

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: P393739

Luminaire Tested: **NFFLD-C25-D-UNV-66-7050-TS2**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393739
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-66-7050-TS2
Description: FLOODLIGHT WITH TOP AND SIDE VISORS
Light Source: (2) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

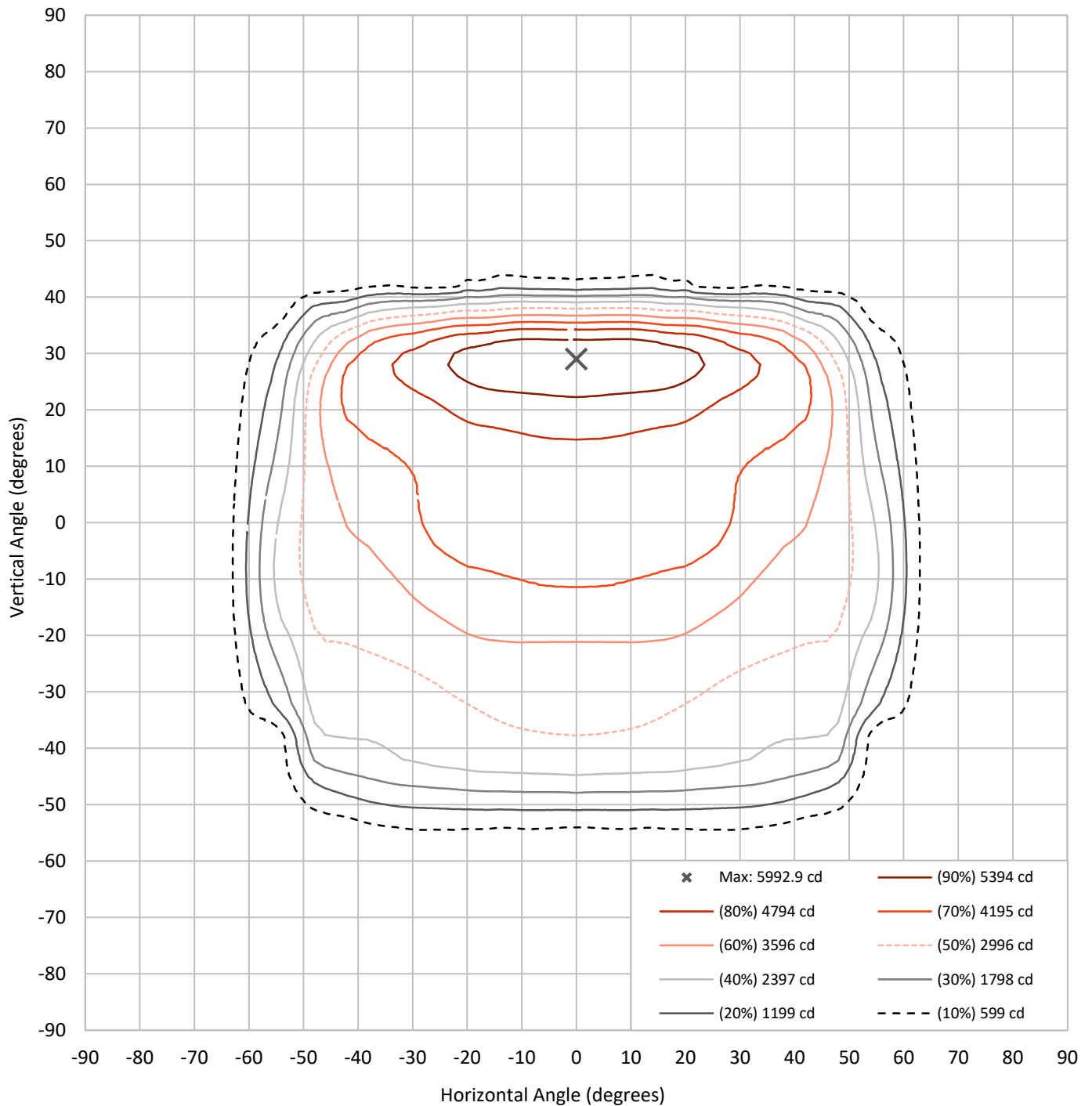
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	9765 lumens	Max Intensity:	5992.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	114.9 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	94.6°H x 75.7°V	Field Angle (10%):	119.6°H x 96.4°V
Beam Lumens:	7215.6 lumens	Field Lumens:	9512.8 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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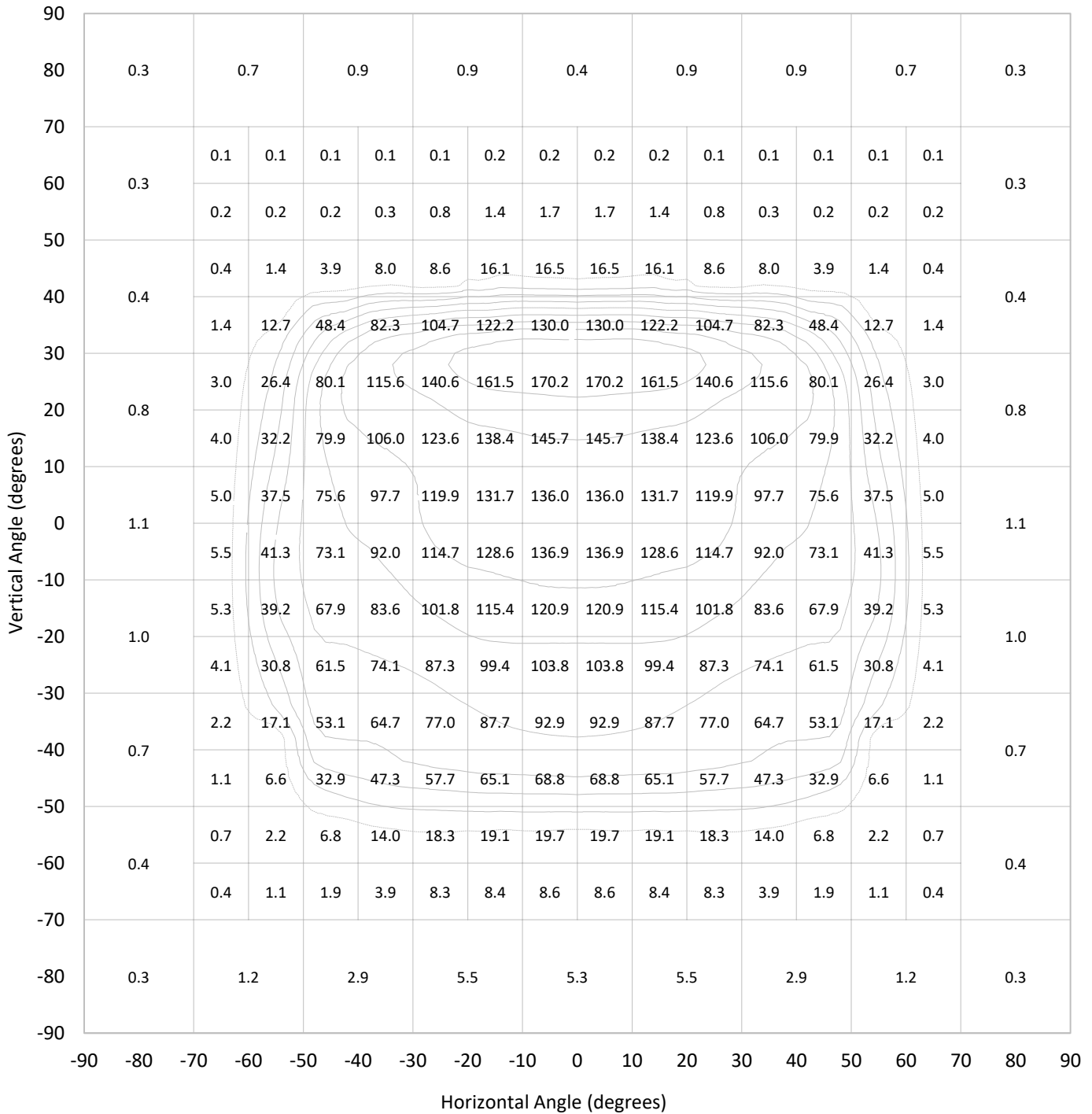
Iso-Candela Plot





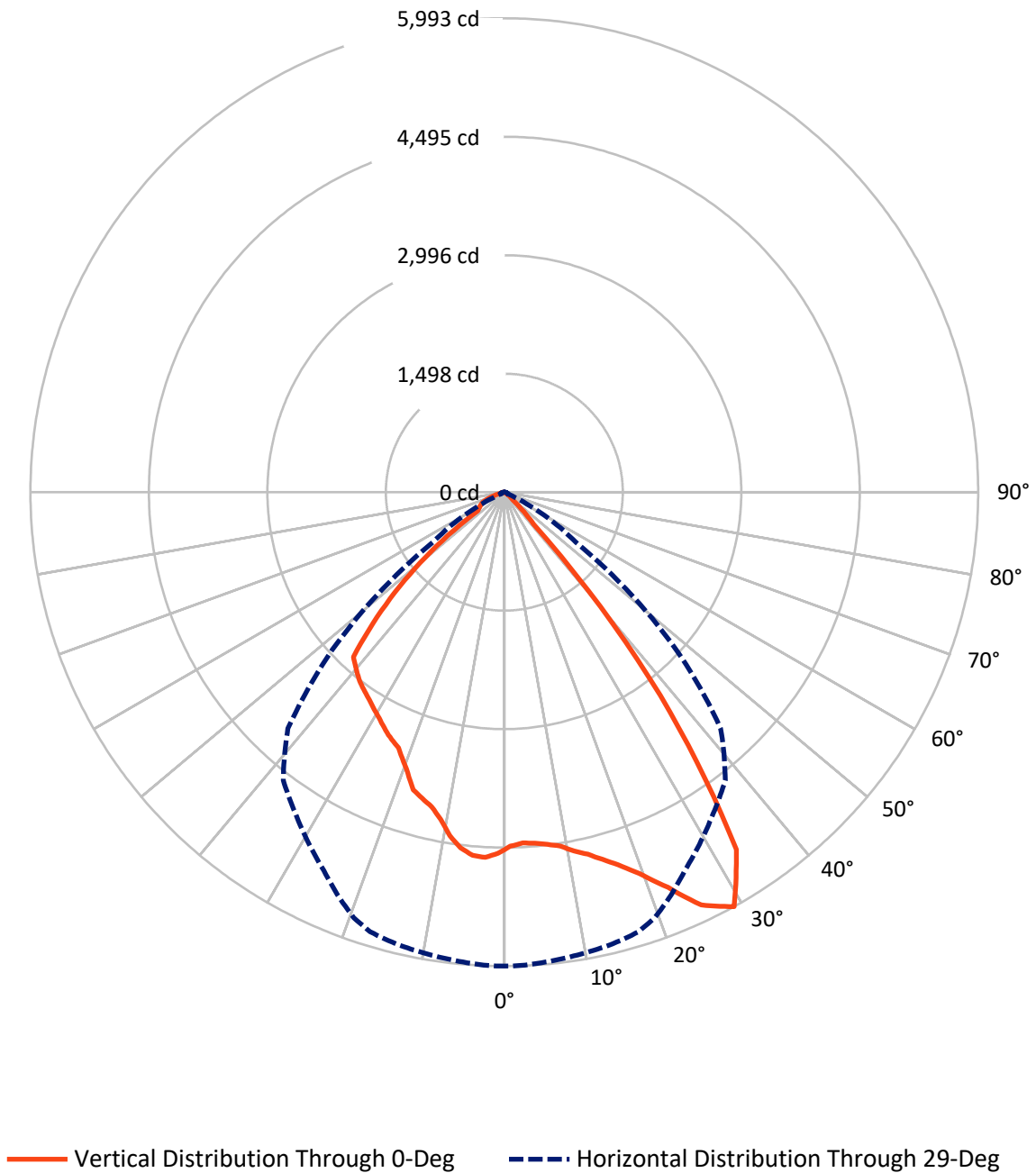
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Lumen Table



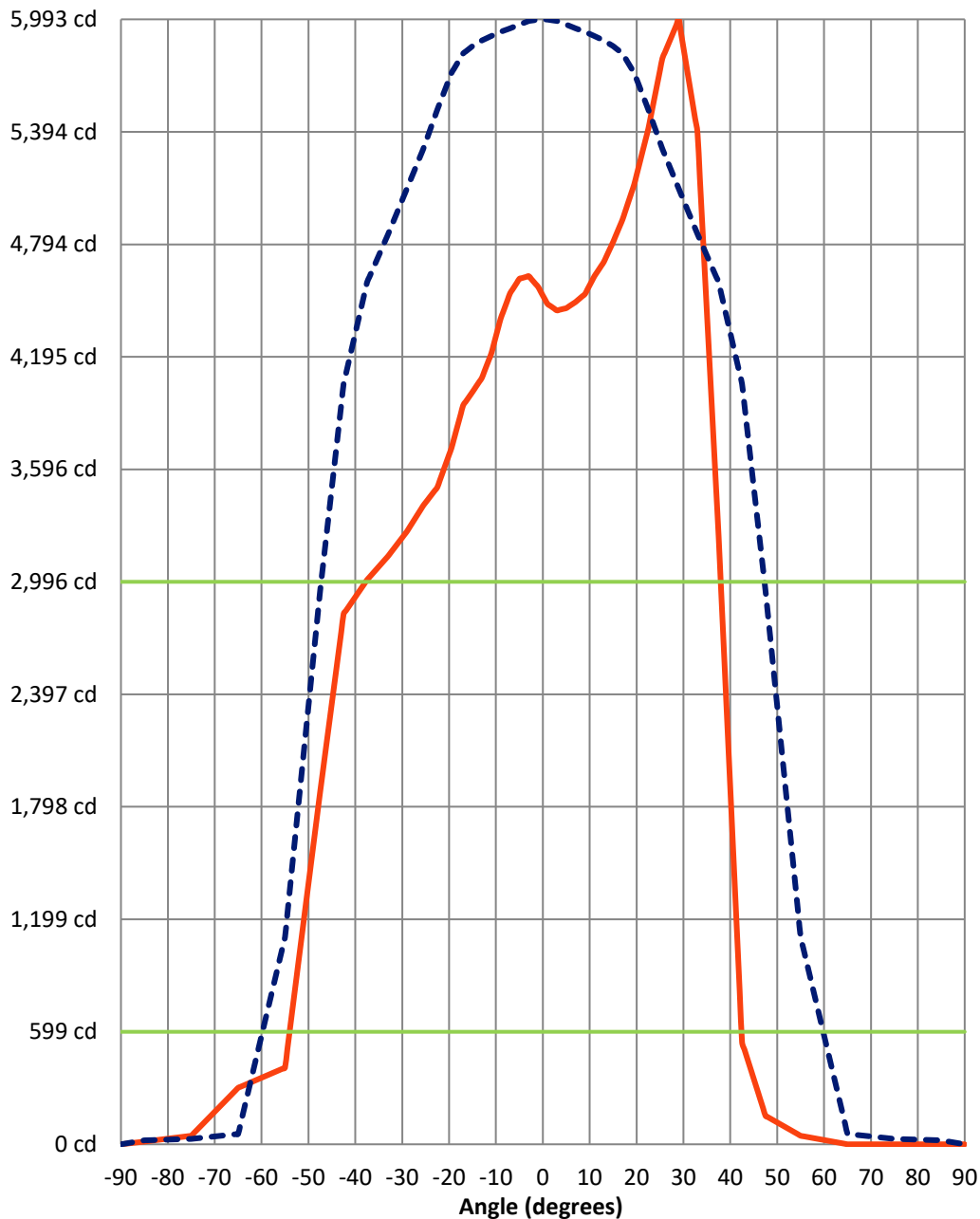
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 94.6°
 V Angle: 75.7°
 Lumens: 7215.6
 Efficiency: 73.9%

