

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: P393746

Luminaire Tested: **NFFLD-C25-D-UNV-66-VG**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393746  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130630)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 3/31/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-C25-D-UNV-66-VG  
Description: FLOODLIGHT WITH WIRE GUARD  
Light Source: (2) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	9749 lumens	Max Intensity:	5471.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	114.7 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	98.6°H x 86.3°V	Field Angle (10%):	125°H x 113.3°V
Beam Lumens:	6456.8 lumens	Field Lumens:	9333.9 lumens
Beam Efficiency:	66.2%	Field Efficiency:	95.7%

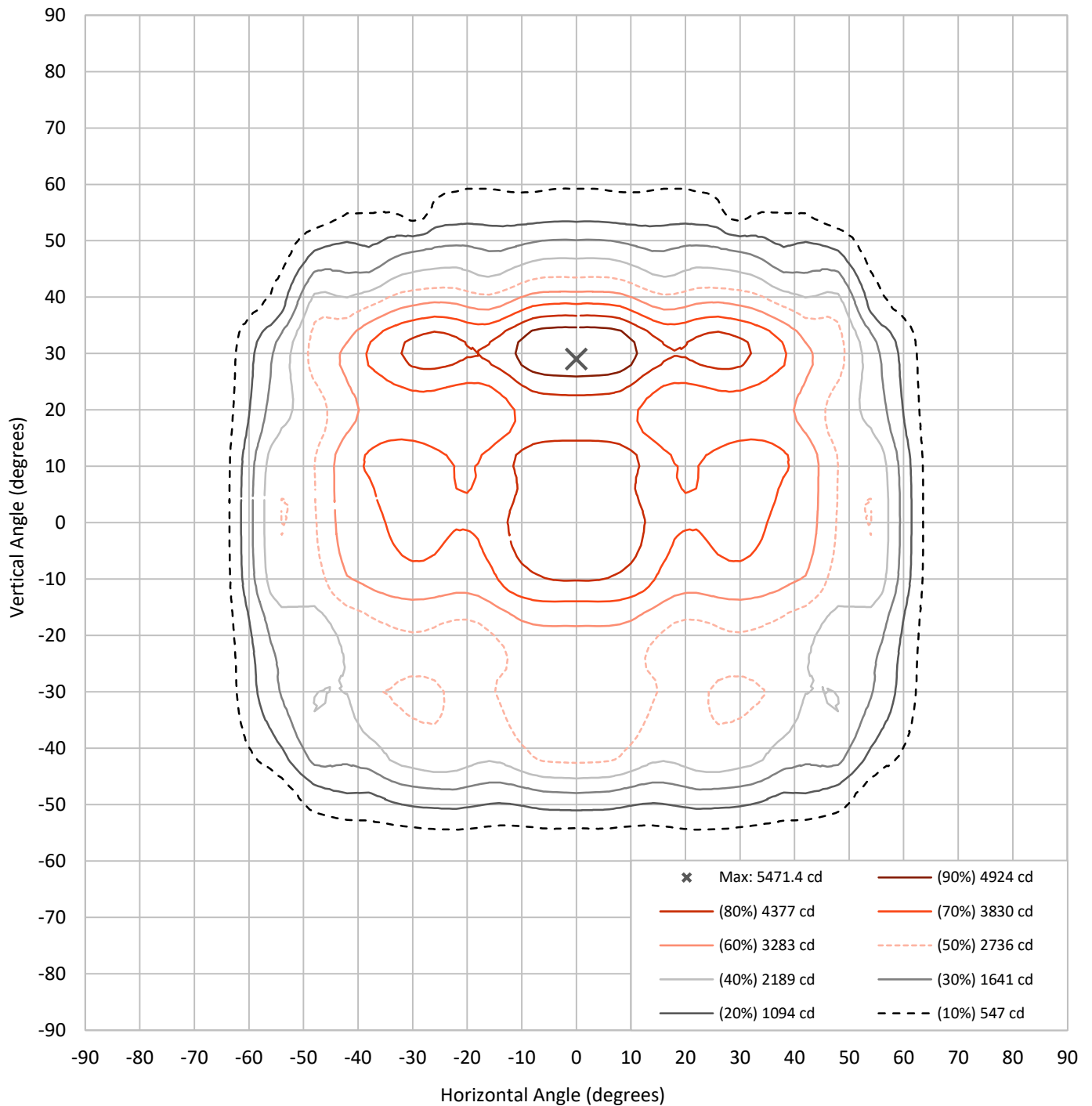
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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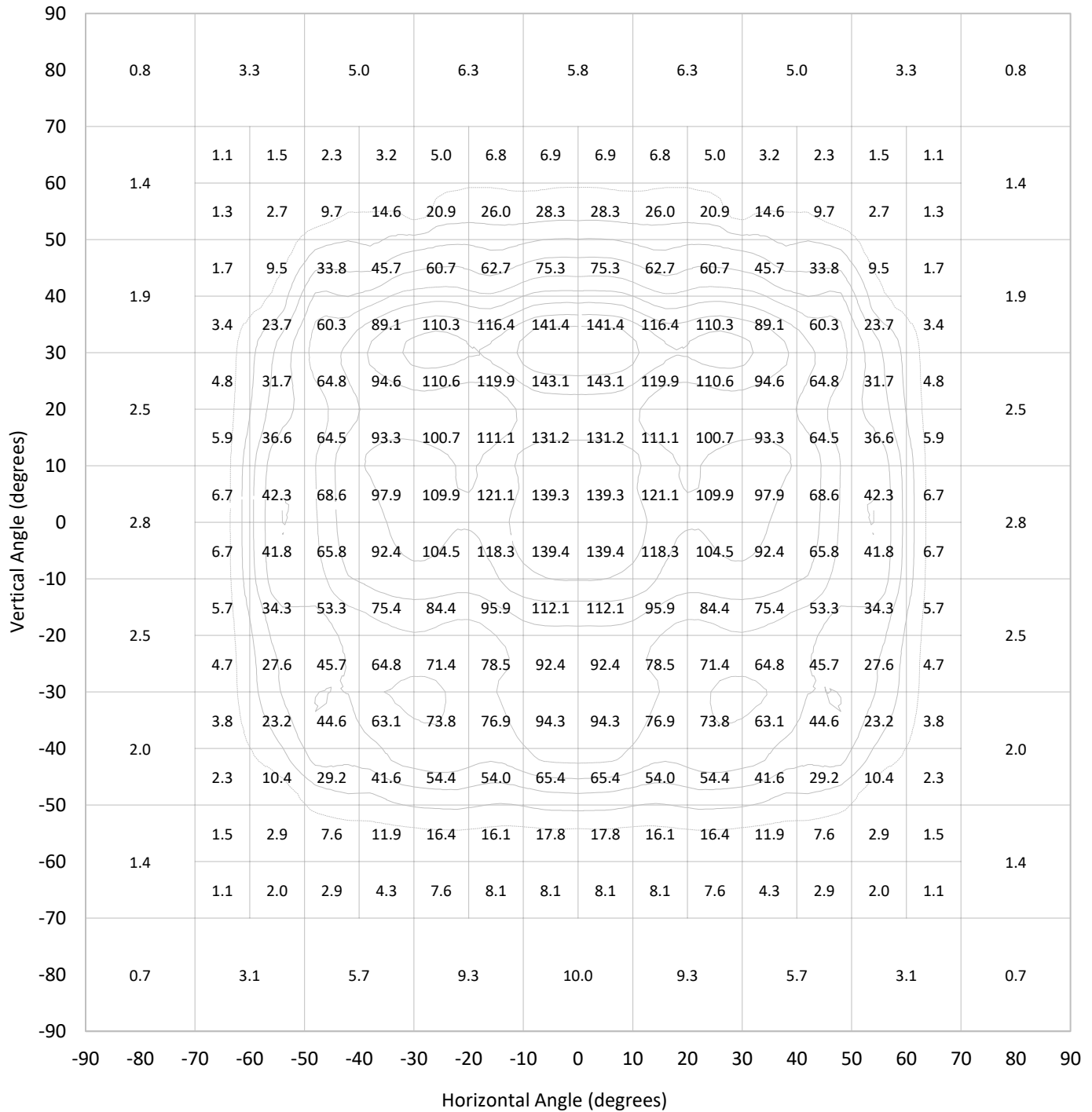
### Iso-Candela Plot





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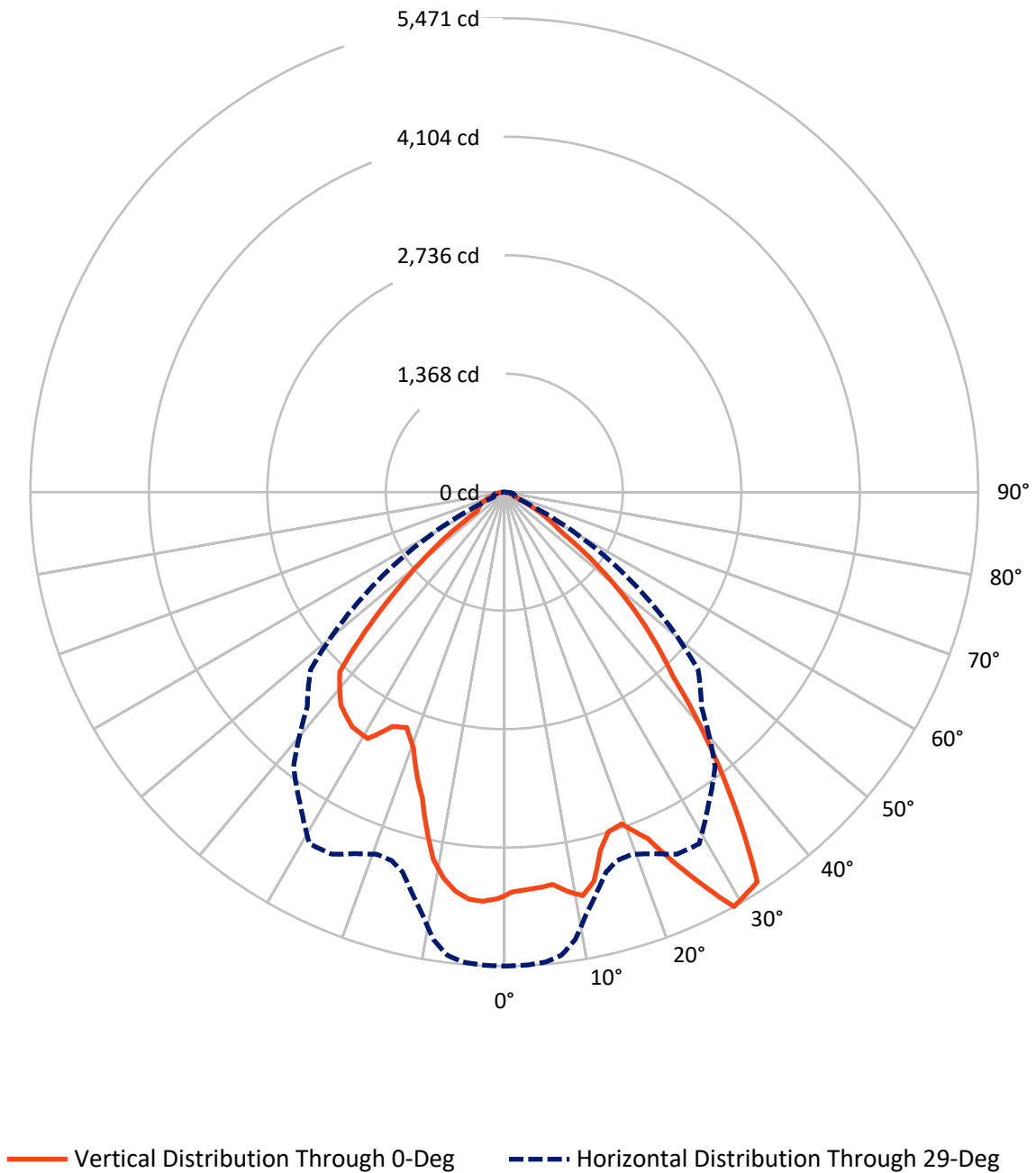
### Lumen Table



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### Luminous Intensity Polar Plot

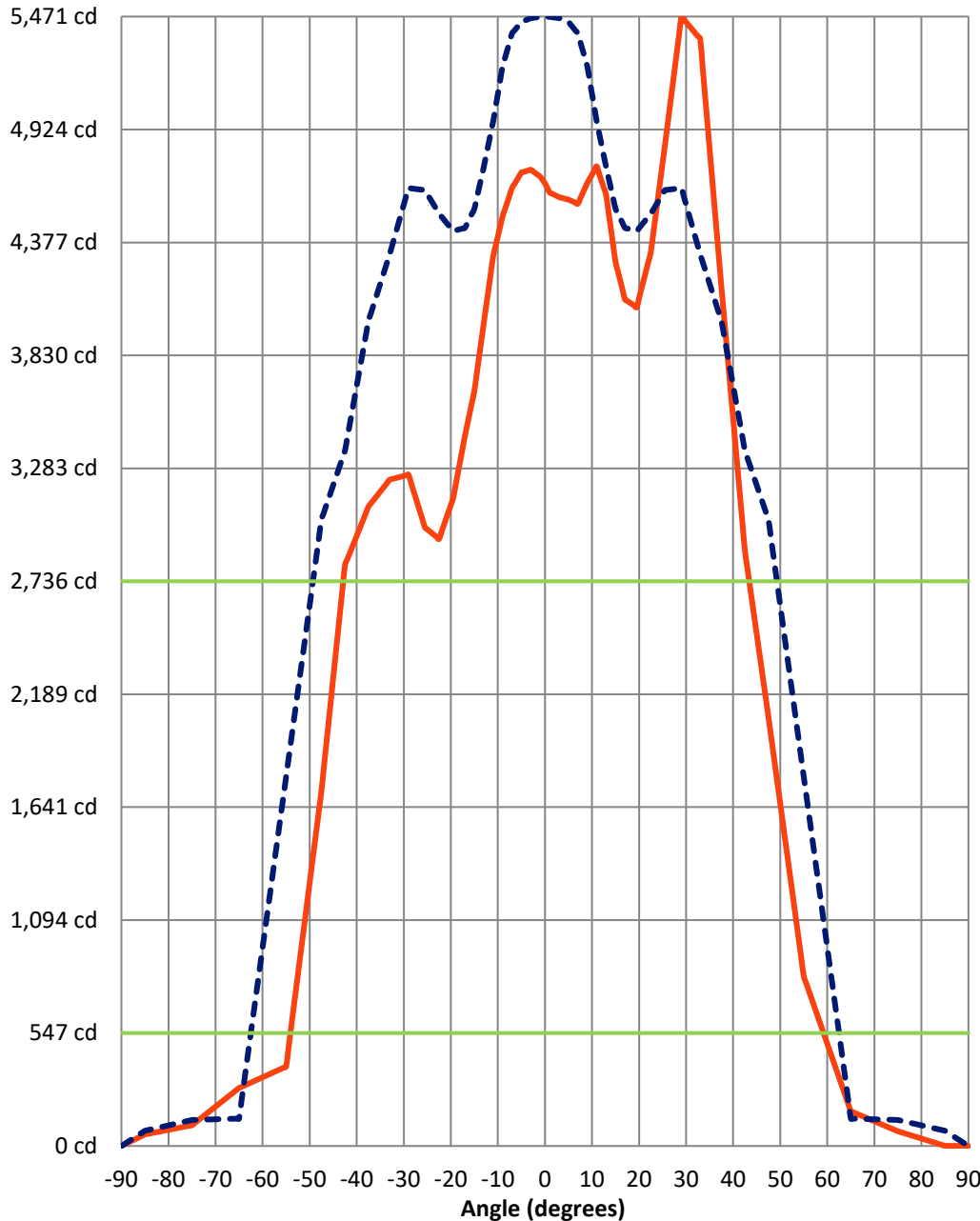




