

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: P393745

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

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393745  
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-TS2  
Description: FLOODLIGHT WITH TOP AND SIDE VISORS  
Light Source: (2) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

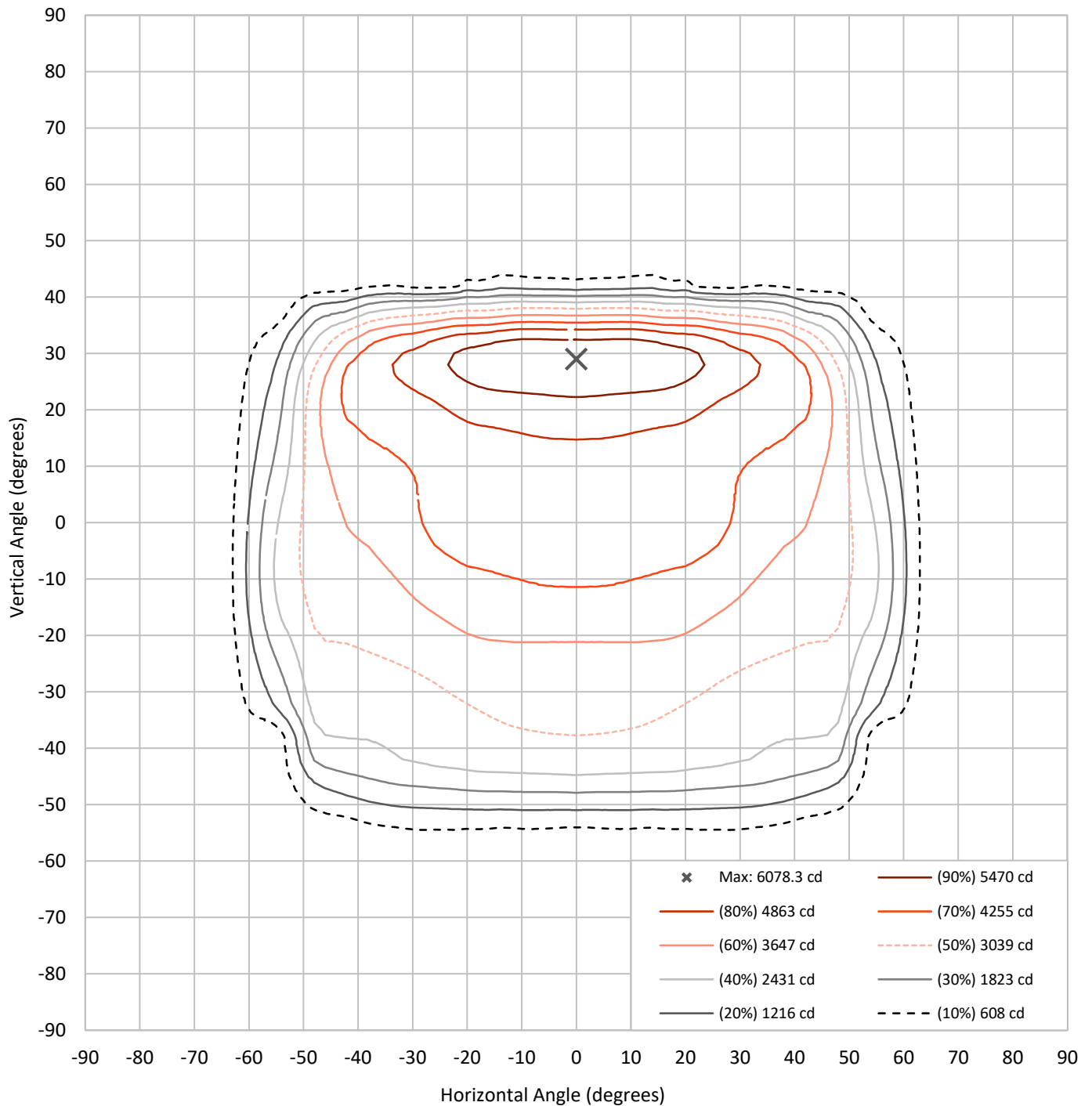
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	9904 lumens	Max Intensity:	6078.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	116.5 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	94.6°H x 75.7°V	Field Angle (10%):	119.6°H x 96.4°V
Beam Lumens:	7318.3 lumens	Field Lumens:	9648.2 lumens
Beam Efficiency:	73.9%	Field Efficiency:	97.4%
Input Watts (W):	85		
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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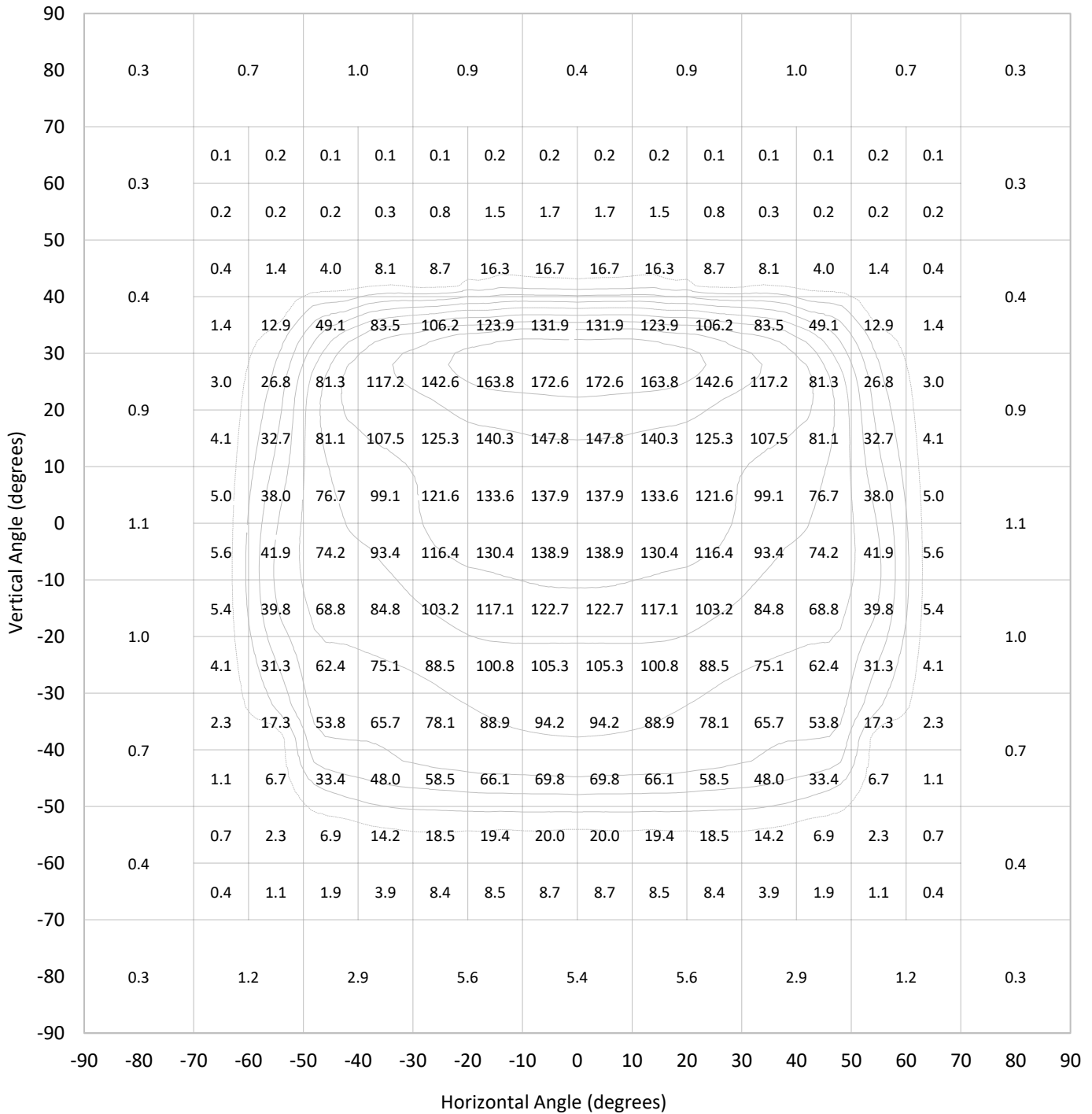
### Iso-Candela Plot





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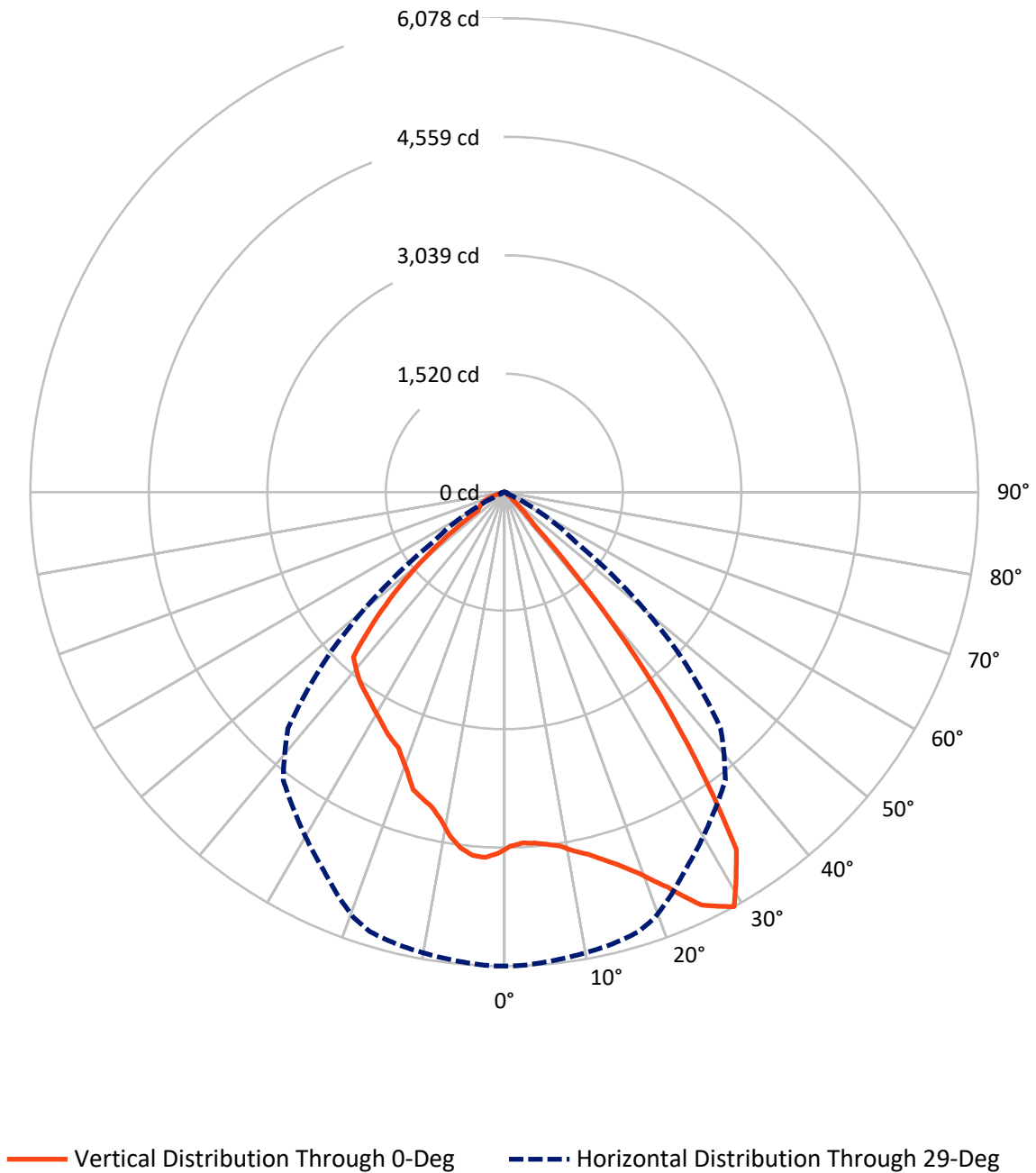
### Lumen Table



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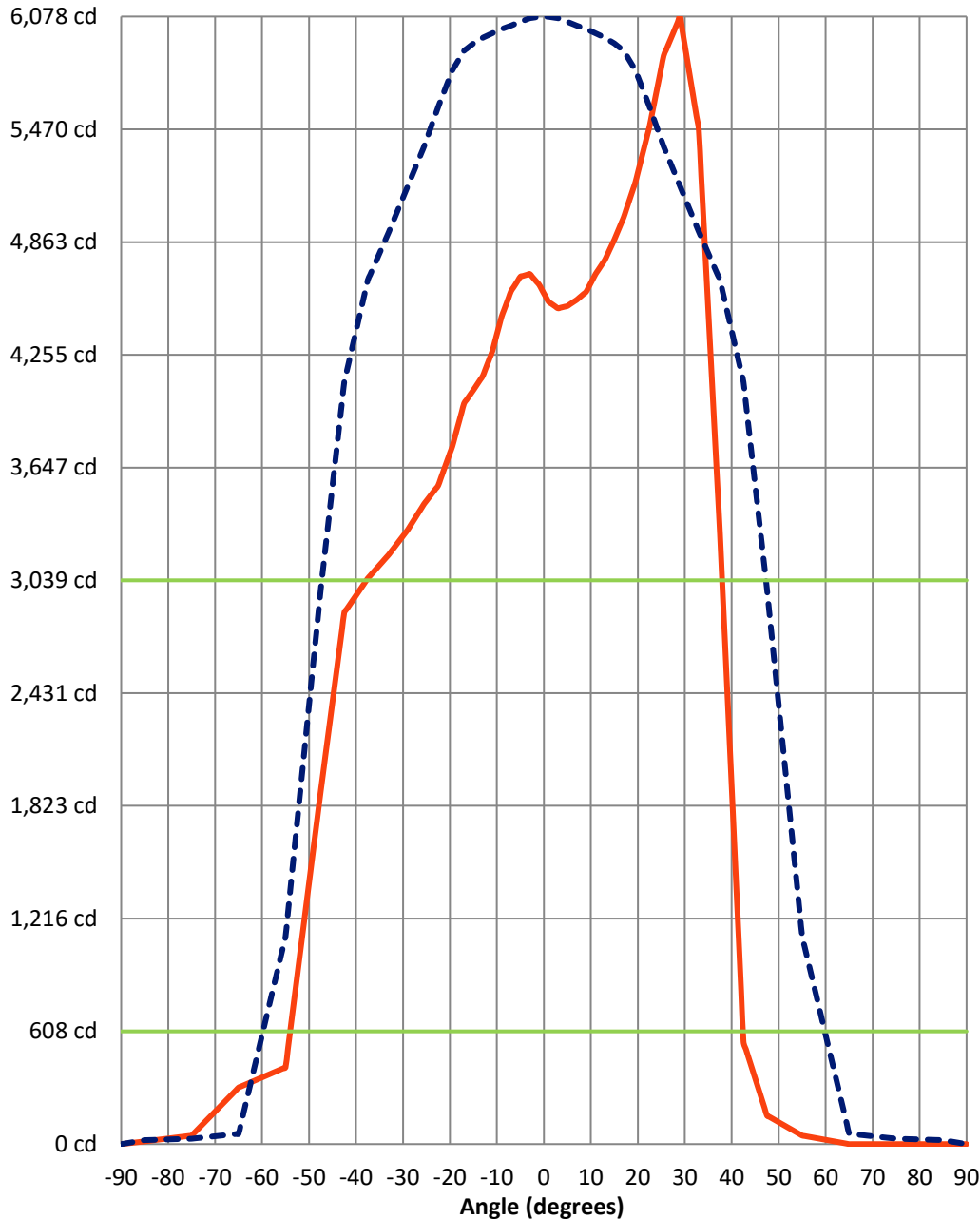
