

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: LUMARK

Report Number: P303573

Luminaire Tested: **WPLLED25**

Issue Date: 6/24/2020

Test Information

Test Method: LM-79-08
Report Number: P303573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1906-360-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 6/24/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPLLED25
Description: LARGE LED WALL PACK - 80W, 4000K
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10197.9 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.38' x L: 0.25' x H: 0.68')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U3 - G4

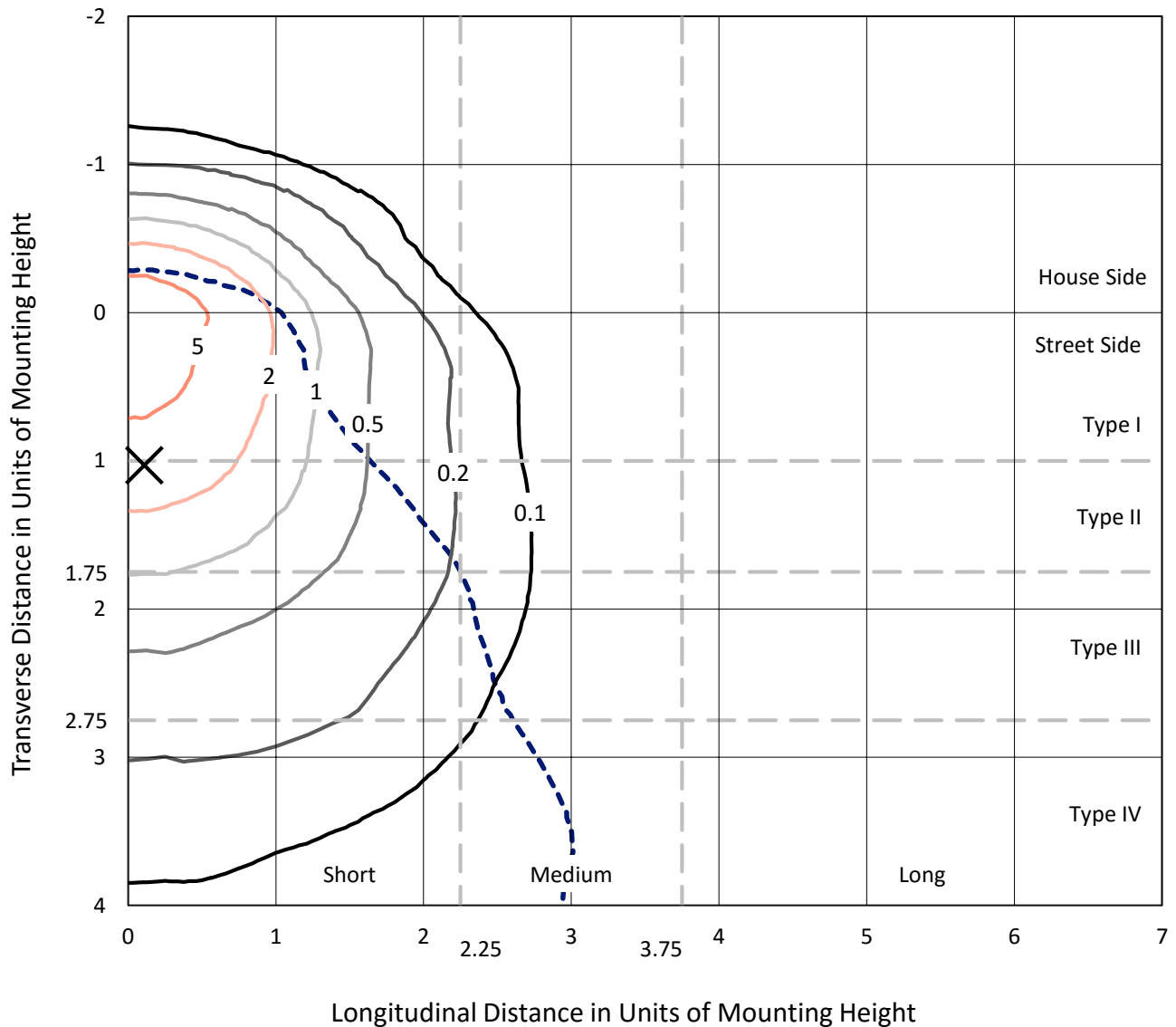
Input Watts (W): 80.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

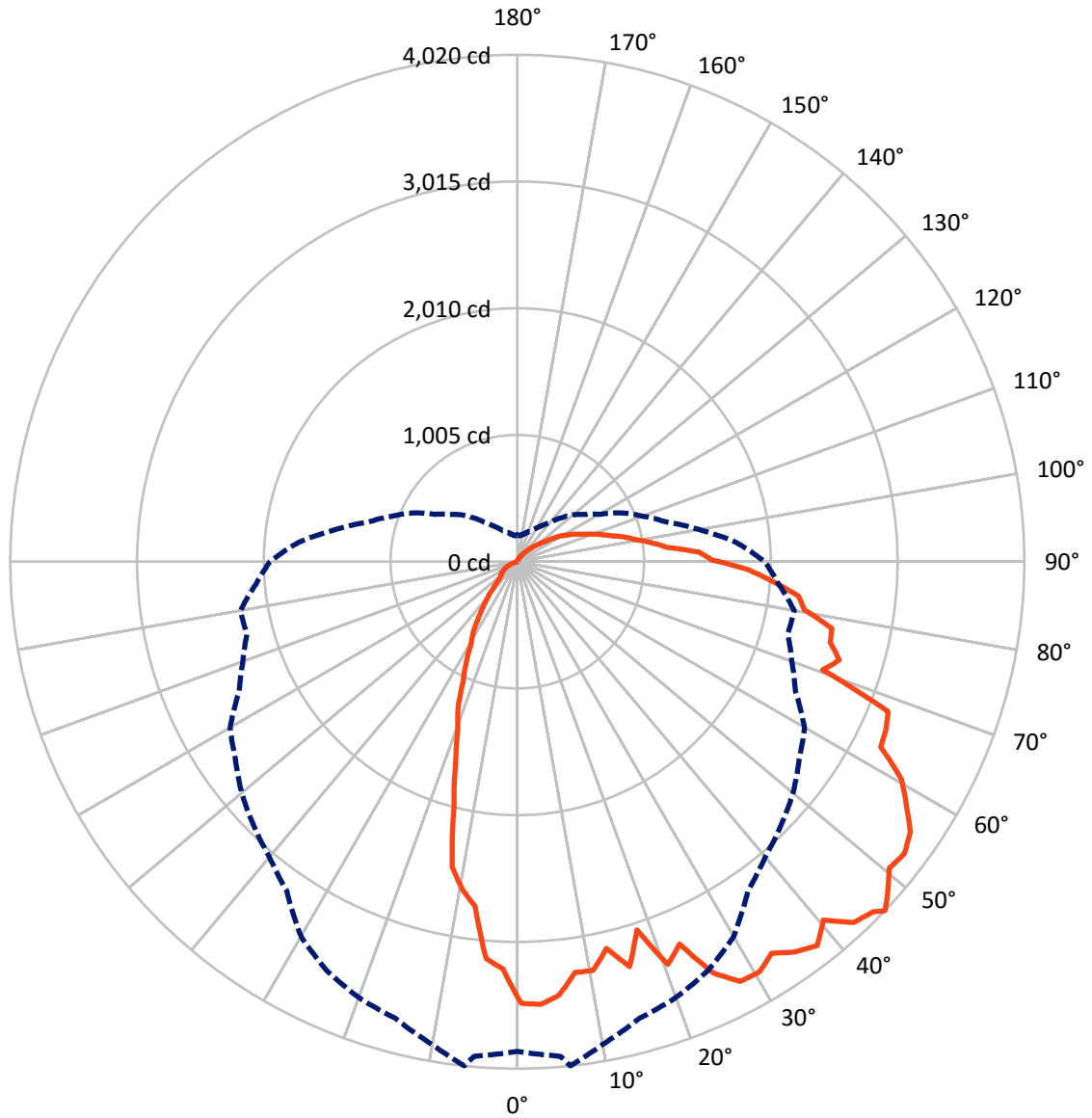
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 6-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical



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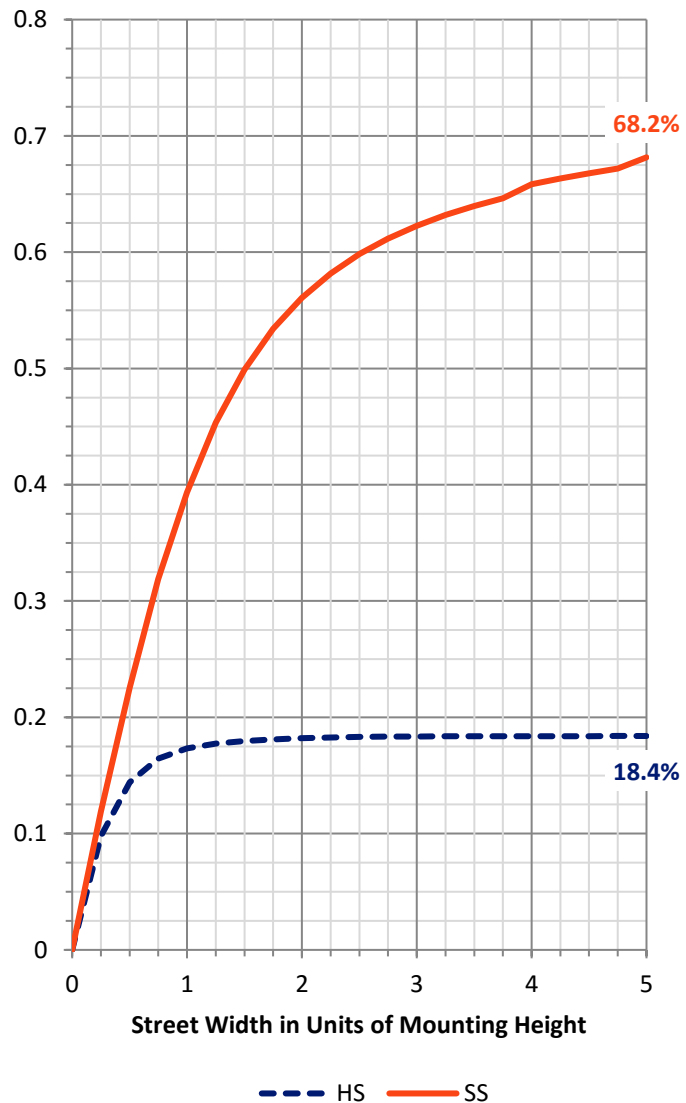
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1894.7	12.7	1907.4
	% Fixture	18.6	0.1	18.7
Street Side	Lumens	7423.6	866.9	8290.5
	% Fixture	72.8	8.5	81.3
Total	Lumens	9318.3	879.6	10197.9
	% Fixture	91.4	8.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	3.1
10°-20°	812.6	8.0
20°-30°	1136.8	11.1
30°-40°	1354.5	13.3
40°-50°	1439.1	14.1
50°-60°	1399.8	13.7
60°-70°	1230.5	12.1
70°-80°	955.8	9.4
80°-90°	677.5	6.6
90°-100°	397.2	3.9
100°-110°	229.9	2.3
110°-120°	134.9	1.3
120°-130°	70.0	0.7
130°-140°	31.1	0.3
140°-150°	11.8	0.1
150°-160°	3.8	0.0
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-90°	9318.3	91.4
0°-180°	10197.9	100.0

Coefficient of Utilization



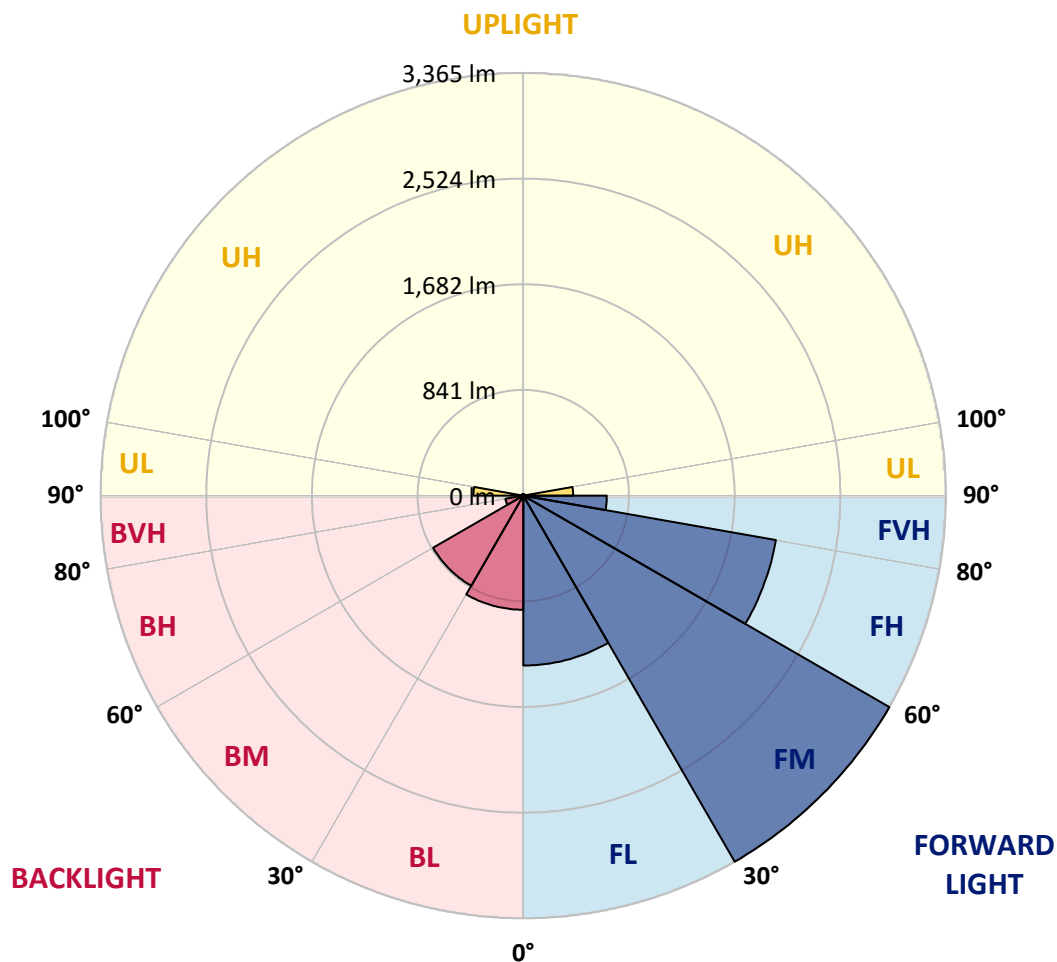
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1352.5	13.3			
FM	(30°-60°)	3364.8	33.0			
FH	(60°-80°)	2041.7	20.0			G2/5000
FVH	(80°-90°)	664.6	6.5			G4/750
BL	(0°-30°)	908.4	8.9	B2/1000		
BM	(30°-60°)	828.7	8.1	B1/1000		
BH	(60°-80°)	144.6	1.4	B1/500		G1/500
BVH	(80°-90°)	12.9	0.1			G1/100
UL	(90°-100°)	397.2	3.9		U3/500	
UH	(100°-180°)	12.7	0.1		U2/50	

BUG Rating: B2-U3-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
