

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: P393769

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

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393769
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-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:	18751 lumens	Max Intensity:	11507.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	129.3 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:	13855.5 lumens	Field Lumens:	18266.6 lumens
Beam Efficiency:	73.9%	Field Efficiency:	97.4%

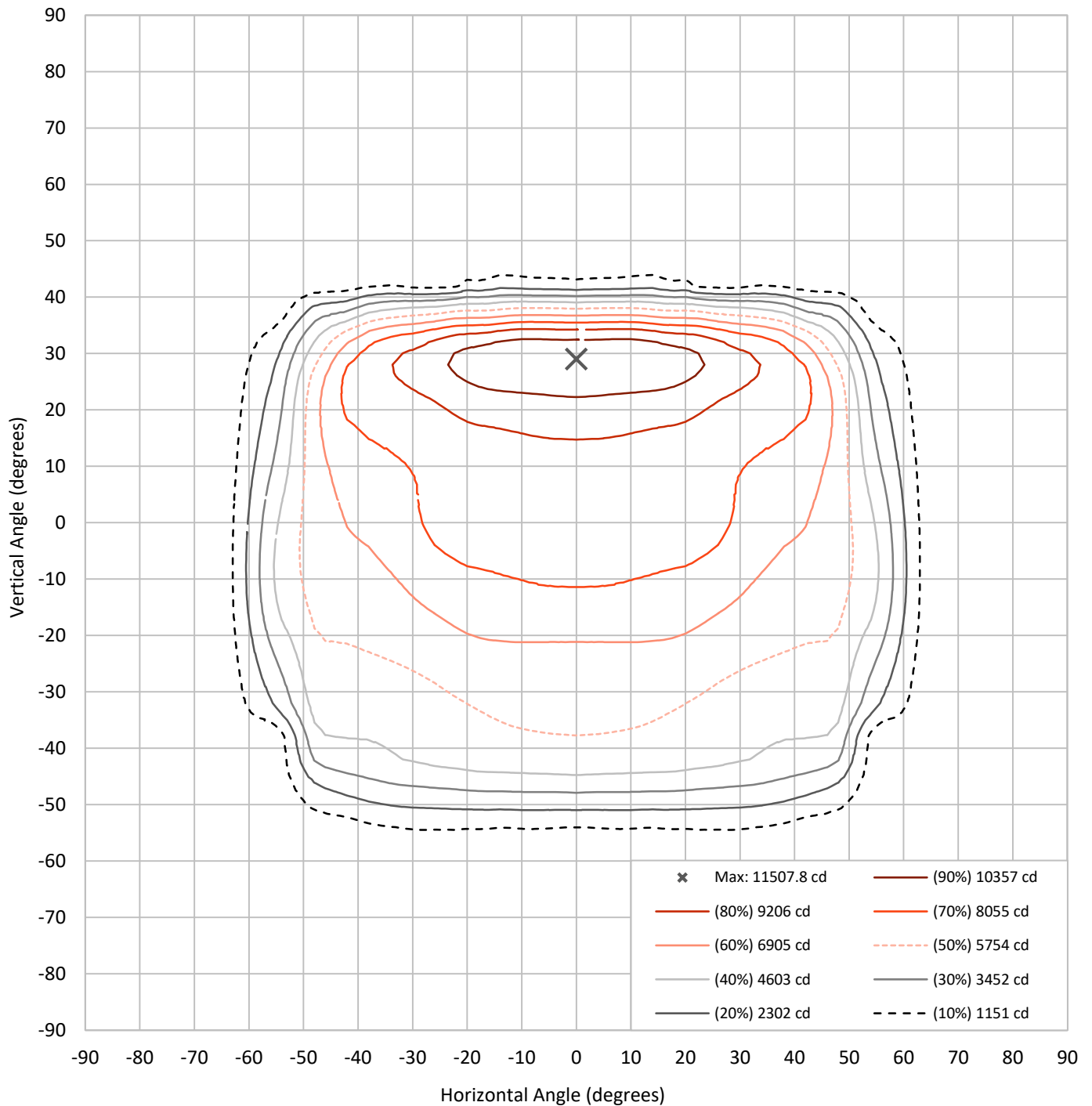
Input Watts (W): 145
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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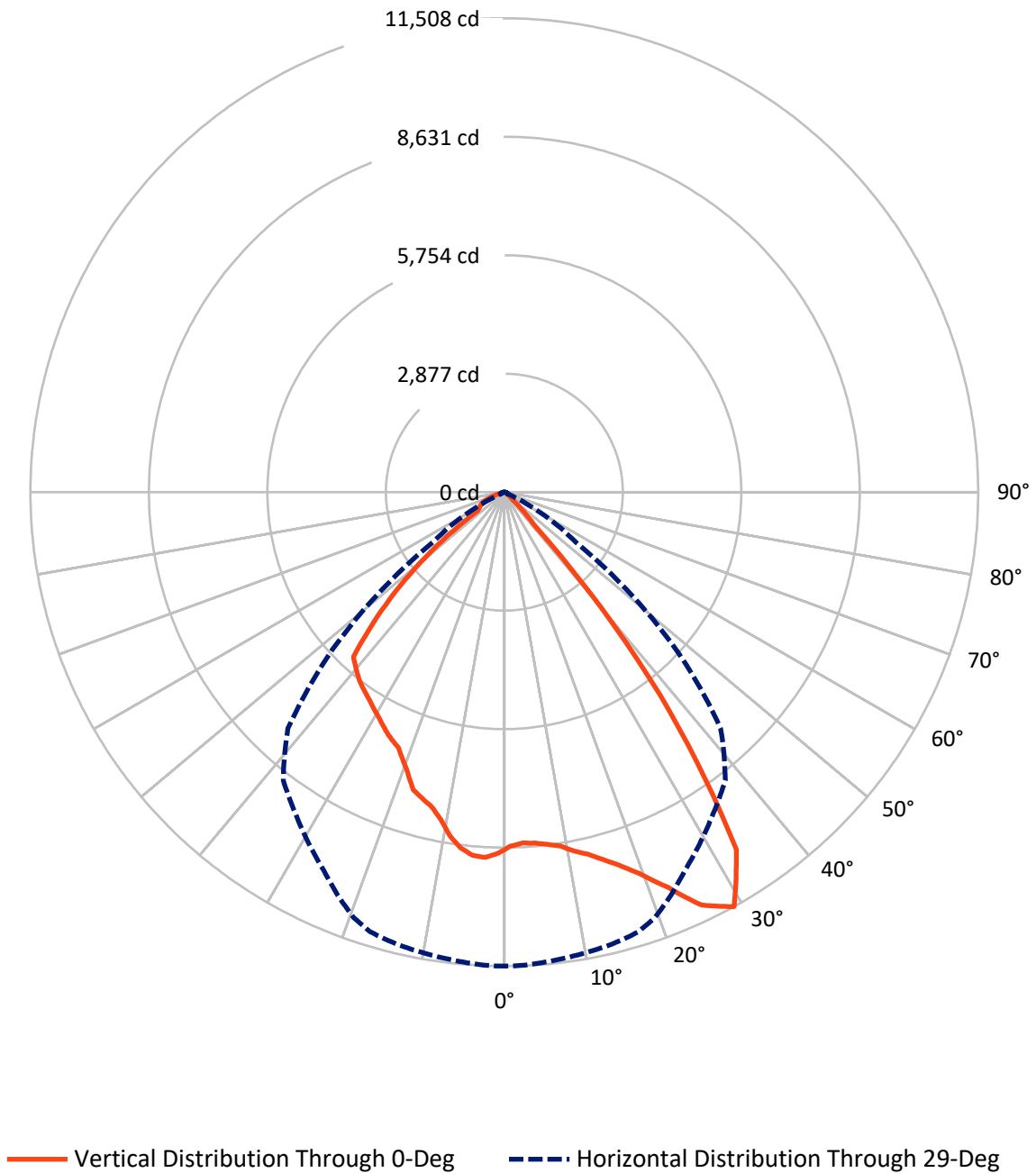
Iso-Candela Plot



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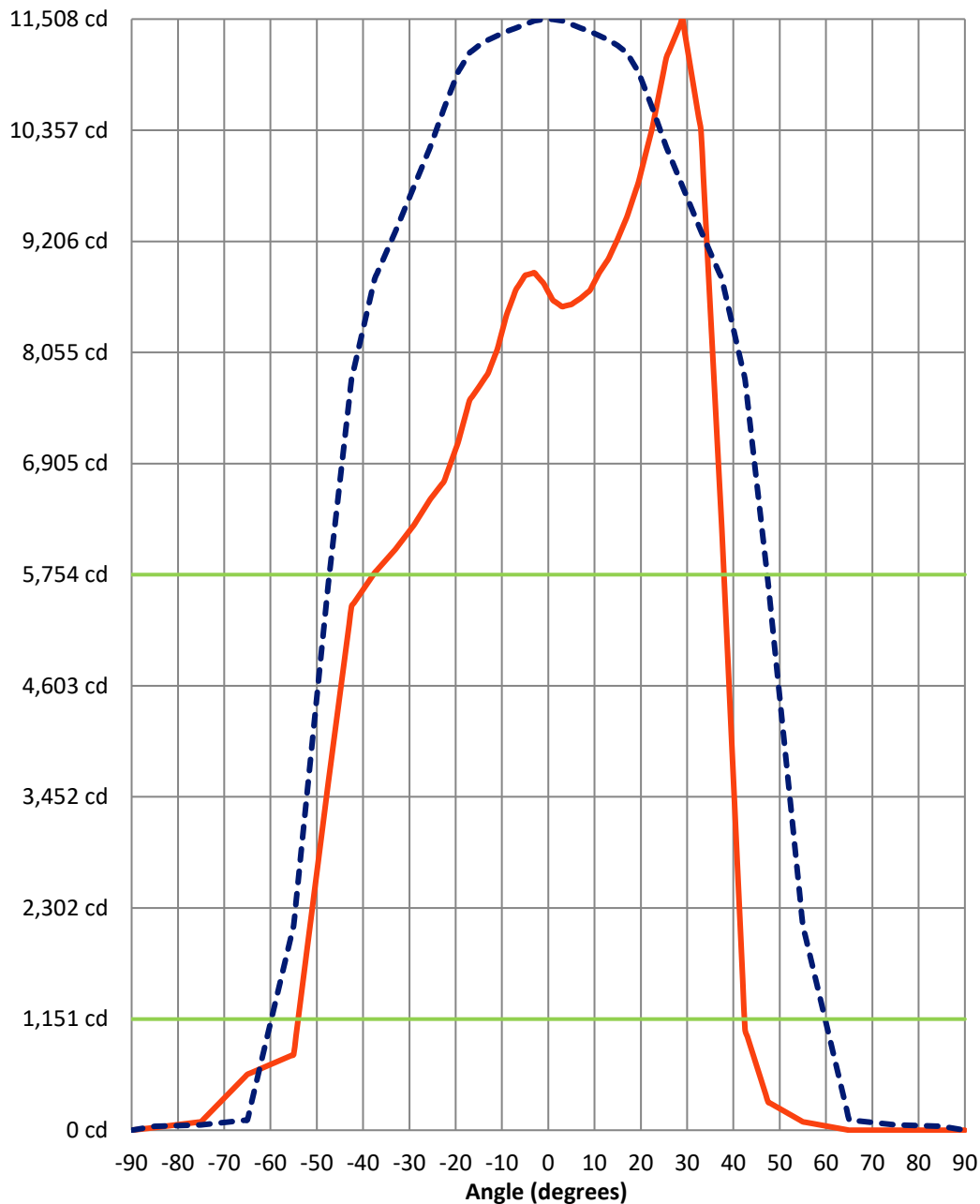
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 94.6°
 V Angle: 75.7°
 Lumens: 13855.5
 Efficiency: 73.9%

Field:
 H Angle: 119.6°
 V Angle: 96.4°
 Lumens: 18266.6
 Efficiency: 97.4%

Spill:
 Lumens: 484.4
 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	4.4	10.2	10.2	11.5	14.6	19.0	21.8	24.6	25.9	27.7
75°	0.0	1.5	4.4	7.2	8.7	8.7	8.7	8.7	8.7	8.7	8.7
65°	0.0	0.0	3.0	4.4	5.7	5.7	7.2	7.2	7.2	7.2	5.7
55°	87.1	84.1	87.1	87.1	87.1	85.6	79.9	72.5	68.2	69.7	63.8
