

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: P511378

Luminaire Tested: **WPMLED25S-80W\_SWITCH-4000K**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (EVERFINE)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: WPMLD25S-80W\_SWITCH-4000K  
Description: WALLPACK SELECTABLE CCT  
Light Source: (240) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

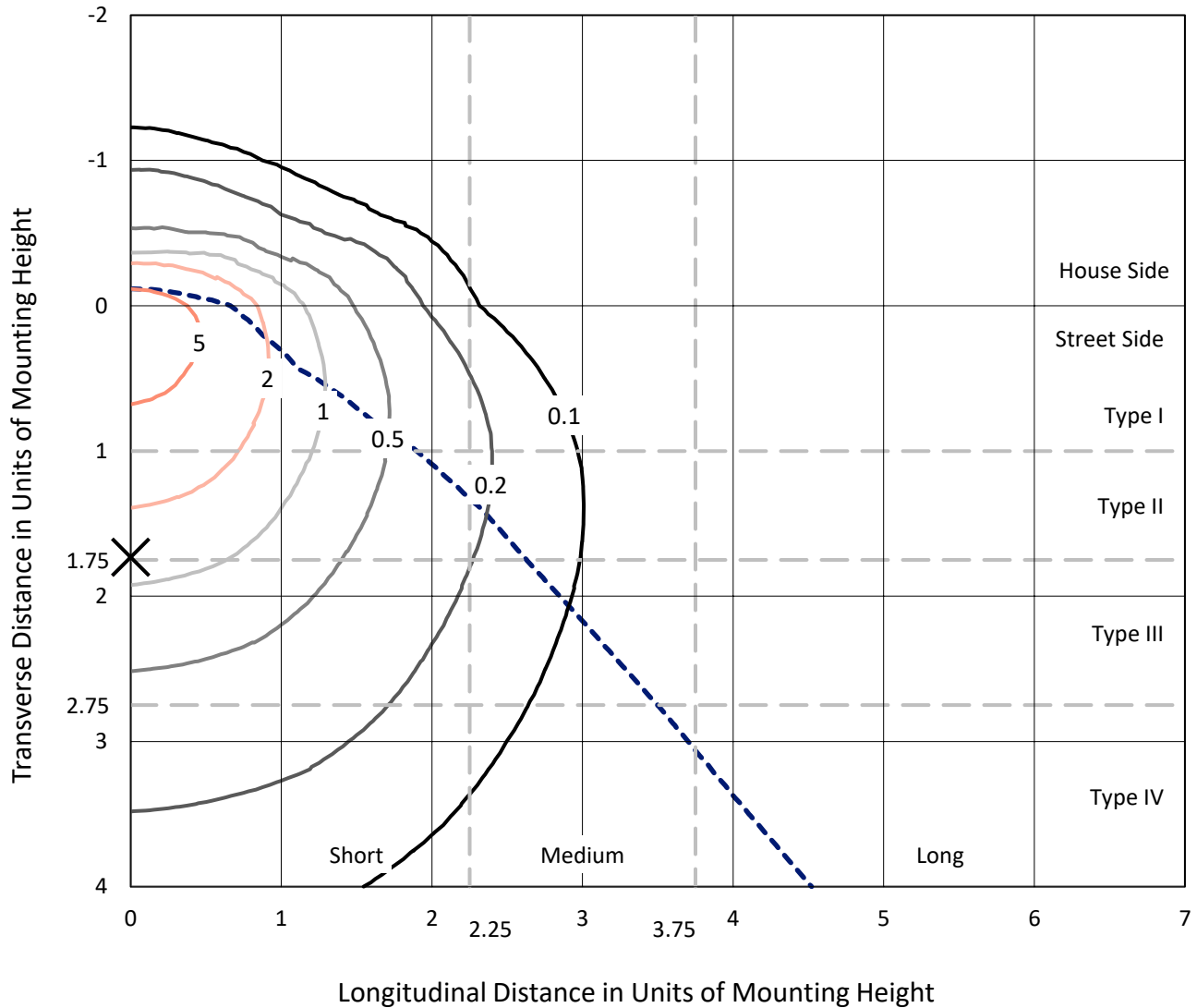
Lumens per Lamp: N/A  
Luminaire Lumens: 11469 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.9' x L: 0.13' x H: 0.45')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U5 - G5  
  
Input Watts (W): 78.8  
Input Voltage (V): 120  
Input Current (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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

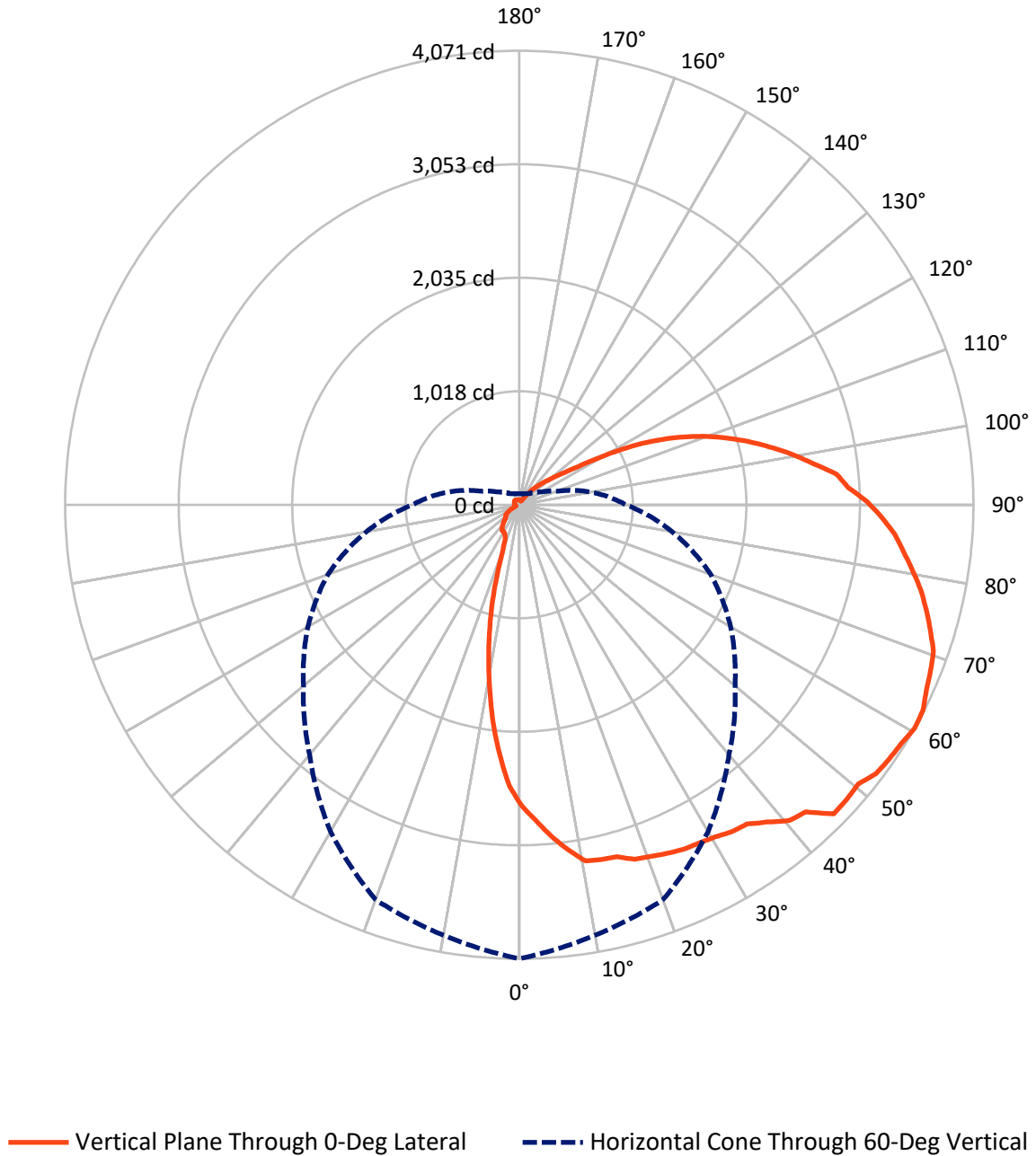
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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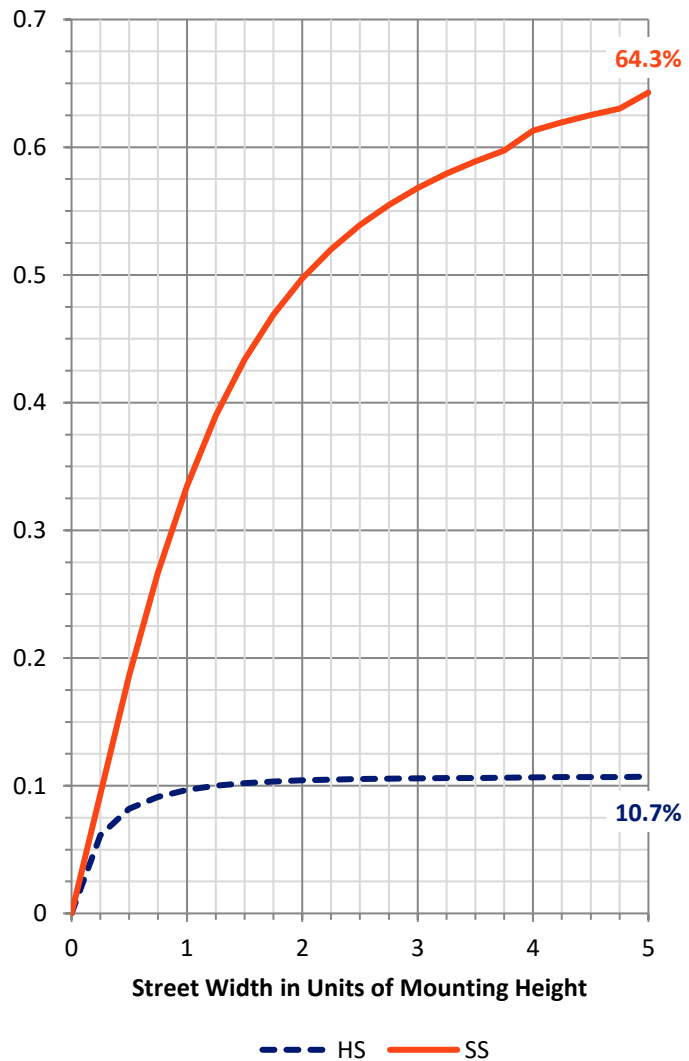
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1254.9	154.5	1409.5
	% Fixture	10.9	1.3	12.3
<b>Street Side</b>	Lumens	8148.7	1910.8	10059.5
	% Fixture	71.1	16.7	87.7
<b>Total</b>	Lumens	9403.7	2065.3	11469.0
	% Fixture	82.0	18.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.6	2.2
10°-20°	655.5	5.7
20°-30°	915.3	8.0
30°-40°	1114.8	9.7
40°-50°	1275.3	11.1
50°-60°	1383.3	12.1
60°-70°	1408.0	12.3
70°-80°	1298.4	11.3
80°-90°	1104.3	9.6