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 94.6°  
 V Angle: 75.7°  
 Lumens: 7318.3  
 Efficiency: 73.9%

**Field:**  
 H Angle: 119.6°  
 V Angle: 96.4°  
 Lumens: 9648.2  
 Efficiency: 97.4%

**Spill:**  
 Lumens: 255.8  
 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	2.3	5.4	5.4	6.1	7.7	10.0	11.5	13.0	13.7	14.6
75°	0.0	0.8	2.3	3.8	4.6	4.6	4.6	4.6	4.6	4.6	4.6
65°	0.0	0.0	1.6	2.3	3.0	3.0	3.8	3.8	3.8	3.8	3.0
55°	46.0	44.4	46.0	46.0	46.0	45.2	42.2	38.3	36.0	36.8	33.7
47.5°	154.1	154.9	153.4	150.3	148.8	147.2	144.0	141.1	134.2	131.2	128.7
42.5°	552.7	606.3	593.4	640.8	623.2	667.7	732.9	786.6	789.6	432.4	643.1
37.5°	3285.7	3298.7	3309.4	3340.0	3326.3	3342.4	3310.2	3243.5	3141.5	3100.1	3120.1
33°	5463.5	5439.0	5449.7	5484.4	5506.4	5532.6	5494.2	5425.2	5298.0	5209.0	5166.9
29°	6078.3	6076.8	6069.2	6050.0	6029.4	6011.0	5987.9	5964.1	5933.4	5893.6	5787.9
25.5°	5866.8	5856.8	5842.3	5810.9	5794.8	5779.3	5757.1	5734.9	5701.2	5653.7	5553.3
22.5°	5486.5	5480.4	5472.0	5445.1	5423.7	5406.8	5384.6	5374.6	5350.9	5323.3	5253.4
19.5°	5186.8	5180.7	5181.4	5168.4	5153.8	5132.4	5105.5	5081.0	5061.1	5046.6	5007.3