47.5°	291.7	293.2	290.4	284.5	281.7	278.6	272.7	267.1	254.0	248.3	243.7
42.5°	1046.4	1147.9	1123.6	1213.3	1180.0	1264.1	1387.6	1489.3	1494.9	818.6	1217.7
37.5°	6220.7	6245.3	6265.6	6323.5	6297.6	6328.1	6267.1	6140.8	5947.8	5869.4	5907.3
33°	10344.0	10297.6	10317.8	10383.4	10425.2	10474.7	10402.1	10271.4	10030.5	9862.1	9782.4
29°	11507.8	11505.0	11490.6	11454.2	11415.2	11380.4	11336.8	11291.7	11233.6	11158.2	10958.0
25.5°	11107.4	11088.5	11061.1	11001.6	10971.1	10941.9	10899.9	10857.8	10794.0	10704.0	10513.9
22.5°	10387.5	10376.0	10360.1	10309.1	10268.6	10236.6	10194.5	10175.6	10130.7	10078.4	9946.2
19.5°	9820.1	9808.5	9809.9	9785.2	9757.6	9717.1	9666.1	9619.7	9582.0	9554.6	9480.3
17°	9460.0	9442.6	9445.6	9438.5	9410.8	9364.4	9317.8	9255.5	9204.7	9174.0	9113.5
15°	9230.9	9217.6	9222.2	9206.0	9175.8	9130.7	9085.6	9030.5	8978.2	8918.7	8856.4
13°	9024.8	9011.5	9014.6	9000.0	8969.5	8934.6	8899.8	8849.0	8809.8	8753.2	8688.0
11°	8879.5	8870.8	8862.1	8853.4	8825.9	8792.6	8761.9	8719.8	8686.5	8635.8	8587.8
9°	8698.3	8703.9	8695.2	8690.9	8670.6	8641.6	8616.8	8587.8	8567.6	8538.6	8522.5
7°	8616.8	8621.4	8612.7	8608.1	8593.5	8577.6	8554.5	8536.9	8536.9	8541.4	8553.2
5°	8553.2	8557.3	8554.5	8555.8	8557.3	8550.2	8542.7	8547.1	8574.8	8598.1	8605.0
3°	8529.9	8531.2	8541.4	8551.5	8566.1	8579.1	8595.0	8621.4	8654.5	8656.0	8644.5