Field:
 H Angle: 119.6°
 V Angle: 96.4°
 Lumens: 9512.8
 Efficiency: 97.4%

Spill:
 Lumens: 252.2
 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	5.3	5.3	6.0	7.6	9.9	11.3	12.8	13.5	14.4
75°	0.0	0.8	2.3	3.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	0.0	0.0	1.6	2.3	2.9	2.9	3.7	3.7	3.7	3.7	2.9
55°	45.4	43.8	45.4	45.4	45.4	44.6	41.6	37.8	35.5	36.3	33.2
47.5°	151.9	152.7	151.2	148.2	146.7	145.1	142.0	139.1	132.3	129.3	126.9
42.5°	545.0	597.8	585.1	631.9	614.5	658.3	722.6	775.6	778.5	426.3	634.1
37.5°	3239.6	3252.4	3262.9	3293.1	3279.6	3295.5	3263.7	3197.9	3097.4	3056.6	3076.3
33°	5386.8	5362.7	5373.2	5407.4	5429.2	5454.9	5417.1	5349.1	5223.6	5135.9	5094.4
29°	5992.9	5991.5	5984.0	5965.0	5944.7	5926.6	5903.9	5880.4	5850.1	5810.9	5706.6
25.5°	5784.5	5774.6	5760.3	5729.3	5713.4	5698.2	5676.3	5654.4	5621.2	5574.4	5475.3
22.5°	5409.5	5403.5	5395.2	5368.7	5347.6	5330.9	5309.0	5299.2	5275.8	5248.6	5179.7
19.5°	5114.0	5108.0	5108.7	5095.9	5081.5	5060.4	5033.8	5009.7	4990.0	4975.7	4937.1
17°	4926.5	4917.4	4919.0	4915.3	4900.9	4876.7	4852.4	4820.0	4793.6	4777.6	4746.0