90°-100°	858.9	7.5
100°-110°	591.9	5.2
110°-120°	328.4	2.9
120°-130°	146.2	1.3
130°-140°	71.2	0.6
140°-150°	33.6	0.3
150°-160°	19.4	0.2
160°-170°	11.8	0.1
170°-180°	3.9	0.0
0°-90°	9403.7	82.0
0°-180°	11469.0	100.0



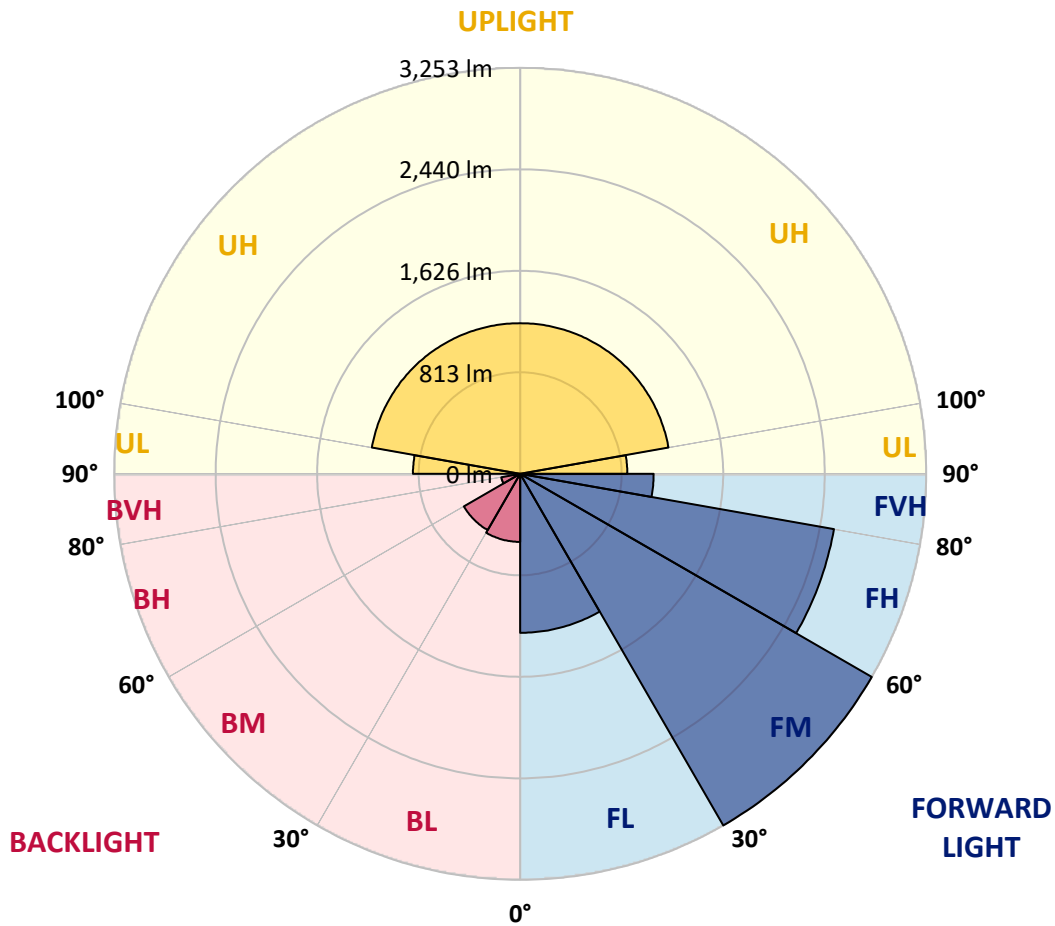
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1274.0	11.1			
FM (30°-60°)	3252.7	28.4			
FH (60°-80°)	2552.9	22.3			G2/5000
FVH (80°-90°)	1069.1	9.3			G5
BL (0°-30°)	545.5	4.8	B2/1000		
BM (30°-60°)	520.7	4.5	B1/1000		
BH (60°-80°)	153.6	1.3	B1/500		G1/500
BVH (80°-90°)	35.2	0.3			G1/100
UL (90°-100°)	858.9	7.5		U4/1000	
UH (100°-180°)	1206.4	10.5		U5	

**BUG Rating: B2-U5-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2700.4	2700.4	2700.4	2700.4	2700.4	2700.4	2700.4	2700.4	2700.4	2700.4	2700.4
2.5°	2834.1	2823.4	2812.6	2808.7	2807.2	2799.0	2784.1	2760.6	2710.9	2661.3	2623.6
5°	2983.8	2971.5	2959.3	2946.9	2934.5	2898.6	2839.3	2780.8	2725.0	2669.2	2616.1
7.5°	3121.2	3104.4	3087.6	3044.1	2991.7	2947.3	2911.0	2859.5	2762.5	2665.4	2556.3
10°	3246.7	3229.3	3212.0	3179.3	3141.5	3072.1	2971.2	2864.1	2738.7	2613.2	2473.6
12.5°	3264.2	3232.4	3200.6	3192.8	3193.0	3136.1	3022.2	2901.1	2758.2	2615.2	2417.7
15°	3273.8	3226.8	3179.7	3153.7	3134.7	3087.3	3011.5	2913.1	2746.9	2580.6	2334.0
17.5°	3342.1	3278.1	3214.1	3183.4	3163.8	3114.9	3036.8	2928.3	2728.9	2529.5	2243.5
20°	3365.0	3328.5	3292.0	3236.8	3175.4	3101.8	3015.9	2896.5	2676.3	2456.1	2130.2
