

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: P393742

Luminaire Tested: **NFFLD-C25-D-UNV-66-7060-TS2**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393742
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-66-7060-TS2
Description: FLOODLIGHT WITH TOP AND SIDE VISORS
Light Source: (2) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

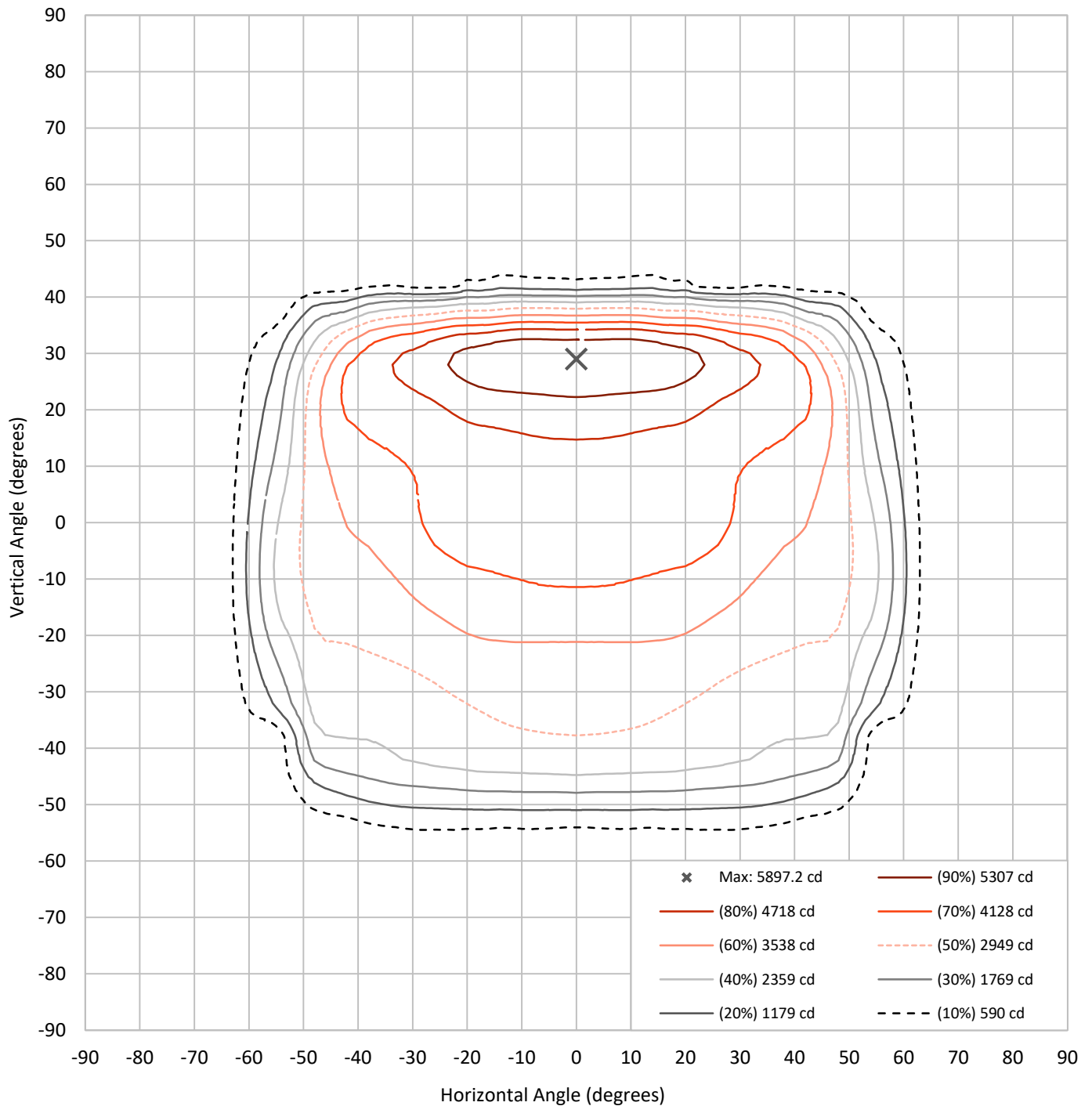
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	9609 lumens	Max Intensity:	5897.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	113.0 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	94.6°H x 75.7°V	Field Angle (10%):	119.6°H x 96.4°V
Beam Lumens:	7100.3 lumens	Field Lumens:	9360.8 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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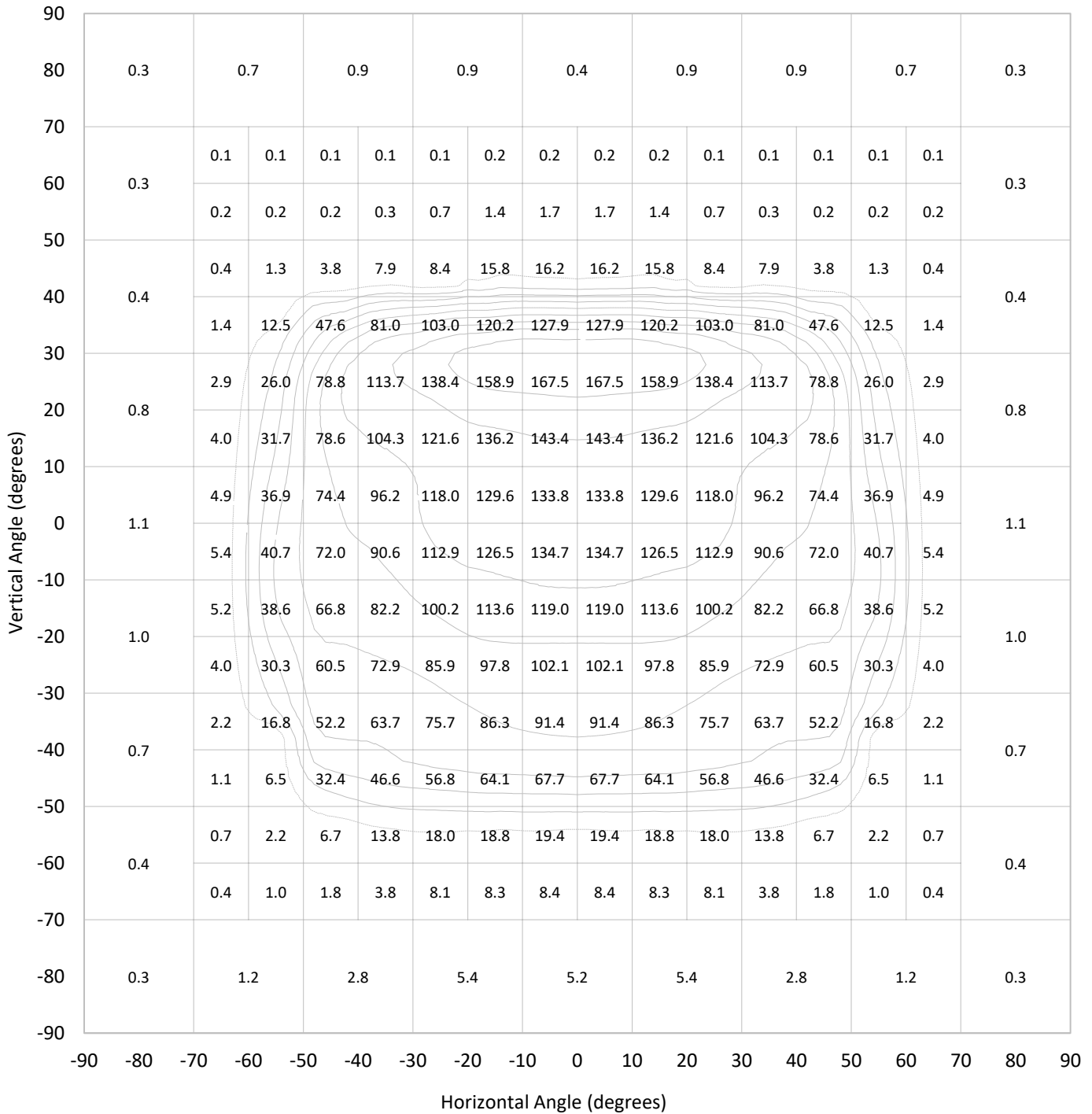
Iso-Candela Plot





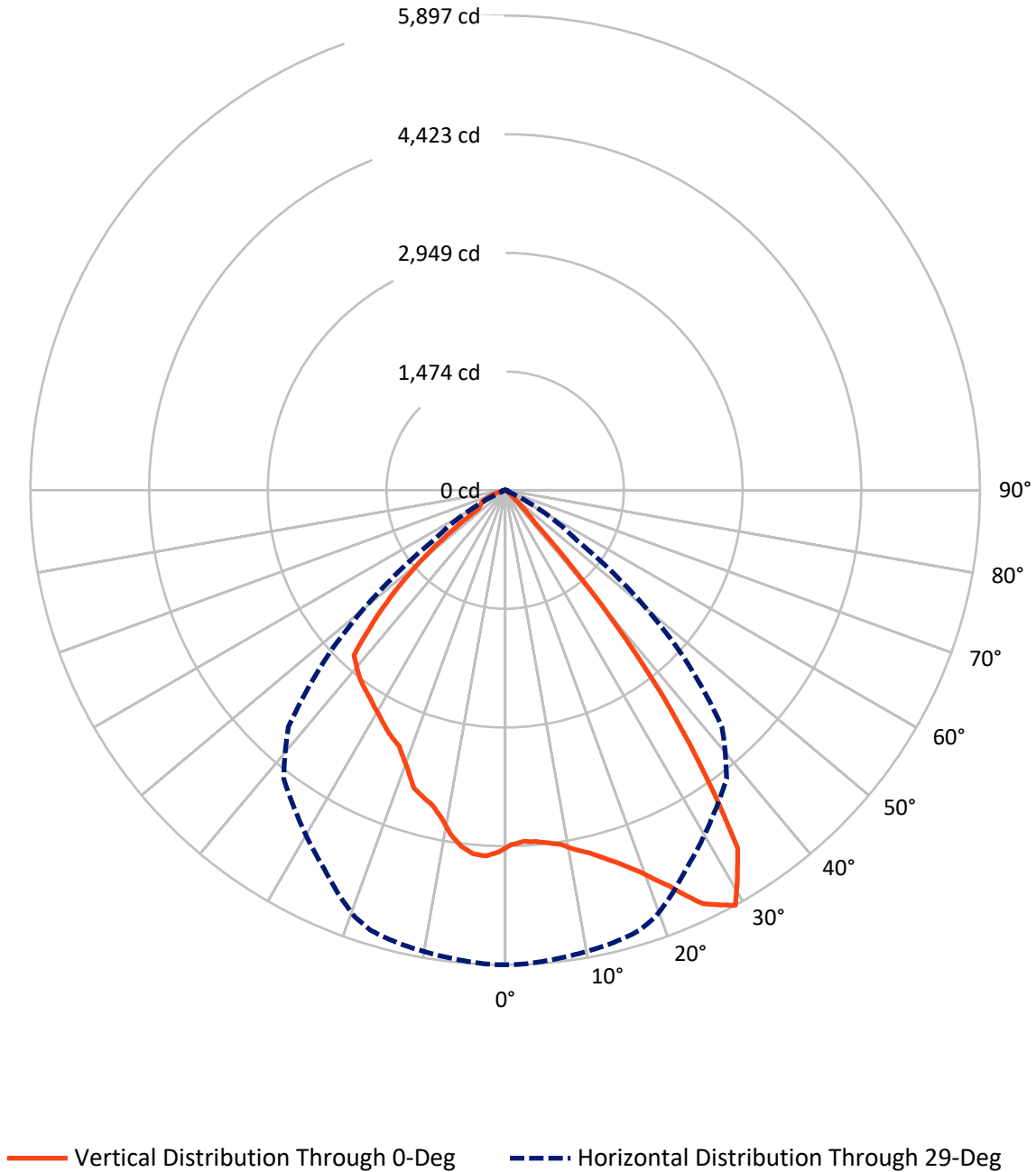
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Lumen Table



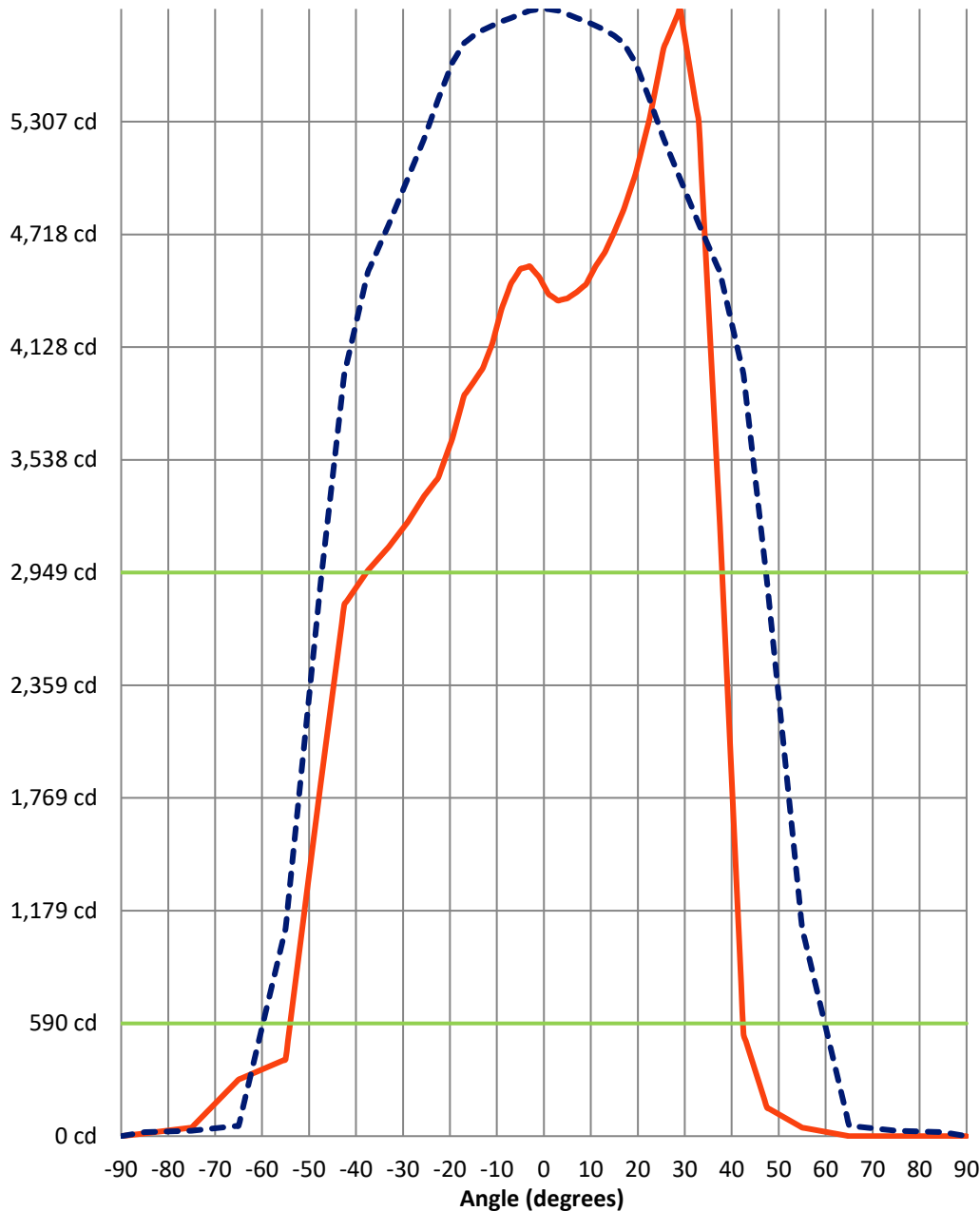
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 94.6°
 V Angle: 75.7°
 Lumens: 7100.3