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### Luminous Intensity Plot



**Beam:**  
 H Angle: 98.6°  
 V Angle: 86.3°  
 Lumens: 6456.8  
 Efficiency: 66.2%

**Field:**  
 H Angle: 125°  
 V Angle: 113.3°  
 Lumens: 9333.9  
 Efficiency: 95.7%

**Spill:**  
 Lumens: 415.1  
 Efficiency: 4.3%

— Vertical Distribution through 0-Deg  
 - - Horizontal Distribution through 29-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.8	3.8	19.2	23.7	25.4	28.5	34.6	39.1	44.5	49.1	52.2
75°	71.3	71.3	71.3	71.3	69.2	67.7	69.2	65.2	66.0	65.2	62.2
65°	168.2	168.2	163.7	154.3	145.9	147.4	152.8	161.2	178.2	167.5	165.0
55°	822.4	830.8	834.0	817.8	780.2	771.0	764.0	774.8	817.8	819.3	836.3
47.5°	2077.3	2101.0	2098.7	2081.1	2063.5	1947.4	1872.1	1751.6	1698.7	1742.5	1854.6
42.5°	2882.8	2892.7	2895.9	2896.6	2882.0	2769.9	2648.6	2458.1	2327.5	2290.7	2427.4
37.5°	4161.2	4188.2	4191.3	4135.2	4116.0	3987.0	3751.2	3559.3	3370.4	3322.0	3405.8
33°	5362.4	5362.4	5360.1	5337.0	5296.4	5115.1	4828.7	4616.7	4378.7	4254.3	4294.1
29°	5471.4	5469.8	5463.7	5445.4	5389.2	5230.3	4963.9	4742.7	4540.0	4447.8	4432.4
25.5°	4847.9	4841.0	4827.2	4805.6	4766.4	4639.8	4416.3	4218.2	4021.6	3922.6	3907.9
