

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: P393768

Luminaire Tested: **NFFLD-C55-D-UNV-66-7060-VS**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130632)
Test Lab: INNOVATIONS CENTER
Issue Date: 3/31/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C55-D-UNV-66-7060-VS
Description: FLOODLIGHT WITH VANDAL SHIELD
Light Source: (2) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

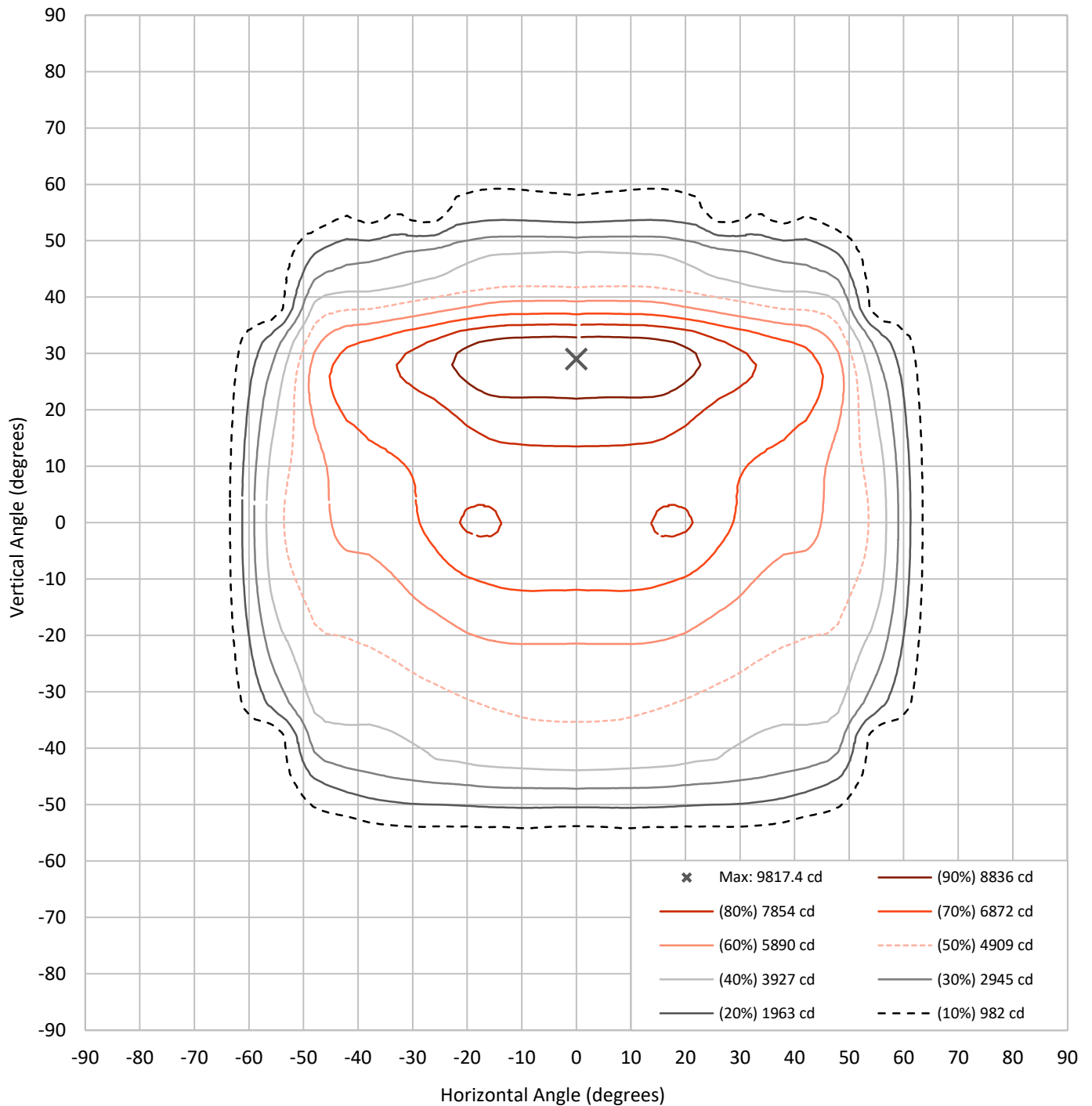
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	17792 lumens	Max Intensity:	9817.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	122.7 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	12858.2 lumens	Field Lumens:	17217.6 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
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

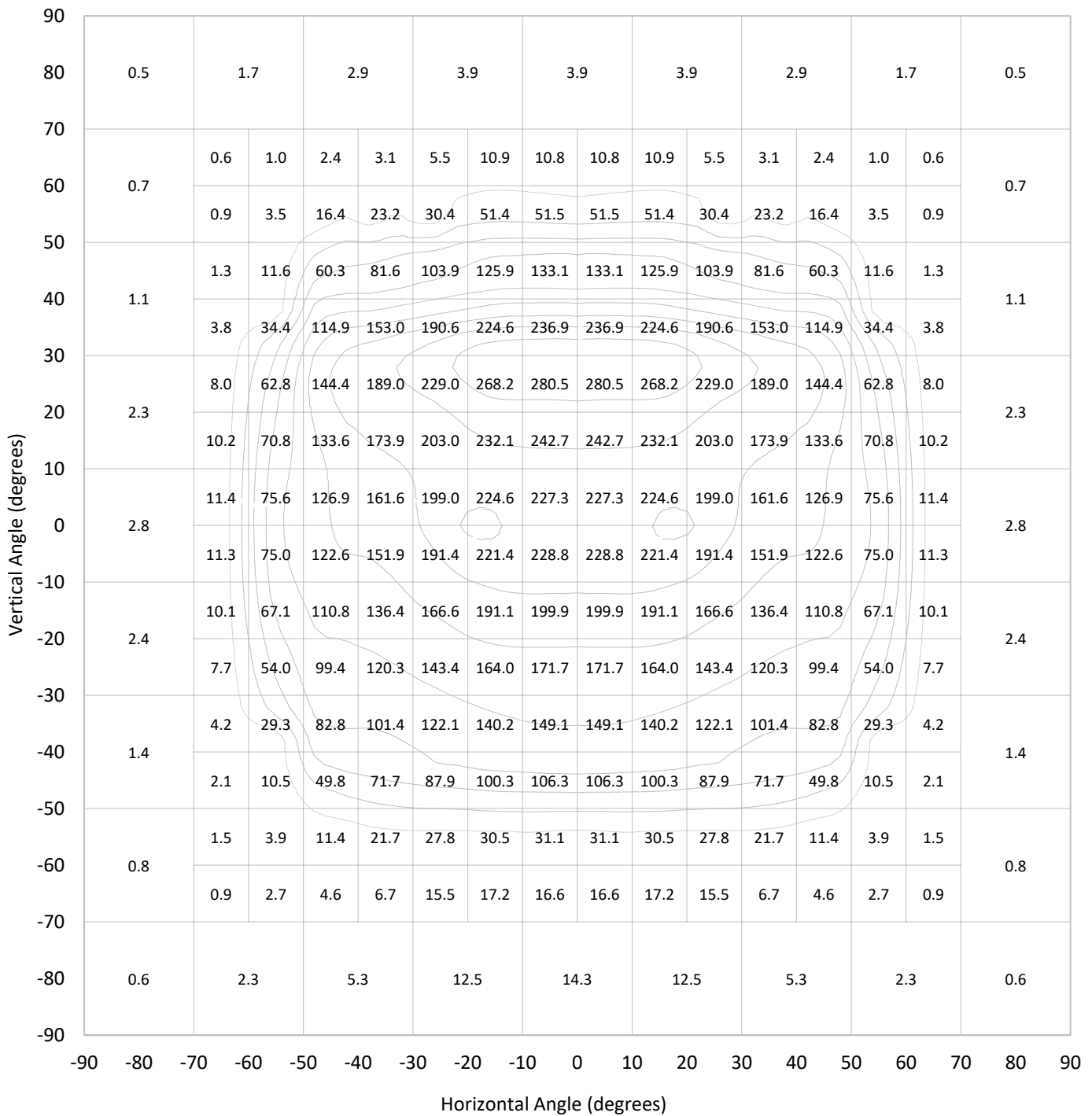




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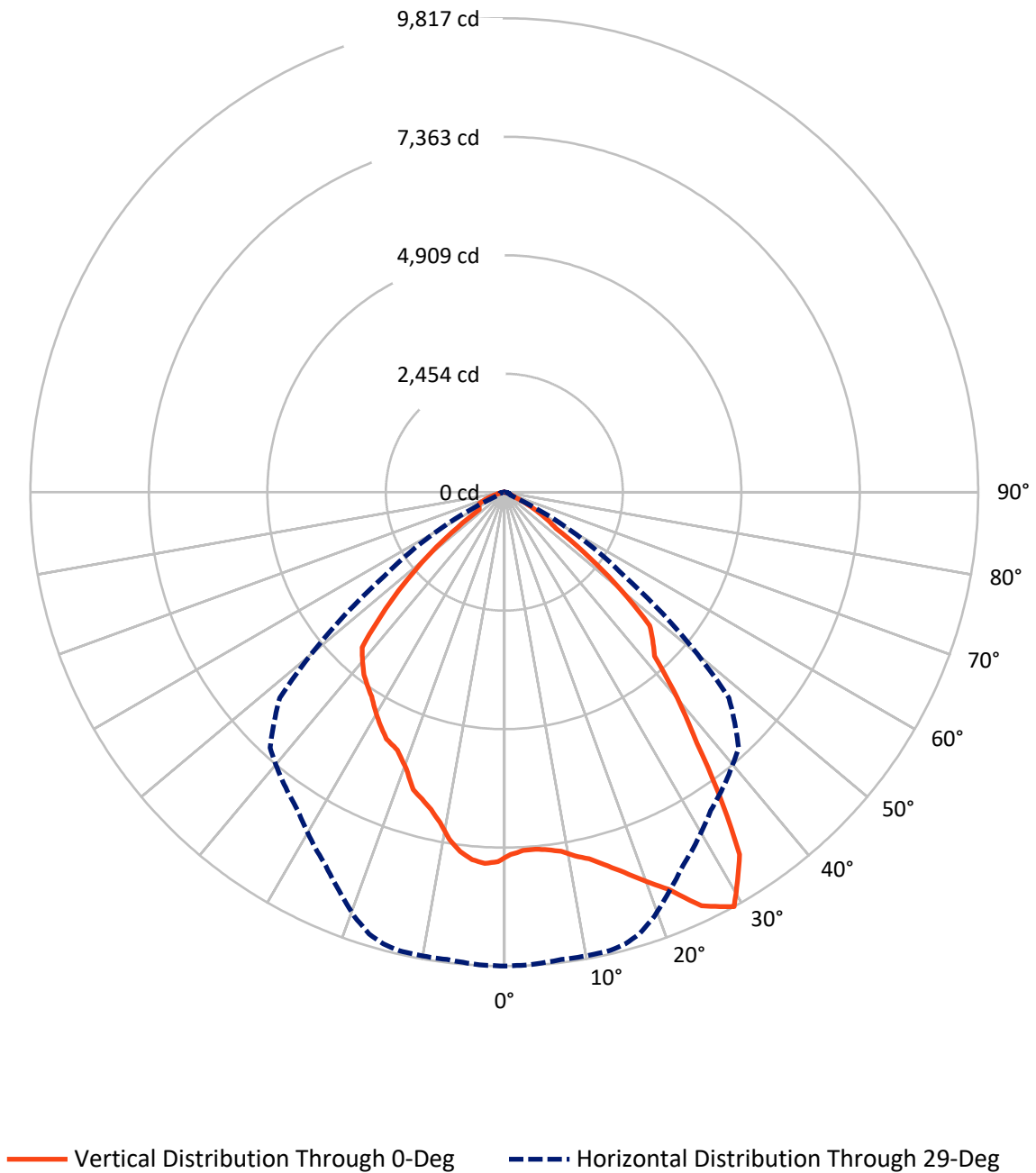
Lumen Table



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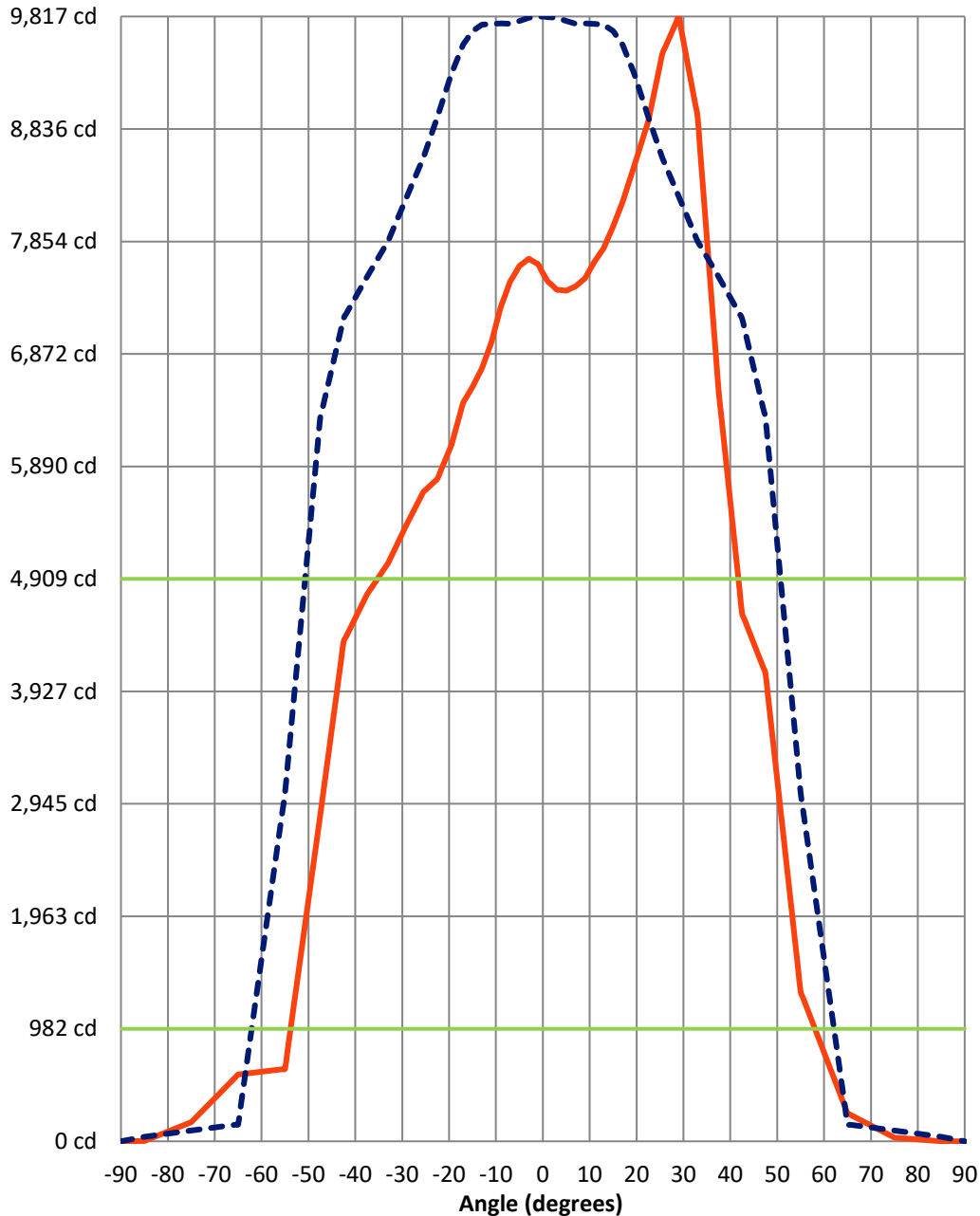
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 77°
 Lumens: 12858.2
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 111.9°