17°	4996.6	4987.4	4989.0	4985.3	4970.6	4946.1	4921.5	4888.6	4861.8	4845.6	4813.6
15°	4875.6	4868.6	4871.0	4862.5	4846.5	4822.7	4798.9	4769.8	4742.1	4710.7	4677.8
13°	4766.8	4759.7	4761.4	4753.6	4737.5	4719.1	4700.7	4673.9	4653.2	4623.3	4588.9
11°	4690.0	4685.4	4680.8	4676.2	4661.7	4644.1	4627.9	4605.7	4588.1	4561.3	4536.0
9°	4594.3	4597.3	4592.7	4590.4	4579.7	4564.4	4551.3	4536.0	4525.3	4510.0	4501.5
7°	4551.3	4553.7	4549.1	4546.7	4539.0	4530.6	4518.4	4509.0	4509.0	4511.5	4517.7
5°	4517.7	4519.9	4518.4	4519.1	4519.9	4516.1	4512.2	4514.5	4529.1	4541.4	4545.1
3°	4505.4	4506.1	4511.5	4516.8	4524.5	4531.4	4539.8	4553.7	4571.2	4572.0	4565.9
1°	4540.6	4539.0	4555.1	4569.0	4582.7	4593.5	4595.0	4589.7	4590.4	4582.0	4620.3
0°	4585.8	4582.7	4598.9	4605.7	4619.5	4623.3	4609.6	4596.5	4585.8	4566.6	4629.5
-1°	4632.5	4631.0	4639.5	4640.2	4647.1	4642.5	4617.2	4596.5	4574.3	4539.8	4554.3
-3°	4690.8	4692.3	4690.0	4680.8	4679.3	4656.3	4618.0	4585.8	4547.5	4494.6	4461.5
-5°	4676.2	4675.5	4667.1	4654.8	4637.9	4609.6	4561.3	4519.9	4470.8	4411.0	4378.8
-7°	4597.3	4599.6	4583.5	4575.0	4538.3	4496.2	4440.8	4391.1	4348.9	4308.3	4293.8