1°	8596.6	8593.5	8624.0	8650.4	8676.3	8696.8	8699.6	8689.6	8690.9	8675.0	8747.5
0°	8682.2	8676.3	8707.0	8719.8	8746.0	8753.2	8727.2	8702.4	8682.2	8645.8	8764.9
-1°	8770.6	8767.8	8783.9	8785.2	8798.3	8789.5	8741.6	8702.4	8660.4	8595.0	8622.5
-3°	8881.0	8883.9	8879.5	8862.1	8859.3	8815.7	8743.2	8682.2	8609.6	8509.4	8446.9
-5°	8853.4	8852.1	8836.2	8812.9	8780.8	8727.2	8635.8	8557.3	8464.5	8351.3	8290.3
-7°	8703.9	8708.3	8677.8	8661.7	8592.2	8512.5	8407.7	8313.6	8233.7	8156.8	8129.3
-9°	8445.6	8454.3	8409.4	8402.0	8301.8	8213.4	8138.0	8069.8	8027.6	7986.9	7972.5
-11°	8088.6	8100.1	8071.2	8087.1	8021.9	7988.4	7953.5	7910.0	7876.6	7843.3	7812.8
-13°	7840.5	7846.1	7833.1	7831.8	7805.6	7798.2	7780.8	7756.2	7730.0	7690.8	7650.1
-15°	7696.7	7702.6	7690.8	7683.6	7669.0	7664.7	7648.8	7617.0	7581.9	7531.2	7467.3
-17°	7558.8	7570.4	7557.5	7548.8	7534.2	7522.4	7510.9	7476.0	7429.7	7370.2	7265.6
-19.5°	7120.6	7137.8	7123.4	7120.6	7121.9	7129.1	7127.7	7100.1	7082.9	7052.2	6958.1
-22.5°	6721.3	6728.7	6725.6	6728.7	6733.0	6735.9	6733.0	6721.3	6704.1	6666.2	6568.8
-25.5°	6534.2	6538.5	6534.2	6535.5	6529.8	6525.5	6513.9	6491.9	6470.3	6431.1	6336.8
-29°	6268.6	6274.3	6273.0	6271.2	6265.6	6248.2	6223.5	6193.0	6162.8	6114.6	6024.9
-33°	6017.3	6021.8	6019.0	6008.5	5995.7	5975.4	5946.2	5905.7	5859.1	5799.7	5702.3