22.5°	4330.3	4326.4	4328.7	4299.5	4281.1	4198.9	4029.3	3851.9	3680.7	3562.4	3514.8
19.5°	4063.1	4066.0	4069.2	4062.4	4045.4	3983.2	3828.9	3655.3	3500.9	3375.7	3320.5
17°	4101.4	4104.5	4103.0	4099.1	4081.5	4011.5	3861.0	3692.9	3539.4	3396.4	3327.4
15°	4283.4	4289.6	4285.0	4273.4	4251.9	4171.4	4016.1	3835.0	3689.1	3519.4	3448.7
13°	4607.5	4612.1	4607.5	4589.9	4557.5	4479.2	4325.7	4120.7	3963.9	3758.2	3666.8
11°	4745.7	4746.5	4744.9	4727.2	4696.6	4625.1	4458.5	4252.8	4092.2	3886.4	3775.8
9°	4665.1	4671.9	4667.4	4652.8	4632.0	4569.8	4413.2	4225.1	4077.7	3886.4	3793.5
7°	4564.5	4569.1	4567.5	4560.7	4543.8	4493.1	4354.8	4174.4	4051.5	3864.9	3783.6
5°	4584.4	4590.6	4589.9	4586.8	4569.1	4517.7	4388.6	4214.3	4113.0	3925.6	3834.2
3°	4596.8	4602.2	4608.3	4604.4	4596.8	4564.5	4449.4	4290.3	4189.0	3990.0	3876.5
1°	4619.1	4626.7	4636.7	4634.5	4637.5	4609.0	4497.7	4322.6	4203.5	3991.6	3911.0
0°	4663.5	4668.1	4678.8	4672.7	4666.6	4636.7	4513.8	4334.1	4198.9	3980.9	3915.6
-1°	4695.8	4698.9	4698.9	4689.7	4674.2	4639.0	4508.5	4323.4	4176.0	3944.0	3838.1
-3°	4729.5	4733.5	4718.8	4689.7	4668.1	4623.6	4486.9	4289.6	4127.6	3879.6	3744.4
-5°	4715.8	4718.8	4712.7	4665.1	4630.5	4582.8	4441.7	4240.4	4067.7	3818.8	3679.8
