

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: P393755

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

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393755
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-66-7060-VG
Description: FLOODLIGHT WITH WIRE GUARD
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:	15201 lumens	Max Intensity:	8531.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	119.1 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:	10067.7 lumens	Field Lumens:	14553.8 lumens
Beam Efficiency:	66.2%	Field Efficiency:	95.7%

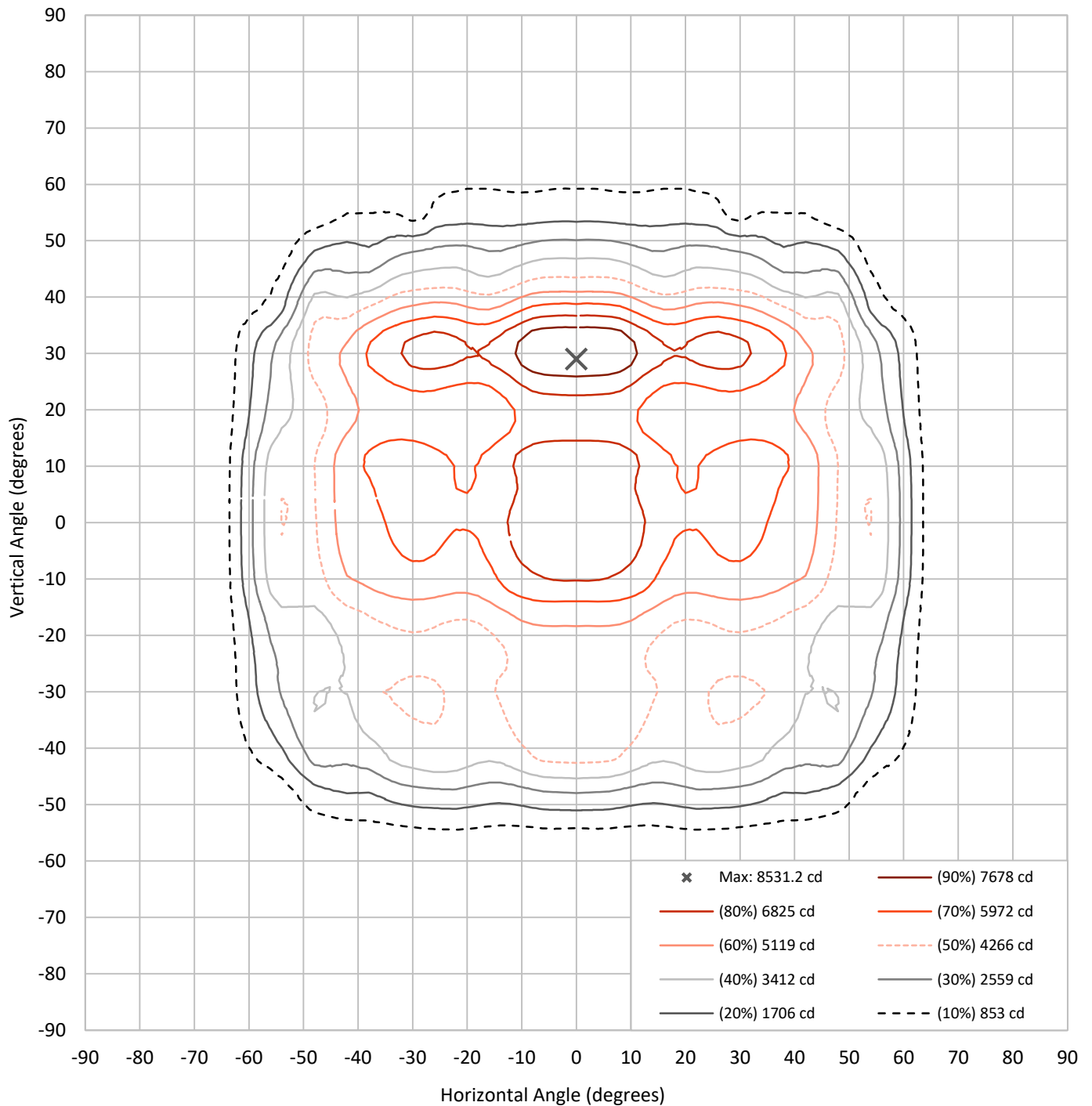
Input Watts (W): 127.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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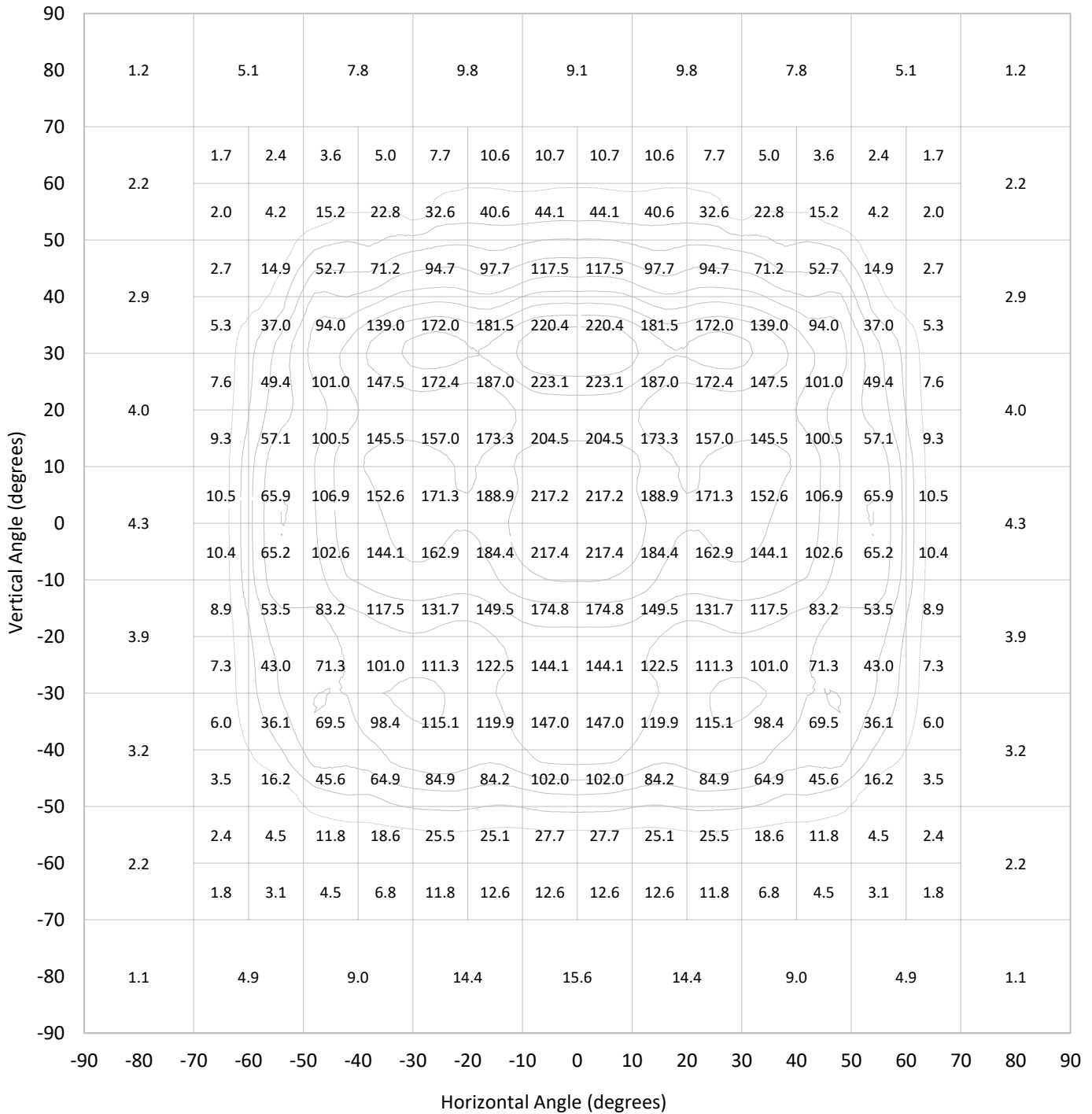
Iso-Candela Plot





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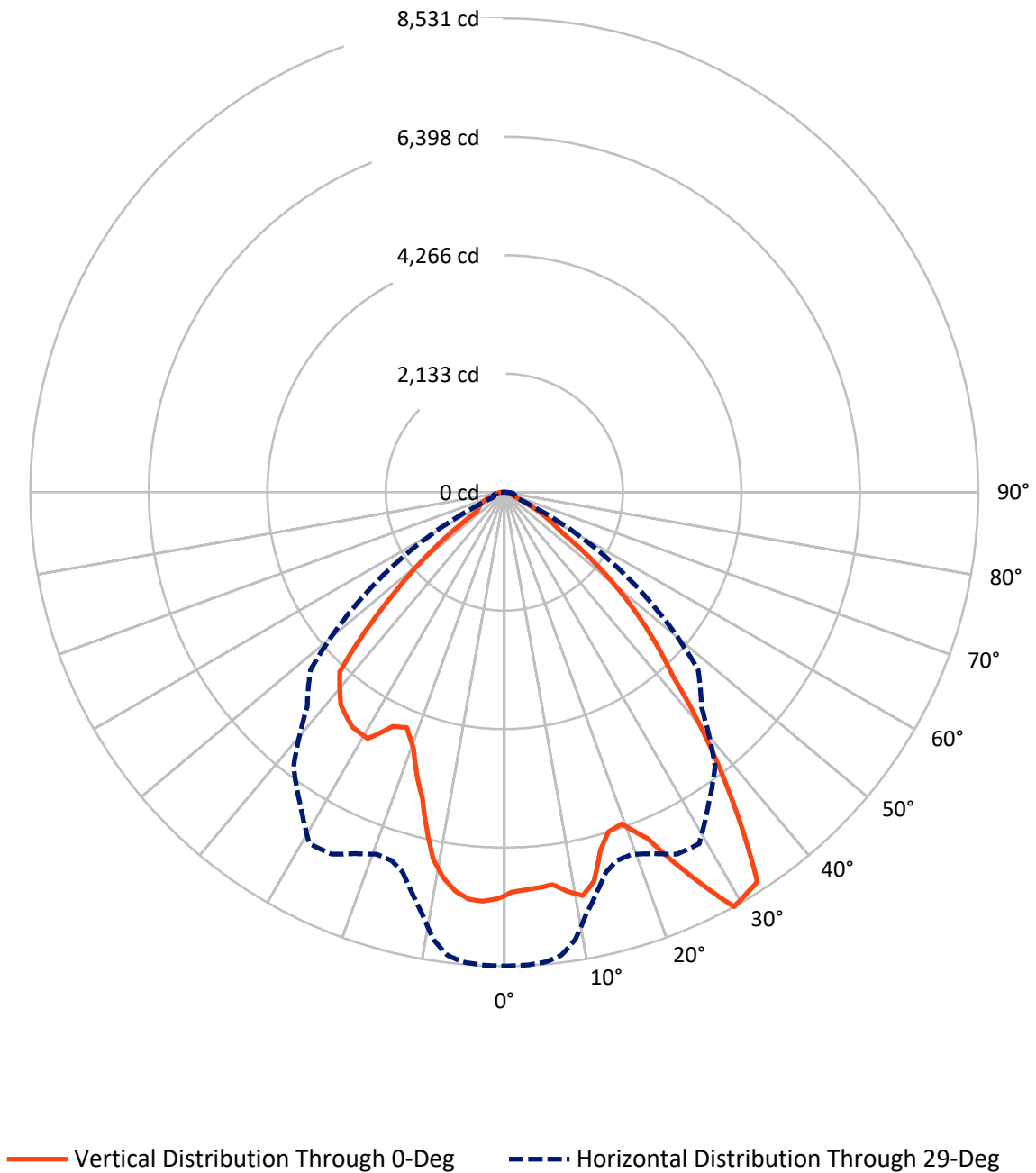
Lumen Table



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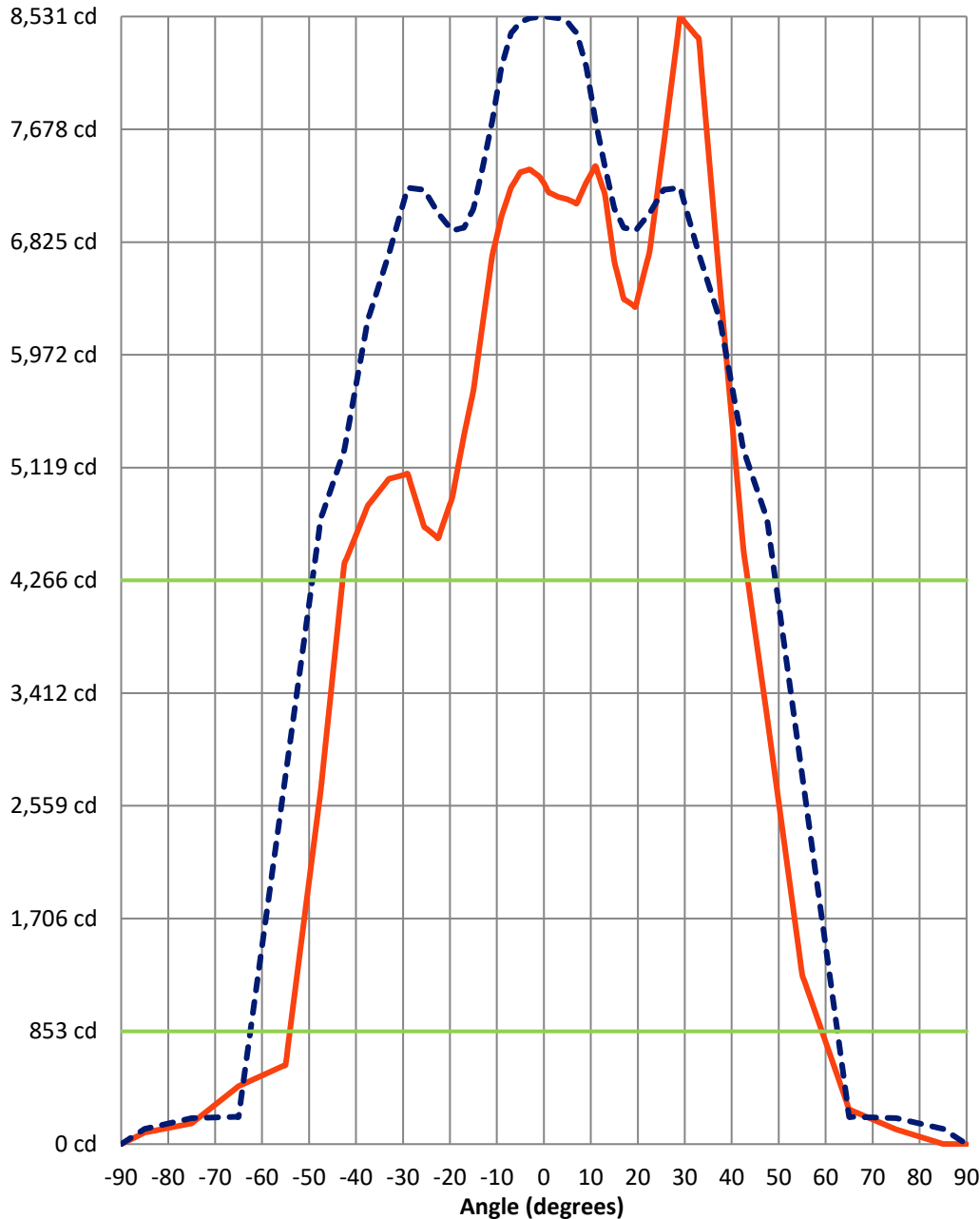
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 98.6°
 V Angle: 86.3°
 Lumens: 10067.7
 Efficiency: 66.2%

Field:
 H Angle: 125°
