

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: P393749

Luminaire Tested: **NFFLD-C40-D-UNV-66-7030-VG**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393749
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-C40-D-UNV-66-7030-VG
Description: FLOODLIGHT WITH WIRE GUARD
Light Source: (2) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

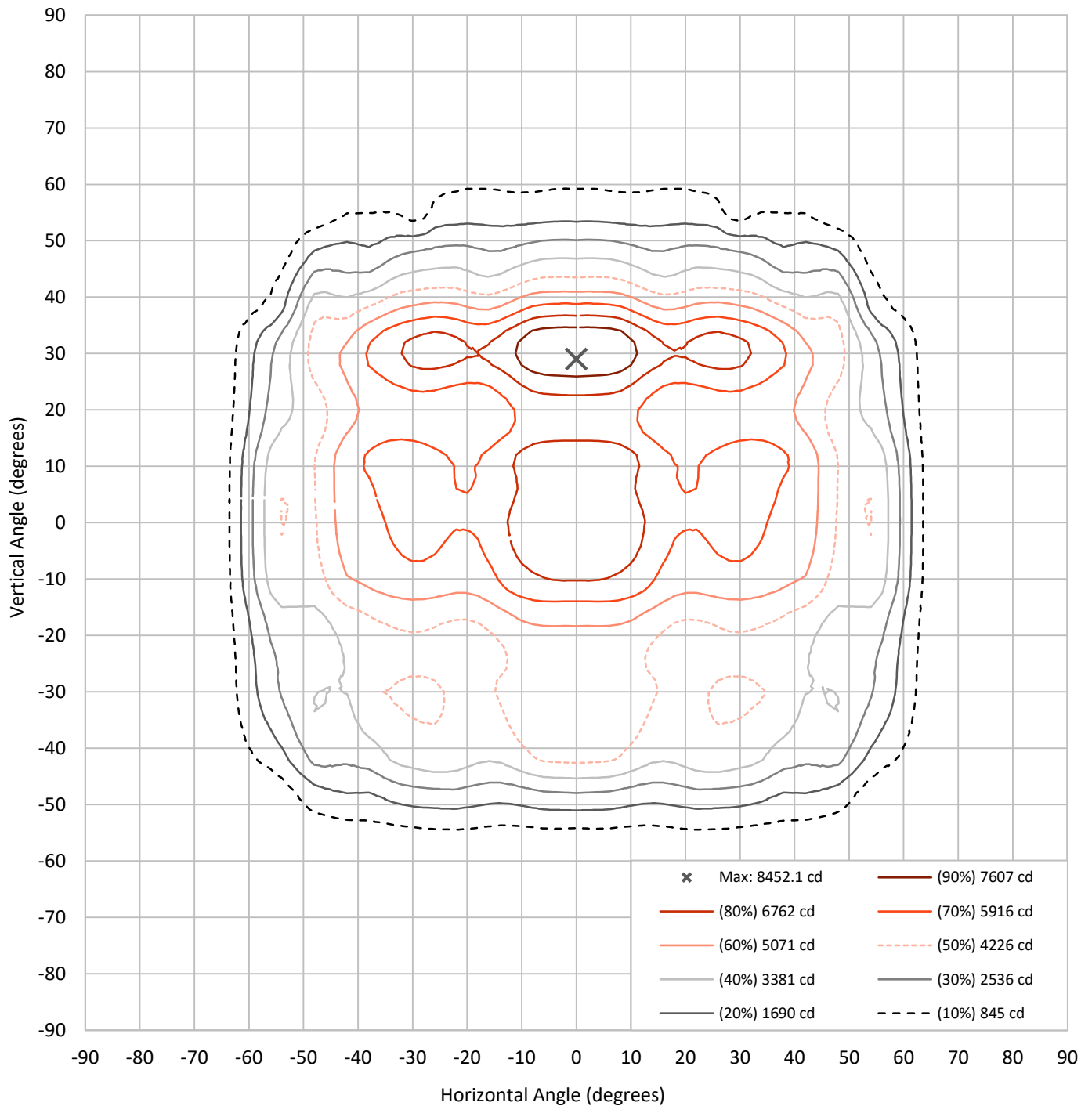
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	15060 lumens	Max Intensity:	8452.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	118.0 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	98.6°H x 86.3°V	Field Angle (10%):	125°H x 113.3°V
Beam Lumens:	9974.3 lumens	Field Lumens:	14418.8 lumens
Beam Efficiency:	66.2%	Field Efficiency:	95.7%
Input Watts (W):	127.6		
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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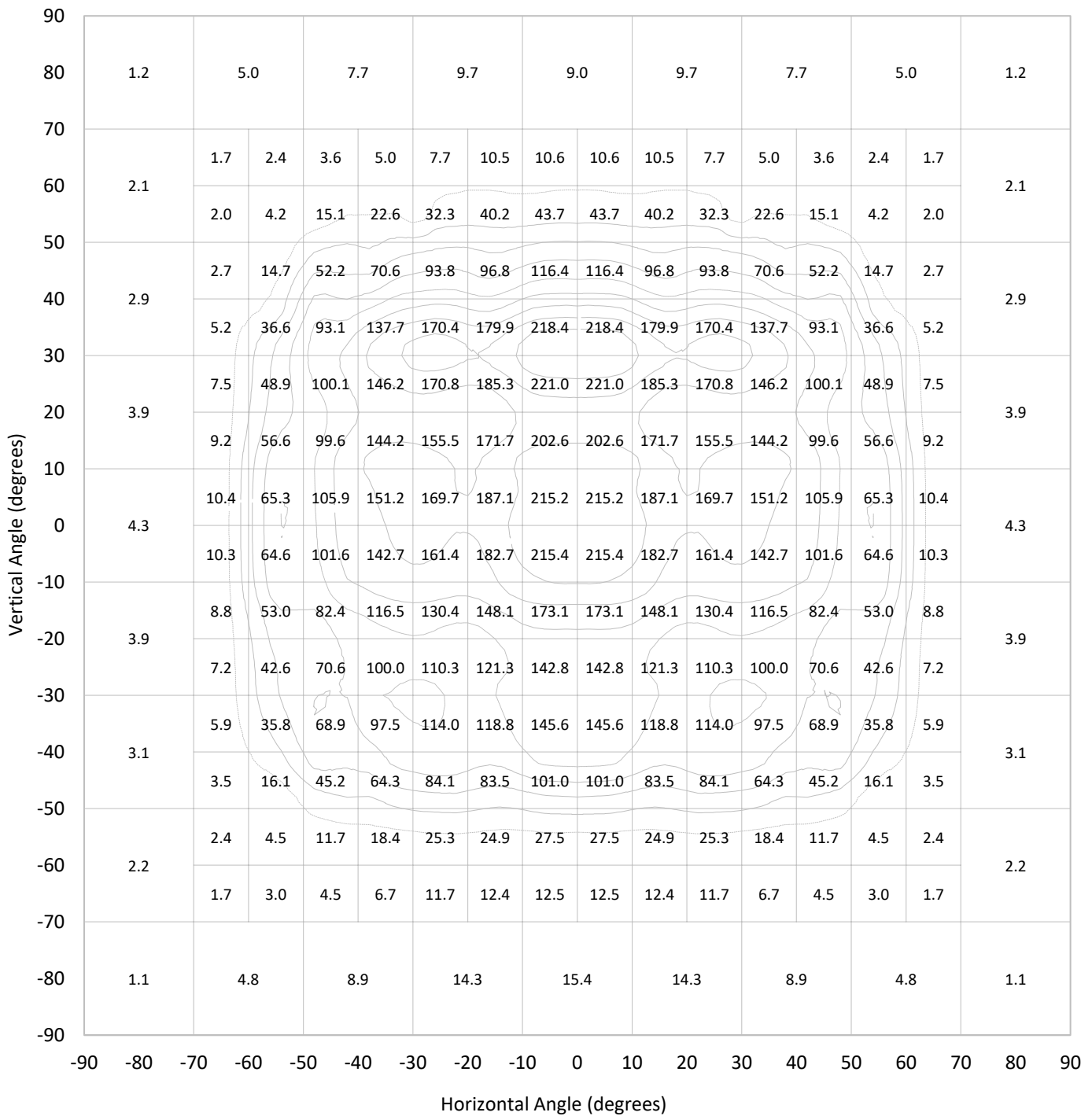
Iso-Candela Plot





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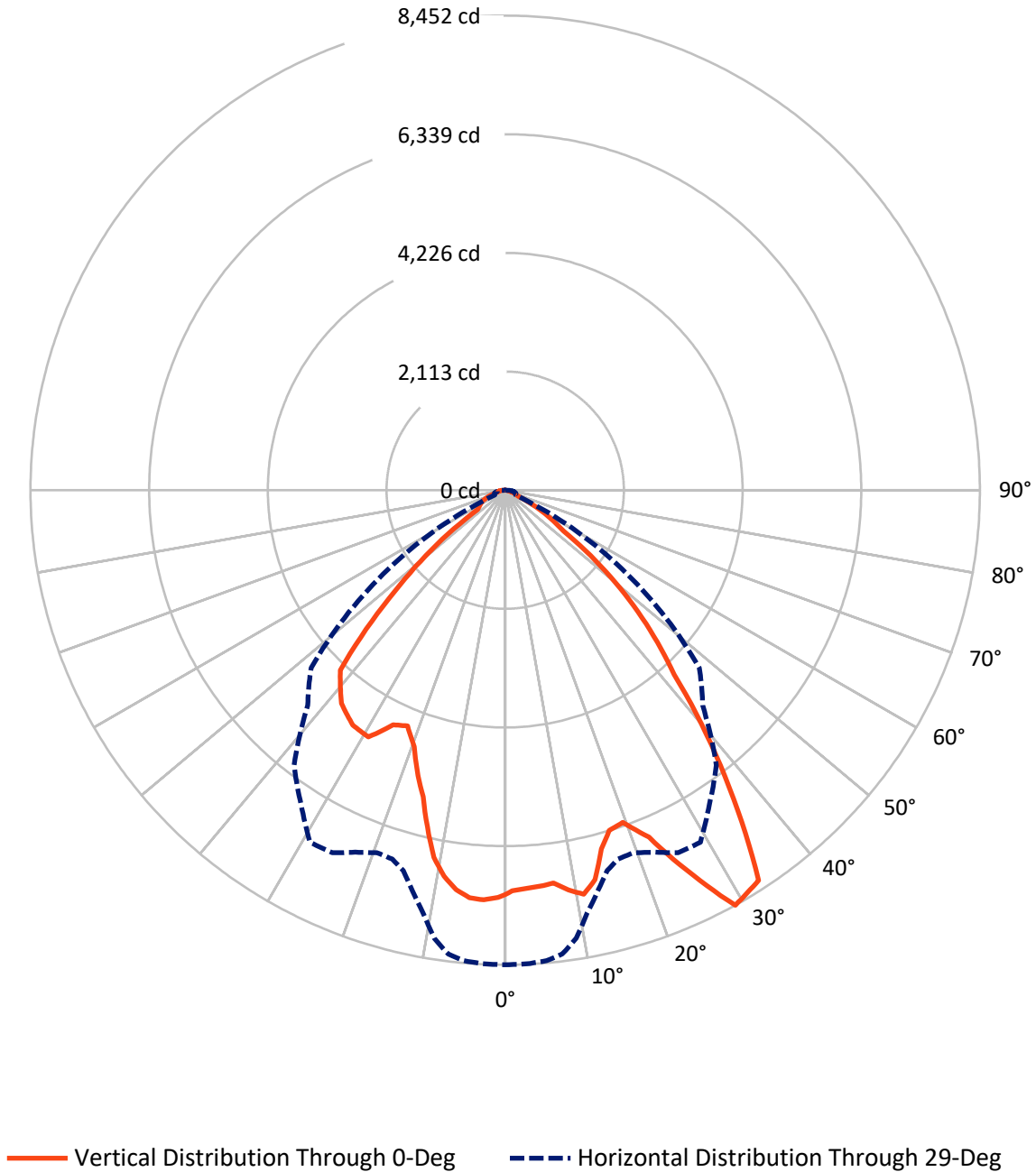
Lumen Table



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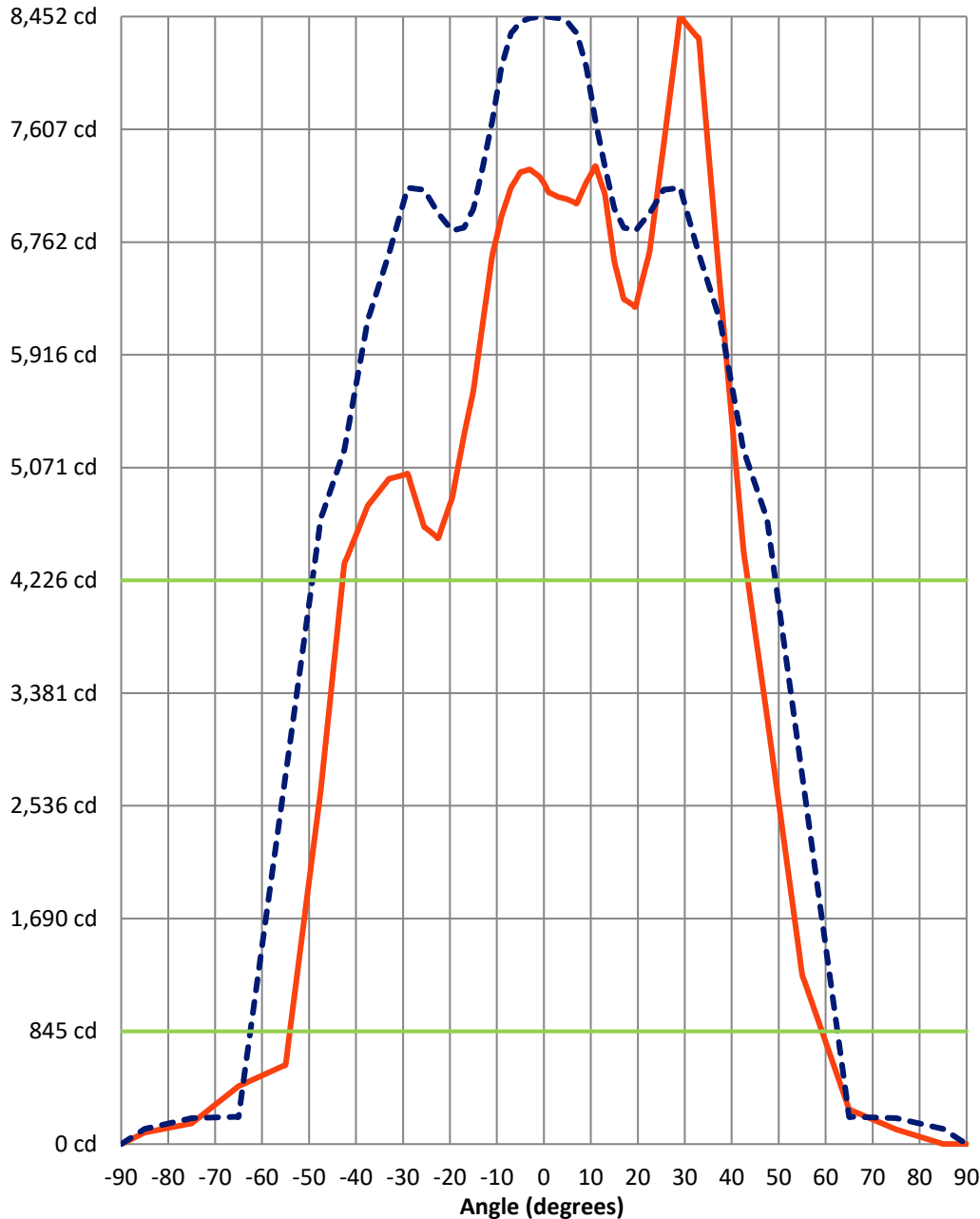