22.5°	3395.0	3350.1	3305.2	3238.8	3165.2	3083.2	2992.9	2865.1	2624.9	2384.7	2014.4
25°	3420.8	3386.0	3351.2	3266.8	3165.9	3060.5	2950.7	2807.8	2565.6	2323.4	1909.2
27.5°	3434.7	3398.5	3362.4	3254.7	3123.2	2997.7	2878.3	2726.9	2479.9	2232.9	1788.0
30°	3457.0	3407.4	3357.8	3229.0	3073.7	2935.7	2815.1	2662.6	2414.5	2166.4	1684.3
32.5°	3495.1	3432.1	3369.1	3225.8	3055.8	2895.1	2743.8	2568.8	2322.8	2076.8	1592.5
35°	3516.2	3449.4	3382.6	3230.9	3050.8	2876.9	2709.1	2514.9	2241.6	1968.3	1474.0
37.5°	3609.7	3513.4	3417.1	3229.4	3011.2	2803.3	2605.7	2391.7	2128.2	1864.8	1360.4
40°	3724.0	3607.7	3491.4	3260.2	2990.6	2748.5	2533.9	2305.1	2033.6	1762.1	1251.4
42.5°	3764.9	3662.0	3559.1	3307.0	3005.3	2724.4	2464.3	2202.7	1936.4	1670.0	1160.8
45°	3952.3	3799.2	3646.1	3355.8	3019.9	2713.8	2437.6	2158.6	1870.9	1583.3	1073.3
47.5°	3948.0	3810.9	3673.8	3376.5	3025.9	2698.2	2393.5	2087.7	1778.5	1469.3	988.0
50°	3937.0	3815.0	3693.0	3385.6	3016.4	2661.4	2320.5	1987.9	1680.4	1372.8	919.6
52.5°	4003.6	3850.1	3696.6	3377.9	3004.1	2649.2	2313.1	1973.4	1623.1	1272.8	852.9
55°	4023.7	3872.1	3720.5	3380.2	2977.1	2608.2	2273.7	1927.8	1547.6	1167.4	786.1
57.5°	4037.9	3891.2	3744.4	3377.0	2936.1	2554.9	2233.4	1889.1	1476.3	1063.5	720.5
60°	4070.7	3919.1	3767.6	3384.3	2923.9	2524.9	2187.2	1825.2	1390.3	955.3	652.3
62.5°	4060.3	3924.3	3788.4	3402.2	2932.7	2516.2	2152.8	1764.3	1300.8	837.4	578.2
