

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: P393774

Luminaire Tested: **NFFLD-C70-D-UNV-66-7030-VS**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393774
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-C70-D-UNV-66-7030-VS
Description: FLOODLIGHT WITH VANDAL SHIELD
Light Source: (2) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

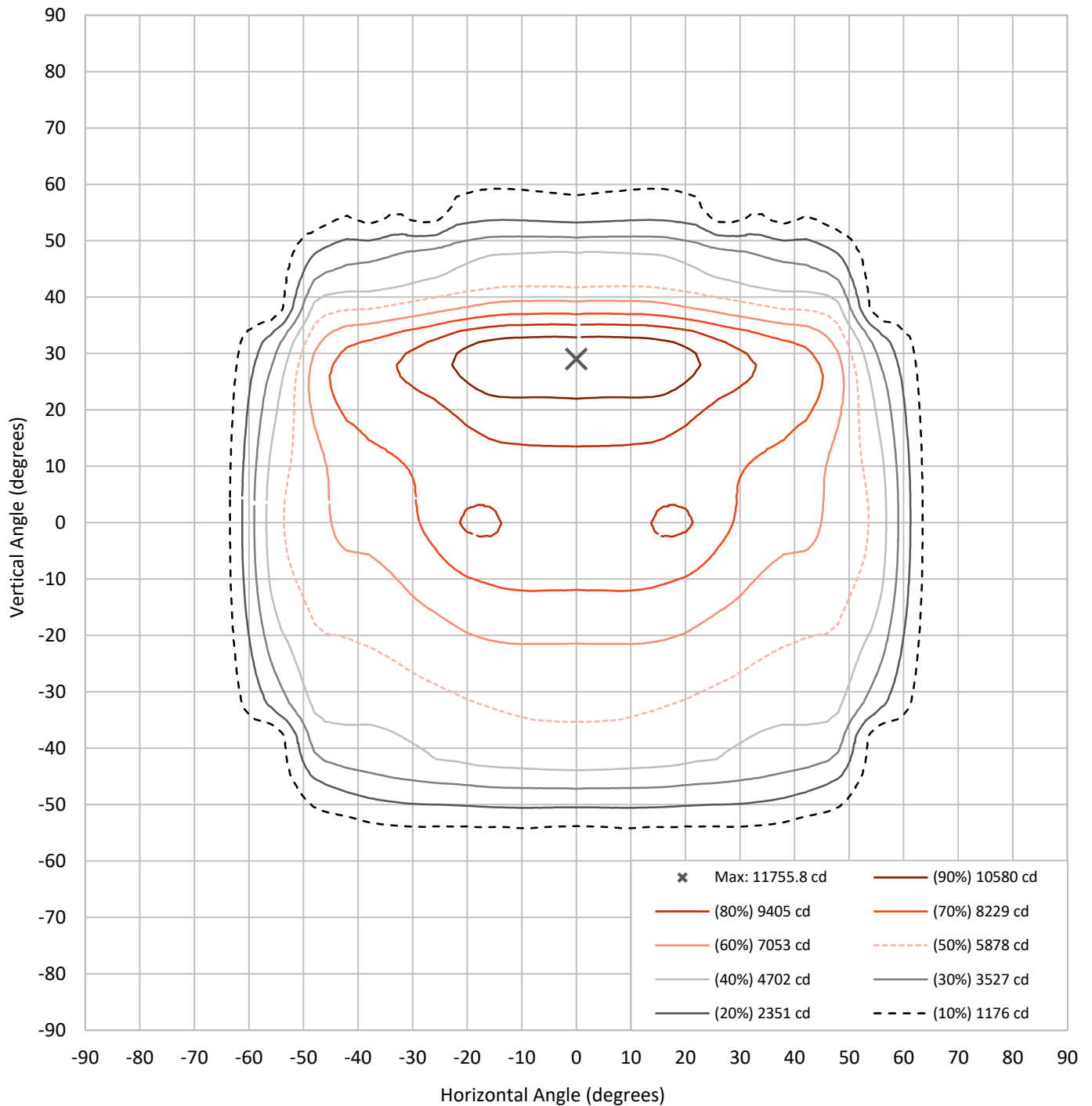
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	21305 lumens	Max Intensity:	11755.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	115.8 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	101.4°H x 77°V	Field Angle (10%):	124.2°H x 111.9°V
Beam Lumens:	15397 lumens	Field Lumens:	20617.2 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
Input Watts (W):	184		
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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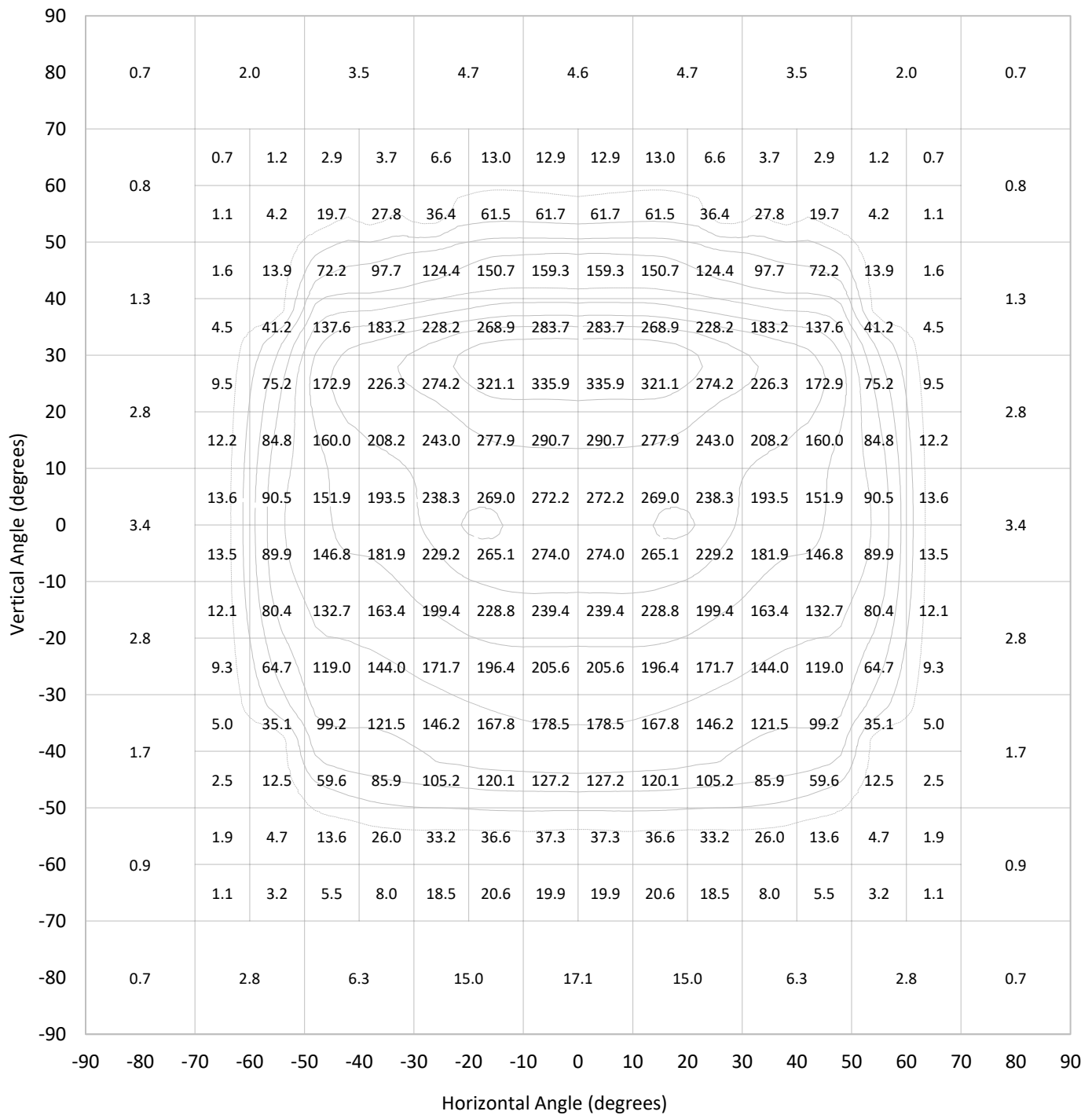
Iso-Candela Plot





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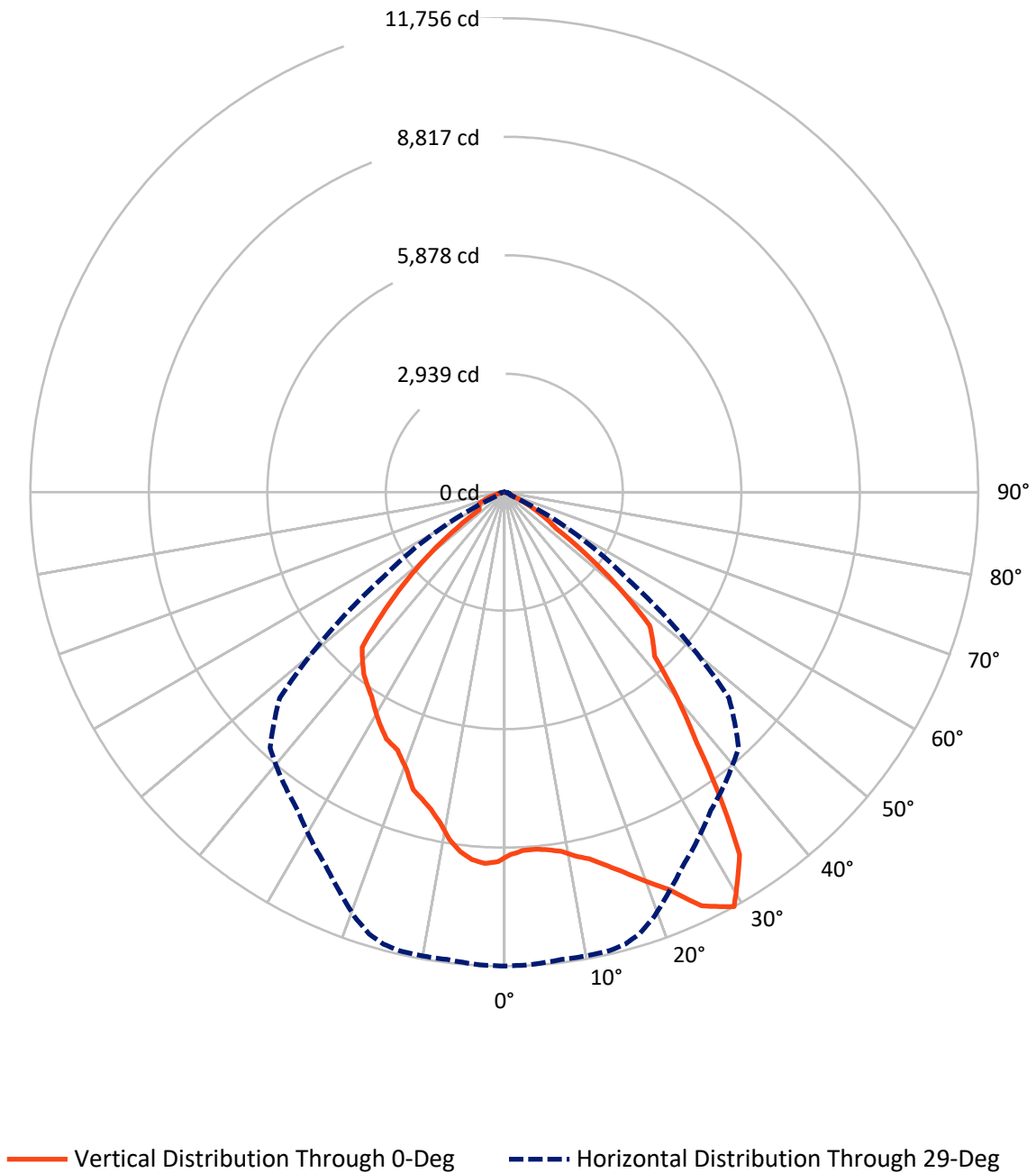
Lumen Table



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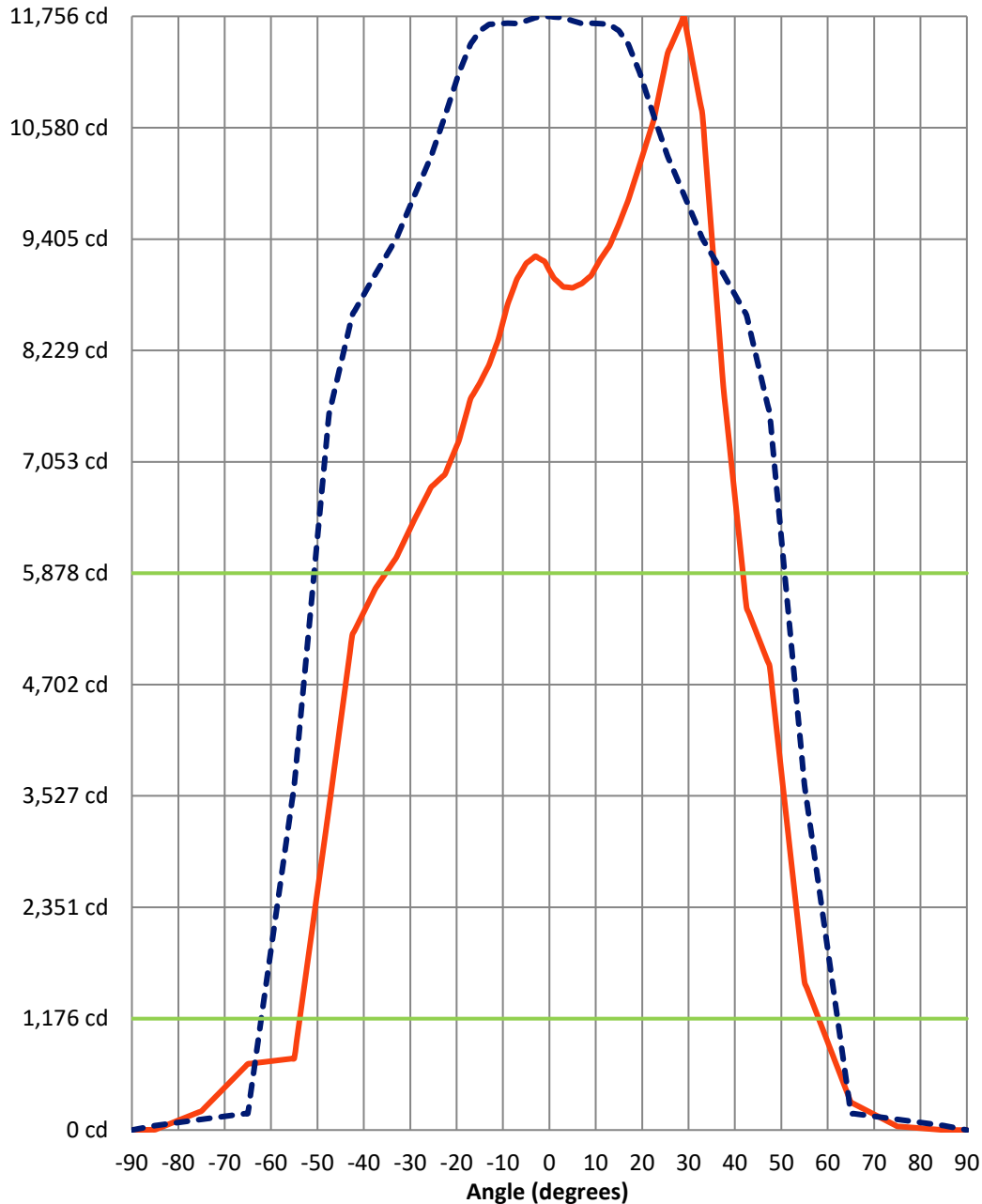