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 98.6°
 V Angle: 86.3°
 Lumens: 9974.3
 Efficiency: 66.2%

Field:
 H Angle: 125°
 V Angle: 113.3°
 Lumens: 14418.8
 Efficiency: 95.7%

Spill:
 Lumens: 641.2
 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°	1.2	5.9	29.7	36.7	39.2	44.0	53.4	60.4	68.7	75.8	80.7
75°	110.2	110.2	110.2	110.2	106.8	104.5	106.8	100.8	102.0	100.8	96.1
65°	259.8	259.8	252.8	238.4	225.4	227.7	236.1	249.1	275.2	258.7	254.9
55°	1270.5	1283.5	1288.3	1263.3	1205.3	1191.1	1180.2	1196.9	1263.3	1265.7	1291.8
47.5°	3208.9	3245.6	3242.0	3214.8	3187.6	3008.3	2892.0	2705.8	2624.1	2691.7	2865.0
42.5°	4453.2	4468.5	4473.5	4474.6	4452.0	4278.9	4091.5	3797.2	3595.4	3538.7	3749.8
37.5°	6428.2	6469.8	6474.7	6387.9	6358.2	6159.0	5794.7	5498.3	5206.5	5131.7	5261.2
33°	8283.7	8283.7	8280.1	8244.5	8181.7	7901.6	7459.2	7131.8	6764.1	6571.9	6633.5
29°	8452.1	8449.6	8440.2	8411.9	8325.2	8079.7	7668.0	7326.4	7013.2	6870.8	6847.1
25.5°	7488.9	7478.2	7456.9	7423.6	7363.1	7167.4	6822.2	6516.1	6212.4	6059.5	6036.9
22.5°	6689.4	6683.3	6686.9	6641.8	6613.3	6486.4	6224.3	5950.3	5685.8	5503.1	5429.6
19.5°	6276.5	6281.1	6285.9	6275.4	6249.3	6153.1	5914.7	5646.6	5408.0	5214.7	5129.4
