

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: P393736

Luminaire Tested: **NFFLD-C25-D-UNV-66-7030-TS2**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130629)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 3/31/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-C25-D-UNV-66-7030-TS2  
Description: FLOODLIGHT WITH TOP AND SIDE VISORS  
Light Source: (2) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

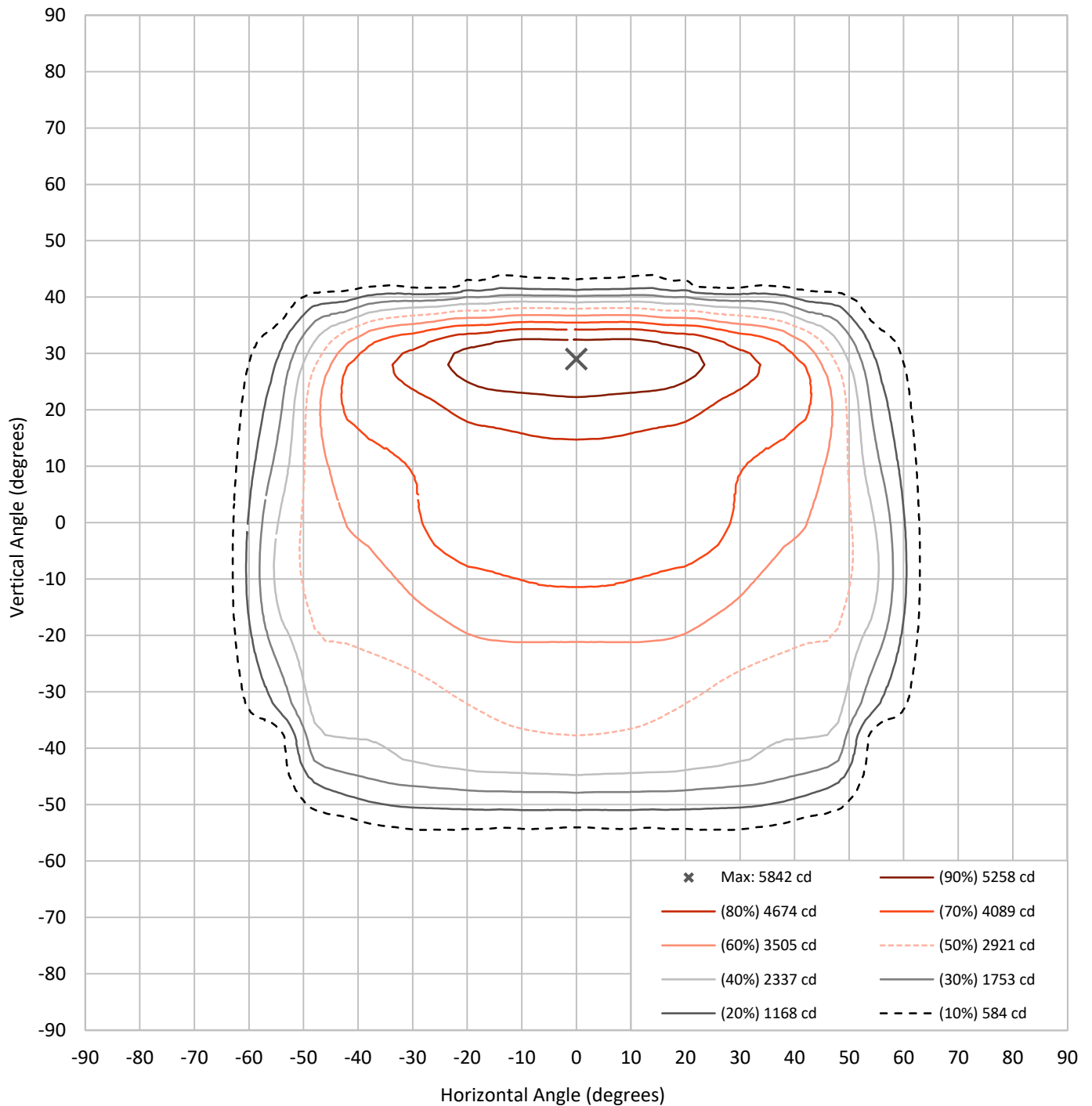
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	9519 lumens	Max Intensity:	5842 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	112.0 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	94.6°H x 75.7°V	Field Angle (10%):	119.6°H x 96.4°V
Beam Lumens:	7033.8 lumens	Field Lumens:	9273.1 lumens
Beam Efficiency:	73.9%	Field Efficiency:	97.4%
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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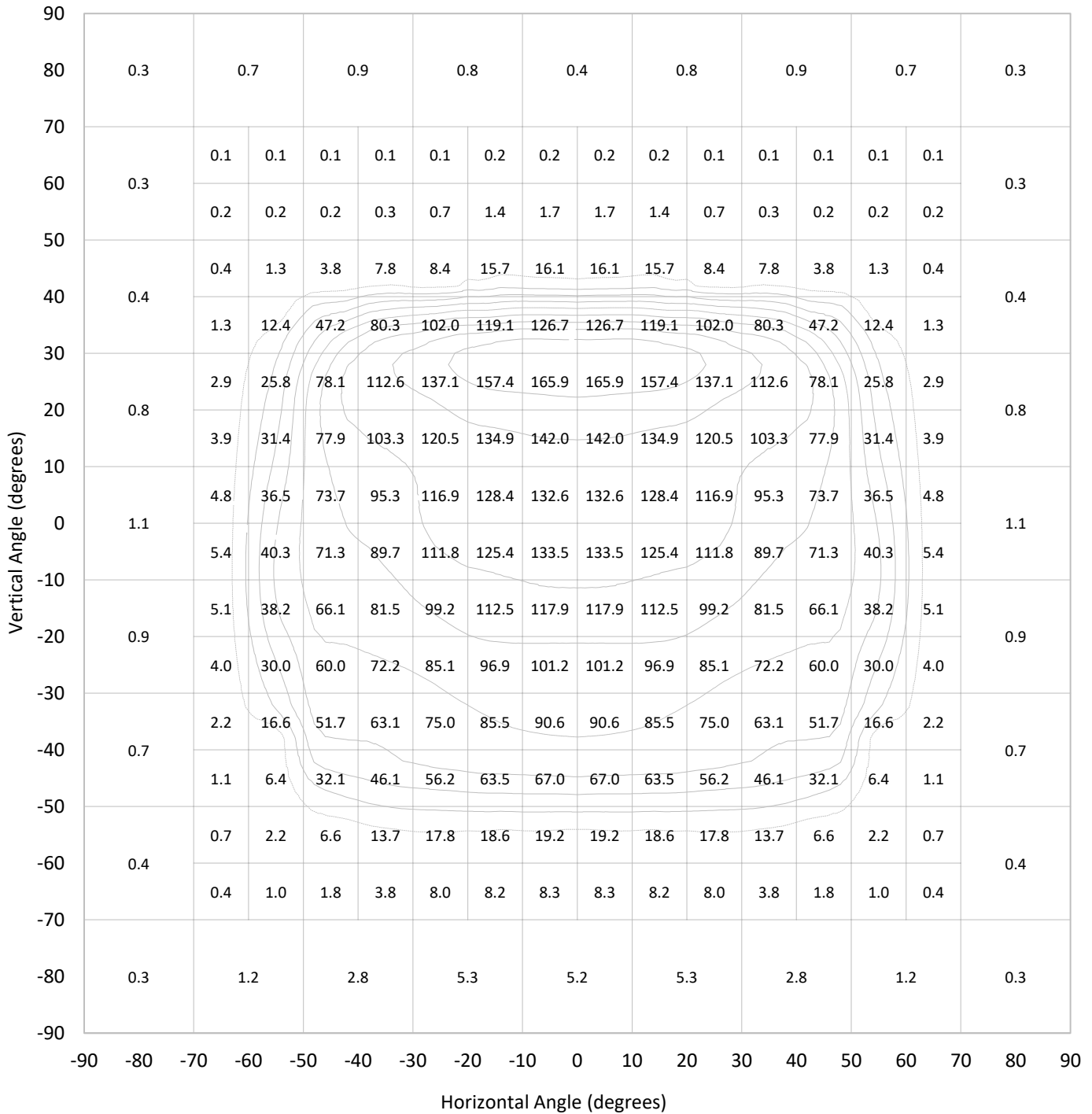
### Iso-Candela Plot





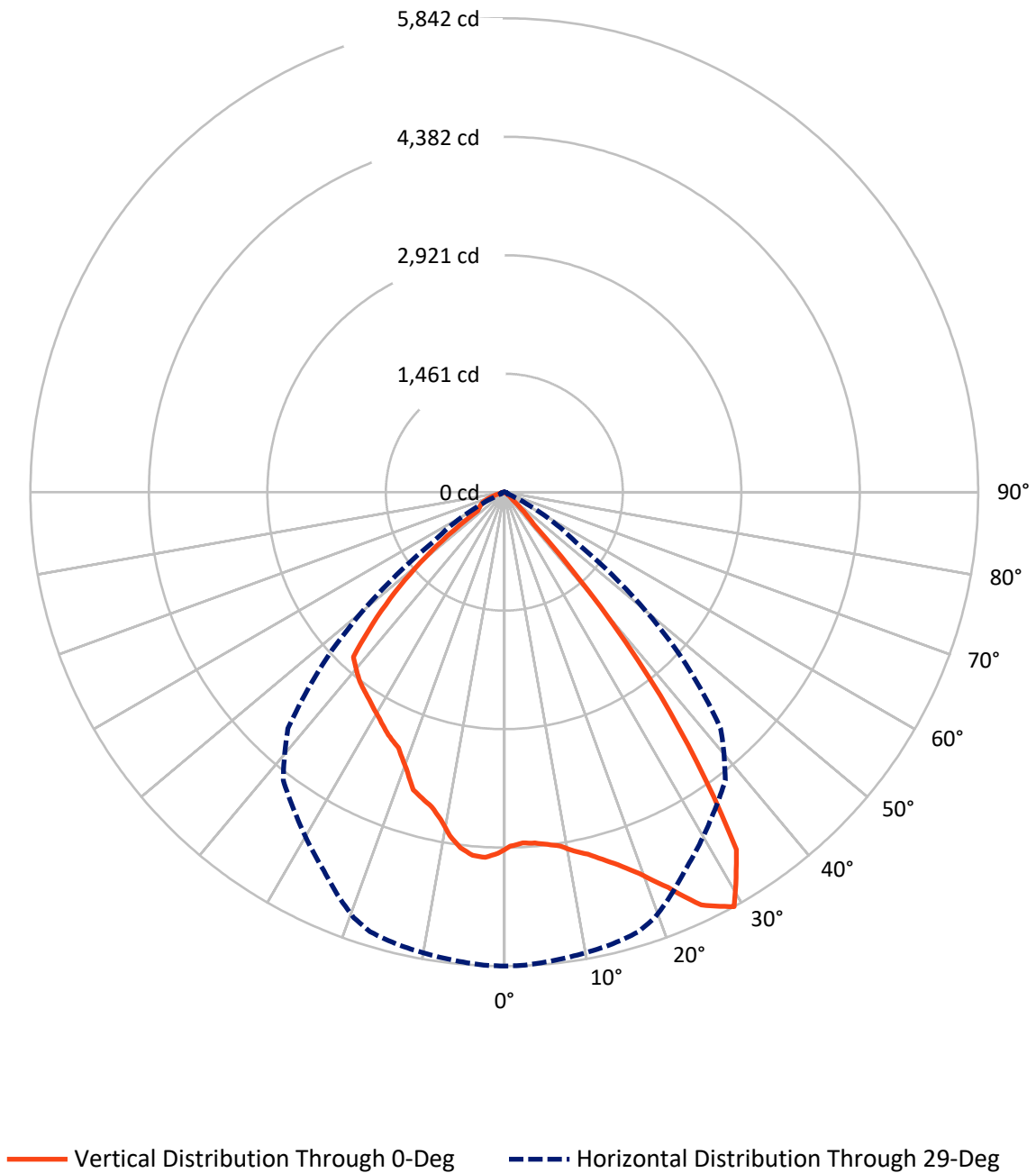
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### Lumen Table



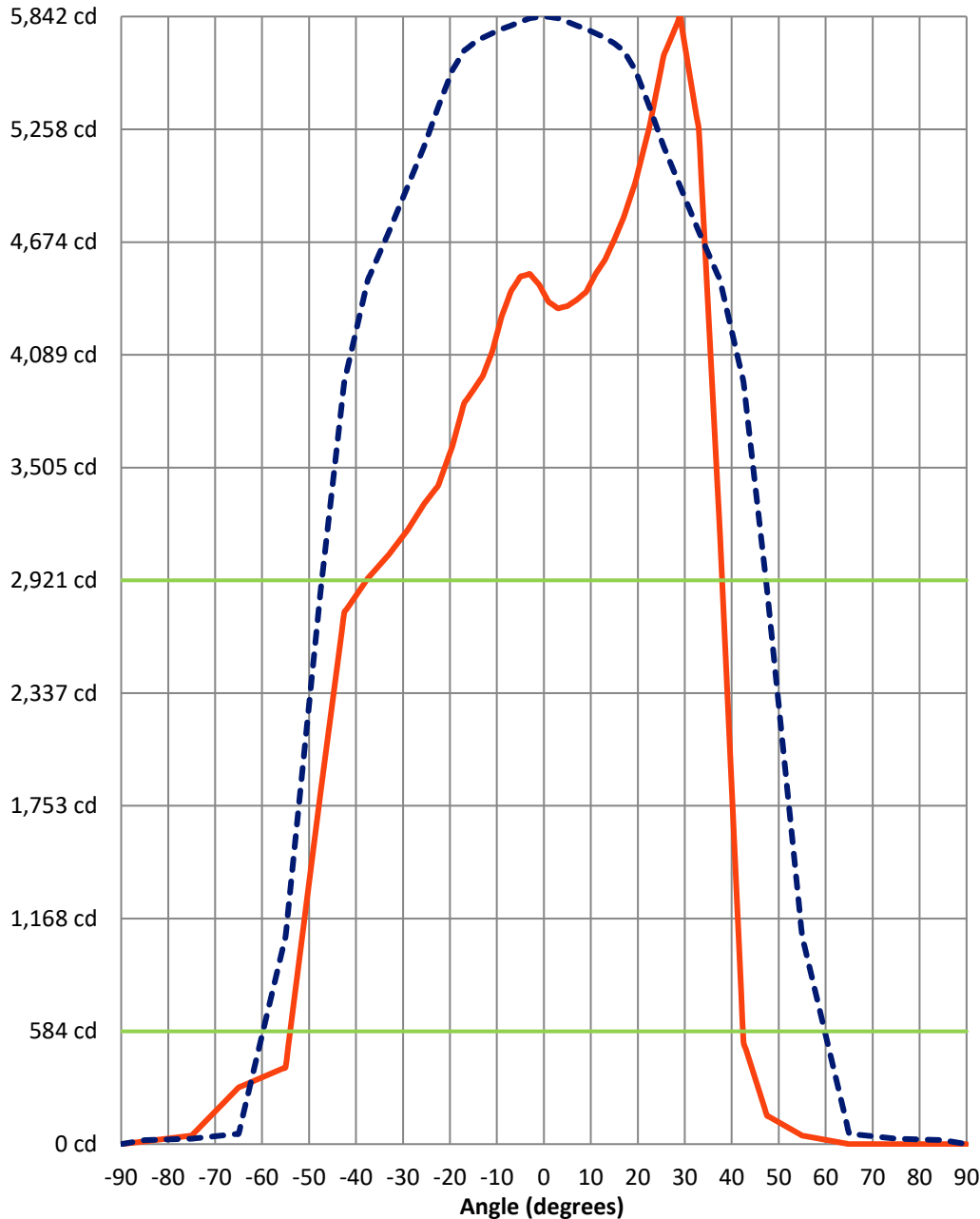