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 77°
 Lumens: 15397
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 111.9°
 Lumens: 20617.2
 Efficiency: 96.8%

Spill:
 Lumens: 687.8
 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	5.0	11.9	13.4	16.9	22.0	27.0	33.6	35.3	37.1	38.9
75°	38.9	38.9	37.1	33.6	30.0	33.6	35.3	35.3	33.6	27.0	23.5
65°	292.5	292.5	294.3	289.2	277.6	270.8	264.0	274.1	294.3	311.2	290.7
55°	1564.0	1604.1	1602.6	1678.3	1708.6	1763.8	1812.8	1827.9	1831.2	1780.8	1668.2
47.5°	4891.8	4932.1	4918.5	4923.6	4890.0	4873.1	4841.0	4819.3	4806.0	4741.9	4511.7
42.5°	5518.9	5549.2	5572.7	5599.7	5613.1	5619.9	5618.1	5591.1	5517.2	5381.1	5251.4
37.5°	7846.3	7923.5	7926.8	7928.6	7893.3	7868.3	7883.2	7836.0	7762.3	7637.6	7419.0
33°	10715.1	10726.7	10767.0	10763.8	10767.0	10693.1	10710.0	10644.4	10528.3	10393.8	10187.1
29°	11755.8	11749.0	11742.5	11708.9	11680.1	11683.4	11678.4	11670.0	11602.9	11461.6	11157.2
25.5°	11367.4	11342.2	11332.1	11275.1	11246.3	11283.4	11298.5	11283.4	11224.6	11064.8	10767.0
22.5°	10662.8	10644.4	10627.5	10605.5	10600.7	10615.9	10617.4	10617.4	10587.1	10472.8	10225.7
19.5°	10195.2	10183.6	10177.0	10155.0	10155.0	10165.1	10153.3	10117.9	10067.7	9983.4	9783.5