17°	6335.8	6340.6	6338.3	6332.2	6305.0	6196.9	5964.4	5704.6	5467.5	5246.7	5140.1
15°	6616.9	6626.5	6619.4	6601.4	6568.3	6443.9	6204.0	5924.2	5698.8	5436.7	5327.4
13°	7117.5	7124.7	7117.5	7090.3	7040.3	6919.4	6682.2	6365.5	6123.4	5805.6	5664.4
11°	7331.0	7332.3	7329.8	7302.5	7255.2	7144.8	6887.3	6569.5	6321.5	6003.6	5832.8
9°	7206.6	7217.1	7210.1	7187.5	7155.5	7059.3	6817.4	6526.8	6299.1	6003.6	5860.1
7°	7051.1	7058.3	7055.8	7045.3	7019.1	6940.8	6727.1	6448.5	6258.7	5970.5	5844.8
5°	7081.9	7091.4	7090.3	7085.5	7058.3	6978.9	6779.5	6510.1	6353.6	6064.1	5922.9
3°	7101.0	7109.4	7118.8	7112.7	7101.0	7051.1	6873.3	6627.6	6471.1	6163.6	5988.3
1°	7135.5	7147.3	7162.6	7159.2	7163.8	7119.9	6947.9	6677.4	6493.5	6166.1	6041.7
0°	7204.1	7211.2	7227.7	7218.3	7208.9	7162.6	6972.8	6695.2	6486.4	6149.6	6048.8
-1°	7253.9	7258.7	7258.7	7244.5	7220.6	7166.1	6964.6	6678.7	6451.0	6092.6	5929.0
-3°	7306.1	7312.1	7289.5	7244.5	7211.2	7142.5	6931.3	6626.5	6376.2	5993.1	5784.2
-5°	7284.9	7289.5	7280.1	7206.6	7153.1	7079.4	6861.3	6550.5	6283.6	5899.2	5684.5
-7°	7168.5	7177.9	7143.7	7093.9	7002.5	6915.8	6684.6	6367.8	6091.3	5737.9	5546.9
-9°	6957.5	6982.2	6936.1	6898.0	6783.0	6683.3	6458.1	6168.6	5913.5	5594.4	5415.2