15°	4807.2	4800.3	4802.6	4794.2	4778.5	4755.0	4731.5	4702.8	4675.6	4644.6	4612.2
13°	4699.9	4692.9	4694.5	4686.9	4671.1	4652.9	4634.8	4608.3	4587.9	4558.4	4524.5
11°	4624.2	4619.7	4615.1	4610.6	4596.3	4578.9	4562.9	4541.1	4523.7	4497.3	4472.3
9°	4529.8	4532.8	4528.2	4526.0	4515.4	4500.3	4487.4	4472.3	4461.8	4446.7	4438.3
7°	4487.4	4489.8	4485.2	4482.9	4475.3	4467.0	4455.0	4445.8	4445.8	4448.1	4454.3
5°	4454.3	4456.4	4455.0	4455.6	4456.4	4452.7	4448.8	4451.1	4465.5	4477.6	4481.3
3°	4442.1	4442.8	4448.1	4453.4	4461.0	4467.8	4476.1	4489.8	4507.0	4507.8	4501.8
1°	4476.8	4475.3	4491.1	4504.9	4518.4	4529.0	4530.5	4525.3	4526.0	4517.7	4555.5
0°	4521.4	4518.4	4534.4	4541.1	4554.7	4558.4	4544.9	4532.0	4521.4	4502.5	4564.5
-1°	4567.5	4566.0	4574.4	4575.1	4581.9	4577.4	4552.4	4532.0	4510.1	4476.1	4490.3
-3°	4625.0	4626.5	4624.2	4615.1	4613.7	4591.0	4553.2	4521.4	4483.7	4431.5	4398.9
-5°	4610.6	4609.9	4601.6	4589.5	4572.8	4544.9	4497.3	4456.4	4408.1	4349.1	4317.4
-7°	4532.8	4535.0	4519.2	4510.8	4474.6	4433.1	4378.5	4329.5	4287.9	4247.8	4233.5
-9°	4398.2	4402.8	4379.4	4375.5	4323.4	4277.3	4238.1	4202.6	4180.5	4159.3	4151.8
