

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: P27500

Luminaire Tested: **XTOR2B-W-FLD-KNC**

Test Date: 04/11/16

**Test Information**

Test Method: LM-79-08  
Report Number: P27500  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27500)  
Test Lab: INNOVATION CENTER-P2  
Test Date: 04/11/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: XTOR2B-W-FLD-KNC  
Description: CROSSTOUR 18W FLOOD LED WITH BRONZE HOUSING AND VISOR  
Light Source:  
  
Ballast/Driver: (1) ERP ELECTRONIC DRIVER  
ESS020W-0425-42-CPLV

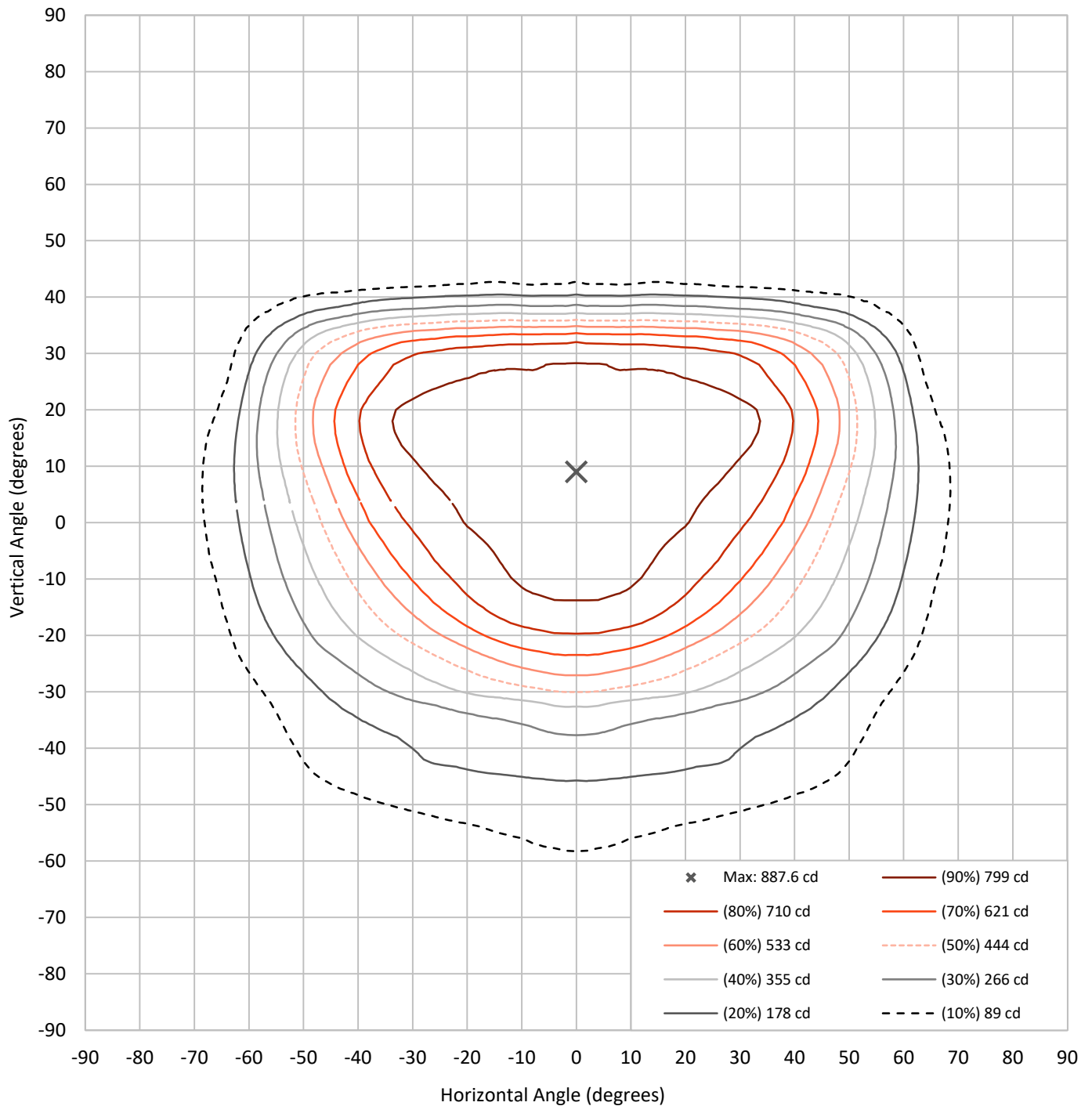
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	1469.1 lumens	Max Intensity:	887.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 9°V
Efficacy:	80.7 lumens/watt		
Luminous Opening:	(L: 0' x W: 0.46' x H: 0.17')		
Beam Angle (50%):	100.1°H x 66°V	Field Angle (10%):	137°H x 100.6°V
Beam Lumens:	1087.7 lumens	Field Lumens:	1395.7 lumens
Beam Efficiency:	74.0%	Field Efficiency:	95.0%
Input Watts (W):	18.2		
Input Voltage (V):	120.0		
Input Current (A <sub>in</sub> ):	0.153		
Voltage Rise (V):	NR		
Power Factor:	0.9982		
Total Harmonic Distortion (THDi):	14.2%		
Frequency (hertz):	60		
Stabilization Time:	0.5 HR		
Operation Time:	24 HR		
Ambient Temperature (°C):	25.2		
Test Distance:	25 FT		