-11°	6658.6	6683.3	6665.7	6664.3	6579.0	6497.3	6300.2	6028.5	5783.0	5473.4	5290.7
-13°	6157.9	6192.3	6184.1	6224.3	6148.3	6098.5	5909.9	5683.5	5466.3	5161.3	5018.0
-15°	5650.2	5620.6	5620.6	5639.5	5588.4	5536.2	5360.7	5167.3	4957.2	4695.2	4562.4
-17°	5314.4	5295.5	5297.8	5307.4	5263.3	5213.6	5052.3	4855.2	4625.2	4378.5	4231.4
-19.5°	4848.1	4843.5	4845.8	4870.7	4847.0	4815.0	4669.2	4481.7	4274.1	4056.9	3924.1
-22.5°	4542.1	4546.9	4562.4	4558.8	4548.1	4520.9	4382.0	4218.2	4011.9	3825.6	3691.6
-25.5°	4628.8	4624.0	4632.3	4612.0	4595.5	4518.4	4340.5	4184.0	3958.6	3818.5	3720.1
-29°	5023.8	5019.0	5023.8	5009.6	4996.6	4891.0	4672.7	4496.0	4223.2	4093.8	3994.1
-33°	4985.9	4984.7	4985.9	4975.2	4944.3	4803.2	4555.2	4319.2	4045.2	3899.2	3882.6
-37.5°	4785.3	4781.7	4784.2	4768.7	4718.9	4545.8	4298.9	4026.1	3809.1	3727.2	3802.0
-42.5°	4346.4	4332.2	4326.3	4293.2	4223.2	3995.3	3766.4	3505.4	3391.4	3402.3	3581.4
-47.5°	2655.9	2630.0	2603.8	2582.6	2523.1	2353.5	2277.6	2160.1	2164.9	2227.8	2336.9
-55°	594.3	600.2	619.2	622.8	608.5	589.7	561.0	551.6	570.6	633.5	651.3
-65°	434.2	438.9	447.2	430.5	400.9	396.1	411.6	441.4	450.8	444.9	455.4
