

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: P393756

Luminaire Tested: **NFFLD-C40-D-UNV-66-7060-VS**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393756
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-C40-D-UNV-66-7060-VS
Description: FLOODLIGHT WITH VANDAL SHIELD
Light Source: (2) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

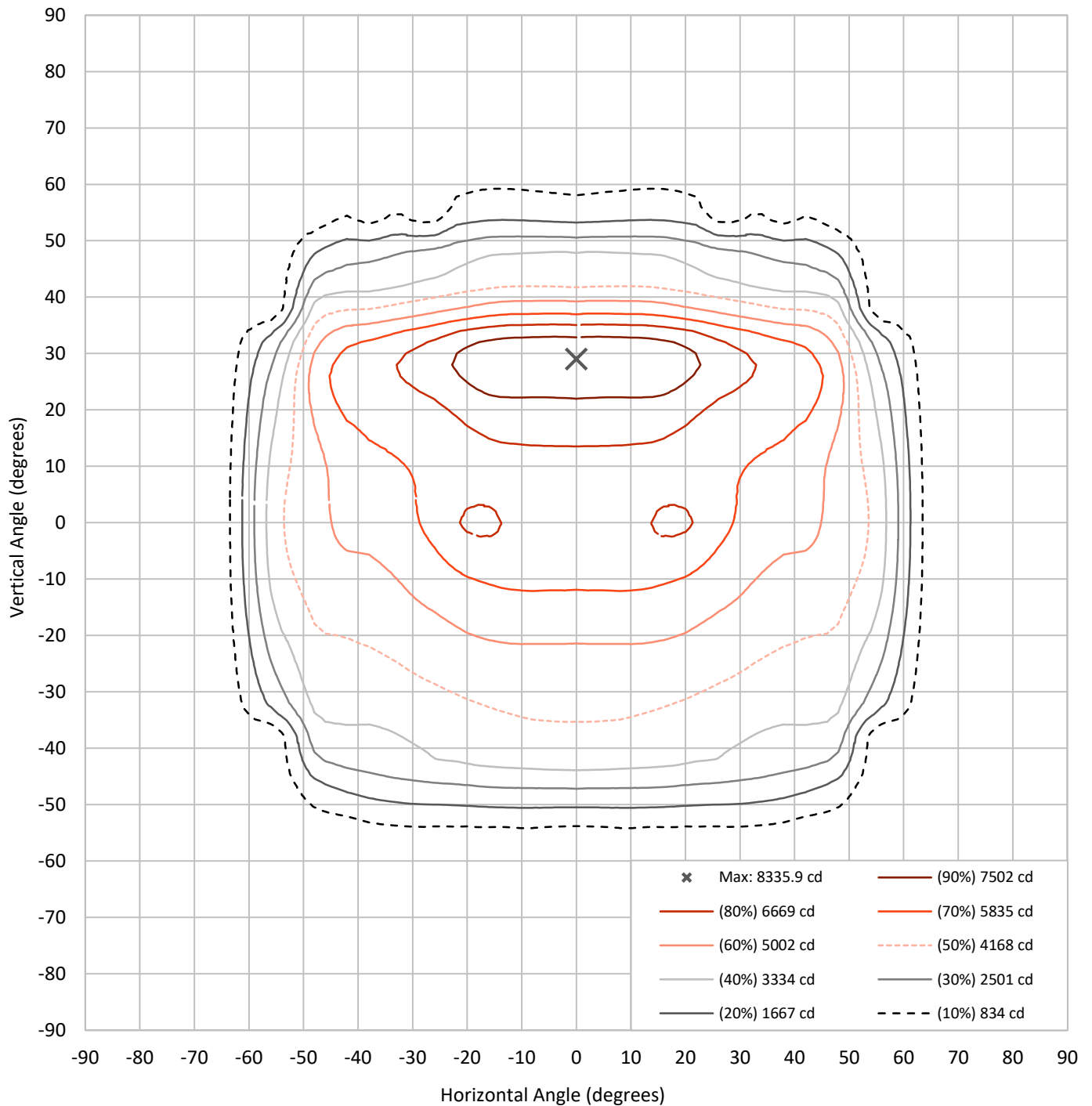
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	15107 lumens	Max Intensity:	8335.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	118.4 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	10917.7 lumens	Field Lumens:	14619.3 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
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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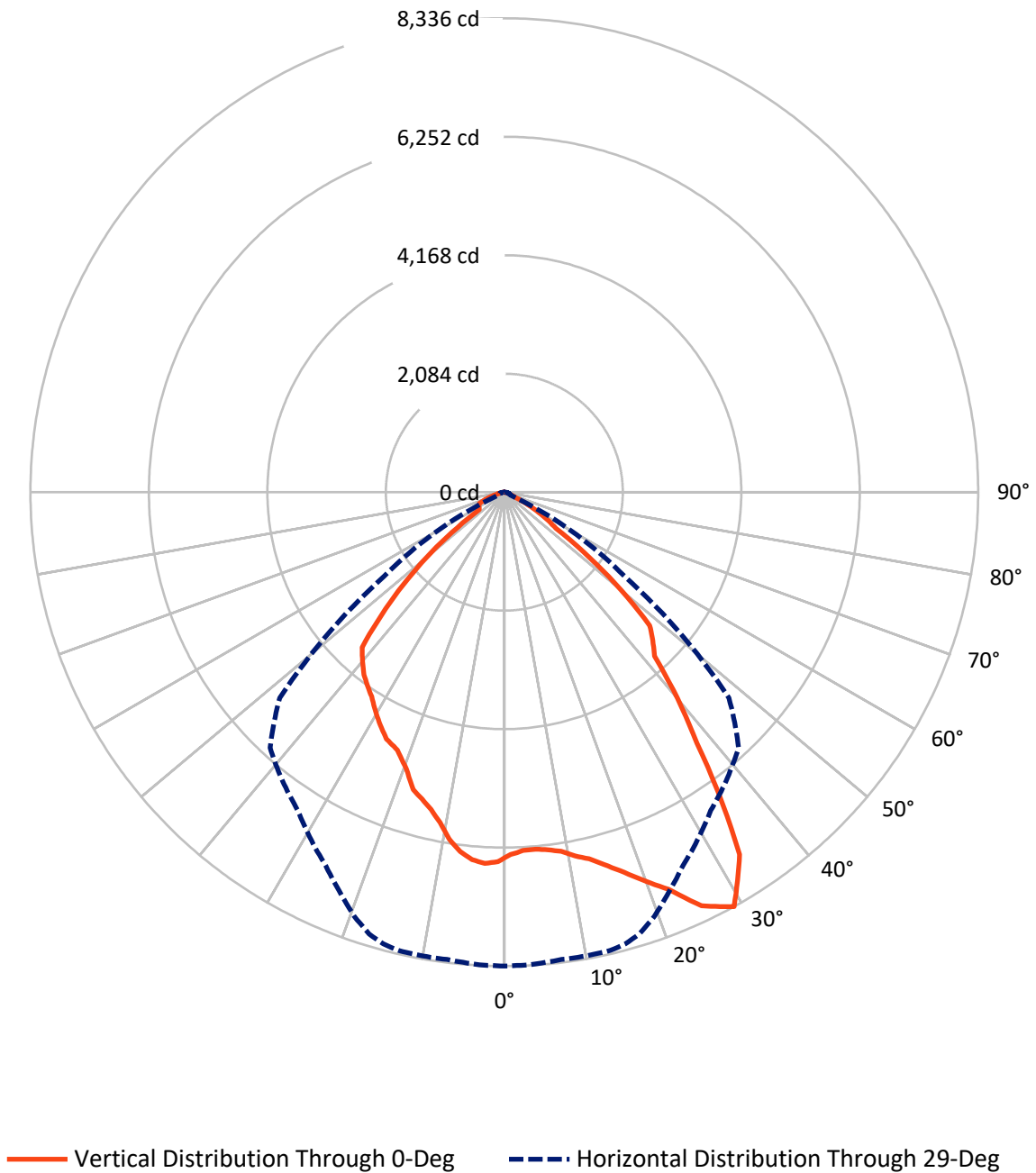
Iso-Candela Plot



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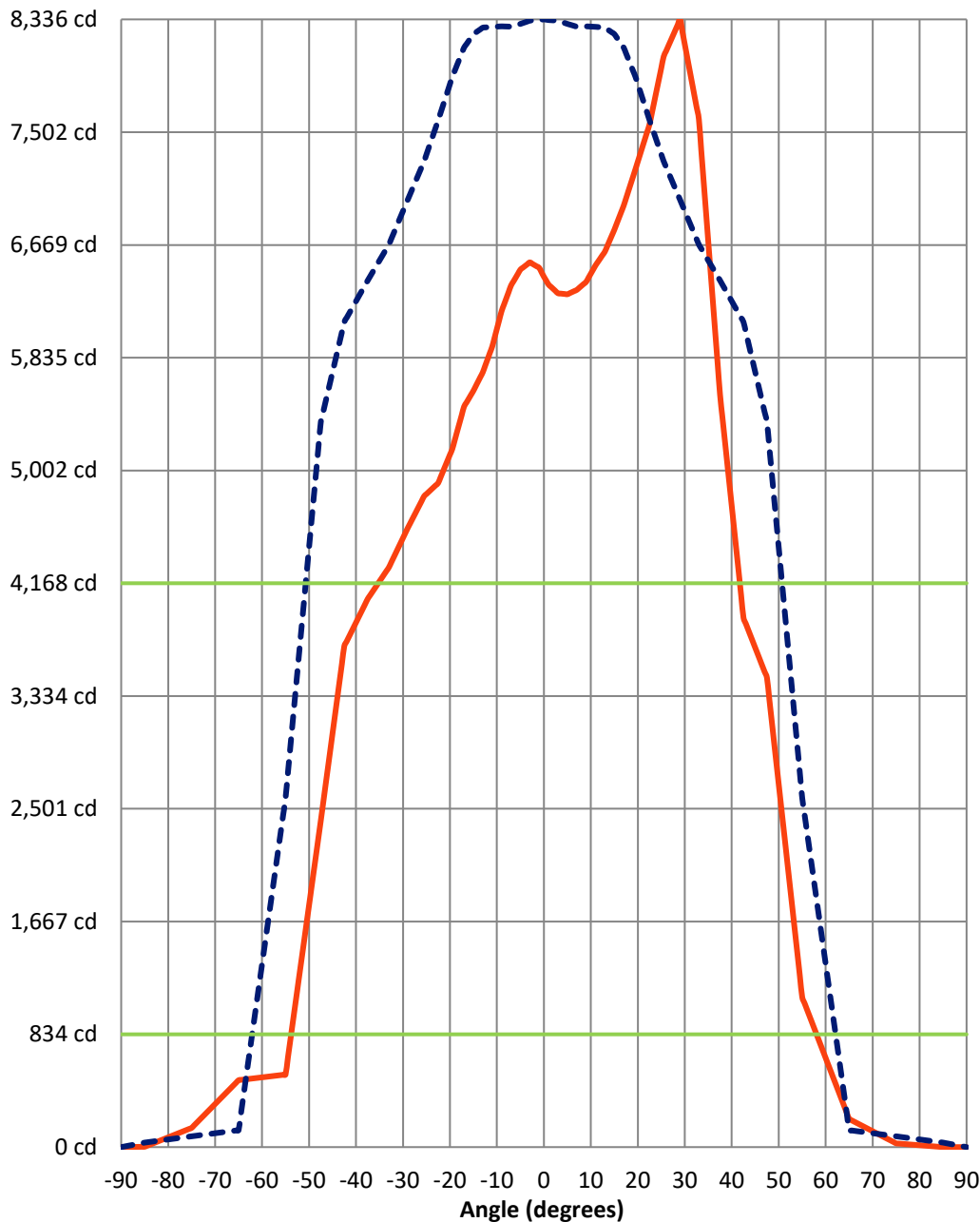
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 77°
 Lumens: 10917.7
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 111.9°
 Lumens: 14619.3
 Efficiency: 96.8%

Spill:
 Lumens: 487.7
 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	3.6	8.4	9.5	12.0	15.6	19.1	23.8	25.1	26.3	27.6
75°	27.6	27.6	26.3	23.8	21.3	23.8	25.1	25.1	23.8	19.1	16.6