-9°	4460.8	4465.4	4441.7	4437.8	4384.9	4338.2	4298.4	4262.4	4240.1	4218.5	4210.9
-11°	4272.3	4278.4	4263.1	4271.5	4237.1	4219.3	4200.9	4177.9	4160.3	4142.7	4126.6
-13°	4141.2	4144.2	4137.3	4136.6	4122.8	4118.9	4109.7	4096.7	4082.9	4062.2	4040.7
-15°	4065.3	4068.4	4062.2	4058.4	4050.7	4048.4	4040.0	4023.2	4004.7	3977.8	3944.1
-17°	3992.5	3998.6	3991.8	3987.2	3979.5	3973.2	3967.1	3948.7	3924.2	3892.8	3837.6
-19.5°	3761.0	3770.1	3762.5	3761.0	3761.7	3765.5	3764.8	3750.2	3741.1	3724.8	3675.1
-22.5°	3550.1	3554.0	3552.4	3554.0	3556.3	3557.8	3556.3	3550.1	3541.0	3521.0	3469.5
-25.5°	3451.2	3453.5	3451.2	3451.9	3448.9	3446.6	3440.5	3428.9	3417.5	3396.8	3347.0
-29°	3311.0	3314.0	3313.3	3312.4	3309.4	3300.2	3287.2	3271.1	3255.1	3229.7	3182.3
-33°	3178.2	3180.6	3179.1	3173.6	3166.8	3156.1	3140.7	3119.3	3094.7	3063.3	3011.9
-37.5°	3049.5	3045.7	3046.5	3039.6	3031.9	3019.7	3004.3	2985.1	2955.9	2921.5	2872.4
-42.5°	2864.8	2848.7	2844.1	2816.5	2808.8	2777.4	2767.4	2749.8	2731.4	2735.3	2677.7
-47.5°	1904.9	1878.9	1887.3	1864.3	1878.9	1862.8	1877.4	1849.0	1853.6	1852.8	1827.5
-55°	414.0	409.4	424.0	438.5	449.3	453.8	437.8	423.2	428.6	463.8	447.0