-75°	155.4	157.7	161.3	156.7	147.2	155.4	160.2	152.9	150.6	148.3	150.6
-85°	86.5	87.8	87.8	84.4	89.0	86.5	83.0	85.5	87.8	94.9	92.6
-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°	84.4	81.9	72.3	67.7	72.3	81.9	83.0	78.3	65.3	48.6	36.7
75°	93.6	98.5	103.1	106.8	110.2	103.1	104.5	112.7	110.2	89.0	49.9
65°	240.9	181.4	141.2	129.3	122.1	122.1	119.8	135.3	131.7	109.1	62.8
55°	1189.8	1166.1	258.7	784.1	798.3	768.6	222.9	186.2	155.4	121.1	77.1
47.5°	2932.4	2866.0	2753.3	2499.5	1864.8	2120.9	1962.1	245.5	160.2	134.1	87.8
42.5°	3978.6	3950.3	3864.8	3679.7	2939.6	2774.7	3160.1	766.4	159.0	148.3	94.9
37.5°	5518.6	5628.8	5465.0	5173.2	4544.6	3869.6	4211.3	1172.0	167.4	164.9	102.0
33°	6947.9	7081.9	6944.3	6577.7	5913.5	4888.5	4639.5	2435.4	187.5	181.4	108.1
29°	6977.4	7153.1	7168.5	6672.6	6174.5	5202.9	4686.8	2764.0	205.1	194.6	113.9
25.5°	6170.9	6344.0	6357.1	6092.6	5670.3	5027.4	4385.6	2811.4	220.6	205.1	117.3
22.5°	5512.5	5688.1	5772.3	5616.9	5384.4	4864.8	4021.5	2926.6	237.3	213.5	121.1
19.5°	5183.9	5351.2	5494.7	5426.0	5283.6	4799.5	3845.8	3079.5	254.9	219.5	124.6
17°	5162.7	5335.8	5522.0	5555.3	5411.6	4900.5	3875.5	3252.7	269.4	222.9	126.9
