

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: P393750

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

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393750
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-66-7030-VS
Description: FLOODLIGHT WITH VANDAL SHIELD
Light Source: (2) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

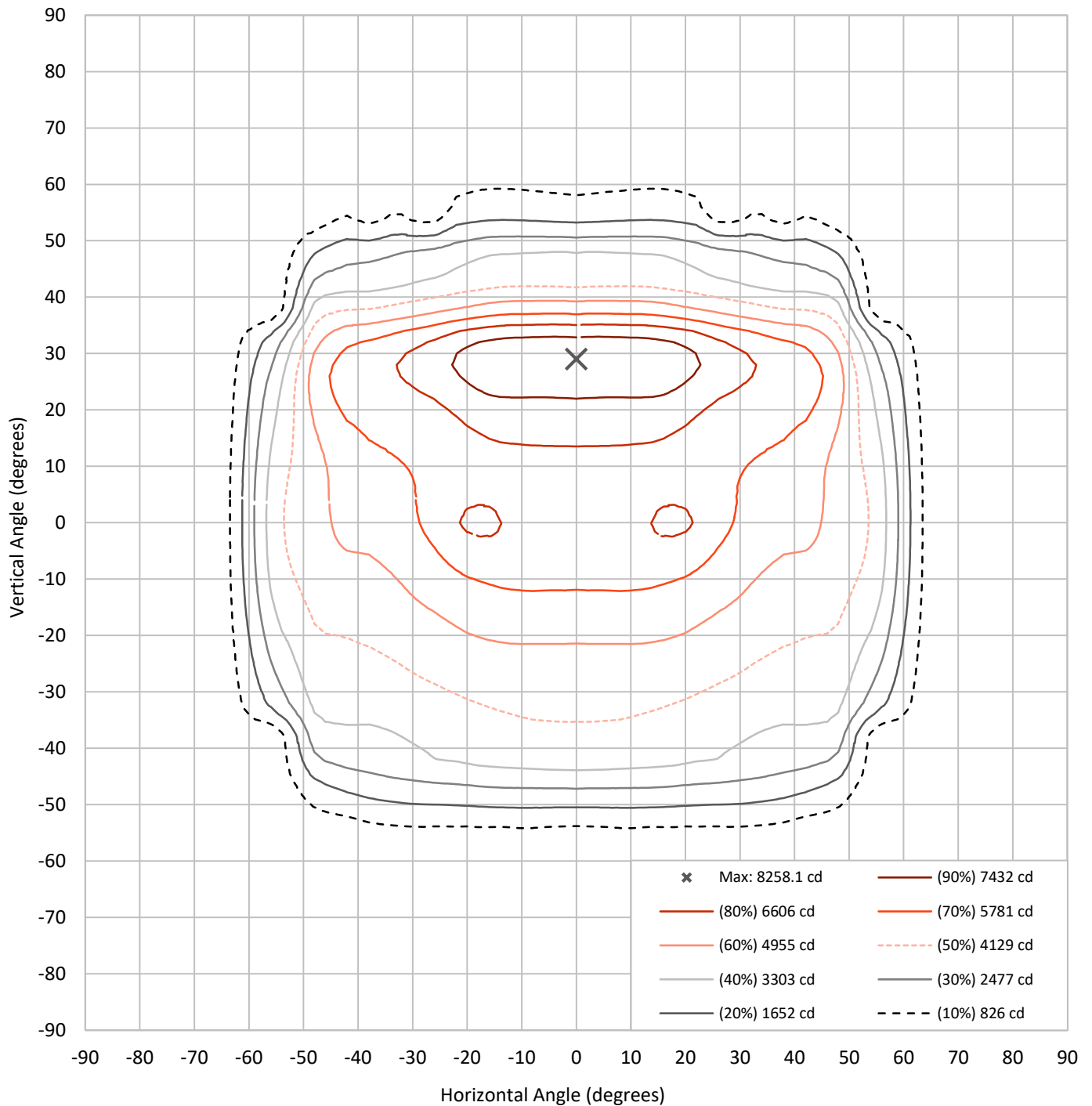
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	14966 lumens	Max Intensity:	8258.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	117.3 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	10815.8 lumens	Field Lumens:	14482.8 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
Input Watts (W):	127.6		
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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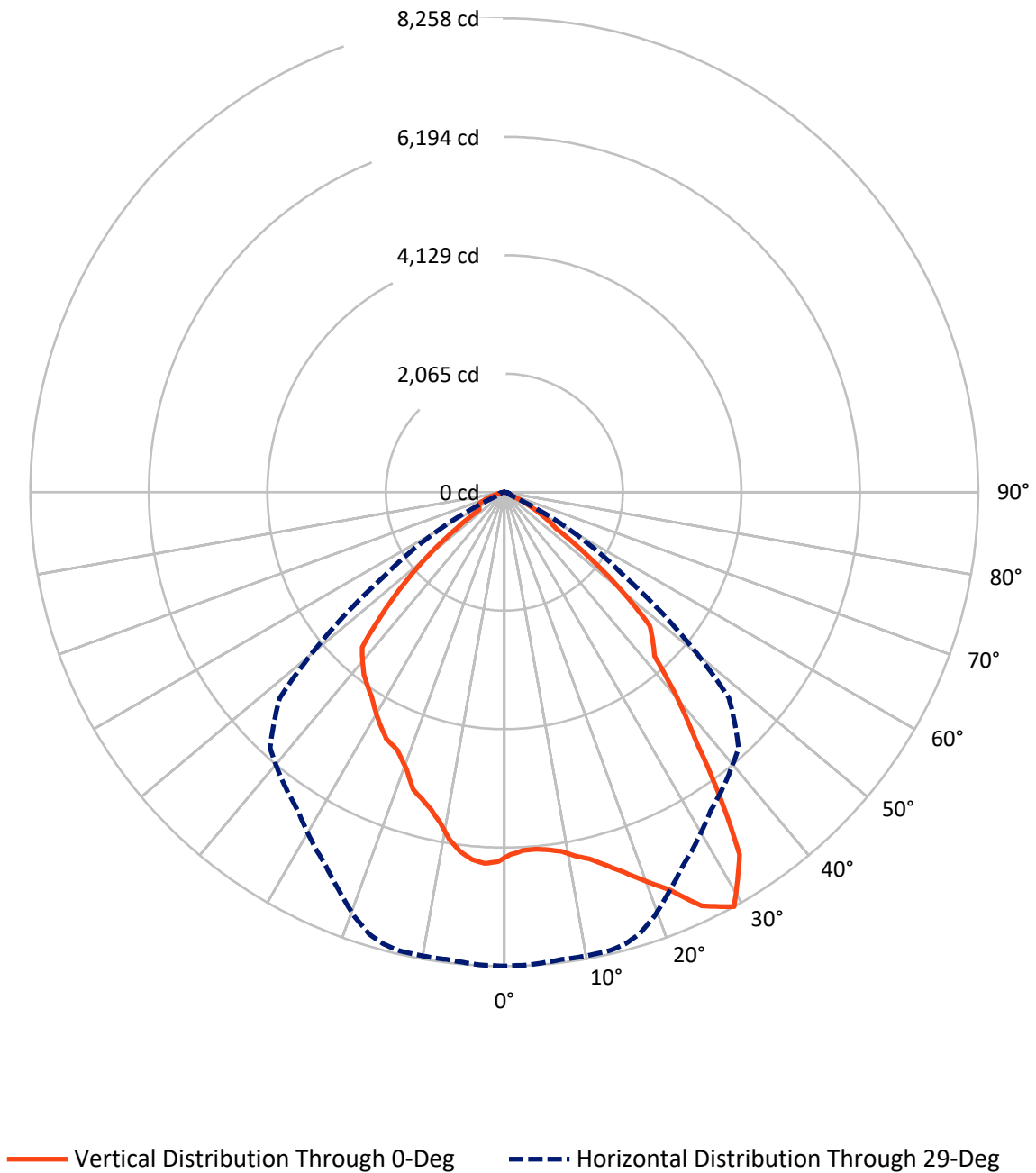
Iso-Candela Plot



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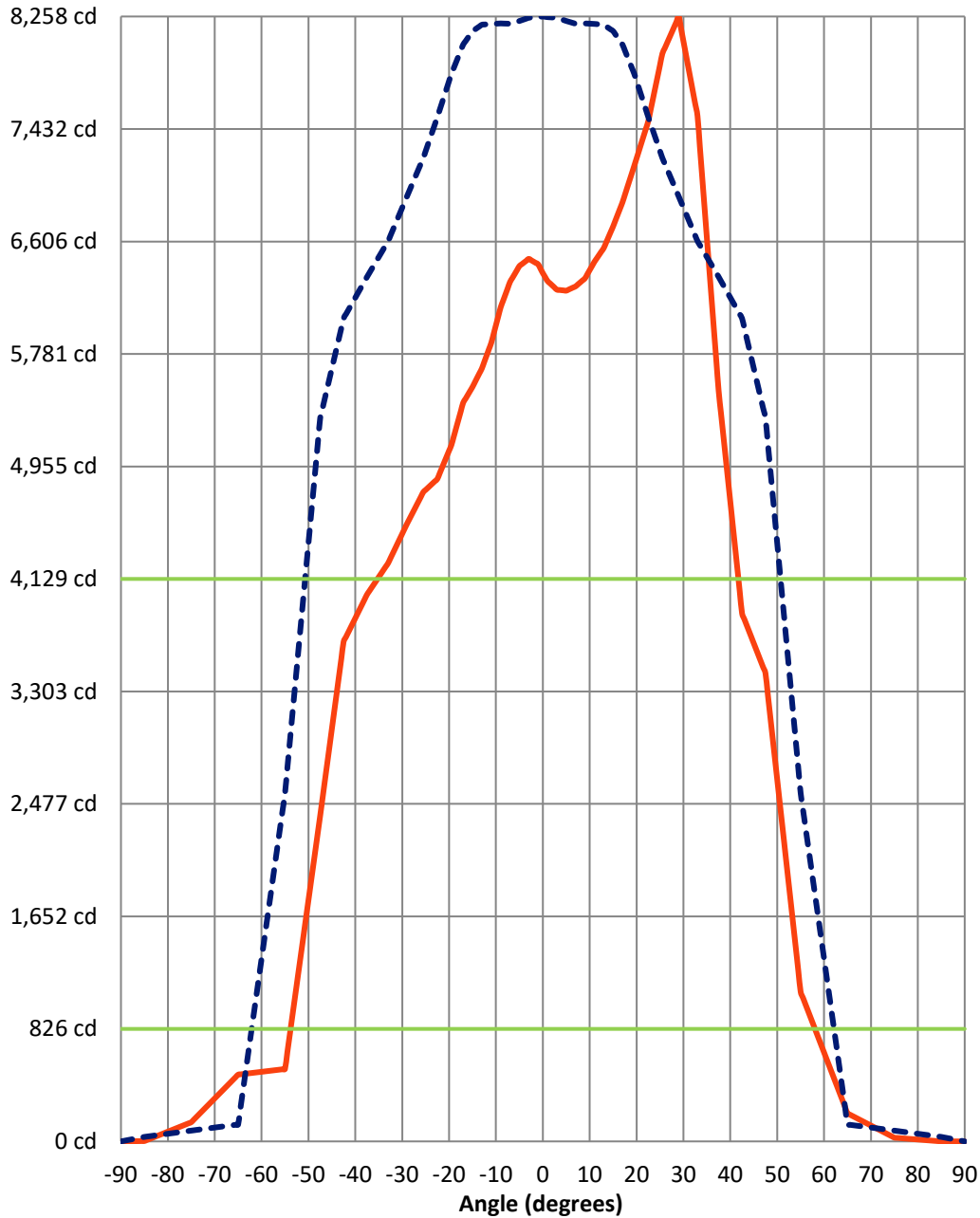
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 77°
 Lumens: 10815.8
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 111.9°
 Lumens: 14482.8
 Efficiency: 96.8%

Spill:
 Lumens: 483.2
 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	3.5	8.3	9.4	11.9	15.4	19.0	23.6	24.8	26.1	27.3
75°	27.3	27.3	26.1	23.6	21.1	23.6	24.8	24.8	23.6	19.0	16.5