65°	4009.3	3886.6	3763.9	3380.2	2909.5	2491.8	2127.3	1726.8	1218.7	710.5	498.1
67.5°	3975.6	3857.1	3738.6	3336.7	2840.3	2414.1	2058.0	1658.4	1128.3	598.1	425.1
70°	3937.5	3809.7	3682.0	3274.9	2774.7	2347.7	1993.8	1590.8	1040.2	489.5	353.4
72.5°	3852.6	3740.8	3628.9	3216.4	2703.7	2264.3	1898.2	1486.8	939.2	391.6	288.3
75°	3768.3	3649.6	3530.8	3125.1	2623.6	2185.6	1811.0	1394.2	851.2	308.2	233.9
77.5°	3679.0	3558.8	3438.6	3037.7	2543.3	2100.4	1709.2	1285.2	763.3	241.4	189.3
80°	3575.2	3448.4	3321.6	2924.0	2436.2	1993.7	1596.8	1176.2	685.0	193.7	155.9
82.5°	3470.4	3340.3	3210.1	2815.3	2332.4	1887.0	1479.4	1061.1	610.9	160.7	132.1
85°	3375.5	3249.1	3122.6	2724.7	2236.3	1781.3	1359.8	942.8	539.3	135.7	113.8
87.5°	3250.2	3116.4	2982.5	2592.4	2116.9	1666.7	1241.9	833.2	472.7	112.2	98.0
90°	3117.5	2982.7	2848.0	2466.1	2001.8	1557.1	1132.0	733.2	413.4	93.6	85.4
92.5°	2951.8	2823.2	2694.6	2327.0	1879.8	1441.9	1013.3	624.3	354.0	83.7	78.3
95°	2856.6	2706.1	2555.5	2189.0	1750.4	1321.4	902.0	530.9	304.6	78.4	74.1
97.5°	2656.7	2526.4	2396.2	2045.3	1621.0	1205.9	800.1	449.0	262.3	75.5	71.4
100°	2485.2	2348.5	2211.8	1879.2	1481.3	1090.4	706.4	380.3	227.7	75.1	70.2
102.5°	2303.7	2175.7	2047.7	1731.1	1351.7	981.8	621.5	320.6	198.1	75.5	69.5
105°	2125.6	1995.8	1866.0	1565.9	1209.1	866.9	539.3	269.4	172.7	76.1	69.0
107.5°	1940.2	1814.8	1689.3	1405.9	1069.8	756.5	466.1	229.2	152.7	76.2	68.1