15°	5338.2	5536.2	5758.1	5843.5	5661.9	5111.6	3981.1	3491.3	274.0	226.6	128.2
13°	5689.2	5958.5	6226.6	6314.4	5997.7	5429.6	4160.4	3812.7	277.6	231.3	129.3
11°	5879.1	6188.7	6488.7	6497.3	6099.7	5591.9	4240.8	4024.9	278.6	237.3	130.5
9°	5911.2	6201.7	6459.2	6403.4	6009.6	5594.4	4224.3	4128.1	280.1	242.0	131.7
7°	5883.7	6160.2	6353.6	6277.6	5886.2	5577.7	4194.5	4178.0	280.1	245.5	131.7
5°	5965.6	6242.1	6394.0	6258.7	5849.4	5587.3	4198.1	4225.3	277.6	247.8	132.8
3°	6013.2	6280.1	6397.4	6196.9	5793.7	5567.2	4185.1	4245.6	275.2	246.8	132.8
1°	6027.4	6255.1	6347.7	6118.8	5727.3	5531.6	4155.4	4248.0	271.5	242.0	132.8
0°	5996.6	6224.3	6310.9	6086.7	5698.8	5512.5	4143.6	4248.0	278.6	239.6	132.8
-1°	5922.9	6177.0	6274.2	6060.5	5675.1	5494.7	4134.2	4248.0	274.0	236.1	132.8
-3°	5789.0	6065.3	6188.7	6004.8	5616.9	5441.3	4116.2	4238.5	274.0	231.3	132.8
-5°	5688.1	5953.7	6084.2	5919.5	5541.0	5351.2	4074.7	4212.3	272.9	229.0	131.7
-7°	5554.0	5793.7	5944.3	5810.2	5452.0	5233.7	4011.9	4161.4	269.4	229.0	131.7
-9°	5413.0	5626.3	5785.3	5670.3	5338.2	5084.4	3943.2	4090.2	266.9	229.0	130.5
-11°	5282.3	5468.7	5615.8	5509.0	5202.9	4907.6	3837.6	3952.6	263.3	226.6	129.3