0°	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2
2.5°	3608.2	3561.0	3514.5	3485.4	3407.2	3331.6	3398.8	3380.7	3412.4	3389.1	3507.4
5°	3574.6	3513.9	3453.1	3431.8	3427.2	3470.5	3592.1	3559.7	3575.3	3557.8	3691.0
7.5°	3420.1	3341.9	3289.6	3299.2	3327.7	3236.5	3279.9	3327.7	3315.4	3228.1	3434.3
10°	3396.9	3332.2	3296.0	3363.9	3290.2	3263.7	3375.5	3252.1	3302.5	3241.1	3308.3
12.5°	3215.9	3158.3	3146.1	3179.7	3086.6	3123.4	3146.7	3199.1	3198.4	3334.2	3342.6
15°	3349.7	3297.3	3331.6	3308.3	3294.1	3215.9	3230.1	3078.2	3068.5	3114.4	3227.5
17.5°	3101.4	3066.5	3068.5	2988.3	2944.4	2943.7	3051.7	3164.8	3296.7	3097.6	3096.3
20°	3377.5	3392.3	3408.5	3372.3	3294.1	3182.2	3143.5	2983.2	2943.7	3078.8	3318.6
22.5°	3301.8	3307.7	3294.1	3233.3	3116.3	3104.0	3228.8	3301.8	3144.1	2901.1	3014.8
25°	3578.5	3586.9	3614.0	3581.7	3479.6	3382.0	3274.0	3110.5	3109.9	3217.8	3021.3
27.5°	3756.9	3720.7	3767.9	3630.9	3472.5	3384.6	3446.6	3426.6	3172.6	3011.6	3190.0
30°	3717.5	3726.5	3778.2	3729.8	3675.5	3631.5	3583.0	3396.2	3318.0	3230.7	3012.9
32.5°	3630.2	3645.7	3701.3	3623.7	3563.0	3510.6	3552.6	3528.7	3376.8	3224.3	3204.2
35°	3727.8	3739.5	3800.2	3699.4	3582.4	3493.2	3495.8	3444.0	3320.6	3287.6	3169.3
37.5°	3734.9	3764.7	3861.6	3775.0	3683.9	3605.0	3530.7	3406.6	3281.8	3201.6	3194.5
40°	3616.0	3650.2	3736.9	3623.1	3514.5	3502.2	3526.1	3438.2	3239.1	3166.7	3095.6
42.5°	3795.7	3824.8	3910.7	3741.4	3566.2	3482.2	3467.3	3393.6	3206.8	3111.8	3028.4
45°	3844.8	3888.8	3959.9	3815.7	3697.4	3619.9	3550.1	3374.2	3184.8	3076.9	2980.6
46°	3882.3	3936.0	4020.0	3887.5	3747.2	3678.0	3576.6	3431.1	3187.4	3058.1	2956.7
47.5°	3811.2	3868.7	3949.5	3850.0	3762.7	3706.5	3660.6	3488.6	3241.7	3053.6	2908.8
50°	3694.8	3736.9	3821.5	3733.0	3633.4	3616.6	3632.8	3555.2	3299.2	3114.4	2873.9
52.5°	3712.9	3753.0	3844.2	3777.6	3679.3	3641.2	3568.8	3444.7	3252.7	3135.7	2897.2
55°	3711.7	3712.9	3781.5	3632.8	3409.8	3410.4	3473.8	3442.8	3245.0	3100.2	2853.2
57.5°	3497.7	3523.6	3637.3	3605.6	3477.0	3451.2	3451.8	3372.9	3183.5	3047.8	2811.9
60°	3404.6	3391.7	3499.0	3456.3	3325.8	3340.0	3323.8	3186.8	3034.2	2995.4	2773.1
