

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: FAIL-SAFE

Report Number: P838047

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4STD-20-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P838047
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-4STD-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

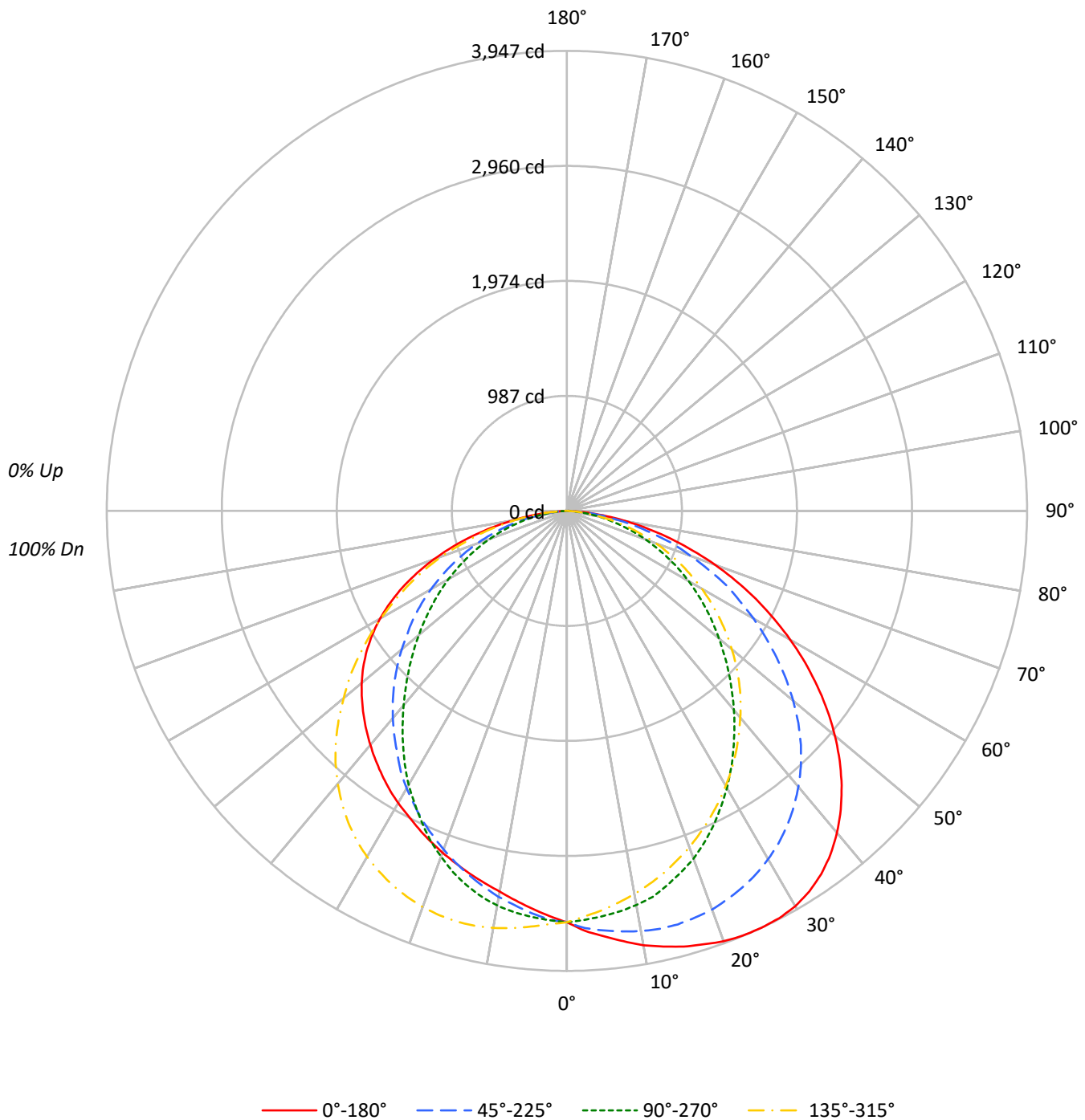
Lumens per Lamp: N/A
Luminaire Lumens: 10354.8 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
Input Voltage (V): 120
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: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4749	4749	4749	4749
5°	4949	4715	4626	4722
10°	5170	4690	4532	4697
15°	5391	4631	4487	4632
20°	5626	4547	4468	4521
25°	5859	4420	4467	4374
30°	6086	4266	4497	4218
35°	6248	4091	4542	4026
40°	6331	3914	4606	3826
45°	6343	3736	4695	3642
50°	6283	3566	4810	3471
55°	6153	3407	4917	3312
60°	5959	3241	4983	3157
65°	5693	3051	4956	2980
70°	5318	2827	4781	2776
75°	4785	2521	4387	2508
80°	4057	2111	3687	2143
85°	2822	1399	2339	1436

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	3.2
10°-20°	970.4	9.4
20°-30°	1487.1	14.4
30°-40°	1808.2	17.5
40°-50°	1879.8	18.2
50°-60°	1698.0	16.4
60°-70°	1290.9	12.5
70°-80°	719.7	7.0
80°-90°	165.7	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°-30°	2792.6	27.0
0°-40°	4600.8	44.4
0°-60°	8178.5	79.0
0°-90°	10354.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10354.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3529	3529	3529	3529	3529	
5°	3664	3491	3425	3496	3664	353
15°	3870	3324	3222	3325	3870	1097
25°	3947	2977	3009	2946	3947	1823
35°	3804	2490	2765	2451	3804	2376
45°	3334	1964	2467	1914	3334	2566
55°	2623	1452	2096	1412	2623	2342
65°	1788	958	1557	936	1788	1767
75°	920	485	844	482	920	978
85°	183	91	152	93	183	230
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4
2.5°	3607.6	3554.9	3555.8	3601.9	3566.5	3583.8	3534.4	3553.3	3547.5	3551.6	3511.3
5°	3664.4	3607.6	3606.8	3646.3	3606.8	3614.2	3551.6	3564.0	3545.9	3534.4	3490.7
7.5°	3724.5	3667.7	3662.0	3696.5	3644.7	3638.9	3569.8	3569.8	3536.8	3508.0	3466.8