 V Angle: 113.3°
 Lumens: 14553.8
 Efficiency: 95.7%

Spill:
 Lumens: 647.2
 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°	1.3	5.9	30.0	37.0	39.5	44.4	53.9	60.9	69.4	76.6	81.4
75°	111.2	111.2	111.2	111.2	107.8	105.5	107.8	101.7	103.0	101.7	97.0
65°	262.2	262.2	255.2	240.6	227.5	229.8	238.3	251.4	277.8	261.1	257.3
55°	1282.4	1295.5	1300.3	1275.2	1216.6	1202.2	1191.3	1208.1	1275.2	1277.5	1303.9
47.5°	3239.0	3276.0	3272.4	3244.9	3217.4	3036.4	2919.1	2731.1	2648.6	2716.9	2891.8
42.5°	4494.9	4510.4	4515.4	4516.5	4493.7	4319.0	4129.8	3832.7	3629.1	3571.8	3784.9
37.5°	6488.4	6530.4	6535.3	6447.8	6417.7	6216.7	5849.0	5549.8	5255.2	5179.8	5310.4
33°	8361.2	8361.2	8357.6	8321.7	8258.3	7975.6	7529.0	7198.6	6827.5	6633.4	6695.6
29°	8531.2	8528.7	8519.2	8490.6	8403.1	8155.3	7739.8	7395.0	7078.9	6935.1	6911.2
25.5°	7559.0	7548.3	7526.7	7493.1	7432.0	7234.5	6886.1	6577.1	6270.6	6116.2	6093.4
22.5°	6752.0	6745.9	6749.5	6704.0	6675.3	6547.1	6282.6	6006.0	5739.0	5554.6	5480.4
19.5°	6335.3	6339.9	6344.8	6334.2	6307.8	6210.7	5970.1	5699.5	5458.7	5263.5	5177.4
17°	6395.1	6400.0	6397.6	6391.5	6364.0	6254.9	6020.2	5758.1	5518.7	5295.9	5188.2