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 94.6°  
 V Angle: 75.7°  
 Lumens: 7033.8  
 Efficiency: 73.9%

**Field:**  
 H Angle: 119.6°  
 V Angle: 96.4°  
 Lumens: 9273.1  
 Efficiency: 97.4%

**Spill:**  
 Lumens: 245.9  
 Efficiency: 2.6%

— 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°	0.0	2.2	5.2	5.2	5.9	7.4	9.6	11.1	12.5	13.2	14.0
75°	0.0	0.8	2.2	3.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4
65°	0.0	0.0	1.5	2.2	2.9	2.9	3.6	3.6	3.6	3.6	2.9
55°	44.2	42.7	44.2	44.2	44.2	43.5	40.6	36.8	34.6	35.4	32.4
47.5°	148.1	148.8	147.4	144.4	143.0	141.4	138.4	135.6	128.9	126.1	123.7
42.5°	531.2	582.8	570.4	615.9	599.0	641.7	704.4	756.0	758.9	415.6	618.1
37.5°	3158.0	3170.5	3180.7	3210.2	3197.0	3212.5	3181.5	3117.4	3019.4	2979.6	2998.8
33°	5251.1	5227.6	5237.9	5271.2	5292.4	5317.5	5280.7	5214.3	5092.0	5006.5	4966.1
29°	5842.0	5840.5	5833.2	5814.8	5795.0	5777.3	5755.2	5732.3	5702.8	5664.5	5562.9
25.5°	5638.7	5629.1	5615.2	5585.0	5569.5	5554.7	5533.3	5512.0	5479.6	5433.9	5337.4
22.5°	5273.3	5267.4	5259.3	5233.5	5212.9	5196.6	5175.3	5165.7	5142.9	5116.3	5049.2