-37.5°	5773.5	5766.3	5767.8	5754.8	5740.2	5717.1	5687.9	5651.5	5596.4	5531.3	5438.3
-42.5°	5423.9	5393.4	5384.7	5332.4	5317.8	5258.3	5239.4	5206.1	5171.2	5178.6	5069.7
-47.5°	3606.6	3557.3	3573.2	3529.7	3557.3	3526.8	3554.5	3500.7	3509.4	3507.9	3460.0
-55°	783.7	775.0	802.7	830.1	850.6	859.1	828.8	801.2	811.4	878.1	846.3
-65°	577.7	576.2	576.2	573.3	569.0	565.9	567.4	570.3	570.3	579.2	599.5
-75°	87.1	85.6	87.1	85.6	79.9	82.8	90.0	87.1	90.0	90.0	90.0
-85°	27.7	27.7	25.9	30.5	32.0	37.7	43.6	46.4	49.2	51.0	51.0
-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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CATALOG NUMBER: NFFLD-C55-D-UNV-66-TS2

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°	29.0	29.0	30.5	30.5	29.0	29.0	29.0	29.0	29.0	30.5	32.0
75°	10.2	11.5	13.1	15.9	17.4	20.3	20.3	23.3	25.9	29.0	32.0
65°	5.7	4.4	4.4	4.4	5.7	7.2	11.5	15.9	21.8	25.9	30.5
55°	52.3	34.6	15.9	14.6	14.6	13.1	11.5	13.1	21.8	25.9	30.5
47.5°	200.4	133.5	81.2	66.7	61.0	49.2	44.9	46.4	39.2	27.7	32.0
42.5°	319.3	320.6	262.7	808.6	683.8	267.1	277.3	190.2	55.1	32.0	33.5
37.5°	5843.2	5416.5	5293.2	4982.6	4567.6	3316.4	2978.1	286.0	71.2	40.5	36.4
33°	9664.8	9223.5	8593.5	8454.3	7730.0	6355.5	4569.1	1592.1	88.4	47.9	37.7
29°	10584.9	10183.0	9775.0	9310.8	8817.2	7778.0	5664.8	2119.0	105.9	55.1	40.5