65°	207.4	207.4	208.7	205.1	196.8	192.0	187.2	194.3	208.7	220.7	206.2
55°	1109.0	1137.4	1136.4	1190.0	1211.5	1250.7	1285.4	1296.2	1298.5	1262.7	1182.9
47.5°	3468.7	3497.3	3487.6	3491.2	3467.4	3455.4	3432.7	3417.3	3407.8	3362.4	3199.2
42.5°	3913.4	3934.8	3951.5	3970.6	3980.1	3985.0	3983.7	3964.5	3912.1	3815.7	3723.7
37.5°	5563.7	5618.4	5620.8	5622.0	5597.0	5579.3	5589.8	5556.3	5504.1	5415.7	5260.7
33°	7597.9	7606.1	7634.7	7632.4	7634.7	7582.3	7594.3	7547.7	7465.4	7370.0	7223.5
29°	8335.9	8331.0	8326.4	8302.6	8282.2	8284.5	8280.9	8275.0	8227.4	8127.2	7911.4
25.5°	8060.5	8042.6	8035.4	7995.0	7974.6	8000.9	8011.6	8000.9	7959.2	7845.9	7634.7
22.5°	7560.8	7547.7	7535.8	7520.2	7516.8	7527.5	7528.6	7528.6	7507.1	7426.1	7250.9
19.5°	7229.2	7221.0	7216.3	7200.8	7200.8	7207.9	7199.5	7174.4	7138.8	7079.1	6937.3
17°	6959.9	6952.7	6945.6	6939.5	6930.2	6930.2	6933.6	6908.7	6874.0	6813.1	6682.0
15°	6780.9	6772.7	6776.3	6765.5	6768.0	6757.1	6751.2	6735.8	6702.4	6627.2	6505.5
13°	6620.0	6616.5	6622.6	6615.2	6617.7	6606.8	6593.9	6585.3	6559.2	6488.9	6379.2
11°	6517.5	6512.7	6510.2	6512.7	6511.6	6510.2	6496.0	6478.1	6443.6	6369.7	6273.1
9°	6395.8	6391.0	6393.5	6397.1	6395.8	6394.7	6385.3	6373.3	6345.9	6287.4	6211.0
7°	6336.2	6339.8	6336.2	6340.9	6340.9	6342.3	6351.8	6360.0	6373.3	6372.0	6305.3
