

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMARK

Report Number: P210015

Luminaire Tested: **MPXL-T5-1000**

Issue Date:

Test Information

Test Method: LM-46-04
Report Number: P210015
DATA PRORATED FROM REPORT 764991
Test Lab:
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPXL-T5-1000
Description: EAGLE SPORTS FLOODLIGHT - 5H x 5V
Light Source: 1000 WATT PULSE START METAL HALIDE, CLEAR, BT-56, UNIVERSAL
Ballast/Driver: -

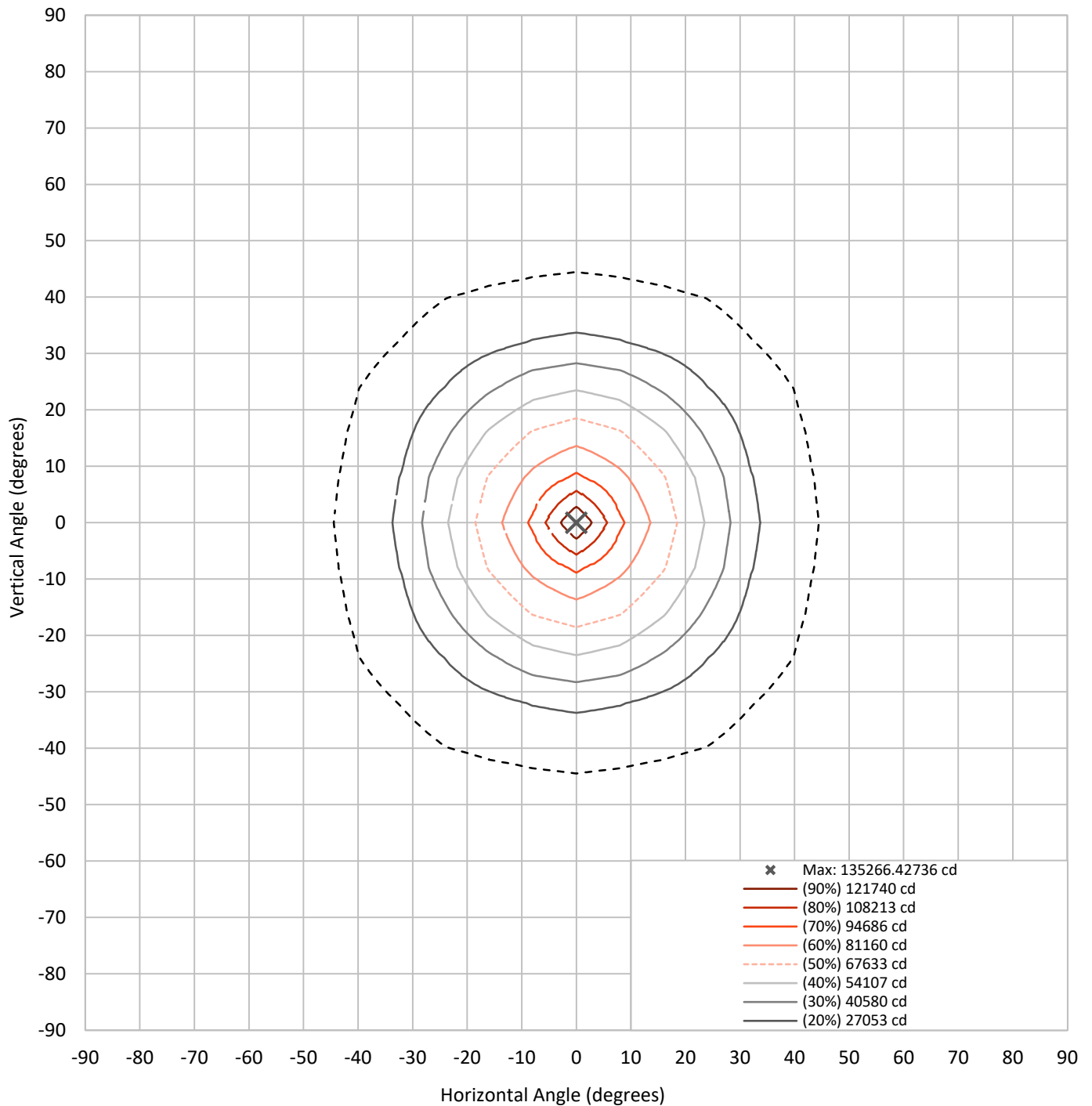
Summary

Lumens per Lamp:	110000 (1 lamp)	NEMA Type:	5H x 5V