10°	3783.8	3725.4	3717.9	3744.3	3680.1	3661.1	3577.2	3564.0	3520.4	3477.5	3433.1
12.5°	3828.3	3769.0	3763.2	3779.7	3707.2	3672.7	3577.2	3551.6	3487.4	3427.3	3392.8
15°	3870.3	3809.3	3793.7	3801.9	3718.8	3672.7	3565.6	3526.1	3443.8	3364.8	3324.4
17.5°	3899.9	3841.4	3825.8	3825.0	3724.5	3658.7	3540.9	3486.6	3387.8	3292.3	3252.0
20°	3929.5	3871.1	3851.3	3836.5	3722.9	3639.7	3504.7	3431.4	3316.2	3209.2	3175.4
22.5°	3944.4	3884.3	3862.8	3840.6	3712.2	3605.2	3460.3	3367.2	3235.5	3107.9	3079.9
25°	3946.8	3885.1	3862.0	3829.9	3690.8	3564.0	3402.6	3289.8	3142.5	3000.9	2977.0
27.5°	3940.2	3872.7	3849.7	3811.0	3658.7	3513.8	3334.3	3201.7	3043.7	2887.3	2861.7
30°	3917.2	3848.8	3826.6	3776.4	3613.4	3452.0	3259.4	3103.8	2934.2	2767.9	2745.6
32.5°	3871.1	3804.4	3786.3	3736.1	3564.0	3380.4	3172.1	2998.4	2813.2	2654.3	2621.3
35°	3803.6	3736.9	3725.4	3672.7	3494.8	3294.8	3076.6	2883.1	2684.7	2522.5	2490.4
37.5°	3715.5	3659.5	3642.2	3590.3	3413.3	3197.6	2967.1	2758.0	2553.8	2379.3	2359.5
40°	3604.3	3551.6	3538.5	3492.4	3318.7	3089.8	2848.6	2628.7	2418.8	2256.6	2228.6
42.5°	3477.5	3428.2	3420.7	3373.0	3201.7	2970.4	2720.1	2494.5	2278.0	2121.6	2093.6
45°	3333.5	3285.7	3284.1	3238.8	3074.1	2837.9	2585.1	2358.7	2140.5	1978.3	1963.5
47.5°	3174.6	3131.8	3131.8	3089.8	2931.7	2692.1	2446.0	2217.1	2002.2	1859.0	1832.6
50°	3001.7	2961.4	2949.0	2928.4	2774.5	2533.2	2299.4	2078.8	1865.6	1728.9	1703.4
52.5°	2817.3	2782.7	2790.9	2753.1	2604.0	2367.8	2151.2	1923.2	1728.1	1603.8	1578.2
55°	2623.0	2573.6	2581.0	2567.0	2426.2	2197.3	1984.9	1794.8	1593.1	1476.1	1452.3
57.5°	2421.3	2357.1	2383.4	2375.2	2236.9	2022.8	1832.6	1649.0	1458.9	1351.0	1328.0
60°	2214.6	2152.9	2180.1	2172.6	2042.6	1848.3	1675.4	1505.0	1325.5	1227.5	1204.5
62.5°	2002.2	1945.4	1970.1	1964.4	1845.0	1669.6	1519.0	1362.5	1191.3	1103.2	1081.8
65°	1788.2	1733.8	1756.1	1751.9	1641.6	1508.3	1358.4	1215.2	1056.3	979.7	958.3
67.5°	1569.2	1519.0	1539.5	1539.5	1438.3	1310.7	1197.1	1066.2	923.7	857.9	838.1
70°	1351.8	1304.9	1323.0	1321.4	1235.7	1132.0	1034.0	917.1	789.5	735.2	718.7
72.5°	1132.8	1091.7	1108.1	1106.5	1034.9	968.2	871.0	769.8	658.6	615.0	600.2