5°	6304.0	6305.3	6305.3	6311.2	6317.1	6332.6	6368.4	6416.0	6479.4	6530.8	6472.2
3°	6311.2	6309.9	6317.1	6329.1	6348.2	6380.4	6444.9	6530.8	6645.1	6713.1	6659.4
1°	6375.6	6379.2	6401.9	6425.7	6454.2	6485.3	6540.2	6611.6	6736.9	6812.1	6875.2
0°	6434.1	6442.3	6452.0	6483.0	6503.2	6530.8	6565.1	6622.6	6735.8	6803.7	6900.1
-1°	6499.6	6492.5	6509.3	6523.6	6536.5	6556.9	6577.1	6618.8	6713.1	6766.8	6815.6
-3°	6540.2	6546.1	6548.5	6549.7	6565.1	6565.1	6566.4	6596.2	6646.4	6661.7	6564.0
-5°	6486.4	6488.9	6484.2	6485.3	6496.0	6493.7	6474.6	6488.9	6484.2	6436.4	6333.9
-7°	6368.4	6372.0	6364.9	6361.3	6368.4	6335.2	6301.7	6289.7	6244.4	6194.5	6115.6
-9°	6180.0	6195.4	6174.1	6171.6	6156.2	6127.6	6087.1	6069.1	6025.0	5982.1	5916.6
-11°	5917.8	5939.1	5926.1	5933.2	5930.9	5930.9	5908.2	5894.0	5848.6	5792.6	5723.3
-13°	5728.1	5741.4	5736.6	5738.9	5748.5	5763.9	5747.1	5735.3	5688.8	5630.4	5563.7
-15°	5591.1	5606.5	5605.2	5604.1	5613.6	5625.6	5612.5	5598.2	5551.7	5492.1	5415.7
-17°	5473.0	5481.4	5484.9	5481.4	5480.1	5480.1	5465.8	5450.4	5405.0	5340.5	5254.8
-19.5°	5160.5	5172.5	5175.0	5172.5	5170.2	5171.2	5176.1	5156.9	5127.2	5086.8	5024.7
-22.5°	4909.1	4911.4	4913.7	4916.2	4916.2	4918.6	4917.5	4903.0	4879.2	4850.6	4782.5
-25.5°	4811.4	4812.4	4813.5	4814.8	4808.9	4807.6	4793.3	4773.1	4742.1	4713.5	4645.5
-29°	4575.1	4581.0	4582.3	4577.5	4576.4	4564.4	4542.9	4512.0	4481.0	4453.6	4386.7