Luminaire Lumens:	83680.4 lumens	Max Intensity:	135266.4 candela
Efficiency:	76.1%	Max Intensity Angle:	0°H x 0°V
Efficacy:	83.7 lumens/watt		
Luminous Opening:	Point Source (0' x 0' x 0')		
Beam Angle (50%):	37°H x 37°V	Field Angle (10%):	88.9°H x 88.9°V
Beam Lumens:	25777.1 lumens	Field Lumens:	73715.2 lumens
Beam Efficiency:	30.8%	Field Efficiency:	88.1%
Input Watts (W):	1000		
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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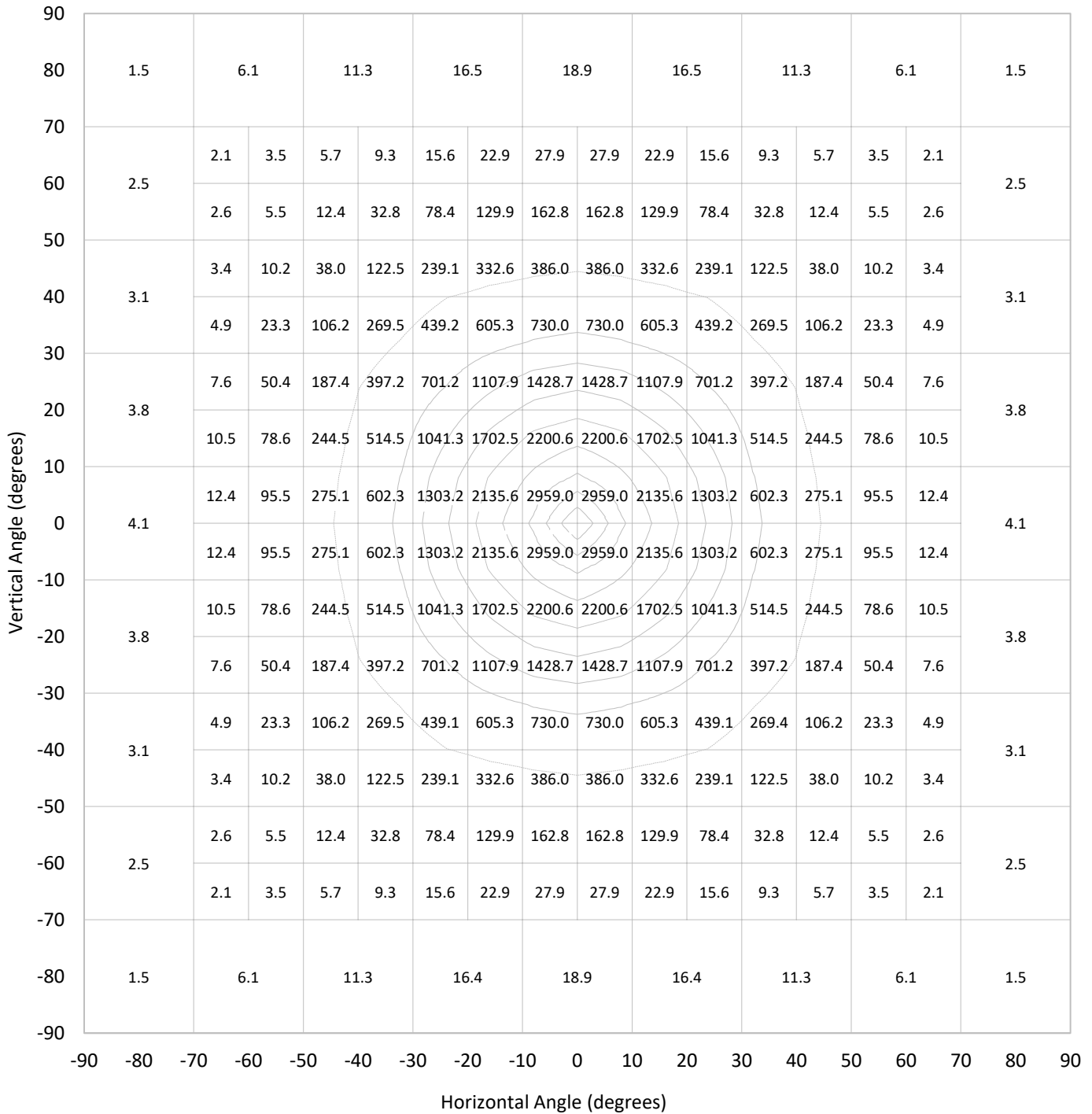
Iso-Candela Plot