62.5°	3139.6	3125.4	3234.0	3221.7	3171.9	3187.4	3203.6	3217.2	3036.8	2866.8	2648.3
65°	3128.0	3105.3	3212.6	3142.8	3019.4	2990.9	2992.2	2939.8	2851.9	2823.5	2575.9
67.5°	3073.0	3074.3	3170.0	3143.5	3025.8	2972.8	2920.5	2846.8	2710.4	2634.1	2457.6
70°	2500.9	2476.4	2568.8	2597.9	2669.0	2789.2	2732.4	2633.5	2565.6	2504.2	2325.1
72.5°	2616.0	2585.0	2669.7	2685.2	2733.6	2740.8	2755.6	2819.6	2518.4	2284.4	2078.8
75°	2511.3	2500.3	2563.0	2503.5	2392.3	2380.7	2367.8	2354.9	2253.4	2147.4	1894.6
77.5°	2511.9	2491.9	2549.4	2472.5	2351.0	2308.3	2239.1	2133.8	2022.0	2005.1	1852.6
80°	2253.4	2267.6	2307.7	2307.0	2313.5	2375.5	2284.4	2117.0	1936.6	1816.4	1671.0
82.5°	2232.0	2215.9	2246.3	2208.1	2137.0	2098.9	1997.4	1979.9	1890.7	1718.8	1481.6
85°	2023.2	2014.8	2037.5	2029.1	1993.5	2035.5	1963.8	1815.8	1672.9	1547.5	1356.8
87.5°	1817.0	1813.8	1832.6	1787.3	1734.9	1704.6	1631.5	1592.7	1519.1	1400.1	1212.7
90°	1540.4	1533.3	1543.0	1515.2	1479.6	1467.3	1447.9	1426.6	1305.7	1184.9	1035.5
92.5°	1444.7	1473.2	1441.5	1439.5	1407.9	1379.4	1301.2	1179.7	1078.8	994.2	897.9
95°	1188.7	1188.7	1190.7	1177.1	1150.6	1129.9	1094.4	1034.2	956.7	899.8	795.7
97.5°	1082.7	1083.4	1076.9	1066.6	1035.5	1010.3	976.1	926.9	864.9	793.1	679.4
100°	959.3	962.5	958.0	963.1	943.1	935.3	899.8	835.2	756.9	676.8	575.9
102.5°	877.8	874.6	868.8	861.0	835.8	808.0	771.8	724.0	666.4	592.1	494.5
105°	778.3	782.1	769.2	769.2	751.8	731.7	700.7	649.6	586.3	510.7	433.1
107.5°	709.1	707.8	695.5	692.3	678.1	650.3	622.5	570.1	513.2	451.2	376.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
110°	636.1	639.3	626.4	625.1	607.0	581.8	552.0	502.9	449.3	391.7	329.7
112.5°	568.8	570.8	557.2	556.6	541.0	517.1	494.5	449.3	402.7	349.7	296.7
115°	519.7	522.3	507.4	507.4	492.6	466.1	441.5	393.7	349.7	302.5	256.6
117.5°	464.8	462.2	450.5	451.2	435.7	408.5	389.1	347.1	305.7	264.4	224.9
120°	418.2	419.5	405.9	404.6	387.2	363.3	340.0	305.1	270.8	235.3	199.1
122.5°	356.8	356.8	343.9	343.9	328.4	305.7	286.4	251.5	225.6	197.8	169.4
125°	293.5	294.8	281.8	282.5	268.9	250.2	239.2	214.6	193.9	170.7	148.0
127.5°	250.2	252.7	242.4	244.3	234.0	217.8	208.8	185.5	168.7	145.4	126.0
130°	212.7	213.3	206.2	206.2	197.8	185.5	177.8	159.7	144.1	126.0	106.7