 Lumens: 17217.6
 Efficiency: 96.8%

Spill:
 Lumens: 574.4
 Efficiency: 3.2%

— 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	9.9	11.2	14.1	18.3	22.6	28.0	29.5	31.0	32.5
75°	32.5	32.5	31.0	28.0	25.1	28.0	29.5	29.5	28.0	22.6	19.6
65°	244.3	244.3	245.7	241.5	231.8	226.1	220.5	228.9	245.7	259.9	242.8
55°	1306.1	1339.6	1338.3	1401.6	1426.8	1473.0	1513.9	1526.5	1529.3	1487.1	1393.1
47.5°	4085.2	4118.9	4107.5	4111.7	4083.7	4069.6	4042.8	4024.7	4013.5	3960.0	3767.8
42.5°	4608.9	4634.2	4653.8	4676.3	4687.5	4693.2	4691.7	4669.2	4607.4	4493.8	4385.5
37.5°	6552.5	6617.0	6619.8	6621.2	6591.7	6570.9	6583.3	6543.9	6482.3	6378.2	6195.7
33°	8948.2	8957.9	8991.7	8988.9	8991.7	8929.9	8944.0	8889.2	8792.3	8679.9	8507.3
29°	9817.4	9811.7	9806.2	9778.2	9754.2	9756.9	9752.7	9745.8	9689.7	9571.7	9317.5
25.5°	9493.1	9472.0	9463.5	9415.9	9391.9	9422.9	9435.5	9422.9	9373.8	9240.4	8991.7
22.5°	8904.6	8889.2	8875.1	8856.8	8852.8	8865.4	8866.7	8866.7	8841.4	8745.9	8539.6
19.5°	8514.1	8504.4	8498.9	8480.6	8480.6	8489.0	8479.1	8449.6	8407.6	8337.2	8170.3
17°	8196.9	8188.4	8180.0	8172.9	8161.9	8161.9	8165.9	8136.6	8095.7	8024.1	7869.6