65°	205.5	205.5	206.7	203.2	195.0	190.2	185.4	192.5	206.7	218.6	204.2
55°	1098.6	1126.8	1125.8	1178.9	1200.2	1239.0	1273.4	1284.1	1286.4	1250.9	1171.8
47.5°	3436.3	3464.7	3455.1	3458.6	3435.1	3423.2	3400.7	3385.4	3376.0	3331.0	3169.3
42.5°	3876.8	3898.1	3914.6	3933.6	3943.0	3947.8	3946.5	3927.5	3875.6	3780.0	3688.9
37.5°	5511.8	5566.0	5568.3	5569.5	5544.7	5527.2	5537.6	5504.5	5452.7	5365.1	5211.6
33°	7526.9	7535.1	7563.5	7561.2	7563.5	7511.5	7523.4	7477.3	7395.8	7301.3	7156.1
29°	8258.1	8253.3	8248.7	8225.1	8204.9	8207.2	8203.6	8197.8	8150.6	8051.3	7837.5
25.5°	7985.2	7967.5	7960.4	7920.3	7900.1	7926.2	7936.8	7926.2	7884.9	7772.7	7563.5
22.5°	7490.2	7477.3	7465.4	7450.0	7446.6	7457.3	7458.3	7458.3	7437.1	7356.7	7183.2
19.5°	7161.7	7153.6	7149.0	7133.5	7133.5	7140.6	7132.3	7107.5	7072.2	7013.0	6872.6
17°	6894.9	6887.8	6880.7	6874.7	6865.5	6865.5	6868.9	6844.2	6809.8	6749.6	6619.6
15°	6717.6	6709.5	6713.0	6702.4	6704.9	6694.1	6688.2	6673.0	6639.8	6565.4	6444.8
13°	6558.3	6554.7	6560.7	6553.5	6556.0	6545.1	6532.4	6523.9	6498.0	6428.3	6319.6
11°	6456.7	6451.9	6449.4	6451.9	6450.8	6449.4	6435.4	6417.7	6383.5	6310.2	6214.5
9°	6336.1	6331.3	6333.8	6337.4	6336.1	6335.1	6325.7	6313.8	6286.7	6228.7	6153.0
7°	6277.1	6280.6	6277.1	6281.7	6281.7	6283.1	6292.5	6300.7	6313.8	6312.5	6246.4