17°	9815.3	9805.2	9795.1	9786.6	9773.4	9773.4	9778.2	9743.2	9694.2	9608.4	9423.4
15°	9563.0	9551.4	9556.4	9541.3	9544.8	9529.4	9521.1	9499.4	9452.2	9346.2	9174.6
13°	9336.1	9331.0	9339.6	9329.3	9332.8	9317.4	9299.2	9287.1	9250.3	9151.1	8996.4
11°	9191.5	9184.7	9181.1	9184.7	9183.1	9181.1	9161.2	9135.9	9087.2	8983.0	8846.7
9°	9019.9	9013.0	9016.6	9021.6	9019.9	9018.3	9005.0	8988.1	8949.4	8866.9	8759.2
7°	8935.8	8940.9	8935.8	8942.4	8942.4	8944.4	8957.8	8969.4	8988.1	8986.3	8892.2
5°	8890.4	8892.2	8892.2	8900.5	8908.8	8930.8	8981.2	9048.4	9137.7	9210.1	9127.6
3°	8900.5	8898.7	8908.8	8925.7	8952.7	8998.2	9089.0	9210.1	9371.4	9467.3	9391.6
1°	8991.3	8996.4	9028.4	9062.0	9102.1	9146.0	9223.5	9324.2	9500.9	9606.9	9696.0
0°	9073.9	9085.5	9099.1	9142.8	9171.3	9210.1	9258.6	9339.6	9499.4	9595.0	9731.0
-1°	9166.2	9156.1	9179.9	9200.1	9218.2	9247.0	9275.5	9334.3	9467.3	9543.0	9611.9
-3°	9223.5	9231.8	9235.1	9236.9	9258.6	9258.6	9260.4	9302.5	9373.2	9394.9	9257.1
-5°	9147.6	9151.1	9144.5	9146.0	9161.2	9157.9	9130.9	9151.1	9144.5	9077.1	8932.5
-7°	8981.2	8986.3	8976.2	8971.1	8981.2	8934.3	8887.1	8870.2	8806.3	8735.9	8624.6