15°	7986.1	7976.4	7980.6	7968.0	7970.9	7958.1	7951.1	7933.0	7893.6	7805.1	7661.8
13°	7796.6	7792.4	7799.6	7791.0	7793.9	7781.0	7765.9	7755.8	7725.0	7642.2	7513.0
11°	7675.9	7670.2	7667.2	7670.2	7668.9	7667.2	7650.6	7629.5	7588.8	7501.8	7388.0
9°	7532.6	7526.9	7529.8	7534.0	7532.6	7531.3	7520.1	7506.0	7473.8	7404.8	7314.8
7°	7462.4	7466.6	7462.4	7467.9	7467.9	7469.5	7480.7	7490.4	7506.0	7504.5	7425.9
5°	7424.4	7425.9	7425.9	7432.9	7439.8	7458.2	7500.3	7556.4	7631.0	7691.5	7622.6
3°	7432.9	7431.4	7439.8	7453.9	7476.5	7514.4	7590.3	7691.5	7826.2	7906.2	7843.0
1°	7508.7	7513.0	7539.7	7567.8	7601.3	7637.9	7702.6	7786.7	7934.3	8022.8	8097.2
0°	7577.7	7587.4	7598.7	7635.2	7659.0	7691.5	7731.9	7799.6	7933.0	8012.9	8126.5
-1°	7654.8	7646.4	7666.2	7683.0	7698.2	7722.2	7746.1	7795.2	7906.2	7969.5	8027.0
-3°	7702.6	7709.6	7712.3	7713.8	7731.9	7731.9	7733.4	7768.6	7827.6	7845.8	7730.7
-5°	7639.2	7642.2	7636.7	7637.9	7650.6	7647.8	7625.3	7642.2	7636.7	7580.4	7459.6
-7°	7500.3	7504.5	7496.1	7491.9	7500.3	7461.1	7421.7	7407.6	7354.3	7295.5	7202.5
-9°	7278.4	7296.5	7271.4	7268.5	7250.4	7216.6	7169.0	7147.7	7095.9	7045.3	6968.1
-11°	6969.6	6994.7	6979.3	6987.7	6985.0	6985.0	6958.2	6941.6	6888.1	6822.1	6740.5