 Efficiency: 73.9%

Field:
 H Angle: 119.6°
 V Angle: 96.4°
 Lumens: 9360.8
 Efficiency: 97.4%

Spill:
 Lumens: 248.2
 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	2.2	5.2	5.2	5.9	7.5	9.7	11.2	12.6	13.3	14.2
75°	0.0	0.8	2.2	3.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	0.0	0.0	1.6	2.2	2.9	2.9	3.7	3.7	3.7	3.7	2.9
55°	44.7	43.1	44.7	44.7	44.7	43.9	41.0	37.2	34.9	35.7	32.7
47.5°	149.5	150.2	148.8	145.8	144.3	142.8	139.8	136.9	130.2	127.3	124.9
42.5°	536.3	588.3	575.8	621.8	604.7	647.8	711.1	763.2	766.1	419.5	624.0
37.5°	3187.8	3200.4	3210.8	3240.5	3227.2	3242.9	3211.6	3146.9	3048.0	3007.8	3027.2
33°	5300.8	5277.0	5287.4	5321.0	5342.4	5367.8	5330.6	5263.6	5140.2	5053.9	5013.0
29°	5897.2	5895.8	5888.4	5869.7	5849.8	5831.9	5809.6	5786.5	5756.7	5718.0	5615.5
25.5°	5692.0	5682.3	5668.3	5637.8	5622.2	5607.2	5585.7	5564.1	5531.4	5485.3	5387.9
22.5°	5323.1	5317.2	5309.1	5282.9	5262.2	5245.8	5224.2	5214.5	5191.5	5164.7	5097.0
19.5°	5032.3	5026.4	5027.1	5014.5	5000.3	4979.5	4953.4	4929.6	4910.3	4896.3	4858.2
17°	4847.8	4838.9	4840.4	4836.8	4822.6	4798.8	4774.9	4743.0	4717.0	4701.2	4670.2