5°	6245.2	6246.4	6246.4	6252.3	6258.1	6273.5	6309.0	6356.2	6418.9	6469.8	6411.8
3°	6252.3	6251.0	6258.1	6270.0	6289.0	6320.9	6384.7	6469.8	6583.1	6650.4	6597.3
1°	6316.1	6319.6	6342.2	6365.7	6393.9	6424.8	6479.2	6549.9	6674.0	6748.5	6811.1
0°	6374.1	6382.2	6391.8	6422.5	6442.5	6469.8	6503.8	6560.7	6673.0	6740.2	6835.7
-1°	6439.0	6431.9	6448.5	6462.7	6475.5	6495.7	6515.7	6557.0	6650.4	6703.6	6752.0
-3°	6479.2	6485.0	6487.3	6488.6	6503.8	6503.8	6505.1	6534.7	6584.3	6599.6	6502.8
-5°	6425.8	6428.3	6423.7	6424.8	6435.4	6433.1	6414.1	6428.3	6423.7	6376.4	6274.8
-7°	6309.0	6312.5	6305.5	6301.9	6309.0	6276.0	6242.9	6231.0	6186.1	6136.7	6058.5
-9°	6122.3	6137.6	6116.5	6114.0	6098.7	6070.4	6030.3	6012.4	5968.8	5926.2	5861.4
-11°	5862.6	5883.7	5870.8	5877.8	5875.5	5875.5	5853.0	5839.0	5794.0	5738.5	5669.9
-13°	5674.7	5687.8	5683.0	5685.3	5694.9	5710.1	5693.5	5681.8	5635.7	5577.9	5511.8
-15°	5538.9	5554.1	5552.9	5551.8	5561.2	5573.1	5560.2	5546.0	5499.9	5440.8	5365.1
-17°	5421.9	5430.2	5433.8	5430.2	5429.0	5429.0	5414.8	5399.5	5354.5	5290.7	5205.8
-19.5°	5112.3	5124.2	5126.7	5124.2	5121.9	5123.0	5127.8	5108.8	5079.4	5039.3	4977.8
-22.5°	4863.3	4865.6	4867.9	4870.3	4870.3	4872.6	4871.6	4857.2	4833.6	4805.3	4737.9
-25.5°	4766.5	4767.5	4768.6	4769.8	4764.0	4762.7	4748.5	4728.5	4697.8	4669.5	4602.1
-29°	4532.4	4538.3	4539.5	4534.7	4533.7	4521.8	4500.5	4469.9	4439.2	4412.1	4345.8