-13°	6746.2	6761.8	6756.1	6758.9	6770.2	6788.4	6768.6	6754.6	6699.9	6631.1	6552.5
-15°	6584.8	6602.9	6601.4	6600.2	6611.3	6625.5	6610.1	6593.2	6538.4	6468.2	6378.2
-17°	6445.7	6455.6	6459.8	6455.6	6454.1	6454.1	6437.2	6419.1	6365.6	6289.7	6188.8
-19.5°	6077.7	6091.8	6094.8	6091.8	6089.1	6090.3	6096.0	6073.5	6038.5	5990.9	5917.7
-22.5°	5781.6	5784.3	5787.0	5790.0	5790.0	5792.7	5791.5	5774.4	5746.4	5712.7	5632.6
-25.5°	5666.5	5667.8	5669.0	5670.5	5663.5	5662.1	5645.2	5621.4	5584.9	5551.2	5471.1
-29°	5388.3	5395.2	5396.7	5391.0	5389.8	5375.6	5350.4	5313.9	5277.4	5245.2	5166.4
-33°	5047.1	5054.0	5052.6	5039.9	5038.6	5016.1	4985.3	4944.6	4900.8	4843.5	4753.7
-37.5°	4773.3	4774.6	4773.3	4763.4	4756.2	4738.1	4707.1	4665.2	4610.4	4547.1	4461.4
-42.5°	4360.4	4360.4	4339.1	4319.5	4301.4	4260.5	4240.9	4211.6	4184.9	4163.8	4065.4
-47.5°	2842.1	2835.4	2808.6	2824.0	2817.0	2805.6	2814.1	2803.1	2777.6	2748.1	2689.1
-55°	631.9	633.3	648.7	685.4	716.4	733.0	727.5	689.6	690.9	723.1	677.0
-65°	582.8	584.2	587.0	591.2	591.2	592.7	606.6	623.4	633.3	651.7	667.1
-75°	167.1	169.9	171.3	168.4	165.9	169.9	175.6	171.3	172.6	172.6	157.2
-85°	3.0	7.0	14.1	19.6	23.8	29.5	33.5	37.9	39.2	39.2	39.2