110°	1753.9	1623.6	1493.3	1226.7	914.6	637.4	394.9	197.9	136.8	75.7	66.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1549.5	1419.2	1288.9	1044.6	762.4	524.9	332.0	174.7	124.5	74.3	65.2
115°	1328.7	1204.4	1080.2	864.5	618.3	421.1	272.8	151.7	112.1	72.4	63.2
117.5°	1087.1	982.6	878.0	704.9	508.8	349.7	227.4	128.4	99.2	70.1	60.9
120°	830.4	754.6	678.8	554.5	414.0	293.1	191.6	110.1	88.6	67.0	58.4
122.5°	628.1	582.4	536.8	449.2	347.7	253.6	166.9	97.6	80.3	62.9	55.5
125°	497.6	472.2	446.9	379.2	297.4	219.6	145.8	86.9	73.1	59.2	52.9
127.5°	408.8	392.8	376.8	321.8	253.8	188.5	125.9	76.4	66.1	55.7	50.6
130°	337.9	327.5	317.2	269.3	209.0	154.1	104.7	65.9	59.2	52.5	48.4
132.5°	284.2	277.5	270.7	227.1	171.3	124.3	86.3	56.8	53.1	49.4	46.6
135°	242.2	234.3	226.5	188.1	139.7	101.0	72.2	50.2	48.5	46.8	44.9
137.5°	196.5	187.9	179.2	149.2	112.1	82.8	61.4	45.2	44.8	44.4	43.4
140°	153.6	146.6	139.6	116.9	89.0	67.6	52.7	41.5	41.7	42.0	41.6
142.5°	113.9	110.4	106.9	90.4	69.6	55.0	46.5	40.1	39.7	39.3	39.8
145°	83.3	80.9	78.5	68.1	55.0	46.6	43.0	39.9	38.3	36.6	38.1
147.5°	66.1	64.2	62.3	54.9	45.7	40.9	40.6	39.8	37.6	35.4	37.6
150°	54.5	52.6	50.7	45.5	39.2	37.0	39.1	40.0	37.9	35.8	38.0
152.5°	46.1	44.6	43.1	40.5	37.6	36.6	37.7	38.2	37.3	36.3	38.3
155°	39.5	38.1	36.7	36.4	36.4	36.4	36.6	36.7	36.7	36.7	38.7
157.5°	34.9	35.0	35.2	36.7	38.8	39.1	37.7	36.7	36.9	37.2	39.0
160°	36.0	36.4	36.9	38.1	39.7	39.7	38.1	37.1	37.3	37.6	39.3