-7°	4640.5	4646.6	4624.4	4592.2	4533.0	4476.9	4327.2	4122.2	3943.2	3714.4	3590.8
-9°	4503.9	4519.9	4490.1	4465.4	4390.9	4326.4	4180.6	3993.2	3828.1	3621.5	3505.5
-11°	4310.4	4326.4	4315.0	4314.1	4258.9	4206.0	4078.4	3902.5	3743.6	3543.2	3424.9
-13°	3986.3	4008.5	4003.2	4029.3	3980.1	3947.8	3825.8	3679.2	3538.5	3341.1	3248.3
-15°	3657.6	3638.5	3638.5	3650.7	3617.6	3583.8	3470.2	3345.0	3209.0	3039.4	2953.4
-17°	3440.2	3428.0	3429.5	3435.7	3407.2	3375.0	3270.6	3143.0	2994.1	2834.4	2739.2
-19.5°	3138.4	3135.4	3136.9	3153.0	3137.7	3117.0	3022.6	2901.2	2766.8	2626.2	2540.2
-22.5°	2940.3	2943.4	2953.4	2951.1	2944.2	2926.6	2836.7	2730.6	2597.1	2476.5	2389.7
-25.5°	2996.4	2993.3	2998.7	2985.6	2974.9	2925.0	2809.8	2708.5	2562.6	2471.9	2408.2
-29°	3252.1	3249.0	3252.1	3242.9	3234.5	3166.2	3024.9	2910.4	2733.9	2650.1	2585.5
-33°	3227.6	3226.8	3227.6	3220.7	3200.6	3109.4	2948.8	2796.0	2618.6	2524.1	2513.4
-37.5°	3097.7	3095.4	3097.0	3087.0	3054.7	2942.7	2782.8	2606.3	2465.8	2412.8	2461.2
-42.5°	2813.6	2804.4	2800.6	2779.2	2733.9	2586.3	2438.1	2269.2	2195.4	2202.4	2318.4
-47.5°	1719.3	1702.5	1685.5	1671.8	1633.3	1523.5	1474.4	1398.3	1401.5	1442.1	1512.8
-55°	384.7	388.5	400.8	403.1	393.9	381.7	363.2	357.0	369.4	410.1	421.6