75°	920.4	881.7	897.4	895.7	837.3	774.7	709.7	625.7	530.2	499.7	484.9
77.5°	717.9	678.4	691.6	691.6	648.7	603.5	551.6	486.6	419.1	386.1	375.4
80°	523.6	504.7	498.1	498.9	470.1	440.5	414.1	351.5	302.1	279.9	272.5
82.5°	344.1	328.5	321.9	323.6	307.1	289.0	272.5	228.9	195.9	182.8	178.7
85°	182.8	171.2	165.5	169.6	166.3	156.4	148.2	118.6	98.0	93.0	90.6
87.5°	57.6	50.2	46.1	60.9	51.9	46.1	44.5	35.4	27.2	27.2	26.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4
2.5°	3524.5	3524.5	3492.4	3485.0	3481.7	3485.8	3453.7	3447.9	3494.0	3478.4	3443.0
5°	3496.5	3494.8	3449.6	3441.3	3441.3	3436.4	3400.2	3391.9	3438.0	3424.9	3386.2
7.5°	3461.9	3457.0	3403.5	3397.7	3389.5	3386.2	3345.8	3340.1	3379.6	3371.3	3335.1
10°	3419.9	3415.0	3351.6	3347.5	3338.4	3331.8	3294.0	3289.8	3330.2	3317.0	3288.2
12.5°	3364.8	3355.7	3290.7	3286.5	3279.1	3276.7	3239.6	3238.0	3282.4	3269.3	3238.8
15°	3292.3	3284.9	3212.5	3214.1	3214.9	3214.9	3185.3	3183.6	3227.3	3221.5	3188.6
17.5°	3212.5	3202.6	3133.4	3138.4	3144.1	3150.7	3127.7	3131.8	3177.9	3170.5	3140.8
20°	3121.9	3112.0	3044.5	3058.5	3070.8	3084.0	3069.2	3080.7	3123.5	3120.2	3098.0
22.5°	3020.6	3010.7	2948.2	2969.6	2990.2	3014.9	3008.3	3021.4	3066.7	3065.9	3046.1
25°	2897.1	2899.6	2844.4	2870.8	2905.4	2939.9	2942.4	2963.8	3014.0	3009.1	2991.0
27.5°	2781.9	2785.2	2726.7	2771.2	2817.3	2861.7	2872.4	2902.1	2953.1	2949.0	2933.4
30°	2660.9	2665.0	2608.2	2669.1	2725.1	2779.4	2802.5	2842.8	2894.7	2894.7	2878.2
32.5°	2534.9	2542.3	2483.0	2564.5	2629.6	2693.0	2733.3	2775.3	2834.6	2832.9	2818.9
35°	2405.6	2413.9	2359.5	2463.3	2528.3	2605.7	2655.9	2711.9	2764.6	2765.4	2754.7
37.5°	2273.9	2283.8	2234.4	2348.0	2422.1	2513.5	2577.7	2633.7	2692.1	2695.4	2685.6
40°	2143.0	2153.7	2110.9	2220.4	2314.2	2416.3	2490.4	2556.3	2620.5	2622.2	2615.6
42.5°	2012.1	2023.6	1991.5	2098.5	2204.8	2314.2	2401.5	2476.4	2542.3	2546.4	2539.0
45°	1884.5	1894.4	1871.3	1988.2	2090.3	2209.7	2310.1	2394.9	2461.6	2467.4	2464.9
47.5°	1757.7	1766.8	1746.2	1853.2	1970.9	2097.7	2213.8	2307.7	2378.5	2385.1	2383.4
50°	1633.4	1640.8	1618.6	1730.5	1847.4	1982.5	2103.5	2212.2	2291.2	2297.8	2297.0
