

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: P393770

Luminaire Tested: **NFFLD-C55-D-UNV-66-VG**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130630)  
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-VG  
Description: FLOODLIGHT WITH WIRE GUARD  
Light Source: (2) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	18458 lumens	Max Intensity:	10359.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	127.3 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	98.6°H x 86.3°V	Field Angle (10%):	125°H x 113.3°V
Beam Lumens:	12224.9 lumens	Field Lumens:	17672.2 lumens
Beam Efficiency:	66.2%	Field Efficiency:	95.7%

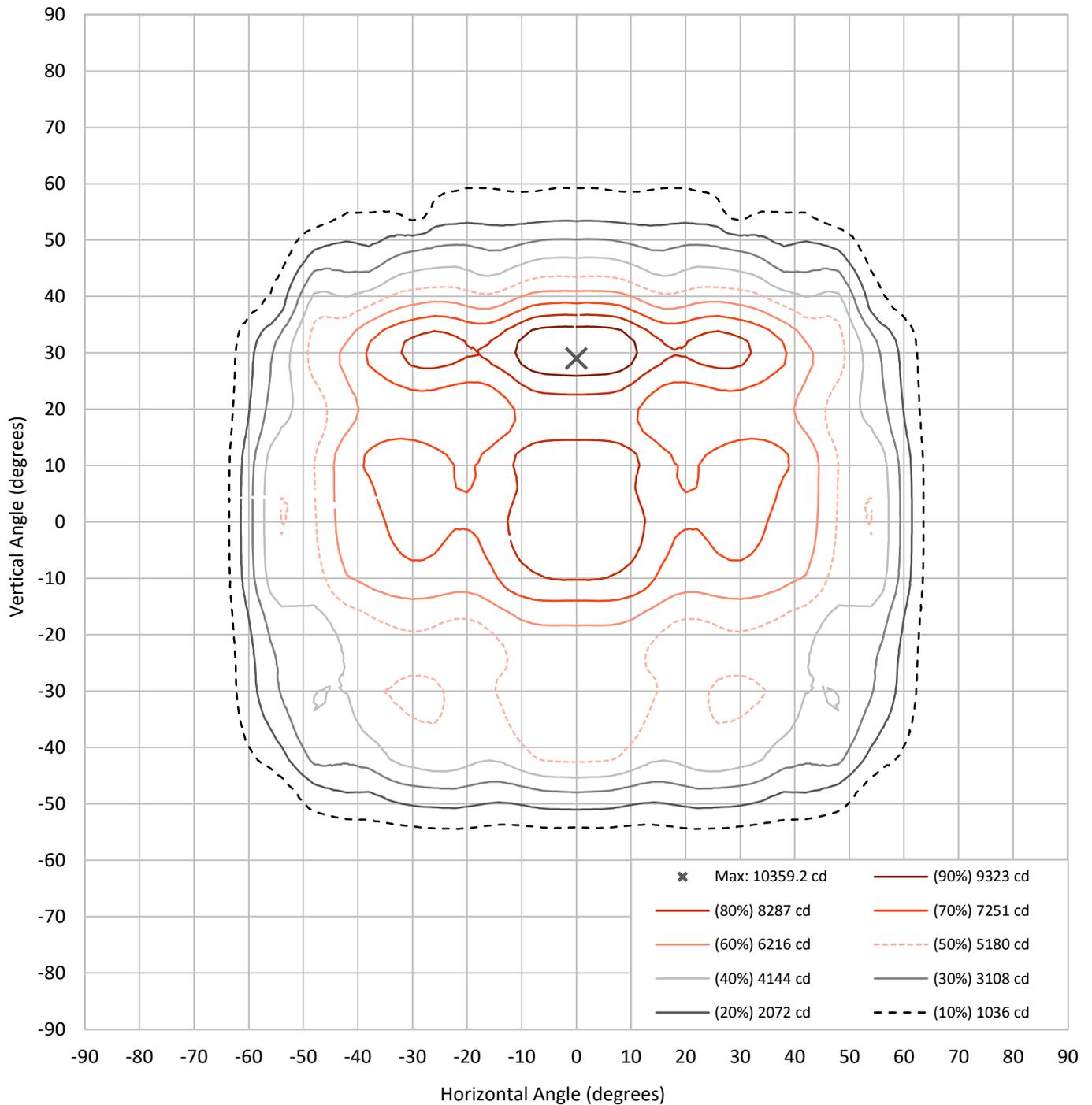
Input Watts (W): 145  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Candela Plot

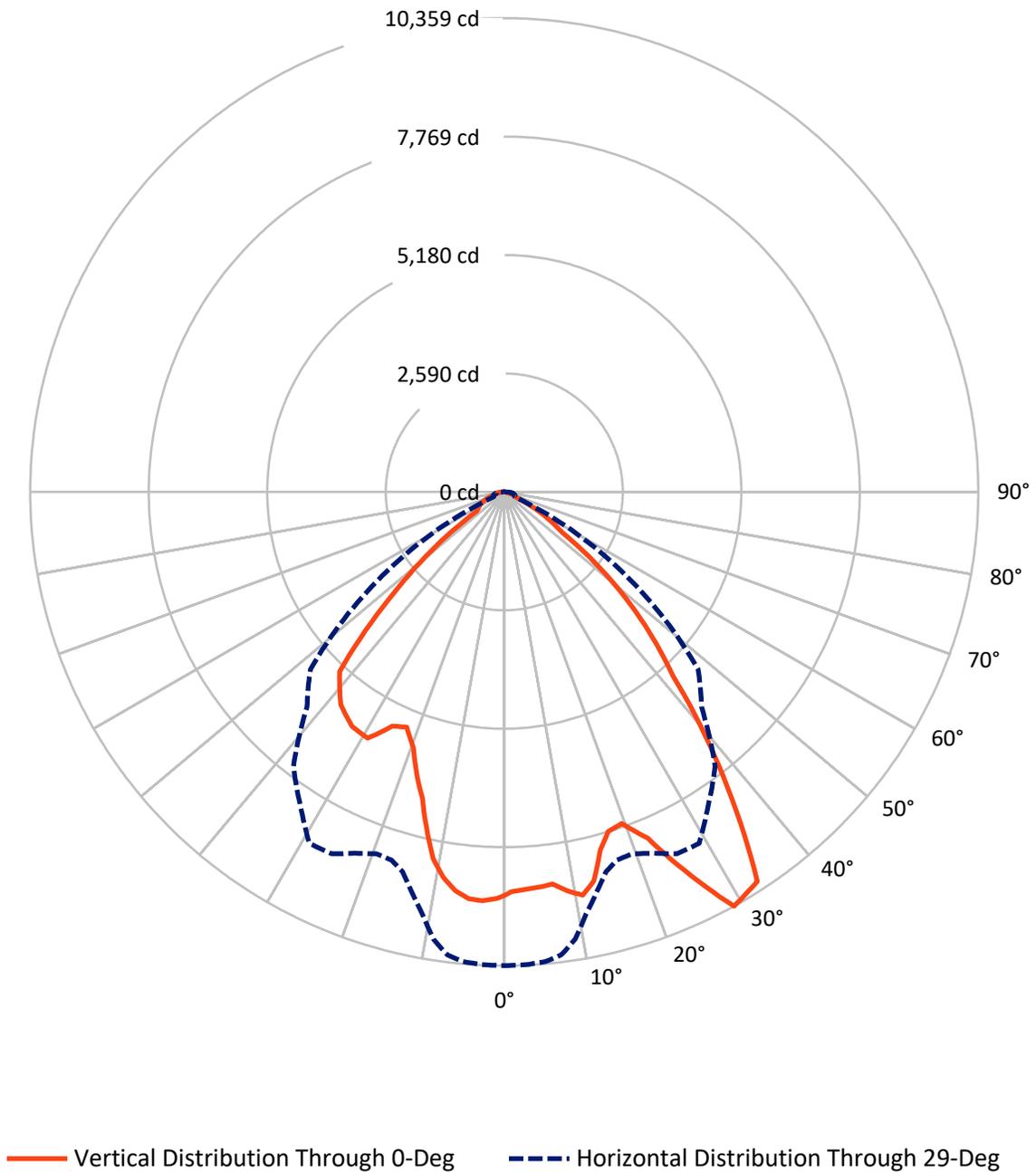




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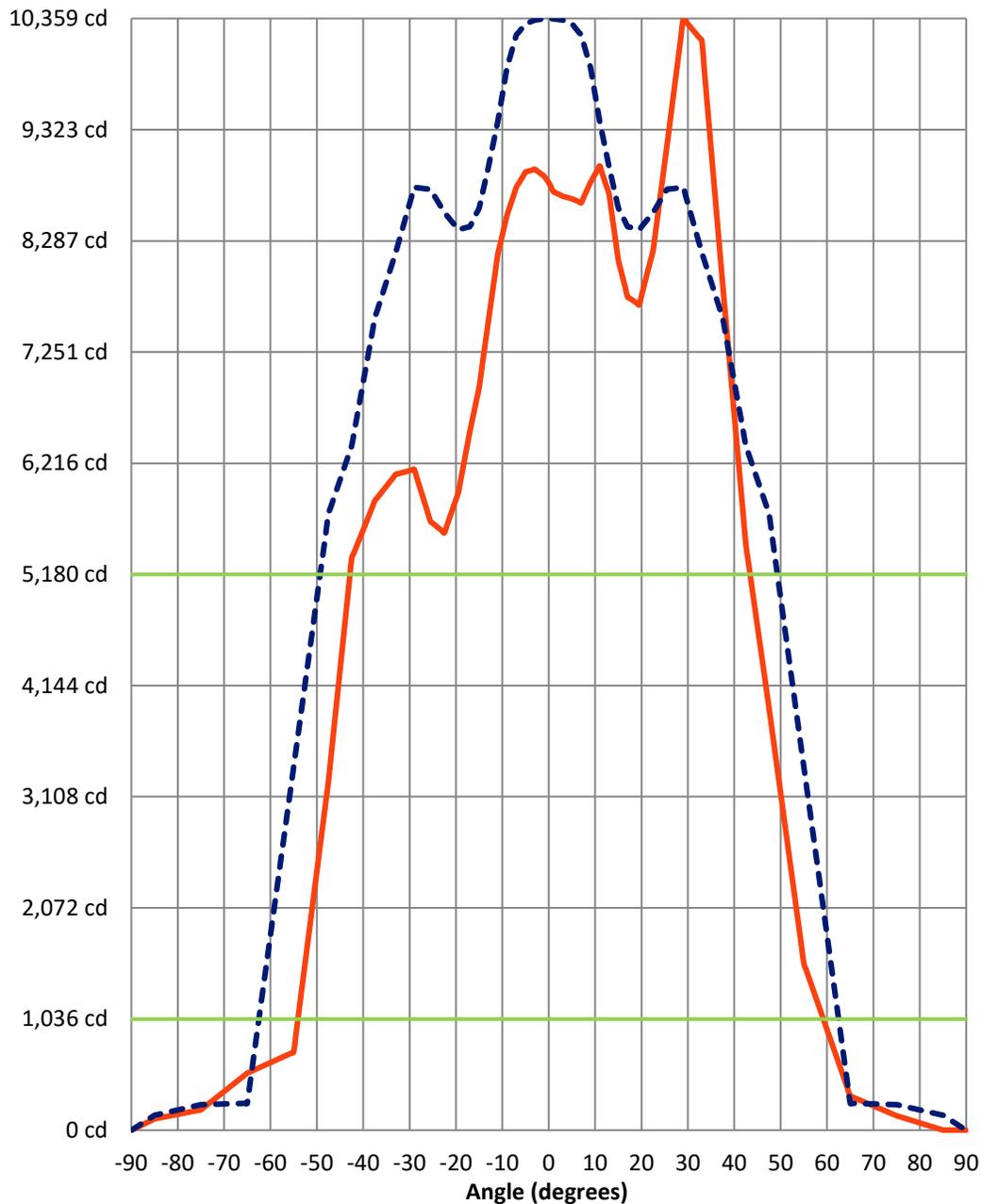
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 98.6°  
 V Angle: 86.3°  
 Lumens: 12224.9  
 Efficiency: 66.2%

**Field:**  
 H Angle: 125°  
 V Angle: 113.3°  
 Lumens: 17672.2  
 Efficiency: 95.7%

**Spill:**  
 Lumens: 785.8  
 Efficiency: 4.3%

— 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°	1.5	7.2	36.4	45.0	48.0	53.9	65.5	74.0	84.2	93.0	98.8
75°	135.1	135.1	135.1	135.1	130.9	128.1	130.9	123.5	125.0	123.5	117.8