15°	4730.4	4723.6	4725.9	4717.7	4702.1	4679.0	4655.9	4627.7	4600.9	4570.4	4538.5
13°	4624.8	4618.0	4619.5	4612.1	4596.4	4578.6	4560.7	4534.7	4514.6	4485.6	4452.2
11°	4550.3	4545.9	4541.4	4536.9	4522.9	4505.8	4490.1	4468.5	4451.4	4425.4	4400.9
9°	4457.5	4460.4	4455.9	4453.7	4443.3	4428.4	4415.7	4400.9	4390.5	4375.6	4367.4
7°	4415.7	4418.1	4413.6	4411.2	4403.8	4395.6	4383.8	4374.7	4374.7	4377.1	4383.1
5°	4383.1	4385.2	4383.8	4384.5	4385.2	4381.5	4377.8	4380.0	4394.2	4406.1	4409.7
3°	4371.2	4371.8	4377.1	4382.2	4389.7	4396.4	4404.5	4418.1	4435.0	4435.8	4429.9
1°	4405.3	4403.8	4419.4	4432.9	4446.2	4456.7	4458.1	4453.0	4453.7	4445.5	4482.7
0°	4449.2	4446.2	4461.9	4468.5	4481.9	4485.6	4472.3	4459.6	4449.2	4430.6	4491.6
-1°	4494.5	4493.1	4501.3	4502.0	4508.7	4504.2	4479.7	4459.6	4438.0	4404.5	4418.6
-3°	4551.1	4552.6	4550.3	4541.4	4539.9	4517.6	4480.5	4449.2	4412.0	4360.7	4328.6
-5°	4536.9	4536.3	4528.1	4516.2	4499.8	4472.3	4425.4	4385.2	4337.7	4279.6	4248.4
-7°	4460.4	4462.6	4447.0	4438.7	4403.1	4362.2	4308.5	4260.3	4219.4	4180.0	4165.9
-9°	4328.0	4332.4	4309.4	4305.6	4254.3	4209.0	4170.4	4135.4	4113.8	4092.9	4085.5