19.5°	4985.2	4979.3	4980.0	4967.5	4953.5	4932.9	4907.0	4883.5	4864.3	4850.4	4812.7
17°	4802.4	4793.6	4795.1	4791.5	4777.4	4753.9	4730.2	4698.6	4672.8	4657.2	4626.5
15°	4686.1	4679.3	4681.7	4673.5	4658.1	4635.2	4612.3	4584.3	4557.8	4527.6	4496.0
13°	4581.5	4574.7	4576.3	4568.9	4553.4	4535.7	4518.0	4492.2	4472.3	4443.6	4410.5
11°	4507.7	4503.3	4498.9	4494.4	4480.5	4463.6	4448.0	4426.7	4409.7	4384.0	4359.6
9°	4415.7	4418.6	4414.2	4411.9	4401.7	4387.0	4374.3	4359.6	4349.4	4334.7	4326.5
7°	4374.3	4376.7	4372.2	4369.9	4362.5	4354.4	4342.7	4333.8	4333.8	4336.1	4342.1
5°	4342.1	4344.2	4342.7	4343.4	4344.2	4340.5	4336.8	4339.0	4353.0	4364.8	4368.4
3°	4330.2	4330.9	4336.1	4341.2	4348.6	4355.2	4363.3	4376.7	4393.5	4394.3	4388.4
1°	4364.1	4362.5	4378.0	4391.4	4404.5	4414.9	4416.4	4411.3	4411.9	4403.9	4440.7
0°	4407.5	4404.5	4420.1	4426.7	4439.9	4443.6	4430.4	4417.8	4407.5	4389.1	4449.5
-1°	4452.4	4451.0	4459.2	4459.8	4466.5	4462.0	4437.7	4417.8	4396.5	4363.3	4377.2
-3°	4508.5	4509.9	4507.7	4498.9	4497.4	4475.3	4438.5	4407.5	4370.7	4319.8	4288.1
-5°	4494.4	4493.8	4485.7	4473.9	4457.6	4430.4	4384.0	4344.2	4297.1	4239.6	4208.6
-7°	4418.6	4420.8	4405.3	4397.1	4361.9	4321.4	4268.2	4220.4	4179.8	4140.8	4126.9