65°	318.4	318.4	309.9	292.2	276.3	279.1	289.3	305.3	337.3	317.1	312.5
55°	1557.1	1573.1	1578.9	1548.4	1477.3	1459.8	1446.5	1467.0	1548.4	1551.2	1583.3
47.5°	3933.0	3977.9	3973.5	3940.2	3906.8	3687.0	3544.6	3316.3	3216.2	3299.1	3511.4
42.5°	5458.0	5476.8	5482.9	5484.2	5456.5	5244.4	5014.6	4653.9	4406.7	4337.1	4595.9
37.5°	7878.6	7929.6	7935.5	7829.3	7792.8	7548.7	7102.2	6738.9	6381.2	6289.6	6448.2
33°	10152.7	10152.7	10148.4	10104.7	10027.7	9684.5	9142.2	8740.9	8290.3	8054.7	8130.2
29°	10359.2	10356.1	10344.5	10309.8	10203.6	9902.7	9398.2	8979.4	8595.6	8421.0	8392.0
25.5°	9178.7	9165.6	9139.4	9098.6	9024.4	8784.6	8361.5	7986.4	7614.1	7426.7	7399.0
22.5°	8198.7	8191.3	8195.6	8140.4	8105.5	7949.9	7628.7	7292.9	6968.7	6744.8	6654.7
19.5°	7692.7	7698.3	7704.2	7691.4	7659.3	7541.5	7249.3	6920.7	6628.3	6391.3	6286.8
17°	7765.3	7771.2	7768.4	7761.0	7727.6	7595.1	7310.2	6991.8	6701.1	6430.6	6299.9
15°	8109.9	8121.7	8112.9	8090.9	8050.3	7897.8	7603.9	7260.8	6984.6	6663.4	6529.4
13°	8723.5	8732.2	8723.5	8690.1	8628.8	8480.6	8190.0	7801.8	7505.0	7115.5	6942.5
11°	8985.1	8986.6	8983.6	8950.2	8892.2	8756.9	8441.3	8051.8	7747.9	7358.2	7148.9
9°	8832.6	8845.5	8836.9	8809.2	8770.0	8652.1	8355.6	7999.5	7720.4	7358.2	7182.3
7°	8642.1	8650.8	8647.8	8634.9	8602.8	8506.8	8245.0	7903.5	7670.8	7317.6	7163.5
