

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: P393760

Luminaire Tested: **NFFLD-C55-D-UNV-66-7030-TS2**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393760  
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-C55-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:	18247 lumens	Max Intensity:	11198.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	125.8 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:	13483.1 lumens	Field Lumens:	17775.7 lumens
Beam Efficiency:	73.9%	Field Efficiency:	97.4%

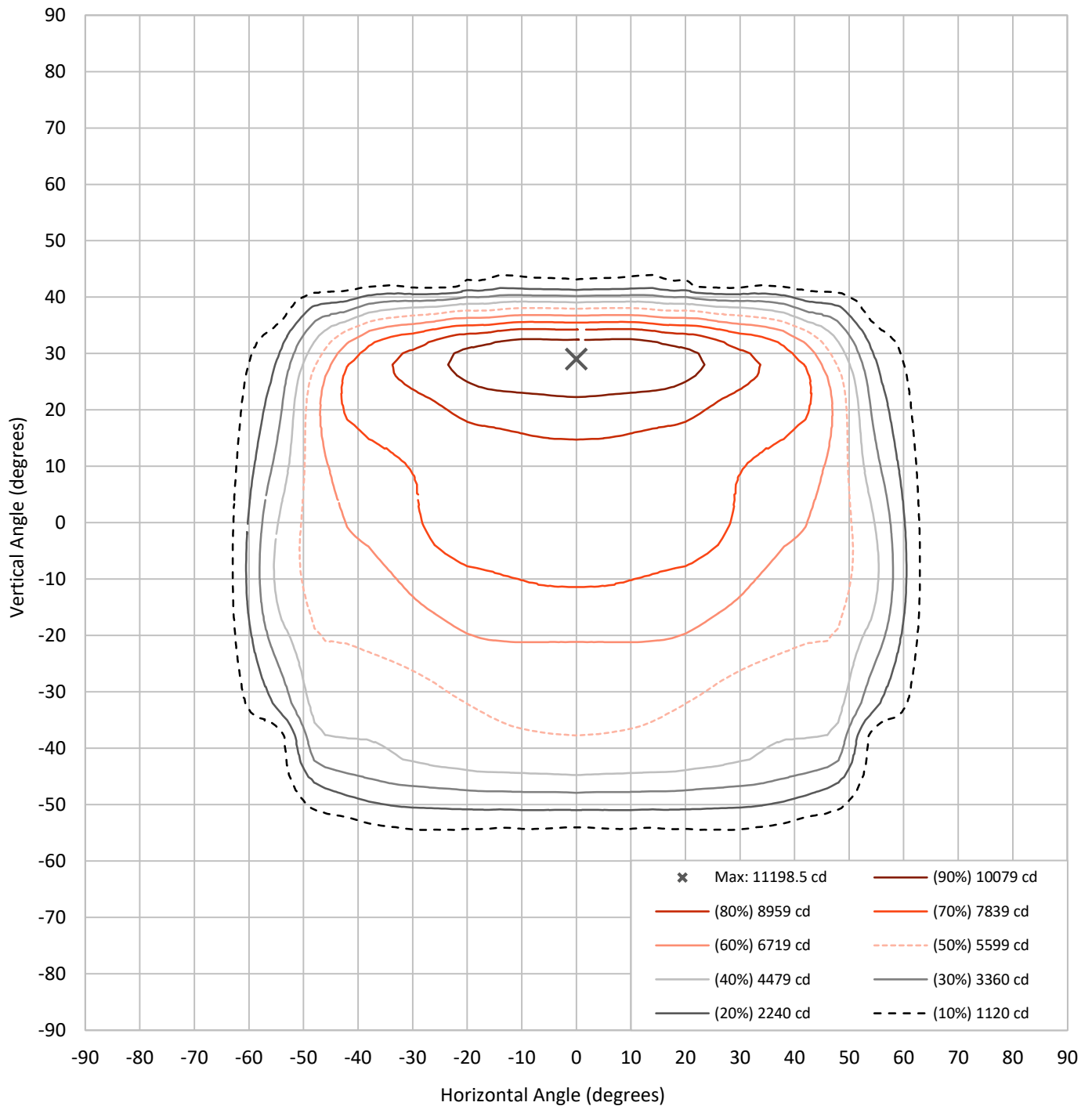
Input Watts (W): 145  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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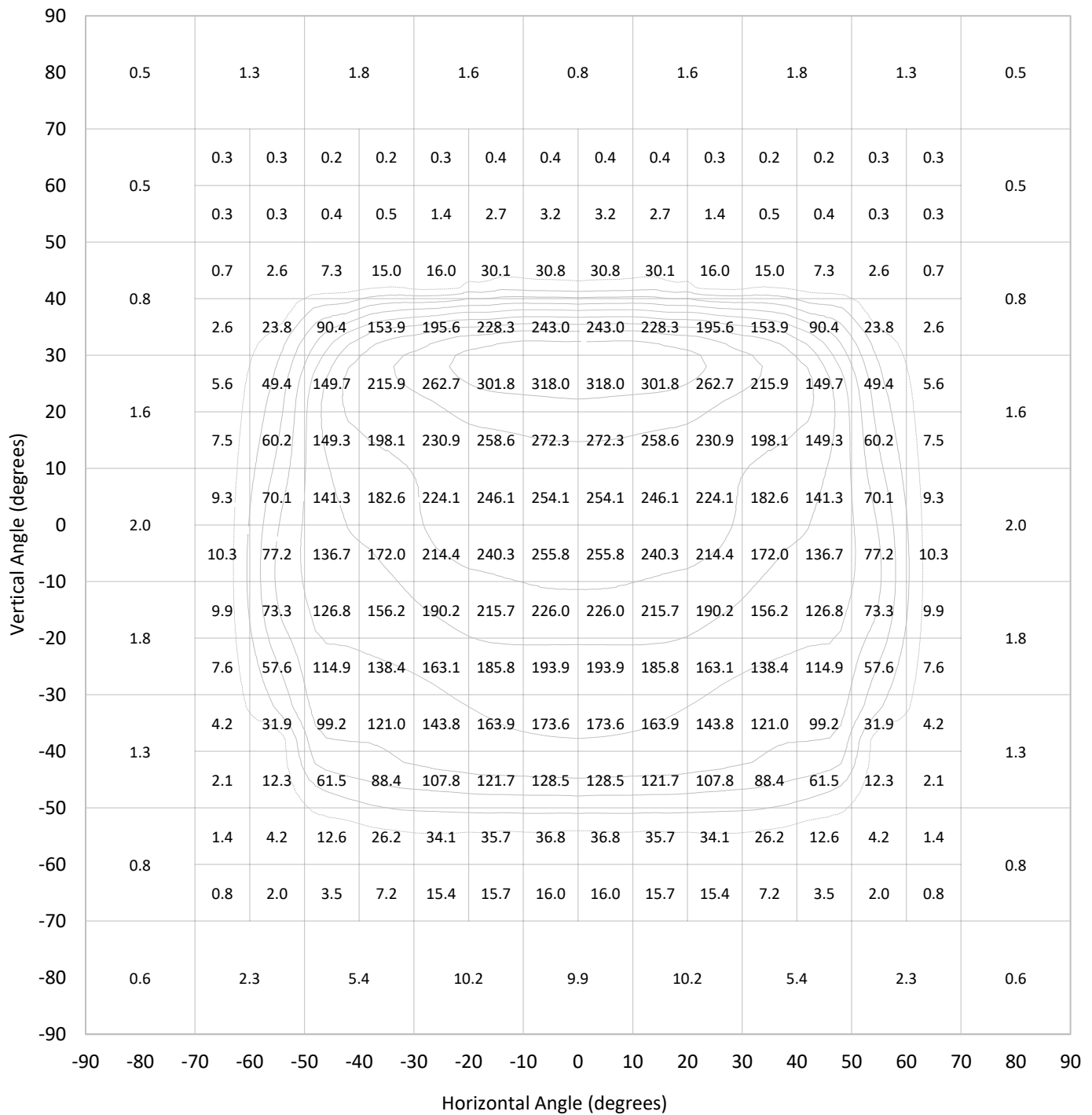
### Iso-Candela Plot





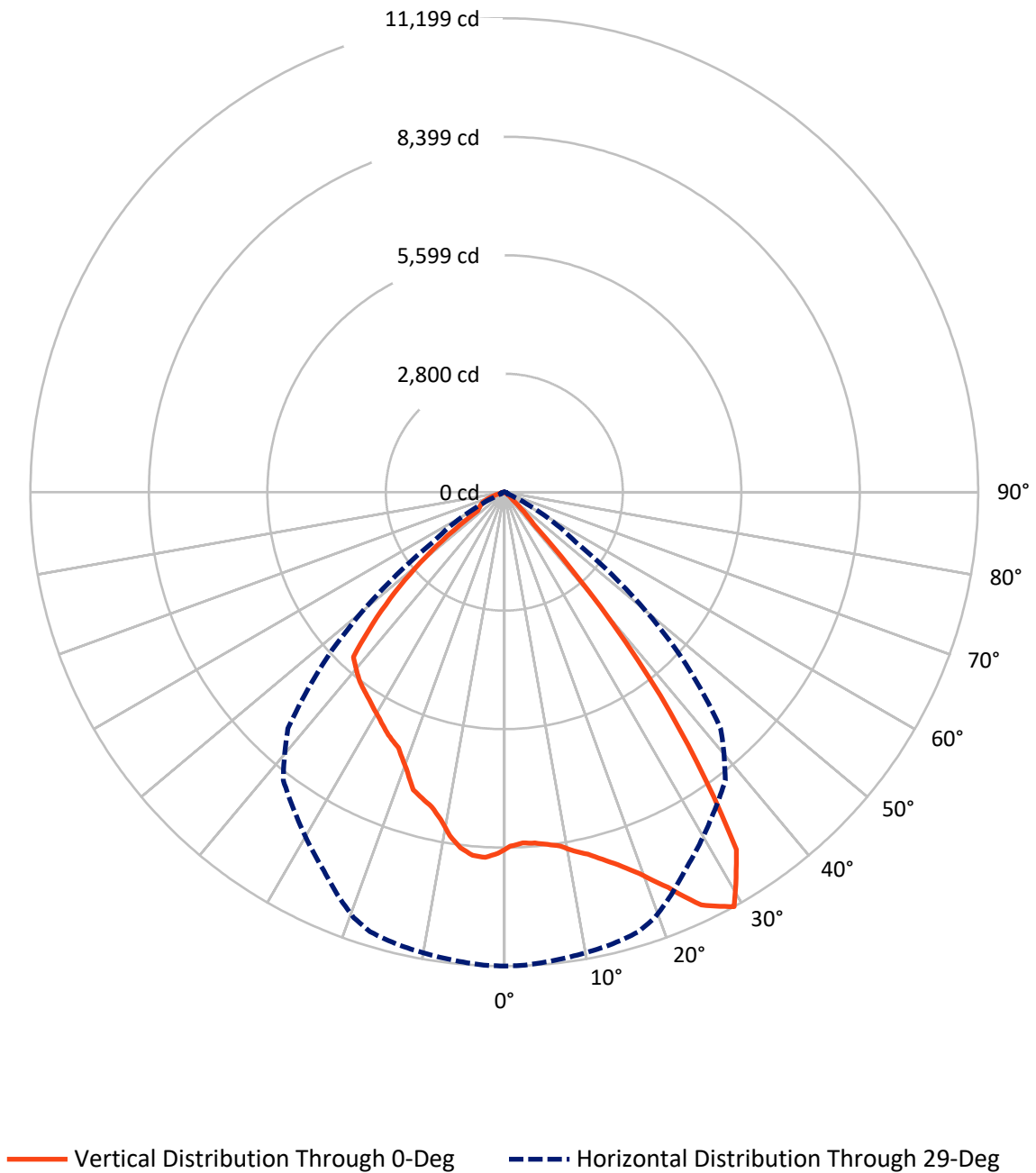
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### Lumen Table



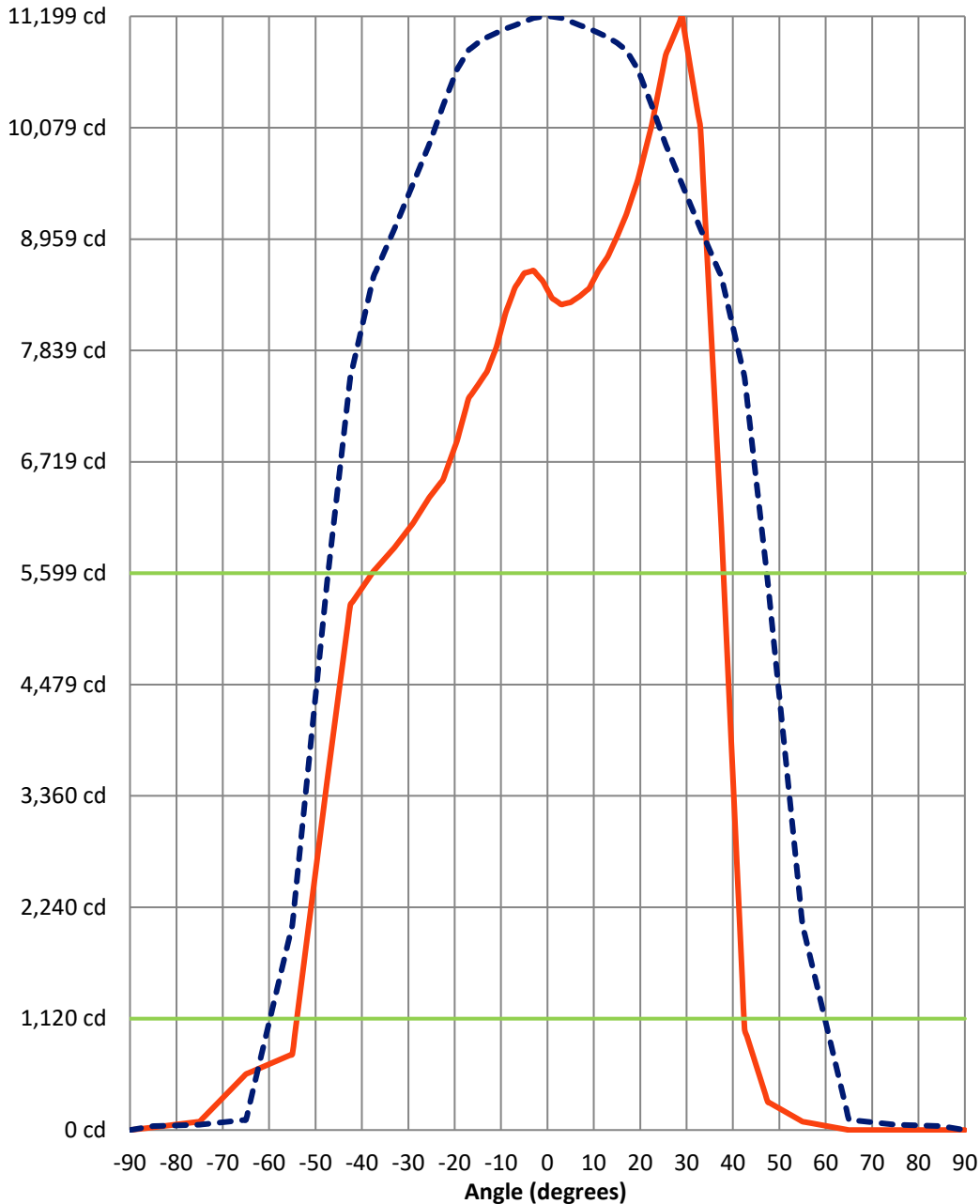
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 94.6°  
 V Angle: 75.7°  
 Lumens: 13483.1  
 Efficiency: 73.9%

**Field:**  
 H Angle: 119.6°  
 V Angle: 96.4°  
 Lumens: 17775.7  
 Efficiency: 97.4%