162.5°	41.0	40.8	40.6	40.4	40.3	39.6	38.3	37.4	37.7	38.0	39.6
165°	42.3	41.7	41.1	40.0	38.6	37.9	37.8	37.8	38.1	38.4	39.8
167.5°	41.2	40.4	39.6	38.8	38.1	37.9	38.0	38.2	38.5	38.7	40.0
170°	38.8	38.5	38.3	38.3	38.4	38.5	38.6	38.7	38.9	39.0	40.2
172.5°	39.6	39.3	39.1	39.1	39.1	39.1	39.1	39.1	39.2	39.3	40.3
175°	40.4	40.2	40.0	39.9	39.9	39.8	39.7	39.6	39.5	39.5	40.4
177.5°	41.3	41.1	40.9	40.8	40.7	40.5	40.2	39.9	39.8	39.8	40.5
180°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5





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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2700.4	2700.4	2700.4	2700.4	2700.4	2700.4	2700.4	2700.4
2.5°	2586.0	2564.6	2548.6	2531.3	2512.8	2501.7	2512.8	2523.9
5°	2563.1	2496.6	2425.5	2361.6	2304.8	2260.0	2250.9	2241.9
7.5°	2447.3	2336.7	2225.7	2134.6	2063.3	2002.8	1975.0	1947.2
10°	2334.0	2185.7	2034.5	1904.2	1794.8	1702.8	1663.1	1623.4
12.5°	2220.1	2023.0	1826.2	1653.8	1505.9	1385.5	1347.7	1309.9
15°	2087.5	1842.2	1597.4	1394.5	1233.5	1101.9	1058.5	1015.2
17.5°	1957.4	1673.1	1389.4	1159.5	983.3	836.5	777.7	718.8
20°	1804.3	1492.5	1185.4	931.7	731.4	566.3	507.0	447.6
22.5°	1644.0	1306.8	980.5	724.0	537.1	390.2	363.3	336.3
25°	1494.9	1133.2	789.0	553.3	426.2	327.8	315.8	303.8
27.5°	1343.1	979.0	641.8	436.3	362.4	305.0	297.2	289.4
30°	1202.3	851.6	544.8	369.3	325.1	290.7	285.5	280.3
32.5°	1108.2	775.4	493.0	336.4	305.6	282.2	280.8	279.5
35°	979.7	677.8	440.0	310.9	290.6	275.1	273.9	272.8