25.5°	10230.9	9923.1	9576.3	9184.3	8892.6	8288.8	6441.2	2497.8	123.3	65.3	42.3
22.5°	9673.5	9375.9	9097.1	8827.4	8666.3	8299.0	6744.6	2753.3	142.2	76.9	44.9
19.5°	9243.9	8965.3	8714.0	8519.7	8455.6	8135.0	6825.8	2962.2	159.7	87.1	46.4
17°	8894.1	8656.0	8473.3	8352.8	8285.9	7899.9	6818.6	3135.0	177.1	91.5	46.4
15°	8667.8	8451.3	8322.1	8245.2	8124.7	7686.7	6774.9	3287.4	191.7	95.8	47.9
13°	8531.2	8367.2	8264.1	8148.0	7921.7	7466.0	6720.0	3447.1	201.7	98.7	47.9
11°	8454.3	8325.1	8228.0	8013.0	7702.6	7310.5	6673.6	3614.0	207.6	101.5	49.2
9°	8425.3	8293.1	8132.1	7841.8	7544.2	7203.3	6631.3	3801.3	211.7	104.6	49.2
7°	8471.7	8328.0	8085.7	7744.6	7413.8	7127.7	6600.8	3988.4	214.8	107.4	49.2
5°	8512.5	8374.4	8076.8	7641.4	7300.5	7052.2	6571.8	4172.7	217.6	110.4	51.0
3°	8541.4	8400.7	8063.7	7537.0	7203.3	6981.1	6548.5	4343.9	219.1	111.7	51.0
1°	8624.0	8386.1	8021.9	7451.4	7130.6	6929.1	6523.9	4500.7	216.3	111.7	51.0
0°	8568.9	8345.4	7979.7	7415.1	7092.9	6905.8	6512.4	4569.1	216.3	110.4	51.0
-1°	8457.1	8291.8	7930.4	7380.4	7059.6	6883.8	6506.5	4637.1	214.8	110.4	51.0
-3°	8290.3	8161.1	7827.2	7316.4	6982.7	6822.8	6490.6	4754.7	213.5	108.9	49.2
-5°	8146.7	8036.3	7717.0	7226.4	6885.3	6740.2	6448.3	4830.1	211.7	107.4	49.2
-7°	8023.2	7876.6	7563.2	7101.6	6774.9	6637.2	6403.5	4876.5	210.4	105.9	49.2