15°	6678.9	6688.6	6681.4	6663.2	6629.8	6504.2	6262.1	5979.6	5752.1	5487.6	5377.3
13°	7184.2	7191.4	7184.2	7156.7	7106.2	6984.2	6744.8	6425.1	6180.7	5859.9	5717.4
11°	7399.6	7400.9	7398.4	7370.9	7323.1	7211.7	6951.8	6631.1	6380.7	6059.8	5887.4
9°	7274.0	7284.6	7277.6	7254.8	7222.5	7125.4	6881.2	6587.9	6358.1	6059.8	5914.9
7°	7117.2	7124.3	7121.8	7111.2	7084.8	7005.7	6790.1	6508.9	6317.3	6026.4	5899.5
5°	7148.2	7157.8	7156.7	7151.8	7124.3	7044.2	6842.9	6571.0	6413.1	6120.9	5978.4
3°	7167.5	7175.9	7185.4	7179.3	7167.5	7117.2	6937.6	6689.6	6531.7	6221.3	6044.3
1°	7202.3	7214.2	7229.6	7226.2	7230.9	7186.5	7012.9	6740.0	6554.3	6223.8	6098.2
0°	7271.5	7278.7	7295.4	7285.9	7276.4	7229.6	7038.1	6757.9	6547.1	6207.1	6105.4
-1°	7321.8	7326.7	7326.7	7312.3	7288.2	7233.2	7029.8	6741.2	6511.4	6149.6	5984.5
-3°	7374.5	7380.6	7357.8	7312.3	7278.7	7209.3	6996.2	6688.6	6435.9	6049.2	5838.4
-5°	7353.1	7357.8	7348.3	7274.0	7220.1	7145.7	6925.6	6611.8	6342.5	5954.5	5737.7
-7°	7235.6	7245.1	7210.6	7160.3	7068.1	6980.6	6747.1	6427.5	6148.4	5791.7	5598.8
-9°	7022.6	7047.6	7001.1	6962.6	6846.5	6745.9	6518.6	6226.4	5968.8	5646.8	5465.9
-11°	6720.9	6745.9	6728.1	6726.7	6640.6	6558.1	6359.2	6084.9	5837.1	5524.6	5340.2