5°	8679.8	8691.4	8690.1	8684.2	8650.8	8553.5	8309.1	7979.0	7787.2	7432.3	7259.3
3°	8703.2	8713.4	8725.0	8717.6	8703.2	8642.1	8424.1	8123.0	7931.2	7554.3	7339.4
1°	8745.5	8759.9	8778.7	8774.5	8780.2	8726.3	8515.5	8184.1	7958.7	7557.4	7404.9
0°	8829.5	8838.3	8858.5	8847.0	8835.4	8778.7	8546.1	8205.9	7949.9	7537.1	7413.6
-1°	8890.6	8896.5	8896.5	8879.1	8849.8	8783.1	8536.0	8185.6	7906.5	7467.3	7266.7
-3°	8954.6	8962.0	8934.3	8879.1	8838.3	8754.0	8495.2	8121.7	7814.9	7345.3	7089.3
-5°	8928.6	8934.3	8922.7	8832.6	8767.1	8676.8	8409.5	8028.5	7701.4	7230.3	6967.1
-7°	8785.9	8797.5	8755.6	8694.5	8582.5	8476.3	8192.8	7804.6	7465.7	7032.6	6798.5
-9°	8527.3	8557.6	8501.1	8454.4	8313.5	8191.3	7915.2	7560.4	7247.7	6856.7	6637.0
-11°	8160.9	8191.3	8169.7	8167.9	8063.4	7963.2	7721.7	7388.7	7087.8	6708.3	6484.5
-13°	7547.3	7589.5	7579.4	7628.7	7535.6	7474.5	7243.4	6965.8	6699.6	6325.8	6150.2
-15°	6925.0	6888.8	6888.8	6911.9	6849.3	6785.4	6570.2	6333.2	6075.8	5754.6	5591.8
-17°	6513.5	6490.3	6493.2	6505.0	6450.9	6390.0	6192.3	5950.7	5668.8	5366.4	5186.1
-19.5°	5942.0	5936.3	5939.2	5969.7	5940.7	5901.4	5722.7	5492.9	5238.5	4972.3	4809.5
-22.5°	5566.9	5572.8	5591.8	5587.4	5574.3	5540.9	5370.7	5170.0	4917.1	4688.8	4524.5
-25.5°	5673.2	5667.3	5677.5	5652.7	5632.4	5537.9	5319.9	5128.1	4851.8	4680.1	4559.4
-29°	6157.4	6151.5	6157.4	6139.9	6124.0	5994.6	5727.1	5510.4	5176.1	5017.5	4895.3