-9°	4287.4	4291.9	4269.1	4265.3	4214.4	4169.6	4131.3	4096.7	4075.2	4054.5	4047.3
-11°	4106.2	4112.1	4097.3	4105.4	4072.4	4055.3	4037.6	4015.5	3998.6	3981.7	3966.2
-13°	3980.2	3983.1	3976.5	3975.8	3962.5	3958.8	3949.9	3937.4	3924.2	3904.3	3883.6
-15°	3907.3	3910.2	3904.3	3900.6	3893.2	3891.0	3882.9	3866.8	3849.0	3823.2	3790.8
-17°	3837.3	3843.1	3836.6	3832.2	3824.8	3818.8	3812.9	3795.2	3771.7	3741.5	3688.4
-19.5°	3614.8	3623.5	3616.2	3614.8	3615.4	3619.1	3618.4	3604.4	3595.6	3580.0	3532.3
-22.5°	3412.1	3415.8	3414.3	3415.8	3418.0	3419.5	3418.0	3412.1	3403.3	3384.1	3334.7
-25.5°	3317.1	3319.3	3317.1	3317.8	3314.9	3312.7	3306.8	3295.6	3284.7	3264.8	3216.9
-29°	3182.3	3185.2	3184.5	3183.6	3180.7	3171.9	3159.4	3143.9	3128.5	3104.1	3058.5
-33°	3054.7	3057.0	3055.6	3050.3	3043.7	3033.4	3018.6	2998.1	2974.4	2944.2	2894.8
-37.5°	2930.9	2927.3	2928.1	2921.4	2914.0	2902.3	2887.5	2869.0	2841.0	2808.0	2760.8
-42.5°	2753.5	2738.0	2733.6	2707.0	2699.6	2669.4	2659.8	2642.9	2625.2	2628.9	2573.7
-47.5°	1830.9	1805.9	1814.0	1791.8	1805.9	1790.4	1804.5	1777.1	1781.6	1780.8	1756.5
-55°	397.9	393.4	407.5	421.4	431.8	436.1	420.8	406.7	411.9	445.8	429.6