-11°	4212.3	4218.3	4203.2	4211.5	4177.6	4160.1	4142.0	4119.3	4101.9	4084.6	4068.7
-13°	4083.1	4086.1	4079.2	4078.6	4065.0	4061.1	4052.0	4039.2	4025.6	4005.2	3984.0
-15°	4008.2	4011.3	4005.2	4001.4	3993.8	3991.6	3983.3	3966.7	3948.4	3922.0	3888.8
-17°	3936.4	3942.4	3935.7	3931.2	3923.6	3917.5	3911.5	3893.3	3869.2	3838.2	3783.7
-19.5°	3708.2	3717.1	3709.7	3708.2	3708.9	3712.6	3711.9	3697.5	3688.6	3672.6	3623.6
-22.5°	3500.3	3504.1	3502.5	3504.1	3506.4	3507.9	3506.4	3500.3	3491.3	3471.6	3420.8
-25.5°	3402.8	3405.1	3402.8	3403.5	3400.5	3398.3	3392.3	3380.8	3369.6	3349.2	3300.0
-29°	3264.5	3267.5	3266.8	3265.9	3262.9	3253.9	3241.0	3225.2	3209.4	3184.3	3137.6
-33°	3133.6	3136.0	3134.5	3129.1	3122.4	3111.8	3096.6	3075.5	3051.3	3020.3	2969.6
-37.5°	3006.7	3002.9	3003.7	2996.9	2989.3	2977.3	2962.1	2943.2	2914.5	2880.5	2832.1
-42.5°	2824.6	2808.7	2804.2	2777.0	2769.4	2738.4	2728.5	2711.2	2693.0	2696.9	2640.2
-47.5°	1878.2	1852.6	1860.8	1838.2	1852.6	1836.7	1851.1	1823.1	1827.6	1826.8	1801.9
-55°	408.2	403.6	418.0	432.3	443.0	447.4	431.6	417.2	422.6	457.3	440.7
-65°	300.8	300.0	300.0	298.6	296.3	294.7	295.5	297.0	297.0	301.6	312.2