37.5°	856.0	586.5	395.3	291.6	275.3	262.1	258.2	254.3
40°	740.6	502.7	355.8	273.8	256.8	242.5	236.5	230.5
42.5°	651.5	438.3	323.7	256.5	236.9	220.5	213.7	207.0
45°	563.2	373.7	291.1	239.3	218.4	200.8	192.9	184.9
47.5°	506.7	334.8	266.1	220.9	199.3	181.2	173.9	166.6
50°	466.5	306.4	244.0	202.0	180.3	163.5	161.5	159.4
52.5°	433.0	283.3	223.6	183.3	162.5	147.8	151.3	154.8
55°	404.8	264.4	204.3	164.7	145.7	132.7	137.7	142.8
57.5°	377.4	246.3	185.9	147.2	130.3	118.2	120.3	122.4
60°	349.3	228.4	168.3	130.6	115.4	103.6	102.0	100.4
62.5°	319.1	210.1	151.2	114.5	100.0	88.1	84.3	80.4
65°	285.7	190.2	133.7	97.3	81.1	68.0	64.1	60.3
67.5°	252.1	169.1	116.1	79.0	57.5	40.3	35.5	30.8
70°	217.3	147.1	98.8	64.9	45.6	31.1	31.4	31.7
72.5°	185.0	126.4	82.7	54.4	41.6	32.0	32.3	32.7
75°	159.7	112.5	74.3	50.2	40.3	32.9	33.3	33.7
77.5°	137.2	100.0	67.6	47.5	39.7	33.9	34.4	34.8
80°	118.1	88.1	60.8	44.4	38.9	34.9	35.4	35.9
82.5°	103.5	79.0	55.8	42.4	38.6	35.9	36.4	37.0
85°	92.0	71.9	52.5	41.4	38.7	36.9	37.5	38.1
87.5°	83.7	67.3	50.3	40.8	39.0	37.9	38.6	39.3
90°	77.1	63.8	48.7	40.6	39.5	38.9	39.6	40.3
92.5°	73.0	61.4	47.8	40.6	40.0	39.8	40.6	41.4
95°	69.8	59.4	47.0	40.7	40.6	40.7	41.5	42.4
97.5°	67.2	57.7	46.4	40.9	41.2	41.6	42.4	43.3
100°	65.4	56.4	46.0	41.1	41.7	42.4	43.3	44.2
102.5°	63.5	55.0	45.6	41.3	42.3	43.2	44.1	45.0
105°	61.9	53.7	45.2	41.6	42.9	44.0	44.9	45.8
107.5°	60.0	52.4	45.0	42.1	43.5	44.8	45.7	46.6