-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):

	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°	32.5	32.5	32.5	32.5	32.5	32.5	31.0	31.0	31.0	31.0	31.0
75°	19.6	22.6	26.8	37.9	39.2	37.9	28.0	29.5	31.0	29.5	31.0
65°	190.9	120.8	77.3	60.5	50.6	60.5	56.1	47.6	40.9	29.5	29.5
55°	1265.2	307.5	296.3	977.3	294.9	865.2	231.8	137.6	64.5	29.5	31.0
47.5°	3599.4	3405.5	3226.9	3009.4	2790.3	2648.4	2136.1	240.3	81.4	35.2	32.5
42.5°	4234.0	4020.5	3910.9	3704.5	3461.5	3468.7	3256.7	266.8	87.0	47.6	33.5
37.5°	6001.8	5782.8	5533.1	5292.8	5028.7	4971.2	4617.3	299.3	94.0	63.2	35.2
33°	8253.2	7851.4	7501.8	7190.1	6806.7	6531.5	5667.8	2422.5	119.3	78.6	36.5
29°	8939.8	8583.0	8246.0	7857.1	7545.2	7182.9	6311.0	3040.4	147.5	94.0	39.2
25.5°	8670.0	8385.1	8098.5	7779.8	7560.8	7316.3	6551.1	3463.0	174.3	108.1	42.2
22.5°	8236.3	7956.8	7725.0	7506.0	7369.9	7184.4	6412.0	3731.3	196.4	120.8	43.4
19.5°	7872.5	7619.6	7421.7	7263.0	7201.2	6979.3	6177.6	3941.8	221.9	131.9	46.4
17°	7604.2	7379.6	7215.4	7125.4	7064.9	6749.0	6006.2	4106.2	244.3	140.4	47.6
15°	7427.4	7229.3	7103.0	7036.9	6942.9	6559.5	5886.7	4229.7	263.9	146.1	47.6