-65°	281.1	284.1	289.5	278.7	259.5	256.4	266.5	285.7	291.8	288.0	294.8
-75°	100.6	102.1	104.4	101.4	95.3	100.6	103.7	99.0	97.5	96.0	97.5
-85°	56.0	56.8	56.8	54.6	57.6	56.0	53.7	55.3	56.8	61.4	59.9
-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):**

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.6	53.0	46.8	43.8	46.8	53.0	53.7	50.7	42.3	31.5	23.7
75°	60.6	63.7	66.7	69.2	71.3	66.7	67.7	73.0	71.3	57.6	32.3
65°	155.9	117.4	91.4	83.7	79.1	79.1	77.6	87.6	85.3	70.6	40.7
55°	770.2	754.9	167.5	507.6	516.8	497.5	144.3	120.6	100.6	78.4	49.9
47.5°	1898.3	1855.3	1782.4	1618.0	1207.1	1373.0	1270.2	158.9	103.7	86.8	56.8
42.5°	2575.5	2557.2	2501.9	2382.0	1902.9	1796.2	2045.7	496.2	102.9	96.0	61.4
37.5°	3572.4	3643.8	3537.7	3348.8	2941.9	2505.0	2726.1	758.7	108.3	106.7	66.0
33°	4497.7	4584.4	4495.4	4258.1	3828.1	3164.6	3003.3	1576.5	121.4	117.4	70.0
29°	4516.8	4630.5	4640.5	4319.5	3997.0	3368.1	3034.0	1789.3	132.8	126.0	73.8
25.5°	3994.7	4106.7	4115.3	3944.0	3670.6	3254.5	2839.0	1819.9	142.8	132.8	76.0
22.5°	3568.5	3682.1	3736.7	3636.0	3485.5	3149.2	2603.3	1894.5	153.6	138.2	78.4
19.5°	3355.8	3464.1	3557.0	3512.5	3420.3	3106.9	2489.5	1993.5	165.0	142.1	80.7