52.5°	1509.9	1517.3	1498.4	1616.1	1722.3	1864.7	1996.5	2114.2	2192.4	2202.3	2203.9
55°	1390.5	1393.8	1379.0	1491.8	1594.7	1743.7	1895.2	2009.6	2087.8	2096.1	2101.0
57.5°	1271.1	1272.0	1259.6	1367.5	1466.3	1618.6	1777.5	1897.7	1971.8	1980.0	1987.4
60°	1152.6	1151.8	1137.8	1242.3	1337.0	1487.7	1653.2	1772.5	1844.2	1851.6	1861.4
62.5°	1034.9	1032.4	1020.0	1116.4	1205.3	1354.3	1520.6	1635.9	1704.2	1709.1	1722.3
65°	918.0	915.5	904.0	992.9	1073.6	1216.0	1379.0	1488.5	1550.2	1556.8	1554.4
67.5°	802.7	797.8	788.7	868.6	941.8	1073.6	1230.0	1334.5	1385.6	1391.3	1407.0
70°	687.4	681.7	661.1	745.9	810.1	927.8	1073.6	1166.6	1209.4	1215.2	1212.7
72.5°	573.8	568.1	545.8	624.0	678.4	781.3	911.4	988.8	1025.8	1030.8	1030.8
75°	463.5	460.2	446.2	505.5	550.8	634.8	745.1	809.3	838.1	843.9	842.2
77.5°	357.3	354.8	340.8	391.9	427.3	489.9	578.8	629.0	650.4	657.0	671.0
80°	256.0	255.2	233.0	283.2	298.9	351.5	416.6	455.3	466.8	475.9	485.7
82.5°	163.8	164.7	142.4	185.2	191.8	225.6	265.9	289.8	298.0	305.4	312.8
85°	79.9	83.2	70.8	98.0	98.8	116.1	133.4	142.4	145.7	151.5	158.1
87.5°	20.6	23.9	13.2	28.0	24.7	32.1	37.0	39.5	38.7	42.8	45.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4
2.5°	3454.5	3480.8	3467.7	3510.5	3526.9	3500.6	3546.7	3547.5	3514.6	3553.3	3574.7
5°	3401.0	3428.2	3419.9	3464.4	3485.0	3461.9	3517.9	3528.6	3496.5	3540.1	3574.7
7.5°	3346.6	3378.8	3368.1	3413.3	3438.0	3419.9	3480.0	3497.3	3472.6	3520.4	3566.5
10°	3299.7	3326.9	3315.4	3363.1	3384.5	3369.7	3429.0	3461.1	3438.0	3496.5	3551.6
12.5°	3253.6	3275.8	3262.7	3302.2	3322.8	3303.8	3376.3	3405.9	3389.5	3450.4	3521.2
15°	3194.3	3219.0	3200.9	3236.3	3252.0	3235.5	3294.8	3345.8	3325.2	3391.9	3470.1
17.5°	3149.1	3163.1	3138.4	3166.3	3175.4	3153.2	3213.3	3263.5	3248.7	3321.1	3411.7
20°	3098.8	3110.4	3075.8	3091.4	3090.6	3062.6	3117.8	3167.2	3157.3	3237.2	3340.1
22.5°	3042.9	3048.6	3008.3	3011.6	3009.9	2963.8	3013.2	3063.4	3059.3	3140.0	3255.3
25°	2983.6	2984.4	2932.5	2930.9	2912.8	2858.4	2902.1	2958.9	2946.5	3033.8	3154.8
27.5°	2925.1	2916.9	2854.3	2839.5	2810.7	2745.6	2784.3	2835.4	2828.0	2913.6	3047.8