13°	7316.3	7161.8	7067.8	6956.8	6786.9	6377.0	5788.5	4346.3	280.9	150.3	49.3
11°	7239.0	7126.9	7036.9	6845.9	6607.3	6254.7	5726.8	4448.9	293.4	153.0	49.3
9°	7195.6	7083.2	6956.8	6711.2	6469.5	6171.9	5705.7	4545.7	303.3	156.0	50.6
7°	7258.8	7104.3	6916.1	6636.8	6377.0	6148.1	5707.0	4620.3	309.0	157.2	50.6
5°	7371.1	7157.6	6917.6	6565.2	6306.6	6132.5	5709.9	4676.3	309.0	158.7	50.6
3°	7510.0	7213.9	6919.0	6493.5	6246.3	6114.4	5712.7	4711.5	310.2	158.7	50.6
1°	7670.2	7212.4	6890.8	6428.8	6190.2	6086.3	5701.5	4724.0	304.8	156.0	50.6
0°	7687.1	7182.9	6855.8	6395.1	6159.3	6067.8	5691.6	4725.7	303.3	154.5	50.6
-1°	7650.6	7133.8	6814.9	6361.6	6125.5	6046.9	5683.1	4724.0	303.3	153.0	50.6
-3°	7369.9	7008.8	6714.0	6288.4	6042.7	5989.4	5663.5	4703.1	303.3	148.8	50.6
-5°	7164.8	6872.7	6594.5	6188.8	5934.6	5891.0	5624.3	4662.2	304.8	146.1	49.3
-7°	6975.1	6716.7	6448.6	6063.8	5815.3	5766.0	5558.2	4601.9	303.3	144.6	49.3
-9°	6784.2	6556.7	6287.0	5934.6	5691.6	5613.0	5471.1	4516.2	299.3	141.8	49.3
-11°	6591.7	6381.2	6121.3	5799.7	5575.0	5471.1	5365.7	4408.0	293.4	140.4	47.6
-13°	6413.4	6204.1	5958.4	5676.2	5461.2	5340.4	5256.4	4280.3	286.4	137.6	46.4