**Spill:**  
 Lumens: 471.3  
 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	4.2	10.0	10.0	11.2	14.2	18.4	21.2	24.0	25.2	26.9
75°	0.0	1.5	4.2	7.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5
65°	0.0	0.0	3.0	4.2	5.5	5.5	7.0	7.0	7.0	7.0	5.5
55°	84.8	81.8	84.8	84.8	84.8	83.3	77.8	70.6	66.3	67.8	62.1
47.5°	283.8	285.3	282.6	276.8	274.1	271.1	265.4	259.9	247.2	241.6	237.2
42.5°	1018.3	1117.1	1093.4	1180.7	1148.3	1230.1	1350.3	1449.3	1454.8	796.6	1184.9
37.5°	6053.5	6077.5	6097.2	6153.6	6128.3	6158.0	6098.7	5975.7	5787.9	5711.6	5748.5
33°	10065.9	10020.8	10040.5	10104.3	10145.0	10193.1	10122.5	9995.3	9760.9	9597.0	9519.5
29°	11198.5	11195.7	11181.8	11146.4	11108.4	11074.5	11032.1	10988.2	10931.6	10858.3	10663.5
25.5°	10808.9	10790.5	10763.7	10705.9	10676.2	10647.8	10606.9	10566.0	10503.9	10416.3	10231.3
22.5°	10108.3	10097.1	10081.6	10032.0	9992.6	9961.4	9920.5	9902.1	9858.4	9807.5	9678.9
19.5°	9556.1	9544.9	9546.2	9522.2	9495.3	9455.9	9406.3	9361.1	9324.5	9297.7	9225.5
17°	9205.7	9188.8	9191.8	9184.8	9157.8	9112.7	9067.3	9006.7	8957.3	8927.4	8868.5