-75°	45.4	44.6	45.4	44.6	41.6	43.1	46.9	45.4	46.9	46.9	46.9
-85°	14.4	14.4	13.5	15.9	16.7	19.6	22.7	24.2	25.6	26.5	26.5
-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):

	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°	15.1	15.1	15.9	15.9	15.1	15.1	15.1	15.1	15.1	15.9	16.7
75°	5.3	6.0	6.8	8.3	9.1	10.5	10.5	12.1	13.5	15.1	16.7
65°	2.9	2.3	2.3	2.3	2.9	3.7	6.0	8.3	11.3	13.5	15.9
55°	27.2	18.0	8.3	7.6	7.6	6.8	6.0	6.8	11.3	13.5	15.9
47.5°	104.4	69.5	42.3	34.7	31.8	25.6	23.4	24.2	20.4	14.4	16.7
42.5°	166.3	167.0	136.8	421.1	356.1	139.1	144.4	99.0	28.7	16.7	17.5
37.5°	3043.0	2820.8	2756.6	2594.8	2378.7	1727.1	1550.9	148.9	37.1	21.1	18.9
33°	5033.1	4803.3	4475.3	4402.8	4025.6	3309.8	2379.5	829.1	46.1	25.0	19.6
29°	5512.3	5303.0	5090.5	4848.8	4591.8	4050.5	2950.1	1103.5	55.1	28.7	21.1
25.5°	5328.0	5167.7	4987.1	4782.9	4631.0	4316.6	3354.4	1300.8	64.2	34.0	22.0
22.5°	5037.7	4882.7	4737.5	4597.1	4513.1	4321.9	3512.4	1433.9	74.1	40.0	23.4
19.5°	4814.0	4668.9	4538.0	4436.8	4403.5	4236.5	3554.7	1542.6	83.2	45.4	24.2
17°	4631.8	4507.8	4412.6	4349.9	4315.1	4114.1	3551.0	1632.6	92.2	47.6	24.2