-33°	6110.9	6109.4	6110.9	6097.8	6059.8	5887.0	5583.0	5293.7	4957.9	4779.0	4758.7
-37.5°	5865.0	5860.6	5863.7	5844.7	5783.6	5571.5	5268.8	4934.5	4668.5	4568.2	4659.8
-42.5°	5327.1	5309.6	5302.4	5261.8	5176.1	4896.8	4616.2	4296.3	4156.6	4169.9	4389.5
-47.5°	3255.2	3223.4	3191.3	3165.3	3092.4	2884.5	2791.5	2647.5	2653.4	2730.4	2864.2
-55°	728.4	735.6	758.9	763.3	745.8	722.7	687.6	676.0	699.4	776.4	798.2
-65°	532.2	537.9	548.1	527.6	491.4	485.5	504.5	540.9	552.5	545.3	558.2
-75°	190.5	193.3	197.7	192.0	180.5	190.5	196.4	187.4	184.6	181.8	184.6
-85°	106.0	107.6	107.6	103.4	109.1	106.0	101.7	104.7	107.6	116.3	113.5
-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°	103.4	100.4	88.6	82.9	88.6	100.4	101.7	96.0	80.1	59.6	45.0
75°	114.8	120.7	126.3	130.9	135.1	126.3	128.1	138.1	135.1	109.1	61.1
65°	295.2	222.4	173.0	158.4	149.7	149.7	146.9	165.8	161.5	133.8	77.0
55°	1458.3	1429.3	317.1	961.0	978.4	942.0	273.2	228.2	190.5	148.4	94.5
47.5°	3594.1	3512.7	3374.6	3063.4	2285.5	2599.5	2404.9	300.9	196.4	164.3	107.6
42.5°	4876.3	4841.6	4736.8	4509.9	3602.8	3400.8	3873.2	939.4	194.9	181.8	116.3
37.5°	6763.8	6898.8	6698.1	6340.4	5570.0	4742.7	5161.5	1436.5	205.1	202.1	125.0
33°	8515.5	8679.8	8511.2	8061.9	7247.7	5991.5	5686.3	2984.9	229.8	222.4	132.5
29°	8551.8	8767.1	8785.9	8178.2	7567.6	6376.9	5744.3	3387.7	251.4	238.5	139.7