-65°	305.1	304.3	304.3	302.8	300.5	298.9	299.7	301.2	301.2	305.9	316.6
-75°	46.0	45.2	46.0	45.2	42.2	43.7	47.5	46.0	47.5	47.5	47.5
-85°	14.6	14.6	13.7	16.1	16.9	19.9	23.0	24.5	26.0	26.9	26.9
-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°	15.3	15.3	16.1	16.1	15.3	15.3	15.3	15.3	15.3	16.1	16.9
75°	5.4	6.1	6.9	8.4	9.2	10.7	10.7	12.3	13.7	15.3	16.9
65°	3.0	2.3	2.3	2.3	3.0	3.8	6.1	8.4	11.5	13.7	16.1
55°	27.6	18.3	8.4	7.7	7.7	6.9	6.1	6.9	11.5	13.7	16.1
47.5°	105.8	70.5	42.9	35.2	32.2	26.0	23.7	24.5	20.7	14.6	16.9
42.5°	168.7	169.4	138.8	427.1	361.2	141.1	146.5	100.4	29.1	16.9	17.7
37.5°	3086.3	2860.9	2795.8	2631.7	2412.5	1751.7	1573.0	151.1	37.6	21.4	19.2
33°	5104.8	4871.7	4539.0	4465.4	4082.9	3356.9	2413.4	840.9	46.7	25.3	19.9
29°	5590.8	5378.5	5163.0	4917.8	4657.1	4108.2	2992.1	1119.2	55.9	29.1	21.4
25.5°	5403.8	5241.2	5058.1	4851.0	4696.9	4378.0	3402.1	1319.3	65.1	34.5	22.3
22.5°	5109.4	4952.2	4805.0	4662.5	4577.4	4383.4	3562.4	1454.3	75.1	40.6	23.7
19.5°	4882.5	4735.4	4602.6	4500.0	4466.1	4296.8	3605.3	1564.6	84.3	46.0	24.5
17°	4697.7	4572.0	4475.5	4411.8	4376.5	4172.6	3601.5	1655.8	93.5	48.3	24.5