-65°	293.3	292.5	292.5	291.0	288.8	287.3	288.1	289.5	289.5	294.0	304.3
-75°	44.2	43.5	44.2	43.5	40.6	42.0	45.7	44.2	45.7	45.7	45.7
-85°	14.0	14.0	13.2	15.5	16.3	19.1	22.1	23.6	25.0	25.9	25.9
-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°	14.7	14.7	15.5	15.5	14.7	14.7	14.7	14.7	14.7	15.5	16.3
75°	5.2	5.9	6.6	8.1	8.8	10.3	10.3	11.8	13.2	14.7	16.3
65°	2.9	2.2	2.2	2.2	2.9	3.6	5.9	8.1	11.1	13.2	15.5
55°	26.5	17.6	8.1	7.4	7.4	6.6	5.9	6.6	11.1	13.2	15.5
47.5°	101.7	67.8	41.2	33.8	31.0	25.0	22.8	23.6	19.9	14.0	16.3
42.5°	162.1	162.8	133.4	410.5	347.1	135.6	140.8	96.5	28.0	16.3	17.0
37.5°	2966.3	2749.7	2687.1	2529.4	2318.8	1683.6	1511.9	145.2	36.2	20.6	18.5
33°	4906.4	4682.3	4362.5	4291.9	3924.2	3226.4	2319.5	808.2	44.9	24.3	19.1
29°	5373.4	5169.4	4962.3	4726.7	4476.1	3948.5	2875.8	1075.7	53.7	28.0	20.6
25.5°	5193.8	5037.5	4861.5	4662.4	4514.3	4207.8	3269.9	1268.0	62.6	33.2	21.5
22.5°	4910.8	4759.7	4618.2	4481.3	4399.5	4213.0	3423.9	1397.7	72.2	39.0	22.8
19.5°	4692.7	4551.3	4423.7	4325.0	4292.5	4129.7	3465.2	1503.8	81.1	44.2	23.6
17°	4515.1	4394.3	4301.5	4240.3	4206.4	4010.4	3461.5	1591.5	89.9	46.4	23.6