-13°	5013.2	5143.7	5271.7	5179.3	4879.1	4570.7	3628.7	3688.0	259.8	224.1	128.2
-15°	4555.2	4662.1	4763.9	4697.7	4453.2	4111.6	3332.3	3359.4	256.2	220.6	125.7
-17°	4226.6	4354.6	4456.8	4389.1	4192.2	3806.8	3119.9	3116.2	253.9	217.0	124.6
-19.5°	3954.9	4117.6	4237.3	4165.0	4006.0	3565.9	2954.9	2905.2	250.3	214.7	122.1
-22.5°	3717.8	3883.9	3998.9	3956.1	3870.9	3411.7	2939.6	2704.7	242.0	212.4	118.6
-25.5°	3787.7	3945.5	4043.9	4013.1	3893.3	3346.6	3085.4	2578.9	234.8	210.1	116.3
-29°	4099.6	4315.6	4472.1	4272.9	4228.9	3382.0	3418.8	2532.7	229.0	205.1	111.5
-33°	4111.6	4323.8	4359.6	4214.8	4109.3	3110.3	3484.0	2262.3	224.1	195.8	106.8
-37.5°	4038.0	4166.1	4109.3	3930.0	3510.2	2900.4	3393.9	1767.4	215.8	180.4	100.8
-42.5°	3800.7	3904.0	3722.6	3531.5	2813.9	2596.7	2800.7	1127.0	211.2	161.3	93.6
-47.5°	2496.1	2429.5	2379.6	2192.2	1739.1	1784.1	1505.5	263.3	203.0	138.7	87.8
-55°	659.4	652.5	635.8	550.5	482.8	428.2	281.1	208.7	193.3	119.8	78.3
-65°	460.4	441.4	391.5	250.3	220.6	185.0	207.6	175.5	131.7	103.1	65.3
-75°	155.4	147.2	126.9	123.4	116.3	123.4	130.5	108.1	92.6	80.7	52.2
-85°	96.1	91.3	73.5	65.3	71.2	79.4	79.4	72.3	55.7	45.0	37.9
-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)