15°	8982.8	8969.8	8974.3	8958.6	8929.1	8885.2	8841.4	8787.7	8736.9	8679.0	8618.4
13°	8782.2	8769.3	8772.3	8758.1	8728.4	8694.5	8660.6	8611.2	8573.0	8517.9	8454.5
11°	8640.8	8632.4	8623.9	8615.4	8588.7	8556.3	8526.4	8485.5	8453.0	8403.6	8357.0
9°	8464.5	8470.0	8461.5	8457.3	8437.6	8409.4	8385.2	8357.0	8337.3	8309.1	8293.4
7°	8385.2	8389.7	8381.2	8376.7	8362.5	8347.0	8324.6	8307.4	8307.4	8311.9	8323.3
5°	8323.3	8327.3	8324.6	8325.9	8327.3	8320.3	8313.1	8317.4	8344.3	8367.0	8373.8
3°	8300.6	8301.9	8311.9	8321.6	8335.8	8348.5	8364.0	8389.7	8421.9	8423.4	8412.1
1°	8365.5	8362.5	8392.2	8417.8	8443.1	8463.0	8465.8	8456.0	8457.3	8441.8	8512.4
0°	8448.8	8443.1	8473.0	8485.5	8510.9	8517.9	8492.7	8468.5	8448.8	8413.4	8529.3
-1°	8534.9	8532.1	8547.8	8549.1	8561.8	8553.3	8506.7	8468.5	8427.6	8364.0	8390.7
-3°	8642.3	8645.1	8640.8	8623.9	8621.1	8578.7	8508.1	8448.8	8378.2	8280.7	8219.9
-5°	8615.4	8614.1	8598.7	8576.0	8544.8	8492.7	8403.6	8327.3	8237.0	8126.8	8067.5
-7°	8470.0	8474.2	8444.6	8428.9	8361.3	8283.7	8181.7	8090.1	8012.3	7937.5	7910.8
-9°	8218.6	8227.1	8183.4	8176.2	8078.7	7992.6	7919.3	7852.9	7811.8	7772.2	7758.2