-11°	4145.0	4150.9	4136.1	4144.2	4110.9	4093.7	4075.8	4053.5	4036.4	4019.3	4003.7
-13°	4017.9	4020.8	4014.1	4013.4	4000.0	3996.2	3987.3	3974.7	3961.3	3941.2	3920.3
-15°	3944.2	3947.2	3941.2	3937.5	3930.0	3927.8	3919.6	3903.3	3885.4	3859.4	3826.7
-17°	3873.5	3879.5	3872.9	3868.4	3860.9	3854.9	3849.0	3831.1	3807.3	3776.9	3723.3
-19.5°	3648.9	3657.8	3650.4	3648.9	3649.6	3653.3	3652.6	3638.5	3629.6	3613.9	3565.7
-22.5°	3444.3	3448.1	3446.6	3448.1	3450.4	3451.8	3450.4	3444.3	3435.5	3416.1	3366.2
-25.5°	3348.4	3350.7	3348.4	3349.1	3346.2	3344.0	3338.1	3326.8	3315.7	3295.7	3247.3
-29°	3212.4	3215.3	3214.6	3213.7	3210.8	3201.9	3189.3	3173.6	3158.1	3133.5	3087.5
-33°	3083.6	3085.9	3084.5	3079.1	3072.5	3062.1	3047.2	3026.4	3002.5	2972.0	2922.1
-37.5°	2958.7	2955.0	2955.7	2949.1	2941.6	2929.7	2914.8	2896.1	2867.9	2834.5	2786.9
-42.5°	2779.5	2763.9	2759.4	2732.6	2725.1	2694.7	2684.9	2667.9	2650.0	2653.8	2598.0
-47.5°	1848.2	1823.0	1831.1	1808.8	1823.0	1807.3	1821.5	1793.9	1798.4	1797.6	1773.1
-55°	401.6	397.2	411.3	425.4	435.9	440.3	424.7	410.6	415.8	450.0	433.7
-65°	296.0	295.3	295.3	293.8	291.6	290.0	290.8	292.2	292.2	296.8	307.2