25.5°	7563.3	7775.4	7791.5	7467.3	6949.7	6161.7	5375.1	3445.7	270.4	251.4	143.8
22.5°	6756.3	6971.5	7074.7	6884.2	6599.2	5962.5	4928.9	3586.9	290.9	261.6	148.4
19.5°	6353.5	6558.6	6734.5	6650.3	6475.7	5882.4	4713.5	3774.3	312.5	269.0	152.7
17°	6327.6	6539.7	6767.9	6808.7	6632.6	6006.1	4749.9	3986.6	330.1	273.2	155.6
15°	6542.7	6785.4	7057.3	7162.0	6939.4	6264.9	4879.3	4279.0	335.8	277.8	157.1
13°	6972.8	7303.0	7631.6	7739.1	7351.0	6654.7	5099.1	4672.9	340.2	283.5	158.4
11°	7205.6	7585.1	7952.8	7963.2	7476.0	6853.7	5197.7	4933.0	341.5	290.9	159.9
9°	7244.9	7601.0	7916.6	7848.3	7365.6	6856.7	5177.4	5059.6	343.2	296.5	161.5
7°	7211.3	7550.2	7787.2	7694.0	7214.4	6836.2	5141.0	5120.7	343.2	300.9	161.5
5°	7311.7	7650.6	7836.7	7670.8	7169.2	6848.0	5145.3	5178.7	340.2	303.7	162.8
3°	7369.9	7697.0	7840.8	7595.1	7100.9	6823.3	5129.4	5203.6	337.3	302.4	162.8
1°	7387.4	7666.5	7780.0	7499.3	7019.5	6779.7	5093.0	5206.4	332.8	296.5	162.8
0°	7349.6	7628.7	7734.8	7460.1	6984.6	6756.3	5078.5	5206.4	341.5	293.7	162.8
-1°	7259.3	7570.7	7689.8	7428.0	6955.6	6734.5	5067.0	5206.4	335.8	289.3	162.8
-3°	7095.2	7433.9	7585.1	7359.7	6884.2	6669.1	5044.9	5194.9	335.8	283.5	162.8
-5°	6971.5	7297.1	7457.0	7255.2	6791.3	6558.6	4994.1	5162.8	334.5	280.6	161.5
-7°	6807.2	7100.9	7285.5	7121.2	6682.2	6414.6	4917.1	5100.4	330.1	280.6	161.5