-9°	8715.5	8737.2	8707.2	8703.6	8681.9	8641.5	8584.5	8559.0	8496.9	8436.4	8344.0
-11°	8345.8	8375.8	8357.4	8367.5	8364.2	8364.2	8332.1	8312.2	8248.1	8169.1	8071.4
-13°	8078.2	8096.9	8090.1	8093.4	8107.0	8128.7	8105.0	8088.3	8022.7	7940.5	7846.3
-15°	7884.9	7906.6	7904.9	7903.4	7916.7	7933.6	7915.2	7895.0	7829.4	7745.4	7637.6
-17°	7718.4	7730.2	7735.3	7730.2	7728.5	7728.5	7708.3	7686.6	7622.5	7531.6	7410.7
-19.5°	7277.7	7294.6	7298.2	7294.6	7291.3	7292.9	7299.7	7272.7	7230.8	7173.7	7086.2
-22.5°	6923.1	6926.4	6929.7	6933.2	6933.2	6936.5	6935.0	6914.5	6881.0	6840.6	6744.7
-25.5°	6785.3	6786.8	6788.4	6790.1	6781.8	6780.0	6759.8	6731.3	6687.7	6647.3	6551.4
-29°	6452.2	6460.5	6462.3	6455.5	6454.0	6437.1	6406.8	6363.1	6319.5	6280.8	6186.4
-33°	6043.6	6051.9	6050.2	6035.0	6033.5	6006.5	5969.7	5921.0	5868.5	5799.8	5692.3
-37.5°	5715.8	5717.3	5715.8	5703.9	5695.3	5673.6	5636.5	5586.3	5520.7	5445.0	5342.3
-42.5°	5221.4	5221.4	5195.9	5172.4	5150.7	5101.7	5078.3	5043.2	5011.1	4985.9	4868.0
-47.5°	3403.3	3395.2	3363.1	3381.6	3373.2	3359.6	3369.7	3356.6	3326.0	3290.7	3220.0
-55°	756.6	758.4	776.8	820.7	857.8	877.8	871.2	825.8	827.3	865.9	810.6
-65°	697.8	699.6	702.9	707.9	707.9	709.7	726.3	746.5	758.4	780.3	798.8