132.5°	182.9	182.9	175.2	175.8	167.4	155.8	150.0	133.8	120.9	105.4	91.8
135°	152.6	152.6	146.7	146.7	139.0	128.6	124.1	111.2	100.2	89.2	76.3
137.5°	124.1	124.8	118.9	119.6	114.4	106.7	103.4	92.4	84.0	73.0	62.7
140°	102.8	101.5	98.3	98.3	93.7	87.3	86.0	76.9	69.8	60.1	52.4
142.5°	84.0	84.0	80.8	82.1	77.6	71.8	70.5	63.3	56.9	50.4	43.3
145°	68.5	68.5	66.6	66.6	63.3	58.2	57.5	51.7	47.2	40.7	36.2
147.5°	56.2	56.2	54.3	54.9	51.7	48.5	47.2	42.0	38.1	33.6	29.7
150°	47.2	45.9	44.6	44.6	42.0	38.8	38.8	34.3	31.7	27.8	23.9
152.5°	38.1	37.5	36.8	36.8	34.3	32.3	31.0	28.4	25.9	22.0	18.7
155°	30.4	30.4	29.7	29.1	27.8	25.2	24.6	22.0	19.4	16.8	13.6
157.5°	23.9	23.9	23.3	23.3	21.3	19.4	19.4	16.8	14.2	11.6	9.7
160°	18.7	18.1	17.5	17.5	16.2	14.2	13.6	11.6	9.7	7.8	5.8
162.5°	13.6	12.9	12.9	12.3	11.0	9.7	9.0	7.1	5.8	4.5	3.9
165°	7.8	7.8	7.8	7.1	6.5	5.2	5.2	3.9	2.6	2.6	3.2
167.5°	3.2	3.2	3.2	2.6	1.9	1.9	2.6	2.6	2.6	2.6	3.2
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2
2.5°	3422.1	3420.1	3359.4	3325.8	3336.7	3354.8	3363.9	3386.5	3439.5	3503.5	3506.1
5°	3596.6	3566.9	3464.7	3381.3	3324.5	3279.9	3283.7	3321.2	3415.6	3515.8	3447.9
7.5°	3528.1	3663.8	3599.8	3445.3	3390.4	3338.7	3305.1	3321.9	3455.7	3538.4	3340.6
10°	3334.8	3345.8	3408.5	3532.6	3508.0	3435.0	3345.1	3296.7	3474.4	3495.1	3276.6
12.5°	3279.9	3281.8	3214.6	3330.3	3611.5	3446.0	3321.2	3204.2	3427.9	3332.2	3113.1
15°	3334.2	3285.0	3174.5	3193.9	3379.4	3501.6	3299.9	3158.3	3400.7	3229.4	2975.4
17.5°	3117.6	3246.2	3224.3	3141.5	3182.9	3473.1	3274.7	3117.6	3369.7	3110.5	2920.5
20°	3025.2	3041.3	3169.3	3132.5	3073.0	3297.3	3282.4	3053.0	3291.5	2968.3	2908.8
22.5°	3210.0	3003.2	2945.0	3175.8	3000.6	3123.4	3286.3	2968.3	3182.2	2858.4	2875.9
25°	2898.5	3124.1	2855.2	2930.2	3056.8	2987.7	3239.1	2894.0	3070.4	2775.0	2701.3
27.5°	2966.4	2836.4	3005.8	2736.2	3054.3	2858.4	3151.9	2819.6	2941.1	2720.1	2525.5
30°	3087.9	2820.9	2877.1	2758.2	2873.3	2816.4	3038.1	2734.3	2782.1	2632.8	2383.3
32.5°	2937.9	2983.2	2700.7	2814.4	2674.2	2791.8	2907.5	2655.4	2656.1	2513.2	2277.3
35°	3085.3	2865.5	2800.9	2728.5	2605.7	2720.7	2828.7	2606.9	2554.6	2416.9	2198.4