-9°	7866.4	7684.9	7365.8	6958.1	6653.1	6512.4	6341.2	4882.4	209.1	104.6	47.9
-11°	7692.4	7487.6	7174.4	6808.4	6535.5	6393.4	6261.2	4844.7	207.6	101.5	46.4
-13°	7502.2	7278.7	6991.4	6669.0	6413.7	6277.1	6175.6	4754.7	206.1	101.5	46.4
-15°	7293.3	7068.3	6804.1	6535.5	6303.3	6148.2	6076.9	4619.7	206.1	100.2	44.9
-17°	7068.3	6830.2	6602.3	6384.7	6175.6	6020.3	5963.7	4434.1	203.0	98.7	43.6
-19.5°	6766.4	6547.2	6362.7	6188.7	5997.0	5856.5	5814.2	4126.3	198.9	97.2	42.3
-22.5°	6381.7	6177.1	6026.0	5910.1	5783.7	5682.0	5673.3	3720.1	191.7	94.3	40.5
-25.5°	6166.9	5981.1	5836.0	5711.0	5613.8	5564.6	5548.5	3309.2	182.8	91.5	37.7
-29°	5885.5	5727.3	5593.6	5462.9	5378.8	5381.9	5394.7	2831.5	175.6	85.6	36.4
-33°	5573.3	5439.8	5304.7	5162.5	5072.5	5079.7	5098.7	2302.0	177.1	78.4	34.6
-37.5°	5323.7	5196.1	5034.9	4856.2	4705.3	4698.1	4634.3	311.9	181.5	68.2	33.5
-42.5°	4944.7	4892.6	4675.0	4521.0	4242.4	3992.8	3644.5	307.8	174.0	55.1	33.5
-47.5°	3377.4	3309.2	3243.9	3167.0	2910.2	2522.7	1985.5	288.8	153.8	42.3	32.0
-55°	908.6	902.7	933.2	853.4	703.8	271.4	280.1	181.5	101.5	33.5	32.0
-65°	641.5	650.2	511.0	271.4	190.2	133.5	190.2	108.9	55.1	32.0	32.0
-75°	90.0	82.8	61.0	66.7	69.7	69.7	65.3	42.3	34.6	33.5	32.0
-85°	51.0	51.0	49.2	47.9	46.4	43.6	42.3	39.2	37.7	34.6	33.5
-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)