-75°	44.7	43.9	44.7	43.9	41.0	42.4	46.1	44.7	46.1	46.1	46.1
-85°	14.2	14.2	13.3	15.6	16.4	19.3	22.3	23.8	25.2	26.1	26.1
-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°	14.8	14.8	15.6	15.6	14.8	14.8	14.8	14.8	14.8	15.6	16.4
75°	5.2	5.9	6.7	8.1	8.9	10.4	10.4	11.9	13.3	14.8	16.4
65°	2.9	2.2	2.2	2.2	2.9	3.7	5.9	8.1	11.2	13.3	15.6
55°	26.8	17.7	8.1	7.5	7.5	6.7	5.9	6.7	11.2	13.3	15.6
47.5°	102.7	68.4	41.6	34.2	31.3	25.2	23.0	23.8	20.1	14.2	16.4
42.5°	163.6	164.3	134.6	414.4	350.4	136.9	142.1	97.4	28.2	16.4	17.2
37.5°	2994.4	2775.7	2712.5	2553.3	2340.7	1699.5	1526.2	146.6	36.5	20.8	18.6
33°	4952.7	4726.6	4403.8	4332.4	3961.3	3256.9	2341.5	815.9	45.3	24.6	19.3
29°	5424.2	5218.3	5009.2	4771.3	4518.4	3985.8	2902.9	1085.9	54.3	28.2	20.8
25.5°	5242.9	5085.1	4907.4	4706.5	4557.0	4247.6	3300.8	1280.0	63.2	33.5	21.7
22.5°	4957.2	4804.7	4661.8	4523.6	4441.0	4252.8	3456.3	1411.0	72.9	39.4	23.0
19.5°	4737.1	4594.3	4465.5	4365.9	4333.1	4168.8	3497.9	1518.0	81.8	44.7	23.8
17°	4557.8	4435.8	4342.1	4280.4	4246.1	4048.3	3494.2	1606.5	90.8	46.9	23.8
15°	4441.8	4330.9	4264.7	4225.3	4163.5	3939.1	3471.8	1684.7	98.2	49.1	24.6