37.5°	3064.0	2906.2	2863.6	2614.1	2615.4	2657.4	2726.5	2535.8	2475.7	2299.3	2076.3
40°	3073.0	2914.6	2767.3	2604.4	2559.1	2539.1	2615.4	2432.4	2355.5	2174.5	1923.1
42.5°	2991.6	2895.2	2727.8	2579.2	2476.4	2421.4	2473.1	2305.7	2215.2	2013.6	1738.8
45°	2889.4	2794.4	2664.5	2473.1	2362.6	2272.1	2299.9	2151.2	2038.1	1819.6	1544.9
46°	2853.9	2729.1	2629.6	2433.1	2316.1	2219.8	2228.8	2082.7	1961.2	1744.0	1464.8
47.5°	2780.8	2645.1	2550.7	2359.4	2237.2	2148.0	2150.6	1983.8	1866.2	1625.7	1363.3
50°	2733.0	2537.8	2399.5	2252.7	2097.6	2003.2	1990.9	1814.5	1680.0	1437.0	1184.9
52.5°	2679.3	2447.3	2309.6	2133.8	1954.7	1854.5	1838.4	1676.1	1535.2	1289.6	1028.4
55°	2624.4	2398.8	2167.4	2001.3	1835.8	1731.1	1698.1	1539.7	1394.9	1129.9	879.8
57.5°	2587.6	2304.4	2074.3	1892.7	1720.7	1605.0	1586.9	1433.7	1263.1	1000.6	747.2
60°	2532.0	2235.3	1978.6	1769.9	1602.4	1468.6	1437.0	1279.2	1089.8	800.9	612.8
62.5°	2423.4	2153.2	1894.0	1642.5	1468.0	1352.3	1309.6	1141.6	916.6	662.6	505.5
65°	2343.2	2088.5	1798.3	1519.7	1333.5	1232.7	1197.8	1027.8	773.7	530.7	429.2
67.5°	2226.2	1954.1	1734.3	1429.8	1210.7	1111.8	1064.6	885.6	633.5	427.9	372.3
70°	2149.9	1857.1	1579.2	1334.8	1092.4	980.6	908.2	720.7	487.4	358.1	323.8
72.5°	1896.6	1691.0	1441.5	1201.7	981.2	841.6	754.4	565.0	367.8	294.1	279.9
75°	1766.6	1559.1	1320.6	1097.6	885.6	716.9	608.9	423.4	285.7	243.0	236.6
77.5°	1636.0	1418.2	1201.7	989.0	769.9	604.4	476.4	317.4	219.8	199.1	188.8
80°	1529.4	1294.1	1059.5	864.2	674.8	493.9	370.4	234.0	167.4	157.7	146.7
82.5°	1322.5	1140.3	934.7	737.5	563.0	405.3	283.1	175.8	128.6	120.9	109.9
85°	1183.6	987.1	788.0	625.7	460.2	323.8	217.2	131.2	95.7	89.9	78.9
87.5°	1033.6	857.8	676.8	513.2	384.0	259.2	168.1	99.5	70.5	65.9	58.2
90°	897.2	741.4	587.6	432.4	312.2	216.5	131.2	74.3	54.3	49.8	45.9
92.5°	791.2	649.0	506.8	367.2	268.3	177.8	106.7	58.8	44.6	40.1	36.8
95°	682.0	575.9	442.8	319.3	227.5	148.0	87.3	48.5	38.1	34.3	31.7
97.5°	580.5	486.1	378.8	269.6	189.4	120.9	73.0	42.7	34.9	32.3	27.8
100°	488.7	400.1	310.3	225.6	155.8	100.8	62.1	39.4	34.3	31.0	25.9
102.5°	409.2	335.5	254.7	180.3	128.6	84.7	54.3	36.8	34.3	29.7	23.3
105°	359.4	286.4	215.9	149.3	107.3	72.4	48.5	35.6	34.3	29.1	21.3