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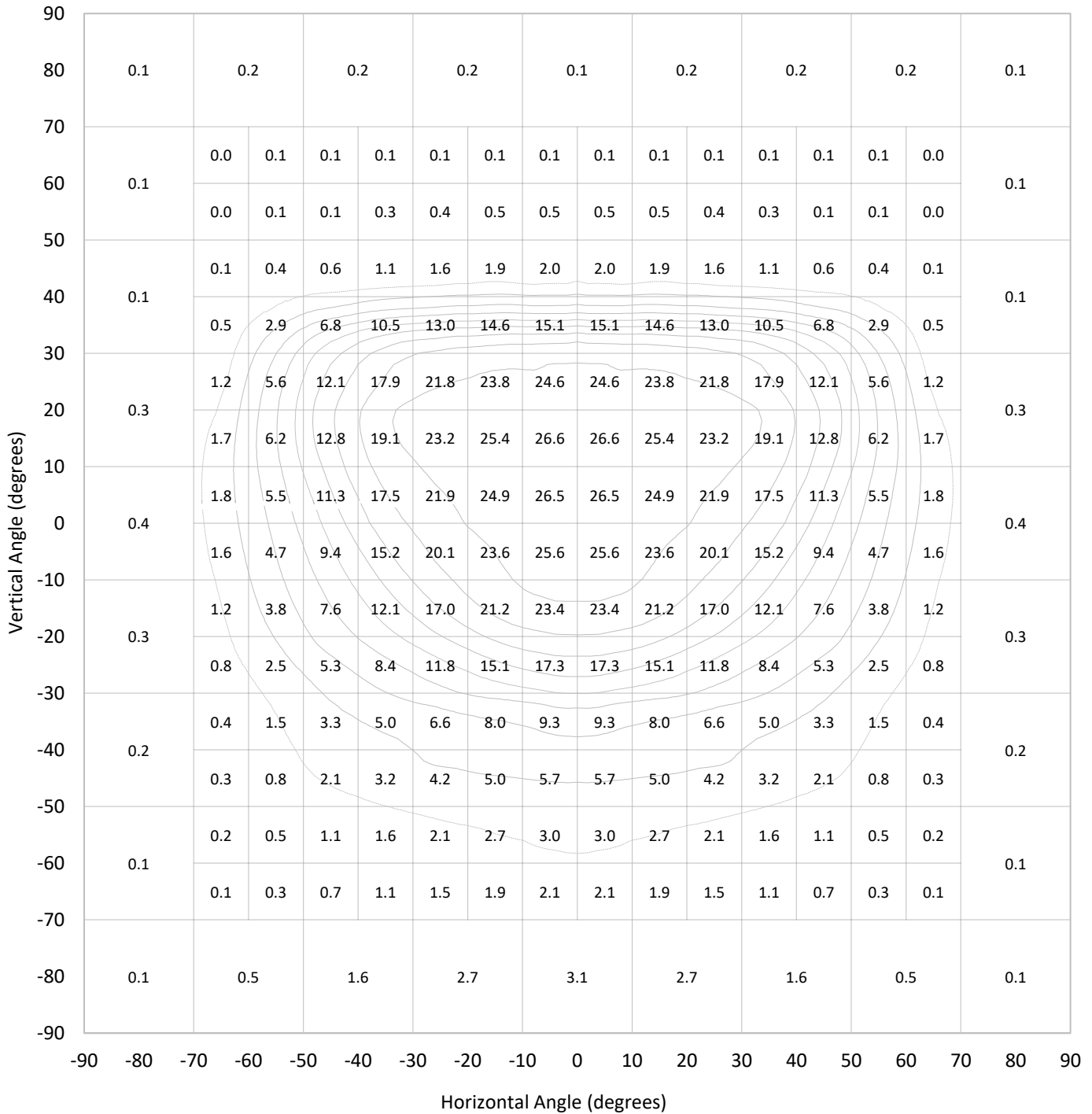
### Iso-Candela Plot