-75°	200.1	203.4	205.2	201.6	198.6	203.4	210.2	205.2	206.7	206.7	188.3
-85°	3.5	8.3	16.9	23.5	28.5	35.3	40.1	45.4	46.9	46.9	46.9
-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):

	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°	38.9	38.9	38.9	38.9	38.9	38.9	37.1	37.1	37.1	37.1	37.1
75°	23.5	27.0	32.1	45.4	46.9	45.4	33.6	35.3	37.1	35.3	37.1
65°	228.7	144.6	92.6	72.4	60.6	72.4	67.1	57.0	49.0	35.3	35.3
55°	1515.0	368.2	354.8	1170.3	353.1	1036.0	277.6	164.8	77.2	35.3	37.1
47.5°	4310.0	4077.9	3864.1	3603.7	3341.2	3171.3	2557.8	287.7	97.4	42.1	38.9
42.5°	5069.9	4814.3	4683.1	4436.0	4145.0	4153.6	3899.7	319.5	104.2	57.0	40.1
37.5°	7186.9	6924.6	6625.6	6337.9	6021.6	5952.8	5529.0	358.4	112.6	75.7	42.1
33°	9882.7	9401.7	8983.0	8609.7	8150.7	7821.1	6786.8	2900.8	142.8	94.1	43.7
29°	10705.0	10277.7	9874.1	9408.5	9035.0	8601.2	7557.1	3640.8	176.7	112.6	46.9
25.5°	10381.9	10040.7	9697.5	9315.9	9053.7	8760.9	7844.5	4146.8	208.7	129.5	50.5
22.5°	9862.5	9527.9	9250.3	8988.1	8825.0	8602.9	7678.0	4468.0	235.2	144.6	52.0
19.5°	9426.9	9124.1	8887.1	8697.1	8623.1	8357.4	7397.3	4720.2	265.8	158.0	55.5
17°	9105.7	8836.6	8640.0	8532.3	8459.8	8081.5	7192.2	4917.0	292.5	168.1	57.0