17°	3342.0	3454.1	3574.6	3596.2	3503.2	3172.3	2508.8	2105.6	174.4	144.3	82.2
15°	3455.7	3583.8	3727.4	3782.8	3665.2	3309.0	2577.1	2260.1	177.4	146.7	83.0
13°	3682.8	3857.2	4030.8	4087.6	3882.6	3514.8	2693.2	2468.1	179.7	149.7	83.7
11°	3805.8	4006.2	4200.4	4206.0	3948.6	3619.9	2745.3	2605.5	180.4	153.6	84.5
9°	3826.6	4014.6	4181.3	4145.2	3890.3	3621.5	2734.6	2672.3	181.3	156.6	85.3
7°	3808.8	3987.8	4113.0	4063.7	3810.4	3610.7	2715.3	2704.6	181.3	158.9	85.3
5°	3861.8	4040.8	4139.1	4051.5	3786.6	3616.9	2717.6	2735.2	179.7	160.4	86.0
3°	3892.6	4065.4	4141.3	4011.5	3750.5	3603.9	2709.2	2748.4	178.2	159.7	86.0
1°	3901.8	4049.2	4109.2	3960.9	3707.5	3580.8	2690.0	2749.9	175.8	156.6	86.0
0°	3881.9	4029.3	4085.3	3940.2	3689.1	3568.5	2682.3	2749.9	180.4	155.1	86.0
-1°	3834.2	3998.6	4061.6	3923.3	3673.7	3557.0	2676.2	2749.9	177.4	152.8	86.0
-3°	3747.5	3926.4	4006.2	3887.2	3636.0	3522.4	2664.6	2743.8	177.4	149.7	86.0
-5°	3682.1	3854.1	3938.6	3832.0	3587.0	3464.1	2637.7	2726.8	176.7	148.2	85.3
-7°	3595.4	3750.5	3848.0	3761.2	3529.3	3388.0	2597.1	2693.9	174.4	148.2	85.3
-9°	3504.1	3642.2	3745.1	3670.6	3455.7	3291.3	2552.6	2647.8	172.8	148.2	84.5
-11°	3419.5	3540.2	3635.4	3566.2	3368.1	3176.9	2484.2	2558.7	170.5	146.7	83.7