-11°	7871.2	7882.4	7854.2	7869.7	7806.3	7773.7	7739.7	7697.4	7664.9	7632.5	7602.8
-13°	7629.7	7635.2	7622.5	7621.3	7595.8	7588.6	7571.7	7547.7	7522.3	7484.1	7444.5
-15°	7489.8	7495.6	7484.1	7477.1	7462.9	7458.7	7443.2	7412.2	7378.1	7328.7	7266.6
-17°	7355.7	7366.9	7354.4	7345.9	7331.7	7320.3	7309.0	7275.1	7230.0	7172.1	7070.3
-19.5°	6929.2	6945.9	6931.9	6929.2	6930.4	6937.4	6936.2	6909.2	6892.5	6862.6	6771.0
-22.5°	6540.6	6547.8	6544.9	6547.8	6552.1	6554.8	6552.1	6540.6	6523.9	6487.0	6392.2
-25.5°	6358.5	6362.8	6358.5	6359.8	6354.3	6350.1	6338.8	6317.4	6296.4	6258.3	6166.5
-29°	6100.1	6105.7	6104.4	6102.7	6097.2	6080.2	6056.3	6026.6	5997.1	5950.3	5862.9
-33°	5855.5	5860.0	5857.2	5847.0	5834.5	5814.8	5786.4	5747.0	5701.6	5643.8	5549.0
-37.5°	5618.3	5611.3	5612.8	5600.1	5585.9	5563.4	5535.0	5499.6	5446.0	5382.6	5292.1
-42.5°	5278.1	5248.4	5240.0	5189.1	5174.9	5117.0	5098.6	5066.1	5032.2	5039.4	4933.4
-47.5°	3509.6	3461.7	3477.2	3434.8	3461.7	3432.0	3459.0	3406.6	3415.1	3413.6	3367.0
-55°	762.7	754.2	781.1	807.8	827.8	836.0	806.6	779.6	789.6	854.5	823.5
-65°	562.2	560.7	560.7	557.9	553.7	550.7	552.2	554.9	554.9	563.6	583.3