-9°	6634.4	6895.8	7090.6	6949.7	6542.7	6231.6	4832.8	5013.1	327.1	280.6	159.9
-11°	6474.2	6702.7	6882.9	6752.0	6376.9	6014.9	4703.5	4844.4	322.7	277.8	158.4
-13°	6144.3	6304.2	6461.1	6347.9	5980.0	5602.0	4447.5	4520.2	318.4	274.7	157.1
-15°	5583.0	5714.0	5838.8	5757.6	5458.0	5039.3	4084.2	4117.3	314.0	270.4	154.1
-17°	5180.2	5337.1	5462.4	5379.5	5138.1	4665.7	3823.9	3819.3	311.2	266.0	152.7
-19.5°	4847.3	5046.7	5193.3	5104.7	4909.9	4370.5	3621.6	3560.7	306.8	263.2	149.7
-22.5°	4556.6	4760.2	4901.1	4848.8	4744.3	4181.5	3602.8	3315.0	296.5	260.3	145.3
-25.5°	4642.4	4835.7	4956.4	4918.6	4771.8	4101.6	3781.5	3160.7	287.8	257.5	142.5
-29°	5024.7	5289.3	5481.1	5237.0	5183.1	4145.1	4190.2	3104.2	280.6	251.4	136.6
-33°	5039.3	5299.4	5343.2	5165.8	5036.4	3812.1	4270.1	2772.8	274.7	240.0	130.9
-37.5°	4949.2	5106.0	5036.4	4816.7	4302.2	3554.8	4159.7	2166.1	264.5	221.0	123.5
-42.5°	4658.3	4784.8	4562.5	4328.4	3448.8	3182.5	3432.6	1381.3	258.8	197.7	114.8
-47.5°	3059.3	2977.7	2916.6	2686.8	2131.4	2186.7	1845.2	322.7	248.8	170.0	107.6
-55°	808.2	799.7	779.2	674.7	591.8	524.8	344.5	255.7	237.0	146.9	96.0
-65°	564.3	540.9	479.8	306.8	270.4	226.7	254.4	215.2	161.5	126.3	80.1
-75°	190.5	180.5	155.6	151.2	142.5	151.2	159.9	132.5	113.5	98.8	63.9
-85°	117.8	111.9	90.1	80.1	87.3	97.3	97.3	88.6	68.3	55.2	46.5
-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)