-13°	6215.6	6250.3	6242.0	6282.6	6205.9	6155.6	5965.3	5736.7	5517.4	5209.6	5064.9
-15°	5703.1	5673.2	5673.2	5692.3	5640.7	5588.1	5410.9	5215.7	5003.7	4739.1	4605.1
-17°	5364.1	5345.1	5347.4	5357.1	5312.6	5262.4	5099.6	4900.7	4668.5	4419.4	4271.0
-19.5°	4893.5	4888.8	4891.2	4916.3	4892.4	4860.1	4712.9	4523.7	4314.1	4094.9	3960.8
-22.5°	4584.6	4589.4	4605.1	4601.5	4590.7	4563.2	4423.0	4257.7	4049.4	3861.5	3726.1
-25.5°	4672.1	4667.3	4675.7	4655.2	4638.5	4560.7	4381.2	4223.2	3995.7	3854.3	3754.9
-29°	5070.9	5066.0	5070.9	5056.5	5043.4	4936.8	4716.5	4538.0	4262.7	4132.1	4031.5
-33°	5032.6	5031.3	5032.6	5021.8	4990.5	4848.2	4597.9	4359.6	4083.0	3935.7	3919.0
-37.5°	4830.1	4826.5	4829.0	4813.4	4763.0	4588.4	4339.1	4063.8	3844.8	3762.1	3837.6
-42.5°	4387.1	4372.7	4366.8	4333.4	4262.7	4032.7	3801.6	3538.2	3423.2	3434.1	3614.9
-47.5°	2680.8	2654.6	2628.2	2606.8	2546.8	2375.5	2298.9	2180.3	2185.2	2248.6	2358.8
-55°	599.8	605.8	625.0	628.6	614.2	595.2	566.2	556.7	575.9	639.4	657.4
-65°	438.3	443.0	451.4	434.5	404.7	399.8	415.5	445.5	455.0	449.1	459.7
-75°	156.9	159.2	162.8	158.1	148.6	156.9	161.7	154.4	152.0	149.7	152.0