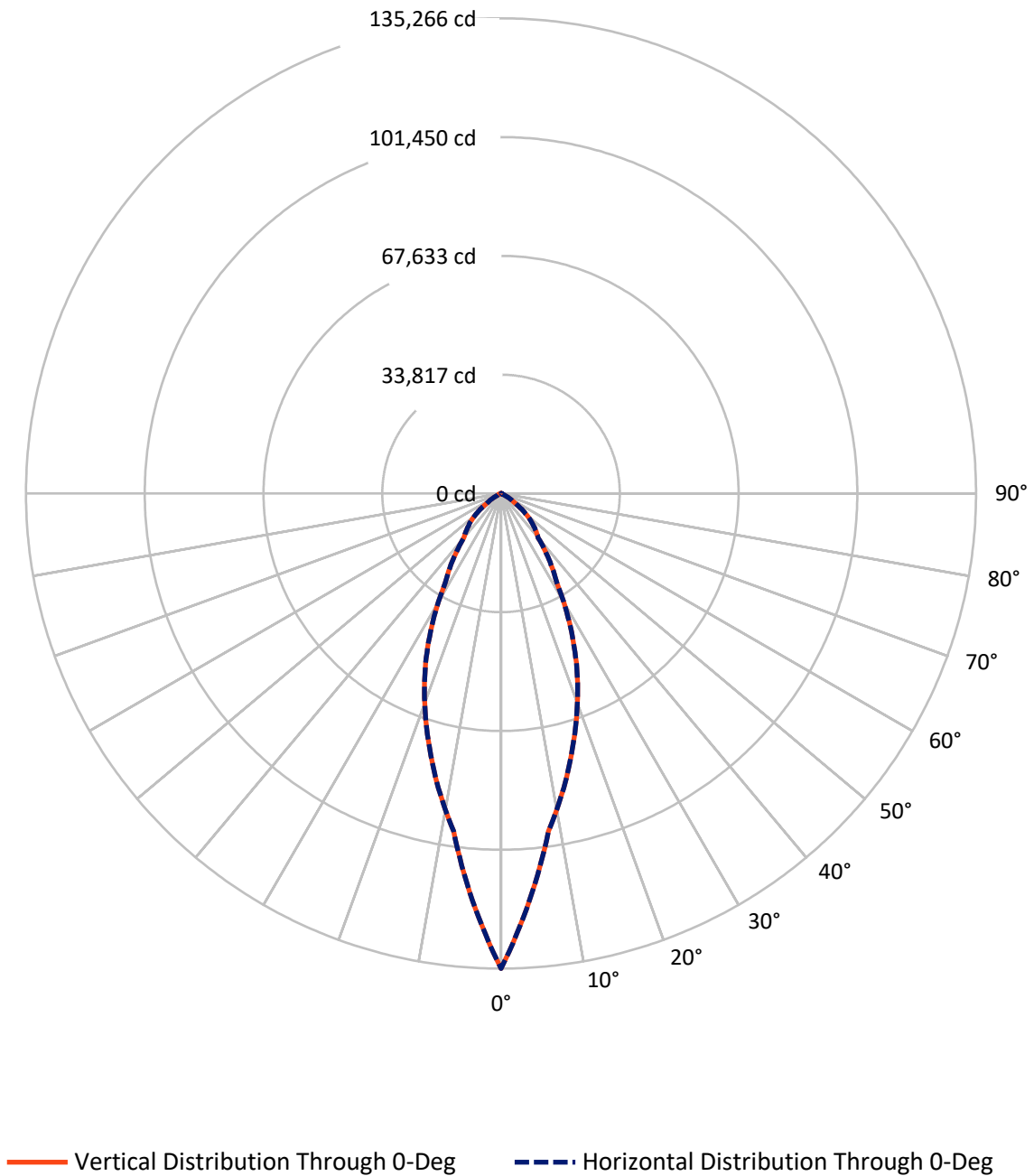
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Lumen Table