-75°	84.8	83.3	84.8	83.3	77.8	80.5	87.5	84.8	87.5	87.5	87.5
-85°	26.9	26.9	25.2	29.7	31.2	36.7	42.4	45.2	47.9	49.6	49.6
-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°	28.2	28.2	29.7	29.7	28.2	28.2	28.2	28.2	28.2	29.7	31.2
75°	10.0	11.2	12.7	15.5	17.0	19.7	19.7	22.7	25.2	28.2	31.2
65°	5.5	4.2	4.2	4.2	5.5	7.0	11.2	15.5	21.2	25.2	29.7
55°	50.9	33.7	15.5	14.2	14.2	12.7	11.2	12.7	21.2	25.2	29.7
47.5°	195.0	129.9	79.1	64.9	59.4	47.9	43.7	45.2	38.2	26.9	31.2
42.5°	310.8	312.0	255.6	786.8	665.4	259.9	269.8	185.1	53.6	31.2	32.6
37.5°	5686.2	5270.9	5150.9	4848.7	4444.8	3227.3	2898.1	278.3	69.3	39.4	35.4
33°	9405.0	8975.5	8362.5	8227.1	7522.3	6184.7	4446.3	1549.3	86.1	46.6	36.7
29°	10300.4	9909.3	9512.3	9060.5	8580.2	7568.9	5512.6	2062.1	103.0	53.6	39.4
25.5°	9955.9	9656.4	9318.9	8937.4	8653.6	8066.0	6268.0	2430.7	120.0	63.6	41.1
22.5°	9413.5	9123.9	8852.6	8590.2	8433.3	8075.9	6563.3	2679.3	138.4	74.8	43.7
19.5°	8995.5	8724.4	8479.7	8290.7	8228.3	7916.3	6642.4	2882.6	155.4	84.8	45.2
17°	8655.0	8423.4	8245.5	8128.3	8063.2	7687.6	6635.4	3050.7	172.3	89.0	45.2
15°	8434.8	8224.1	8098.4	8023.6	7906.4	7480.1	6592.8	3199.1	186.5	93.3	46.6