15°	8893.9	8656.7	8505.5	8426.3	8313.7	7854.6	7049.1	5064.9	316.0	174.9	57.0
13°	8760.9	8575.9	8463.4	8330.4	8127.0	7636.1	6931.5	5204.5	336.4	179.9	59.1
11°	8668.3	8534.0	8426.3	8197.6	7911.9	7489.7	6857.5	5327.4	351.3	183.2	59.1
9°	8616.3	8481.8	8330.4	8036.4	7746.9	7390.5	6832.3	5443.2	363.2	186.8	60.6
7°	8692.0	8507.0	8281.7	7947.3	7636.1	7362.0	6833.8	5532.5	370.0	188.3	60.6
5°	8826.5	8570.9	8283.4	7861.5	7551.8	7343.3	6837.3	5599.7	370.0	190.0	60.6
3°	8992.9	8638.3	8285.2	7775.7	7479.6	7321.6	6840.6	5641.8	371.5	190.0	60.6
1°	9184.7	8636.5	8251.4	7698.2	7412.5	7288.1	6827.2	5656.7	364.9	186.8	60.6
0°	9204.8	8601.2	8209.5	7657.8	7375.4	7265.9	6815.4	5658.7	363.2	185.0	60.6
-1°	9161.2	8542.4	8160.5	7617.7	7335.0	7240.9	6805.3	5656.7	363.2	183.2	60.6
-3°	8825.0	8392.7	8039.6	7530.1	7235.8	7172.0	6781.8	5631.7	363.2	178.2	60.6
-5°	8579.5	8229.7	7896.5	7410.7	7106.4	7054.1	6734.9	5582.8	364.9	174.9	59.1
-7°	8352.3	8042.9	7721.9	7261.1	6963.5	6904.5	6655.6	5510.6	363.2	173.1	59.1
-9°	8123.7	7851.4	7528.3	7106.4	6815.4	6721.2	6551.4	5407.9	358.4	169.8	59.1
-11°	7893.3	7641.1	7330.0	6944.8	6675.8	6551.4	6425.2	5278.4	351.3	168.1	57.0