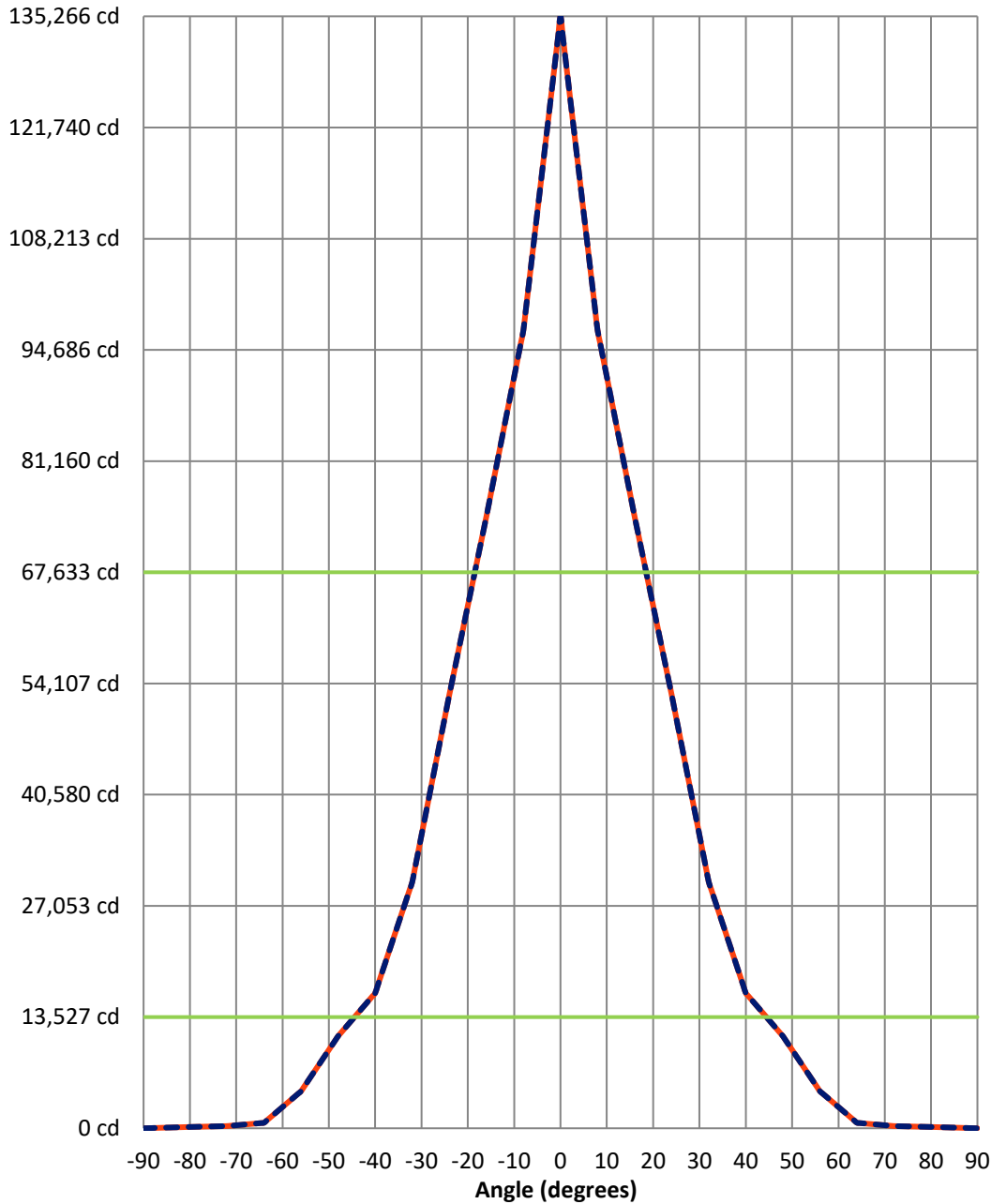
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 37°
 V Angle: 37°
 Lumens: 25777.1
 Efficiency: 30.8%