107.5°	311.6	251.5	186.2	129.3	93.7	64.0	44.6	34.3	33.0	27.8	19.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	272.8	217.8	163.5	115.7	84.7	57.5	41.4	33.6	32.3	26.5	18.1
112.5°	243.0	190.0	143.5	104.1	76.3	51.1	38.8	32.3	30.4	24.6	16.2
115°	211.4	167.4	126.7	93.1	68.5	44.6	36.2	30.4	28.4	22.6	14.9
117.5°	186.8	148.0	113.8	82.7	58.8	39.4	33.0	28.4	25.9	20.7	13.6
120°	162.9	126.7	98.3	71.1	48.5	34.9	29.1	25.2	22.6	18.1	11.6
122.5°	140.3	111.2	87.3	62.1	41.4	31.0	25.2	22.6	20.7	16.2	10.3
125°	124.1	98.3	76.9	51.7	36.2	27.1	22.0	20.0	18.1	14.2	9.0
127.5°	104.7	84.0	64.0	44.0	30.4	23.3	18.7	17.5	15.5	12.3	7.8
130°	89.2	70.5	53.0	36.8	27.1	20.0	16.2	14.2	12.9	10.3	6.5
132.5°	76.9	60.1	45.2	31.7	23.3	16.2	12.9	11.6	10.3	8.4	5.2
135°	63.3	51.1	38.8	27.1	19.4	12.9	10.3	9.7	8.4	6.5	4.5
137.5°	53.0	42.0	32.3	23.3	16.2	10.3	8.4	7.8	6.5	5.2	3.9
140°	44.0	34.3	27.1	18.7	12.3	7.1	7.1	5.8	5.2	4.5	3.2
142.5°	36.8	28.4	22.6	15.5	9.7	5.8	5.8	4.5	4.5	3.9	3.2
145°	30.4	23.9	18.7	11.6	6.5	4.5	5.2	4.5	3.9	3.9	3.2
147.5°	24.6	18.7	14.2	8.4	4.5	4.5	4.5	3.9	3.9	3.2	2.6
150°	19.4	14.2	10.3	5.8	3.9	3.9	3.9	3.2	3.2	3.2	2.6
152.5°	14.9	10.3	6.5	3.9	3.9	3.9	3.9	3.2	3.2	2.6	1.9
155°	10.3	7.1	4.5	3.2	3.2	3.2	3.2	3.2	2.6	2.6	1.9
157.5°	7.1	4.5	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6	1.9
160°	4.5	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6	1.9
162.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6	1.9
165°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6
167.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	1.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2
2.5°	3625.0	3529.4	3488.6	3429.8	3533.2	3391.7	3373.6	3369.7	3336.7	3307.7	3242.4
5°	3451.2	3311.5	3265.0	3181.0	3255.9	3092.4	3046.5	3038.1	3070.4	3144.8	3193.9
7.5°	3332.2	3149.9	3027.1	2998.7	3212.6	3164.2	3044.6	2978.6	2950.2	2901.1	2784.7
10°	3205.5	3024.5	3068.5	3050.4	3048.4	2832.5	2709.1	2813.8	2899.1	2887.5	2836.4
12.5°	3073.0	3133.1	2987.0	2748.5	2778.2	2852.6	2777.0	2722.0	2524.2	2451.2	2363.9
15°	3064.6	2987.0	2729.8	2703.3	2835.1	2612.1	2394.9	2407.2	2453.8	2433.1	2271.5
17.5°	3044.6	2729.1	2698.7	2648.3	2491.2	2351.0	2386.5	2218.5	2078.2	2015.5	1941.2