-13°	7679.7	7429.1	7134.9	6796.9	6539.5	6394.9	6294.2	5125.5	343.0	164.8	55.5
-15°	7447.8	7195.4	6939.8	6650.6	6415.1	6238.7	6162.7	4952.3	329.6	163.0	53.8
-17°	7198.7	6944.8	6716.2	6485.8	6274.0	6095.6	6028.5	4757.3	316.0	161.5	53.8
-19.5°	6877.7	6652.3	6462.3	6285.6	6083.7	5921.0	5863.7	4478.1	294.3	156.2	52.0
-22.5°	6533.0	6307.6	6156.2	6021.6	5848.5	5732.4	5727.4	4136.7	264.0	151.4	49.0
-25.5°	6358.1	6169.8	6014.8	5828.3	5649.9	5594.6	5586.3	3771.7	237.2	142.8	46.9
-29°	6020.1	5866.9	5725.9	5515.6	5355.9	5364.2	5372.5	3284.1	216.8	132.7	43.7
-33°	5545.7	5419.7	5275.1	5076.8	4969.0	4992.7	4969.0	2653.5	208.7	116.1	42.1
-37.5°	5207.7	5066.4	4893.5	4688.4	4535.2	4538.7	4409.0	366.7	200.1	95.9	40.1
-42.5°	4716.9	4674.7	4447.8	4272.9	4014.0	3803.5	3385.1	358.4	193.3	72.4	38.9
-47.5°	3159.7	3109.3	3057.3	2946.2	2742.6	2396.3	1832.7	312.7	183.2	49.0	38.9
-55°	835.9	817.2	874.5	815.4	707.9	346.5	331.4	188.3	153.2	37.1	37.1
-65°	825.8	795.2	566.6	297.8	216.8	238.7	305.9	193.3	72.4	37.1	37.1
-75°	138.0	84.0	50.5	55.5	68.9	102.5	99.2	50.5	40.1	37.1	37.1
-85°	46.9	45.4	45.4	43.7	42.1	42.1	40.1	38.9	38.9	37.1	37.1
-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)