-33°	4245.4	4251.3	4250.0	4239.4	4238.3	4219.4	4193.5	4159.3	4122.4	4074.2	3998.6
-37.5°	4015.1	4016.2	4015.1	4006.8	4000.8	3985.5	3959.5	3924.2	3878.1	3824.9	3752.7
-42.5°	3667.8	3667.8	3649.9	3633.4	3618.2	3583.8	3567.3	3542.7	3520.1	3502.4	3419.6
-47.5°	2390.7	2385.0	2362.5	2375.4	2369.6	2360.0	2367.1	2357.9	2336.4	2311.6	2262.0
-55°	531.5	532.7	545.7	576.5	602.6	616.6	612.0	580.1	581.1	608.3	569.4
-65°	490.2	491.4	493.7	497.3	497.3	498.5	510.2	524.4	532.7	548.2	561.1
-75°	140.6	142.9	144.1	141.6	139.5	142.9	147.7	144.1	145.2	145.2	132.3
-85°	2.5	5.9	11.9	16.5	20.0	24.8	28.2	31.9	33.0	33.0	33.0
-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):

	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°	27.3	27.3	27.3	27.3	27.3	27.3	26.1	26.1	26.1	26.1	26.1
75°	16.5	19.0	22.5	31.9	33.0	31.9	23.6	24.8	26.1	24.8	26.1
65°	160.6	101.6	65.1	50.9	42.5	50.9	47.2	40.1	34.4	24.8	24.8
55°	1064.2	258.7	249.3	822.1	248.0	727.8	195.0	115.8	54.2	24.8	26.1
47.5°	3027.7	2864.6	2714.4	2531.4	2347.1	2227.7	1796.8	202.1	68.4	29.6	27.3
42.5°	3561.5	3381.9	3289.7	3116.1	2911.7	2917.7	2739.4	224.4	73.2	40.1	28.2
37.5°	5048.5	4864.3	4654.2	4452.1	4230.0	4181.6	3883.9	251.7	79.1	53.2	29.6
33°	6942.3	6604.4	6310.2	6048.0	5725.6	5494.0	4767.5	2037.7	100.3	66.1	30.7
29°	7519.8	7219.7	6936.2	6609.1	6346.8	6042.0	5308.6	2557.5	124.1	79.1	33.0