-85°	87.3	88.6	88.6	85.2	89.9	87.3	83.7	86.3	88.6	95.8	93.4
-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°	85.2	82.7	73.0	68.3	73.0	82.7	83.7	79.1	66.0	49.1	37.0
75°	94.5	99.4	104.0	107.8	111.2	104.0	105.5	113.8	111.2	89.9	50.3
65°	243.1	183.1	142.5	130.5	123.3	123.3	120.9	136.6	133.0	110.2	63.4
55°	1201.0	1177.1	261.1	791.4	805.8	775.8	225.0	188.0	156.9	122.2	77.8
47.5°	2959.9	2892.9	2779.1	2522.9	1882.2	2140.8	1980.5	247.8	161.7	135.3	88.6
42.5°	4015.8	3987.3	3901.0	3714.1	2967.1	2800.7	3189.7	773.6	160.5	149.7	95.8
37.5°	5570.3	5681.5	5516.2	5221.6	4587.1	3905.9	4250.7	1183.0	168.9	166.4	103.0
33°	7012.9	7148.2	7009.3	6639.3	5968.8	4934.3	4682.9	2458.2	189.2	183.1	109.1
29°	7042.8	7220.1	7235.6	6735.1	6232.3	5251.7	4730.7	2789.9	207.0	196.4	115.0
25.5°	6228.7	6403.4	6416.7	6149.6	5723.4	5074.5	4426.6	2837.7	222.7	207.0	118.4
22.5°	5564.2	5741.3	5826.3	5669.5	5434.8	4910.4	4059.1	2954.0	239.5	215.5	122.2
19.5°	5232.4	5401.3	5546.2	5476.8	5333.1	4844.4	3881.8	3108.3	257.3	221.6	125.8
17°	5211.0	5385.7	5573.7	5607.3	5462.3	4946.3	3911.8	3283.2	271.9	225.0	128.1
15°	5388.2	5588.1	5812.0	5898.2	5714.9	5159.5	4018.3	3524.0	276.6	228.8	129.4