110°	58.0	51.1	44.8	42.5	44.2	45.6	46.5	47.4



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	56.1	49.9	44.7	43.0	44.8	46.4	47.3	48.2
115°	53.9	48.6	44.5	43.4	45.4	47.1	48.0	48.9
117.5°	51.8	47.3	44.3	43.9	46.0	47.8	48.7	49.6
120°	49.8	46.2	44.2	44.4	46.6	48.5	49.4	50.2
122.5°	48.1	45.3	44.2	44.8	47.2	49.1	50.0	50.8
125°	46.6	44.7	44.3	45.3	47.7	49.7	50.5	51.3
127.5°	45.4	44.2	44.4	45.7	48.2	50.2	51.0	51.8
130°	44.4	43.9	44.5	46.1	48.6	50.6	51.4	52.1
132.5°	43.7	43.7	44.7	46.5	49.0	51.0	51.7	52.5
135°	43.1	43.7	45.0	46.8	49.3	51.3	52.0	52.7
137.5°	42.4	43.4	45.1	47.1	49.5	51.4	52.1	52.9
140°	41.3	42.9	45.1	47.4	49.6	51.5	52.2	52.9
142.5°	40.2	42.3	45.0	47.5	49.7	51.5	52.2	52.9
145°	39.7	42.2	45.1	47.6	49.6	51.3	52.0	52.7
147.5°	39.8	42.4	45.2	47.5	49.5	51.1	51.7	52.3
150°	40.1	42.6	45.2	47.4	49.3	50.8	51.4	51.9
152.5°	40.4	42.7	45.2	47.3	48.9	50.3	50.8	51.4
155°	40.6	42.8	45.1	47.0	48.5	49.8	50.3	50.7
157.5°	40.8	42.9	45.0	46.7	48.1	49.2	49.6	50.0
160°	41.0	42.9	44.8	46.4	47.6	48.6	49.0	49.4
162.5°	41.2	42.9	44.6	46.0	47.1	48.0	48.3	48.6
165°	41.3	42.8	44.4	45.6	46.6	47.3	47.6	47.8
167.5°	41.3	42.7	44.1	45.1	46.0	46.6	46.8	46.9
170°	41.4	42.6	43.7	44.7	45.3	45.9	45.9	46.1
172.5°	41.4	42.4	43.4	44.2	44.7	45.1	45.1	45.1
175°	41.3	42.2	43.0	43.7	44.1	44.4	44.3	44.2
177.5°	41.2	41.9	42.6	43.1	43.4	43.6	43.4	43.3
180°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5

(END OF REPORT)