25.5°	7292.9	7053.2	6812.1	6544.1	6359.9	6154.2	5510.5	2913.0	146.6	90.9	35.5
22.5°	6928.1	6693.0	6498.0	6313.8	6199.3	6043.3	5393.5	3138.6	165.2	101.6	36.5
19.5°	6622.1	6409.3	6242.9	6109.4	6057.4	5870.8	5196.4	3315.7	186.7	111.0	39.0
17°	6396.4	6207.4	6069.3	5993.6	5942.7	5677.0	5052.2	3454.0	205.5	118.1	40.1
15°	6247.7	6081.0	5974.8	5919.2	5840.1	5517.6	4951.7	3557.9	222.0	122.9	40.1
13°	6154.2	6024.3	5945.2	5851.8	5708.9	5364.1	4869.1	3655.9	236.3	126.4	41.5
11°	6089.2	5994.9	5919.2	5758.5	5557.8	5261.3	4817.2	3742.3	246.8	128.7	41.5
9°	6052.6	5958.2	5851.8	5645.3	5441.9	5191.6	4799.4	3823.7	255.1	131.2	42.5
7°	6105.8	5975.9	5817.6	5582.7	5364.1	5171.5	4800.5	3886.4	259.9	132.3	42.5
5°	6200.3	6020.7	5818.8	5522.4	5304.9	5158.4	4803.0	3933.6	259.9	133.5	42.5
3°	6317.2	6068.1	5820.1	5462.1	5254.2	5143.2	4805.3	3963.2	261.0	133.5	42.5
1°	6451.9	6066.8	5796.3	5407.7	5207.0	5119.6	4795.9	3973.6	256.4	131.2	42.5
0°	6466.1	6042.0	5766.9	5379.3	5180.9	5104.0	4787.6	3975.1	255.1	129.9	42.5
-1°	6435.4	6000.7	5732.5	5351.1	5152.6	5086.5	4780.5	3973.6	255.1	128.7	42.5
-3°	6199.3	5895.6	5647.6	5289.6	5082.9	5038.1	4764.0	3956.1	255.1	125.2	42.5
-5°	6026.8	5781.0	5547.0	5205.8	4992.0	4955.3	4731.0	3921.7	256.4	122.9	41.5
-7°	5867.2	5649.9	5424.4	5100.6	4891.6	4850.1	4675.3	3871.0	255.1	121.6	41.5