15°	4400.2	4290.3	4224.7	4185.7	4124.5	3902.2	3439.3	1668.9	97.3	48.7	24.3
13°	4330.9	4247.6	4195.3	4136.4	4021.5	3790.2	3411.4	1749.9	102.4	50.1	24.3
11°	4291.9	4226.3	4177.0	4067.8	3910.2	3711.2	3387.9	1834.6	105.4	51.5	25.0
9°	4277.1	4210.0	4128.3	3980.9	3829.8	3656.8	3366.4	1929.7	107.5	53.1	25.0
7°	4300.7	4227.7	4104.8	3931.6	3763.6	3618.4	3350.9	2024.7	109.0	54.5	25.0
5°	4321.4	4251.3	4100.2	3879.2	3706.1	3580.0	3336.2	2118.3	110.5	56.1	25.9
3°	4336.1	4264.7	4093.6	3826.2	3656.8	3544.0	3324.4	2205.2	111.2	56.7	25.9
1°	4378.0	4257.2	4072.4	3782.7	3619.9	3517.6	3311.9	2284.8	109.8	56.7	25.9
0°	4350.0	4236.6	4050.9	3764.3	3600.7	3505.7	3306.0	2319.5	109.8	56.1	25.9
-1°	4293.3	4209.4	4025.9	3746.7	3583.8	3494.6	3303.0	2354.0	109.0	56.1	25.9
-3°	4208.6	4143.0	3973.5	3714.2	3544.8	3463.6	3295.0	2413.8	108.4	55.3	25.0
-5°	4135.7	4079.7	3917.5	3668.5	3495.3	3421.7	3273.5	2452.0	107.5	54.5	25.0
-7°	4073.0	3998.6	3839.5	3605.2	3439.3	3369.4	3250.7	2475.6	106.8	53.7	25.0
-9°	3993.4	3901.3	3739.3	3532.3	3377.5	3306.0	3219.1	2478.6	106.2	53.1	24.3
-11°	3905.0	3801.1	3642.1	3456.3	3317.8	3245.7	3178.5	2459.4	105.4	51.5	23.6