Field:
 H Angle: 88.9°
 V Angle: 88.9°
 Lumens: 73715.2
 Efficiency: 88.1%

Spill:
 Lumens: 9965.3
 Efficiency: 11.9%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-80°	-72°	-64°	-56°	-48°	-40°	-32°	-24°	-16°	-8°
90°	0.0	1.4	0.0	0.7	0.0	0.7	0.7	0.0	2.1	2.8	2.8
80°	0.7	98.6	105.7	115.0	126.3	136.3	144.8	149.0	153.3	156.8	158.3
72°	0.7	105.7	125.6	142.6	156.1	168.2	183.1	203.0	226.4	247.0	261.2
64°	0.7	115.0	142.6	165.4	195.2	241.3	306.6	376.1	461.3	551.4	628.8
56°	0.7	126.3	156.1	195.2	263.3	381.8	567.0	1107.1	2253.9	3394.4	4165.1
48°	0.7	136.3	168.2	241.3	381.8	744.5	1606.7	3654.1	6447.4	8909.3	10500.4
40°	0.0	144.8	183.1	306.6	567.0	1606.7	4648.4	10115.8	13339.9	15077.2	15951.5
32°	0.0	149.0	203.0	376.1	1107.1	3654.1	10112.2	13874.2	18070.6	23011.4	27717.3
24°	0.0	153.3	226.4	461.3	2253.9	6447.4	13338.4	18070.6	27226.9	38449.8	48403.7
16°	0.7	156.8	247.0	551.4	3394.4	8909.3	15075.0	23011.4	38449.8	55256.4	68495.5
8°	0.7	158.3	261.2	628.8	4165.1	10500.4	15951.5	27717.3	48403.7	68495.5	84126.9
0°	0.7	159.7	269.0	664.3	4506.5	11210.8	16446.8	29964.8	52725.7	74407.8	97092.7
-8°	0.7	158.3	261.2	628.8	4165.1	10500.4	15951.5	27717.3	48403.7	68495.5	84126.9
-16°	0.7	156.8	247.0	551.4	3394.4	8909.3	15075.0	23011.4	38449.8	55256.4	68495.5
-24°	0.0	153.3	226.4	461.3	2253.9	6447.4	13338.4	18070.6	27226.9	38449.8	48403.7
-32°	0.0	149.0	203.0	376.1	1107.1	3654.1	10112.2	13874.2	18070.6	23011.4	27717.3
-40°	0.0	144.8	183.1	306.6	567.0	1606.0	4647.7	10112.2	13338.4	15075.0	15951.5
-48°	0.7	136.3	168.2	241.3	381.8	744.5	1606.7	3654.1	6447.4	8909.3	10500.4
-56°	0.7	126.3	156.1	195.2	263.3	381.8	567.0	1107.1	2253.9	3394.4	4165.1
-64°	0.7	115.0	142.6	165.4	195.2	241.3	306.6	376.1	461.3	551.4	628.8
-72°	0.7	105.7	125.6	142.6	156.1	168.2	183.1	203.0	226.4	247.0	261.2
-80°	0.7	98.6	105.7	115.0	126.3	136.3	144.8	149.0	153.3	156.8	158.3
-90°	0.0	0.7	0.0	0.7	0.0	0.7	0.7	0.0	1.4	2.8	2.1