20°	2809.3	2637.3	2616.6	2353.6	2383.9	2237.9	2038.8	1963.1	1839.7	1664.5	1585.6
22.5°	2620.5	2614.7	2356.1	2241.7	2166.7	1962.5	1821.6	1601.8	1550.7	1468.6	1371.7
25°	2539.1	2398.8	2210.1	2059.4	1923.7	1707.8	1487.4	1475.7	1334.8	1234.6	1243.7
27.5°	2457.6	2214.6	2078.2	1824.8	1689.7	1427.9	1398.8	1230.1	1220.4	1119.6	1006.5
30°	2261.1	2075.6	1854.5	1634.8	1424.0	1360.7	1169.3	1166.1	1006.5	977.4	877.2
32.5°	2057.5	1935.3	1650.3	1402.7	1359.4	1151.9	1100.2	955.4	890.7	818.3	750.5
35°	1918.5	1734.3	1484.1	1266.3	1178.4	1073.7	926.9	839.7	768.6	700.1	669.0
37.5°	1806.1	1575.3	1314.8	1190.0	1048.5	918.5	811.2	731.7	655.5	621.8	559.8
40°	1650.3	1431.8	1212.7	1064.6	953.4	815.1	710.4	630.2	571.4	522.9	458.9
42.5°	1480.3	1267.6	1086.6	932.8	804.8	691.0	610.2	539.1	477.0	415.0	374.9
45°	1287.6	1117.0	980.6	818.3	696.2	610.9	533.3	449.9	376.2	342.6	296.1
46°	1219.1	1055.6	914.7	751.1	653.5	577.9	492.6	410.5	351.0	309.6	270.8
47.5°	1111.8	958.6	841.0	669.0	606.3	531.3	440.2	360.0	307.0	268.3	237.2
50°	960.6	835.2	700.1	592.1	524.2	451.8	358.8	294.1	248.2	223.0	199.7
52.5°	817.7	709.8	598.6	505.5	446.0	359.4	293.5	240.5	208.1	189.4	174.5
55°	695.5	603.1	512.6	438.9	361.3	296.1	242.4	200.4	178.4	164.8	153.8
57.5°	595.3	522.3	449.3	377.5	296.1	244.3	199.7	170.0	151.9	142.9	135.1
60°	500.3	457.0	391.1	303.8	240.5	200.4	162.9	143.5	131.2	122.2	118.3
62.5°	422.1	397.5	329.7	248.2	196.5	162.9	131.9	118.9	109.9	102.8	101.5
65°	366.5	341.9	269.6	202.3	159.7	129.3	106.7	97.0	89.9	86.0	83.4
67.5°	322.6	286.4	220.4	164.2	126.7	99.5	84.0	75.0	69.2	67.2	64.6
70°	281.8	237.9	181.6	130.6	98.3	76.9	64.6	56.2	51.7	47.2	46.5
72.5°	238.5	193.3	144.8	105.4	76.3	59.5	45.9	38.1	33.6	29.7	28.4
75°	193.9	153.2	111.8	80.8	56.2	42.0	28.4	20.0	13.6	3.2	0.6
77.5°	151.9	119.6	84.0	58.8	37.5	23.9	11.0	1.3	0.0	0.0	0.0
80°	114.4	88.6	62.7	40.7	22.6	10.3	2.6	0.0	0.0	0.0	0.0
82.5°	86.0	64.6	44.0	28.4	15.5	7.1	1.3	0.0	0.0	0.0	0.0
85°	63.3	47.8	32.3	20.7	11.0	4.5	0.6	0.0	0.0	0.0	0.0
87.5°	45.9	35.6	24.6	15.5	7.8	3.2	0.6	0.0	0.0	0.0	0.0
90°	36.2	28.4	19.4	12.3	6.5	2.6	0.6	0.0	0.0	0.0	0.0
92.5°	30.4	23.3	16.2	11.0	5.2	2.6	0.6	0.0	0.0	0.0	0.0