15°	4578.2	4463.8	4395.6	4355.0	4291.4	4060.0	3578.4	1736.4	101.2	50.6	25.3
13°	4506.1	4419.4	4365.0	4303.7	4184.1	3943.4	3549.4	1820.7	106.5	52.1	25.3
11°	4465.4	4397.2	4345.9	4232.3	4068.4	3861.3	3524.9	1908.8	109.6	53.6	26.0
9°	4450.1	4380.3	4295.3	4141.9	3984.7	3804.7	3502.6	2007.8	111.8	55.2	26.0
7°	4474.6	4398.7	4270.8	4090.6	3915.8	3764.8	3486.5	2106.6	113.4	56.7	26.0
5°	4496.2	4423.2	4266.1	4036.1	3856.0	3724.8	3471.2	2204.0	114.9	58.3	26.9
3°	4511.5	4437.1	4259.2	3981.0	3804.7	3687.3	3458.8	2294.4	115.7	59.0	26.9
1°	4555.1	4429.4	4237.1	3935.7	3766.3	3659.8	3445.8	2377.2	114.2	59.0	26.9
0°	4526.0	4407.9	4214.7	3916.5	3746.4	3647.5	3439.7	2413.4	114.2	58.3	26.9
-1°	4466.9	4379.6	4188.7	3898.2	3728.8	3635.9	3436.6	2449.3	113.4	58.3	26.9
-3°	4378.8	4310.6	4134.2	3864.4	3688.1	3603.7	3428.2	2511.4	112.8	57.5	26.0
-5°	4303.0	4244.7	4076.0	3816.9	3636.7	3560.1	3405.9	2551.2	111.8	56.7	26.0
-7°	4237.8	4160.3	3994.8	3751.0	3578.4	3505.7	3382.2	2575.7	111.1	55.9	26.0
-9°	4154.9	4059.1	3890.5	3675.1	3514.1	3439.7	3349.3	2578.8	110.5	55.2	25.3
-11°	4063.0	3954.8	3789.4	3596.1	3451.9	3376.9	3307.1	2558.9	109.6	53.6	24.5