-13°	3245.2	3329.7	3412.6	3352.8	3158.4	2958.8	2349.0	2387.4	168.2	145.1	83.0
-15°	2948.8	3018.0	3083.9	3041.0	2882.8	2661.6	2157.2	2174.7	165.8	142.8	81.4
-17°	2736.1	2818.9	2885.1	2841.3	2713.8	2464.3	2019.7	2017.2	164.3	140.5	80.7
-19.5°	2560.2	2665.5	2743.0	2696.2	2593.3	2308.4	1912.8	1880.7	162.0	139.0	79.1
-22.5°	2406.7	2514.2	2588.6	2561.0	2505.8	2208.6	1902.9	1750.9	156.6	137.5	76.8
-25.5°	2452.0	2554.1	2617.8	2597.9	2520.3	2166.4	1997.3	1669.4	152.0	136.0	75.3
-29°	2653.9	2793.7	2895.0	2766.0	2737.6	2189.3	2213.2	1639.6	148.2	132.8	72.1
-33°	2661.6	2799.0	2822.1	2728.4	2660.1	2013.4	2255.3	1464.5	145.1	126.8	69.2
-37.5°	2614.0	2696.9	2660.1	2544.0	2272.3	1877.6	2197.0	1144.1	139.7	116.7	65.2
-42.5°	2460.4	2527.2	2409.8	2286.1	1821.5	1680.9	1813.0	729.5	136.7	104.4	60.6
-47.5°	1615.8	1572.7	1540.4	1419.1	1125.8	1154.9	974.6	170.5	131.4	89.8	56.8
-55°	426.9	422.4	411.6	356.4	312.6	277.2	182.0	135.1	125.2	77.6	50.7
-65°	298.0	285.7	253.4	162.0	142.8	119.7	134.4	113.6	85.3	66.7	42.3
-75°	100.6	95.3	82.2	79.9	75.3	79.9	84.5	70.0	59.9	52.2	33.8
-85°	62.2	59.1	47.6	42.3	46.1	51.4	51.4	46.8	36.1	29.2	24.5
-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°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)