13°	4371.8	4287.8	4235.0	4175.5	4059.5	3826.0	3443.7	1766.5	103.4	50.6	24.6
11°	4332.4	4266.2	4216.5	4106.3	3947.2	3746.3	3419.9	1852.0	106.4	52.0	25.2
9°	4317.6	4249.8	4167.3	4018.5	3866.1	3691.4	3398.2	1948.0	108.5	53.6	25.2
7°	4341.4	4267.7	4143.6	3968.8	3799.2	3652.6	3382.6	2043.9	110.1	55.0	25.2
5°	4362.2	4291.5	4139.0	3915.8	3741.2	3613.9	3367.8	2138.3	111.5	56.6	26.1
3°	4377.1	4305.0	4132.3	3862.4	3691.4	3577.5	3355.8	2226.0	112.3	57.3	26.1
1°	4419.4	4297.5	4110.9	3818.5	3654.1	3550.8	3343.2	2306.4	110.8	57.3	26.1
0°	4391.1	4276.6	4089.2	3799.9	3634.8	3538.9	3337.3	2341.5	110.8	56.6	26.1
-1°	4333.9	4249.2	4064.0	3782.1	3617.7	3527.6	3334.3	2376.3	110.1	56.6	26.1
-3°	4248.4	4182.2	4011.1	3749.3	3578.3	3496.4	3326.1	2436.6	109.4	55.8	25.2
-5°	4174.8	4118.2	3954.6	3703.2	3528.4	3454.0	3304.5	2475.2	108.5	55.0	25.2
-7°	4111.5	4036.4	3875.8	3639.2	3471.8	3401.2	3281.5	2499.0	107.8	54.3	25.2
-9°	4031.2	3938.2	3774.6	3565.7	3409.4	3337.3	3249.5	2502.0	107.2	53.6	24.6
-11°	3942.0	3837.0	3676.5	3489.0	3349.1	3276.3	3208.6	2482.7	106.4	52.0	23.8