-15°	6219.7	6009.0	5795.5	5553.9	5357.3	5210.0	5146.5	4135.7	275.3	136.2	44.9
-17°	6011.7	5799.7	5608.7	5416.3	5239.5	5090.5	5034.4	3972.8	263.9	134.9	44.9
-19.5°	5743.6	5555.4	5396.7	5249.2	5080.6	4944.6	4896.8	3739.7	245.7	130.5	43.4
-22.5°	5455.7	5267.5	5141.1	5028.7	4884.2	4787.2	4783.0	3454.6	220.5	126.5	40.9
-25.5°	5309.7	5152.5	5023.0	4867.3	4718.3	4672.1	4665.2	3149.8	198.1	119.3	39.2
-29°	5027.5	4899.5	4781.7	4606.2	4472.7	4479.7	4486.7	2742.6	181.0	110.9	36.5
-33°	4631.2	4526.1	4405.3	4239.6	4149.7	4169.5	4149.7	2215.9	174.3	96.9	35.2
-37.5°	4349.0	4231.0	4086.6	3915.3	3787.4	3790.3	3682.0	306.2	167.1	80.1	33.5
-42.5°	3939.1	3903.9	3714.4	3568.4	3352.1	3176.4	2826.9	299.3	161.4	60.5	32.5
-47.5°	2638.7	2596.6	2553.1	2460.4	2290.3	2001.2	1530.5	261.1	153.0	40.9	32.5
-55°	698.0	682.4	730.3	681.0	591.2	289.4	276.7	157.2	127.9	31.0	31.0
-65°	689.6	664.1	473.2	248.7	181.0	199.4	255.4	161.4	60.5	31.0	31.0
-75°	115.3	70.2	42.2	46.4	57.5	85.6	82.8	42.2	33.5	31.0	31.0
-85°	39.2	37.9	37.9	36.5	35.2	35.2	33.5	32.5	32.5	31.0	31.0
-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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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)