30°	2862.6	2851.9	2775.3	2748.1	2706.1	2631.2	2663.3	2711.1	2715.2	2790.1	2930.9
32.5°	2803.3	2776.1	2691.3	2651.8	2599.1	2511.8	2529.1	2577.7	2584.3	2660.0	2804.9
35°	2726.7	2708.6	2604.0	2536.5	2484.7	2389.2	2407.3	2441.0	2450.9	2525.0	2672.4
37.5°	2654.3	2625.5	2514.3	2432.0	2365.3	2264.9	2269.8	2304.4	2314.2	2389.2	2534.9
40°	2579.3	2538.2	2418.8	2322.5	2245.9	2140.5	2134.8	2171.0	2178.4	2251.7	2383.4
42.5°	2499.5	2450.1	2315.9	2210.5	2122.4	2015.4	2003.9	2035.2	2043.4	2115.0	2244.3
45°	2418.8	2359.5	2210.5	2095.3	1998.9	1889.4	1877.9	1901.8	1914.1	1981.6	2106.0
47.5°	2333.2	2264.0	2101.8	1973.4	1873.8	1764.3	1750.3	1774.2	1784.1	1850.7	1968.5
50°	2243.4	2159.5	1989.9	1848.3	1749.5	1641.6	1621.0	1649.0	1658.1	1720.7	1835.9
52.5°	2144.7	2051.6	1870.5	1722.3	1623.5	1520.6	1495.9	1523.1	1533.8	1594.7	1700.9
55°	2040.1	1939.7	1750.3	1606.2	1499.2	1398.8	1378.2	1388.9	1411.9	1469.6	1568.4
57.5°	1922.4	1822.7	1623.5	1477.0	1374.1	1277.7	1260.4	1270.3	1291.7	1347.7	1436.6
60°	1797.2	1691.8	1494.3	1347.7	1248.1	1156.7	1141.1	1150.1	1173.2	1224.2	1306.6
62.5°	1673.7	1555.2	1360.9	1215.2	1124.6	1039.8	1035.7	1032.4	1053.8	1103.2	1175.6
65°	1523.9	1410.3	1221.8	1083.4	1001.1	924.5	908.1	915.5	936.1	981.4	1057.1
67.5°	1363.4	1260.4	1079.3	951.7	878.4	810.1	796.1	799.4	820.8	860.3	926.2
70°	1192.9	1102.4	933.6	819.2	757.4	693.2	684.1	685.0	705.6	740.1	797.8
72.5°	1014.3	932.8	786.2	688.3	637.2	591.1	582.9	573.0	591.9	621.6	671.0
75°	832.3	760.7	639.7	559.8	519.5	480.8	473.4	463.5	482.4	508.0	546.7
77.5°	648.7	591.1	497.3	435.5	404.2	375.4	368.8	358.1	377.1	396.0	426.5
80°	469.3	427.3	371.3	306.3	295.6	276.6	270.0	258.5	276.6	289.0	312.0
82.5°	303.0	275.0	242.9	197.6	195.9	181.9	178.7	165.5	181.9	189.4	206.6
85°	153.1	140.0	131.7	100.4	103.7	94.7	93.9	79.9	93.0	96.3	106.2
87.5°	43.6	46.1	41.2	24.7	31.3	29.6	29.6	21.4	29.6	29.6	33.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P838047

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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4	3529.4
2.5°	3532.7	3546.7	3550.0	3549.2	3558.2	3607.6	3591.2	3607.6