13°	8301.9	8142.3	8042.0	7929.0	7708.8	7265.4	6539.3	3354.5	196.3	96.0	46.6
11°	8227.1	8101.4	8006.8	7797.6	7495.6	7114.0	6494.2	3516.8	202.0	98.8	47.9
9°	8198.9	8070.2	7913.6	7631.0	7341.5	7009.7	6453.1	3699.1	206.0	101.7	47.9
7°	8244.0	8104.1	7868.4	7536.5	7214.5	6936.2	6423.4	3881.2	209.0	104.5	47.9
5°	8283.7	8149.3	7859.7	7436.0	7104.3	6862.6	6395.2	4060.5	211.8	107.5	49.6
3°	8311.9	8174.9	7847.0	7334.5	7009.7	6793.5	6372.5	4227.2	213.2	108.7	49.6
1°	8392.2	8160.7	7806.3	7251.2	6938.9	6742.8	6348.6	4379.8	210.5	108.7	49.6
0°	8338.6	8121.1	7765.2	7215.8	6902.2	6720.2	6337.3	4446.3	210.5	107.5	49.6
-1°	8229.8	8068.9	7717.3	7182.0	6869.8	6698.8	6331.6	4512.5	209.0	107.5	49.6
-3°	8067.5	7941.8	7616.8	7119.7	6795.0	6639.4	6316.1	4626.9	207.7	106.0	47.9
-5°	7927.8	7820.3	7509.5	7032.2	6700.2	6559.1	6275.0	4700.3	206.0	104.5	47.9
-7°	7807.6	7664.9	7359.9	6910.7	6592.8	6458.8	6231.4	4745.4	204.8	103.0	47.9
-9°	7655.0	7478.4	7167.8	6771.0	6474.3	6337.3	6170.7	4751.1	203.5	101.7	46.6
-11°	7485.6	7286.3	6981.5	6625.4	6359.8	6221.6	6092.9	4714.5	202.0	98.8	45.2
-13°	7300.5	7083.1	6803.5	6489.7	6241.3	6108.4	6009.6	4626.9	200.5	98.8	45.2