15°	4513.9	4401.2	4333.9	4293.9	4231.1	4003.0	3528.2	1712.0	99.8	49.9	25.0
13°	4442.8	4357.4	4303.7	4243.3	4125.4	3888.1	3499.6	1795.2	105.0	51.4	25.0
11°	4402.8	4335.5	4284.9	4172.9	4011.3	3807.1	3475.4	1882.1	108.1	52.9	25.6
9°	4387.7	4318.8	4235.0	4083.8	3928.8	3751.3	3453.4	1979.6	110.3	54.5	25.6
7°	4411.8	4337.0	4210.8	4033.2	3860.9	3711.9	3437.5	2077.1	111.9	55.9	25.6
5°	4433.1	4361.1	4206.2	3979.4	3801.9	3672.6	3422.4	2173.0	113.3	57.5	26.5
3°	4448.1	4374.9	4199.4	3925.1	3751.3	3635.6	3410.3	2262.2	114.1	58.2	26.5
1°	4491.1	4367.3	4177.6	3880.5	3713.4	3608.5	3397.5	2343.9	112.6	58.2	26.5
0°	4462.4	4346.1	4155.6	3861.6	3693.8	3596.3	3391.5	2379.5	112.6	57.5	26.5
-1°	4404.2	4318.1	4130.0	3843.5	3676.4	3584.9	3388.4	2414.9	111.9	57.5	26.5
-3°	4317.4	4250.1	4076.2	3810.2	3636.4	3553.1	3380.1	2476.1	111.2	56.7	25.6
-5°	4242.6	4185.1	4018.8	3763.3	3585.7	3510.1	3358.1	2515.4	110.3	55.9	25.6
-7°	4178.3	4101.9	3938.7	3698.3	3528.2	3456.5	3334.7	2539.5	109.6	55.1	25.6
-9°	4096.6	4002.1	3835.9	3623.6	3464.7	3391.5	3302.3	2542.6	108.9	54.5	25.0
-11°	4006.0	3899.3	3736.2	3545.6	3403.5	3329.5	3260.7	2523.0	108.1	52.9	24.2