-33°	4285.4	4291.3	4290.1	4279.3	4278.3	4259.1	4233.0	4198.4	4161.2	4112.5	4036.3
-37.5°	4053.0	4054.0	4053.0	4044.5	4038.5	4023.1	3996.8	3961.1	3914.6	3860.9	3788.1
-42.5°	3702.4	3702.4	3684.3	3667.7	3652.3	3617.6	3600.9	3576.0	3553.3	3535.4	3451.8
-47.5°	2413.2	2407.5	2384.7	2397.8	2391.9	2382.2	2389.4	2380.1	2358.4	2333.4	2283.3
-55°	536.5	537.8	550.8	582.0	608.3	622.4	617.7	585.5	586.6	614.0	574.8
-65°	494.8	496.1	498.4	502.0	502.0	503.2	515.0	529.3	537.8	553.3	566.4
-75°	141.9	144.2	145.5	143.0	140.8	144.2	149.1	145.5	146.6	146.6	133.5
-85°	2.5	5.9	12.0	16.6	20.2	25.1	28.5	32.2	33.3	33.3	33.3
-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°	27.6	27.6	27.6	27.6	27.6	27.6	26.3	26.3	26.3	26.3	26.3
75°	16.6	19.1	22.7	32.2	33.3	32.2	23.8	25.1	26.3	25.1	26.3
65°	162.1	102.5	65.7	51.4	42.9	51.4	47.6	40.4	34.7	25.1	25.1
55°	1074.3	261.1	251.6	829.8	250.4	734.6	196.8	116.9	54.8	25.1	26.3
47.5°	3056.2	2891.5	2740.0	2555.3	2369.2	2248.7	1813.7	204.0	69.1	29.9	27.6
42.5°	3595.0	3413.7	3320.7	3145.5	2939.1	2945.2	2765.2	226.6	73.9	40.4	28.5
37.5°	5096.1	4910.1	4698.1	4494.1	4269.8	4221.0	3920.5	254.1	79.8	53.7	29.9
33°	7007.7	6666.6	6369.7	6105.0	5779.5	5545.8	4812.4	2056.9	101.3	66.7	31.0
29°	7590.7	7287.7	7001.6	6671.4	6406.6	6098.9	5358.6	2581.6	125.3	79.8	33.3