-13°	3808.5	3695.1	3549.2	3385.5	3255.9	3186.6	3135.1	2413.8	104.6	51.5	23.6
-15°	3702.5	3588.2	3454.1	3317.8	3199.9	3121.1	3085.0	2345.2	104.6	50.9	22.8
-17°	3588.2	3467.4	3351.7	3241.2	3135.1	3056.2	3027.5	2251.0	103.1	50.1	22.1
-19.5°	3435.0	3323.7	3230.1	3141.7	3044.4	2973.1	2951.6	2094.7	101.0	49.3	21.5
-22.5°	3239.7	3135.8	3059.1	3000.3	2936.1	2884.5	2880.1	1888.5	97.3	47.9	20.6
-25.5°	3130.6	3036.3	2962.7	2899.2	2849.9	2824.9	2816.7	1679.9	92.8	46.4	19.1
-29°	2987.8	2907.5	2839.6	2773.3	2730.6	2732.1	2738.6	1437.4	89.1	43.5	18.5
-33°	2829.3	2761.5	2693.0	2620.8	2575.1	2578.7	2588.4	1168.6	89.9	39.8	17.6
-37.5°	2702.6	2637.8	2556.0	2465.3	2388.7	2385.0	2352.6	158.4	92.1	34.6	17.0
-42.5°	2510.2	2483.8	2373.3	2295.1	2153.7	2026.9	1850.1	156.3	88.4	28.0	17.0
-47.5°	1714.6	1679.9	1646.8	1607.7	1477.4	1280.6	1007.9	146.6	78.1	21.5	16.3
-55°	461.2	458.2	473.7	433.3	357.3	137.8	142.2	92.1	51.5	17.0	16.3
-65°	325.7	330.1	259.4	137.8	96.5	67.8	96.5	55.3	28.0	16.3	16.3
-75°	45.7	42.0	31.0	33.8	35.4	35.4	33.2	21.5	17.6	17.0	16.3
-85°	25.9	25.9	25.0	24.3	23.6	22.1	21.5	19.9	19.1	17.6	17.0
-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)