-13°	3962.5	3844.5	3692.7	3522.5	3387.6	3315.5	3261.9	2511.4	108.8	53.6	24.5
-15°	3852.2	3733.4	3593.8	3451.9	3329.3	3247.4	3209.8	2440.0	108.8	52.9	23.7
-17°	3733.4	3607.6	3487.3	3372.3	3261.9	3179.8	3149.9	2342.0	107.2	52.1	23.0
-19.5°	3573.9	3458.2	3360.7	3268.8	3167.5	3093.3	3071.0	2179.5	105.0	51.3	22.3
-22.5°	3370.7	3262.7	3182.8	3121.6	3054.9	3001.2	2996.6	1964.9	101.2	49.8	21.4
-25.5°	3257.3	3159.1	3082.5	3016.5	2965.1	2939.1	2930.6	1747.9	96.5	48.3	19.9
-29°	3108.6	3025.1	2954.4	2885.4	2841.0	2842.6	2849.4	1495.6	92.7	45.2	19.2
-33°	2943.7	2873.2	2801.9	2726.8	2679.2	2683.0	2693.0	1215.9	93.5	41.4	18.3
-37.5°	2811.9	2744.5	2659.3	2565.0	2485.3	2481.5	2447.8	164.8	95.8	36.0	17.7
-42.5°	2611.7	2584.2	2469.3	2387.9	2240.8	2108.9	1925.0	162.6	91.9	29.1	17.7
-47.5°	1783.9	1747.9	1713.4	1672.8	1537.1	1332.4	1048.7	152.6	81.2	22.3	16.9
-55°	479.9	476.8	492.9	450.8	371.7	143.4	148.0	95.8	53.6	17.7	16.9
-65°	338.8	343.4	269.9	143.4	100.4	70.5	100.4	57.5	29.1	16.9	16.9
-75°	47.5	43.7	32.2	35.2	36.8	36.8	34.5	22.3	18.3	17.7	16.9
-85°	26.9	26.9	26.0	25.3	24.5	23.0	22.3	20.7	19.9	18.3	17.7
-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)