25.5°	7361.6	7119.7	6876.3	6605.7	6419.8	6212.2	5562.4	2940.4	148.0	91.8	35.8
22.5°	6993.3	6756.1	6559.2	6373.3	6257.7	6100.2	5444.3	3168.2	166.8	102.5	36.9
19.5°	6684.5	6469.7	6301.7	6166.9	6114.5	5926.1	5245.3	3347.0	188.4	112.0	39.4
17°	6456.7	6265.9	6126.5	6050.1	5998.7	5730.5	5099.8	3486.6	207.4	119.2	40.4
15°	6306.5	6138.3	6031.1	5974.9	5895.1	5569.6	4998.4	3591.4	224.1	124.0	40.4
13°	6212.2	6081.0	6001.2	5906.9	5762.7	5414.6	4915.0	3690.4	238.5	127.6	41.9
11°	6146.5	6051.3	5974.9	5812.8	5610.2	5310.8	4862.5	3777.5	249.1	129.9	41.9
9°	6109.7	6014.3	5906.9	5698.4	5493.2	5240.5	4844.6	3859.7	257.5	132.4	42.9
7°	6163.4	6032.2	5872.4	5635.3	5414.6	5220.3	4845.7	3923.0	262.3	133.5	42.9
5°	6258.7	6077.5	5873.6	5574.4	5354.8	5207.0	4848.2	3970.6	262.3	134.8	42.9
3°	6376.7	6125.2	5874.9	5513.6	5303.7	5191.6	4850.6	4000.5	263.4	134.8	42.9
1°	6512.7	6124.0	5850.9	5458.6	5256.1	5167.8	4841.1	4011.1	258.8	132.4	42.9
0°	6527.0	6098.9	5821.2	5430.0	5229.8	5152.1	4832.7	4012.5	257.5	131.2	42.9
-1°	6496.0	6057.2	5786.5	5401.6	5201.1	5134.4	4825.5	4011.1	257.5	129.9	42.9
-3°	6257.7	5951.1	5700.8	5339.5	5130.8	5085.5	4808.9	3993.4	257.5	126.3	42.9
-5°	6083.5	5835.5	5599.3	5254.8	5039.0	5001.9	4775.6	3958.6	258.8	124.0	41.9
-7°	5922.5	5703.1	5475.5	5148.7	4937.7	4895.8	4719.4	3907.5	257.5	122.8	41.9