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CANDELA DISTRIBUTION (continued):

	0°	8°	16°	24°	32°	40°	48°	56°	64°	72°	80°
90°	0.7	2.8	2.8	2.1	0.0	0.7	0.7	0.0	0.7	0.0	1.4
80°	159.7	158.3	156.8	153.3	149.0	144.8	136.3	126.3	115.0	105.7	98.6
72°	269.0	261.2	247.0	226.4	203.0	183.1	168.2	156.1	142.6	125.6	105.7
64°	664.3	628.8	551.4	461.3	376.1	306.6	241.3	195.2	165.4	142.6	115.0
56°	4506.5	4165.1	3394.4	2253.9	1107.1	567.0	381.8	263.3	195.2	156.1	126.3
48°	11210.8	10500.4	8909.3	6447.4	3654.1	1606.7	744.5	381.8	241.3	168.2	136.3
40°	16446.8	15951.5	15077.2	13339.9	10115.8	4649.1	1606.7	567.0	306.6	183.1	144.8
32°	29964.8	27717.3	23011.4	18070.6	13874.2	10115.1	3654.1	1107.1	376.1	203.0	149.0
24°	52725.7	48403.7	38449.8	27226.9	18070.6	13339.9	6447.4	2253.9	461.3	226.4	153.3
16°	74407.8	68495.5	55256.4	38449.8	23011.4	15077.2	8909.3	3394.4	551.4	247.0	156.8
8°	97092.7	84126.9	68495.5	48403.7	27717.3	15951.5	10500.4	4165.1	628.8	261.2	158.3
0°	135266.4	97092.7	74407.8	52725.7	29964.8	16446.8	11210.8	4506.5	664.3	269.0	159.7
-8°	97092.7	84126.9	68495.5	48403.7	27717.3	15951.5	10500.4	4165.1	628.8	261.2	158.3
-16°	74407.8	68495.5	55256.4	38449.8	23011.4	15077.2	8909.3	3394.4	551.4	247.0	156.8
-24°	52725.7	48403.7	38449.8	27226.9	18070.6	13339.9	6447.4	2253.9	461.3	226.4	153.3
-32°	29964.8	27717.3	23011.4	18070.6	13874.2	10115.1	3654.1	1107.1	376.1	203.0	149.0
-40°	16446.8	15951.5	15075.0	13338.4	10112.2	4648.4	1606.0	567.0	306.6	183.1	144.8
-48°	11210.8	10500.4	8909.3	6447.4	3654.1	1606.7	744.5	381.8	241.3	168.2	136.3
-56°	4506.5	4165.1	3394.4	2253.9	1107.1	567.0	381.8	263.3	195.2	156.1	126.3
-64°	664.3	628.8	551.4	461.3	376.1	306.6	241.3	195.2	165.4	142.6	115.0
-72°	269.0	261.2	247.0	226.4	203.0	183.1	168.2	156.1	142.6	125.6	105.7
-80°	159.7	158.3	156.8	153.3	149.0	144.8	136.3	126.3	115.0	105.7	98.6
-90°	0.7	2.1	2.8	1.4	0.0	0.7	0.7	0.0	0.7	0.0	0.7



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CANDELA DISTRIBUTION (continued):

	90°
90°	0.0
80°	0.7
72°	0.7
64°	0.7
56°	0.7
48°	0.7
40°	0.7
32°	0.0
24°	0.0
16°	0.7
8°	0.7
0°	0.7
-8°	0.7
-16°	0.7
-24°	0.0
-32°	0.0
-40°	0.7
-48°	0.7
-56°	0.7
-64°	0.7
-72°	0.7
-80°	0.7
-90°	0.0

(END OF REPORT)