5°	3540.9	3572.2	3580.5	3592.0	3606.8	3662.8	3644.7	3664.4
7.5°	3545.9	3592.8	3610.9	3633.1	3657.0	3719.6	3704.8	3724.5
10°	3545.9	3606.8	3633.1	3670.2	3702.3	3774.8	3760.8	3783.8
12.5°	3531.1	3609.3	3646.3	3698.2	3739.4	3817.6	3811.8	3828.3
15°	3500.6	3596.9	3648.0	3714.7	3765.7	3853.0	3850.5	3870.3
17.5°	3459.4	3575.5	3637.3	3721.2	3785.5	3883.4	3889.2	3899.9
20°	3407.6	3535.2	3615.9	3718.8	3799.5	3907.3	3914.7	3929.5
22.5°	3339.2	3486.6	3583.8	3708.1	3801.1	3917.2	3930.4	3944.4
25°	3258.6	3428.2	3541.8	3687.5	3792.9	3916.4	3934.5	3946.8
27.5°	3166.3	3352.4	3488.3	3654.6	3769.8	3903.2	3925.4	3940.2
30°	3059.3	3271.7	3427.3	3611.7	3738.5	3878.5	3902.4	3917.2
32.5°	2949.0	3182.8	3354.9	3556.6	3693.2	3839.0	3859.6	3871.1
35°	2828.8	3075.0	3267.6	3485.8	3634.8	3775.6	3791.2	3803.6
37.5°	2697.9	2958.1	3168.0	3405.9	3552.5	3687.5	3701.5	3715.5
40°	2562.9	2835.4	3056.0	3308.0	3454.5	3579.6	3594.5	3604.3
42.5°	2427.0	2699.5	2936.7	3192.7	3338.4	3458.6	3467.7	3477.5
45°	2289.6	2558.8	2802.5	3065.1	3209.2	3321.9	3325.2	3333.5
47.5°	2149.6	2413.0	2655.1	2919.4	3061.8	3164.7	3168.0	3174.6
50°	2008.8	2267.3	2497.8	2762.1	2901.3	3009.9	2995.1	3001.7
52.5°	1870.5	2114.2	2349.7	2592.5	2730.0	2826.3	2830.4	2817.3
55°	1734.7	1964.4	2180.9	2414.7	2545.6	2620.5	2618.0	2623.0
57.5°	1597.2	1812.9	2011.3	2225.3	2352.9	2423.7	2438.6	2421.3
60°	1457.2	1659.7	1837.6	2031.0	2154.5	2213.8	2231.1	2214.6
62.5°	1318.1	1504.1	1665.5	1834.3	1948.7	2022.0	2020.3	2002.2
65°	1178.9	1347.7	1491.8	1635.0	1734.7	1807.9	1804.6	1788.2
67.5°	1050.5	1189.6	1318.9	1435.0	1521.4	1571.6	1588.9	1569.2
70°	908.9	1029.1	1142.7	1235.7	1307.4	1352.7	1369.1	1351.8
72.5°	767.3	869.4	949.2	1039.0	1094.1	1132.0	1149.3	1132.8
75°	627.3	711.3	776.4	846.3	885.0	917.1	936.9	920.4
77.5°	491.5	556.5	608.4	659.4	703.9	711.3	728.6	717.9
80°	362.2	409.2	447.0	480.8	512.9	516.2	530.2	523.6
82.5°	241.2	272.5	282.4	317.8	338.4	335.1	349.1	344.1
85°	127.6	146.5	163.8	174.5	186.1	175.4	187.7	182.8
87.5°	42.8	45.3	39.5	56.0	61.7	52.7	60.1	57.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)