-13°	3906.9	3790.5	3640.9	3473.0	3340.1	3269.0	3216.1	2476.1	107.3	52.9	24.2
-15°	3798.1	3681.0	3543.4	3403.5	3282.6	3201.8	3164.7	2405.8	107.3	52.2	23.4
-17°	3681.0	3557.0	3438.3	3325.0	3216.1	3135.2	3105.7	2309.2	105.7	51.4	22.7
-19.5°	3523.7	3409.6	3313.5	3222.9	3123.1	3049.9	3027.9	2148.9	103.6	50.6	22.0
-22.5°	3323.4	3216.9	3138.2	3077.8	3012.0	2959.0	2954.5	1937.3	99.8	49.1	21.1
-25.5°	3211.6	3114.8	3039.2	2974.1	2923.5	2897.9	2889.5	1723.4	95.2	47.6	19.6
-29°	3065.0	2982.6	2913.0	2844.9	2801.1	2802.7	2809.4	1474.6	91.4	44.6	18.9
-33°	2902.4	2832.9	2762.6	2688.5	2641.6	2645.4	2655.3	1198.8	92.2	40.8	18.0
-37.5°	2772.4	2706.0	2622.0	2529.0	2450.4	2446.6	2413.4	162.4	94.5	35.5	17.5
-42.5°	2575.1	2547.9	2434.6	2354.4	2209.3	2079.3	1897.9	160.3	90.6	28.7	17.5
-47.5°	1758.9	1723.4	1689.3	1649.3	1515.5	1313.7	1034.0	150.4	80.1	22.0	16.7
-55°	473.2	470.1	486.0	444.5	366.5	141.3	145.9	94.5	52.9	17.5	16.7
-65°	334.1	338.6	266.1	141.3	99.0	69.5	99.0	56.7	28.7	16.7	16.7
-75°	46.9	43.1	31.8	34.7	36.3	36.3	34.0	22.0	18.0	17.5	16.7
-85°	26.5	26.5	25.6	25.0	24.2	22.7	22.0	20.4	19.6	18.0	17.5
-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)