-9°	5760.4	5567.3	5338.2	5039.0	4832.7	4765.9	4645.5	3834.6	254.1	120.4	41.9
-11°	5597.0	5418.2	5197.5	4924.5	4733.7	4645.5	4556.0	3742.8	249.1	119.2	40.4
-13°	5445.6	5267.9	5059.2	4819.6	4637.1	4534.5	4463.1	3634.4	243.2	116.9	39.4
-15°	5281.1	5102.2	4920.9	4715.8	4548.8	4423.7	4369.9	3511.6	233.7	115.6	38.1
-17°	5104.5	4924.5	4762.3	4598.9	4448.8	4322.3	4274.7	3373.3	224.1	114.5	38.1
-19.5°	4876.9	4717.1	4582.3	4457.0	4313.9	4198.4	4157.8	3175.4	208.7	110.8	36.9
-22.5°	4632.4	4472.6	4365.2	4269.8	4147.1	4064.8	4061.2	2933.2	187.2	107.4	34.7
-25.5°	4508.4	4374.9	4265.0	4132.8	4006.2	3967.1	3961.1	2674.5	168.2	101.3	33.3
-29°	4268.8	4160.1	4060.1	3911.0	3797.8	3803.7	3809.6	2328.7	153.7	94.1	31.0
-33°	3932.3	3843.0	3740.5	3599.8	3523.4	3540.2	3523.4	1881.5	148.0	82.3	29.9
-37.5°	3692.7	3592.5	3469.9	3324.4	3215.8	3218.3	3126.3	260.0	141.9	68.0	28.5
-42.5°	3344.7	3314.8	3153.9	3029.9	2846.3	2697.0	2400.3	254.1	137.1	51.4	27.6
-47.5°	2240.5	2204.7	2167.9	2089.1	1944.7	1699.2	1299.6	221.7	129.9	34.7	27.6
-55°	592.7	579.5	620.1	578.2	502.0	245.7	235.0	133.5	108.6	26.3	26.3
-65°	585.5	563.9	401.8	211.2	153.7	169.3	216.9	137.1	51.4	26.3	26.3
-75°	97.9	59.6	35.8	39.4	48.9	72.7	70.3	35.8	28.5	26.3	26.3
-85°	33.3	32.2	32.2	31.0	29.9	29.9	28.5	27.6	27.6	26.3	26.3
-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)