-9°	5706.6	5515.3	5288.4	4992.0	4787.6	4721.4	4602.1	3798.8	251.7	119.3	41.5
-11°	5544.7	5367.6	5149.0	4878.5	4689.5	4602.1	4513.5	3707.9	246.8	118.1	40.1
-13°	5394.7	5218.7	5012.0	4774.6	4593.8	4492.2	4421.5	3600.5	240.9	115.8	39.0
-15°	5231.8	5054.5	4875.0	4671.8	4506.4	4382.5	4329.1	3478.8	231.5	114.5	37.8
-17°	5056.8	4878.5	4717.9	4556.0	4407.3	4281.9	4234.8	3341.8	222.0	113.5	37.8
-19.5°	4831.3	4673.0	4539.5	4415.4	4273.6	4159.3	4119.0	3145.7	206.7	109.7	36.5
-22.5°	4589.2	4430.9	4324.5	4230.0	4108.4	4026.8	4023.3	2905.9	185.4	106.4	34.4
-25.5°	4466.3	4334.1	4225.2	4094.2	3968.9	3930.0	3924.2	2649.5	166.6	100.3	33.0
-29°	4228.9	4121.3	4022.2	3874.5	3762.3	3768.2	3774.0	2307.0	152.3	93.3	30.7
-33°	3895.6	3807.2	3705.6	3566.2	3490.5	3507.2	3490.5	1864.0	146.6	81.6	29.6
-37.5°	3658.3	3559.0	3437.5	3293.4	3185.8	3188.3	3097.1	257.6	140.6	67.4	28.2
-42.5°	3313.4	3283.8	3124.5	3001.6	2819.7	2671.8	2377.9	251.7	135.8	50.9	27.3
-47.5°	2219.6	2184.1	2147.6	2069.6	1926.5	1683.3	1287.4	219.7	128.7	34.4	27.3
-55°	587.2	574.0	614.3	572.8	497.3	243.4	232.8	132.3	107.6	26.1	26.1
-65°	580.1	558.6	398.0	209.2	152.3	167.7	214.9	135.8	50.9	26.1	26.1
-75°	97.0	59.0	35.5	39.0	48.4	72.0	69.7	35.5	28.2	26.1	26.1
-85°	33.0	31.9	31.9	30.7	29.6	29.6	28.2	27.3	27.3	26.1	26.1
-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)