95°	26.5	20.0	13.6	8.4	4.5	2.6	0.6	0.0	0.0	0.0	0.0
97.5°	22.0	16.8	11.6	7.1	3.2	1.9	0.6	0.0	0.0	0.0	0.0
100°	19.4	14.2	9.7	5.8	2.6	1.3	0.6	0.0	0.0	0.0	0.0
102.5°	17.5	12.9	8.4	4.5	1.9	1.3	0.0	0.0	0.0	0.0	0.0
105°	14.9	11.0	7.1	3.9	1.9	1.3	0.0	0.0	0.0	0.0	0.0
107.5°	13.6	9.7	5.8	3.2	1.9	1.3	0.0	0.0	0.0	0.0	0.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	12.3	8.4	5.2	2.6	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0°
112.5°	11.0	7.1	3.9	2.6	1.3	0.6	0.0	0.0	0.0	0.0	0.0	2.5°
115°	9.7	5.8	3.2	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	5°
117.5°	9.0	5.2	3.2	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	7.5°
120°	7.8	4.5	2.6	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	10°
122.5°	6.5	3.9	2.6	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	12.5°
125°	5.8	3.2	2.6	1.9	0.6	0.6	0.0	0.0	0.0	0.0	0.0	15°
127.5°	4.5	3.2	2.6	1.9	0.6	0.6	0.0	0.0	0.0	0.0	0.0	17.5°
130°	3.9	3.2	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	20°
132.5°	3.9	2.6	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	22.5°
135°	3.2	2.6	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	25°
137.5°	3.2	2.6	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	27.5°
140°	3.2	2.6	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	30°
142.5°	2.6	1.9	1.9	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0	32.5°
145°	2.6	1.9	1.3	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0	35°
147.5°	2.6	1.9	1.3	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0	37.5°
150°	1.9	1.9	1.3	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0	40°
152.5°	1.9	1.3	1.3	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0	42.5°
155°	1.9	1.9	1.3	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0	45°
157.5°	1.9	1.3	1.3	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0	46°
160°	1.9	1.9	1.3	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0	47.5°
162.5°	1.9	1.9	1.9	1.3	0.6	0.6	0.6	0.6	0.0	0.0	0.0	50°
165°	2.6	1.9	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.0	0.0	52.5°
167.5°	1.9	1.9	1.9	1.3	0.6	0.6	0.6	0.6	0.0	0.0	0.0	55°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