-13°	3844.5	3730.0	3582.8	3417.5	3286.7	3216.7	3164.7	2436.6	105.6	52.0	23.8
-15°	3737.5	3622.2	3486.8	3349.1	3230.1	3150.6	3114.1	2367.4	105.6	51.3	23.0
-17°	3622.2	3500.1	3383.4	3271.9	3164.7	3085.1	3056.1	2272.3	104.0	50.6	22.3
-19.5°	3467.4	3355.1	3260.6	3171.4	3073.2	3001.2	2979.5	2114.5	101.9	49.8	21.7
-22.5°	3270.3	3165.5	3088.0	3028.6	2963.9	2911.8	2907.3	1906.4	98.2	48.3	20.8
-25.5°	3160.2	3065.0	2990.7	2926.6	2876.8	2851.6	2843.3	1695.8	93.7	46.9	19.3
-29°	3016.0	2935.0	2866.4	2799.5	2756.4	2757.9	2764.5	1451.0	90.0	43.9	18.6
-33°	2856.1	2787.6	2718.4	2645.5	2599.4	2603.1	2612.8	1179.7	90.8	40.2	17.7
-37.5°	2728.1	2662.7	2580.1	2488.6	2411.2	2407.6	2374.8	159.8	93.0	34.9	17.2
-42.5°	2533.9	2507.2	2395.7	2316.8	2174.0	2046.1	1867.6	157.7	89.2	28.2	17.2
-47.5°	1730.8	1695.8	1662.3	1622.9	1491.3	1292.7	1017.5	148.0	78.8	21.7	16.4
-55°	465.6	462.6	478.2	437.4	360.7	139.1	143.6	93.0	52.0	17.2	16.4
-65°	328.7	333.2	261.9	139.1	97.4	68.4	97.4	55.8	28.2	16.4	16.4
-75°	46.1	42.4	31.3	34.2	35.7	35.7	33.5	21.7	17.7	17.2	16.4
-85°	26.1	26.1	25.2	24.6	23.8	22.3	21.7	20.1	19.3	17.7	17.2
-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)