-15°	7097.3	6878.3	6621.2	6359.8	6133.8	5982.9	5913.6	4495.5	200.5	97.5	43.7
-17°	6878.3	6646.6	6424.9	6213.1	6009.6	5858.5	5803.4	4314.9	197.6	96.0	42.4
-19.5°	6584.5	6371.3	6191.7	6022.3	5835.8	5699.1	5658.0	4015.4	193.5	94.5	41.1
-22.5°	6210.2	6011.1	5864.0	5751.2	5628.3	5529.3	5520.8	3620.1	186.5	91.8	39.4
-25.5°	6001.1	5820.3	5679.2	5557.5	5463.0	5415.0	5399.4	3220.3	177.8	89.0	36.7
-29°	5727.3	5573.4	5443.2	5316.1	5234.2	5237.2	5249.7	2755.4	170.8	83.3	35.4
-33°	5423.5	5293.6	5162.2	5023.7	4936.2	4943.2	4961.6	2240.1	172.3	76.3	33.7
-37.5°	5180.6	5056.4	4899.5	4725.7	4578.8	4571.8	4509.7	303.5	176.6	66.3	32.6
-42.5°	4811.8	4761.1	4549.4	4399.5	4128.4	3885.5	3546.5	299.5	169.4	53.6	32.6
-47.5°	3286.6	3220.3	3156.7	3081.9	2832.0	2454.9	1932.1	281.1	149.7	41.1	31.2
-55°	884.1	878.4	908.1	830.5	684.9	264.1	272.6	176.6	98.8	32.6	31.2
-65°	624.3	632.7	497.3	264.1	185.1	129.9	185.1	106.0	53.6	31.2	31.2
-75°	87.5	80.5	59.4	64.9	67.8	67.8	63.6	41.1	33.7	32.6	31.2
-85°	49.6	49.6	47.9	46.6	45.2	42.4	41.1	38.2	36.7	33.7	32.6
-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)