13°	5742.4	6014.3	6284.9	6373.5	6053.8	5480.4	4199.3	3848.3	280.2	233.4	130.5
11°	5934.2	6246.7	6549.5	6558.1	6156.8	5644.3	4280.5	4062.6	281.2	239.5	131.7
9°	5966.5	6259.8	6519.6	6463.4	6065.9	5646.8	4263.8	4166.8	282.7	244.2	133.0
7°	5938.8	6217.9	6413.1	6336.3	5941.4	5629.9	4233.8	4217.1	282.7	247.8	133.0
5°	6021.5	6300.6	6453.9	6317.3	5904.2	5639.6	4237.4	4264.9	280.2	250.1	134.1
3°	6069.5	6338.9	6457.3	6254.9	5847.9	5619.3	4224.3	4285.4	277.8	249.1	134.1
1°	6083.9	6313.7	6407.1	6176.0	5780.9	5583.4	4194.3	4287.7	274.0	244.2	134.1
0°	6052.8	6282.6	6369.9	6143.7	5752.1	5564.2	4182.4	4287.7	281.2	241.9	134.1
-1°	5978.4	6234.8	6332.9	6117.3	5728.2	5546.2	4172.9	4287.7	276.6	238.3	134.1
-3°	5843.2	6122.1	6246.7	6061.0	5669.5	5492.3	4154.7	4278.2	276.6	233.4	134.1
-5°	5741.3	6009.5	6141.2	5975.0	5592.9	5401.3	4112.9	4251.8	275.5	231.1	133.0
-7°	5606.0	5847.9	5999.9	5864.6	5503.1	5282.7	4049.4	4200.4	271.9	231.1	133.0
-9°	5463.7	5679.0	5839.5	5723.4	5388.2	5132.0	3980.1	4128.5	269.4	231.1	131.7
-11°	5331.8	5519.9	5668.4	5560.6	5251.7	4953.5	3873.5	3989.6	265.8	228.8	130.5
-13°	5060.1	5191.8	5321.0	5227.8	4924.8	4613.5	3662.7	3722.6	262.2	226.2	129.4
