.5	1560.3	1513.3	1529.7	1539.1	1541.5
45°	3424.2	3219.5	2685.3	2195.7	1838.0	1609.7	1440.3	1381.5	1388.5	1390.9	1393.2
47.5°	3631.3	3386.6	2751.2	2186.3	1774.5	1503.8	1308.5	1230.8	1228.5	1214.4	1219.1
50°	3847.8	3563.1	2819.4	2169.9	1696.8	1379.1	1169.7	1077.9	1059.0	1037.9	1040.2
52.5°	4078.5	3744.3	2882.9	2144.0	1600.3	1252.0	1037.9	939.0	901.4	877.8	882.5
55°	4332.7	3930.2	2944.1	2104.0	1499.1	1124.9	920.2	819.0	771.9	753.1	755.4
57.5°	4565.6	4109.1	2988.8	2054.5	1388.5	1009.6	816.6	717.8	687.2	684.8	687.2
60°	4791.6	4259.7	3007.7	1986.3	1275.6	903.7	720.1	644.8	623.7	635.4	637.8
62.5°	4982.2	4356.2	2998.3	1894.5	1160.2	802.5	642.5	588.4	574.2	597.8	600.1
65°	5092.8	4386.8	2932.4	1762.7	1035.5	703.7	569.5	510.7	503.6	517.8	524.8
67.5°	4946.9	4196.2	2753.5	1581.5	896.7	611.9	498.9	451.9	440.1	451.9	451.9
70°	4384.4	3636.0	2329.9	1294.4	743.7	522.5	433.0	400.1	390.7	400.1	397.7
72.5°	3652.5	3024.1	1835.7	1009.6	586.0	440.1	376.5	346.0	336.5	327.1	322.4
75°	2833.5	2296.9	1332.0	741.3	442.4	353.0	315.4	287.1	263.6	273.0	268.3
77.5°	2075.7	1612.1	943.7	513.0	317.7	273.0	247.1	225.9	209.5	228.3	225.9
80°	1336.7	1042.6	630.7	343.6	218.9	190.6	181.2	169.4	185.9	242.4	247.1
82.5°	816.6	661.3	376.5	223.6	143.6	127.1	117.7	117.7	190.6	209.5	211.8
85°	364.8	350.7	204.7	115.3	80.0	73.0	65.9	84.7	77.7	56.5	58.8
87.5°	58.8	61.2	44.7	40.0	30.6	30.6	23.5	16.5	11.8	7.1	7.1
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)