-15°	4597.9	4705.7	4808.5	4741.7	4494.9	4150.1	3363.5	3390.8	258.6	222.7	126.9
-17°	4266.2	4395.4	4498.5	4430.2	4231.5	3842.4	3149.1	3145.3	256.3	219.1	125.8
-19.5°	3991.9	4156.2	4276.9	4204.0	4043.5	3599.3	2982.5	2932.4	252.7	216.7	123.3
-22.5°	3752.6	3920.2	4036.3	3993.2	3907.1	3443.7	2967.1	2730.1	244.2	214.4	119.7
-25.5°	3823.2	3982.4	4081.8	4050.7	3929.8	3377.9	3114.3	2603.0	237.0	212.0	117.3
-29°	4138.0	4356.0	4514.0	4312.9	4268.5	3413.6	3450.8	2556.5	231.1	207.0	112.5
-33°	4150.1	4364.3	4400.4	4254.3	4147.7	3139.4	3516.6	2283.5	226.2	197.7	107.8
-37.5°	4075.9	4205.1	4147.7	3966.8	3543.0	2927.5	3425.7	1783.9	217.8	182.0	101.7
-42.5°	3836.3	3940.5	3757.4	3564.6	2840.2	2621.0	2826.9	1137.5	213.1	162.8	94.5
-47.5°	2519.4	2452.2	2401.9	2212.7	1755.3	1800.8	1519.6	265.8	204.9	140.0	88.6
-55°	665.6	658.6	641.7	555.6	487.4	432.2	283.8	210.6	195.2	120.9	79.1
-65°	464.7	445.5	395.2	252.7	222.7	186.7	209.5	177.2	133.0	104.0	66.0
-75°	156.9	148.6	128.1	124.5	117.3	124.5	131.7	109.1	93.4	81.4	52.7
-85°	97.0	92.2	74.2	66.0	71.9	80.1	80.1	73.0	56.2	45.5	38.3
-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)