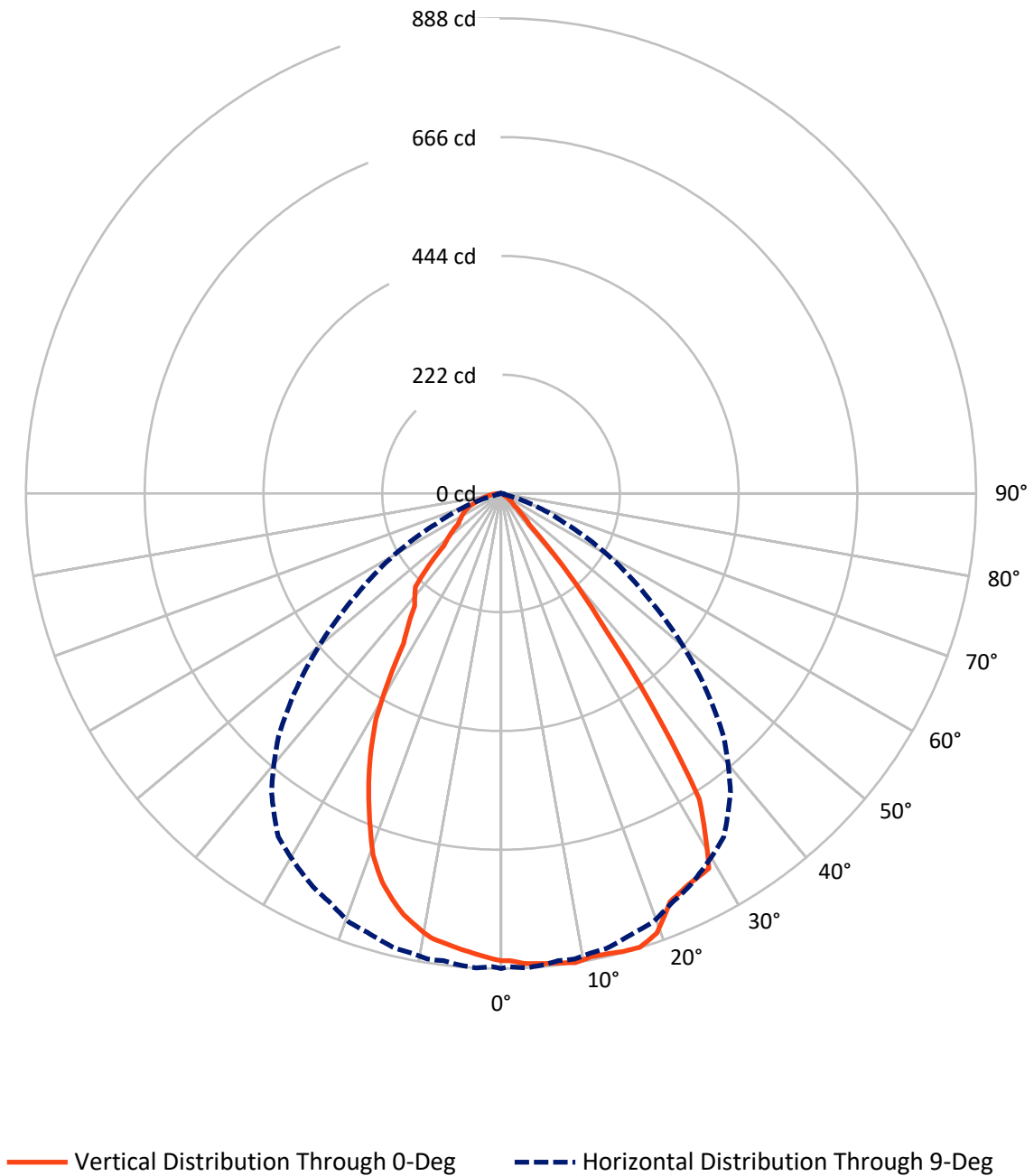
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### Lumen Table



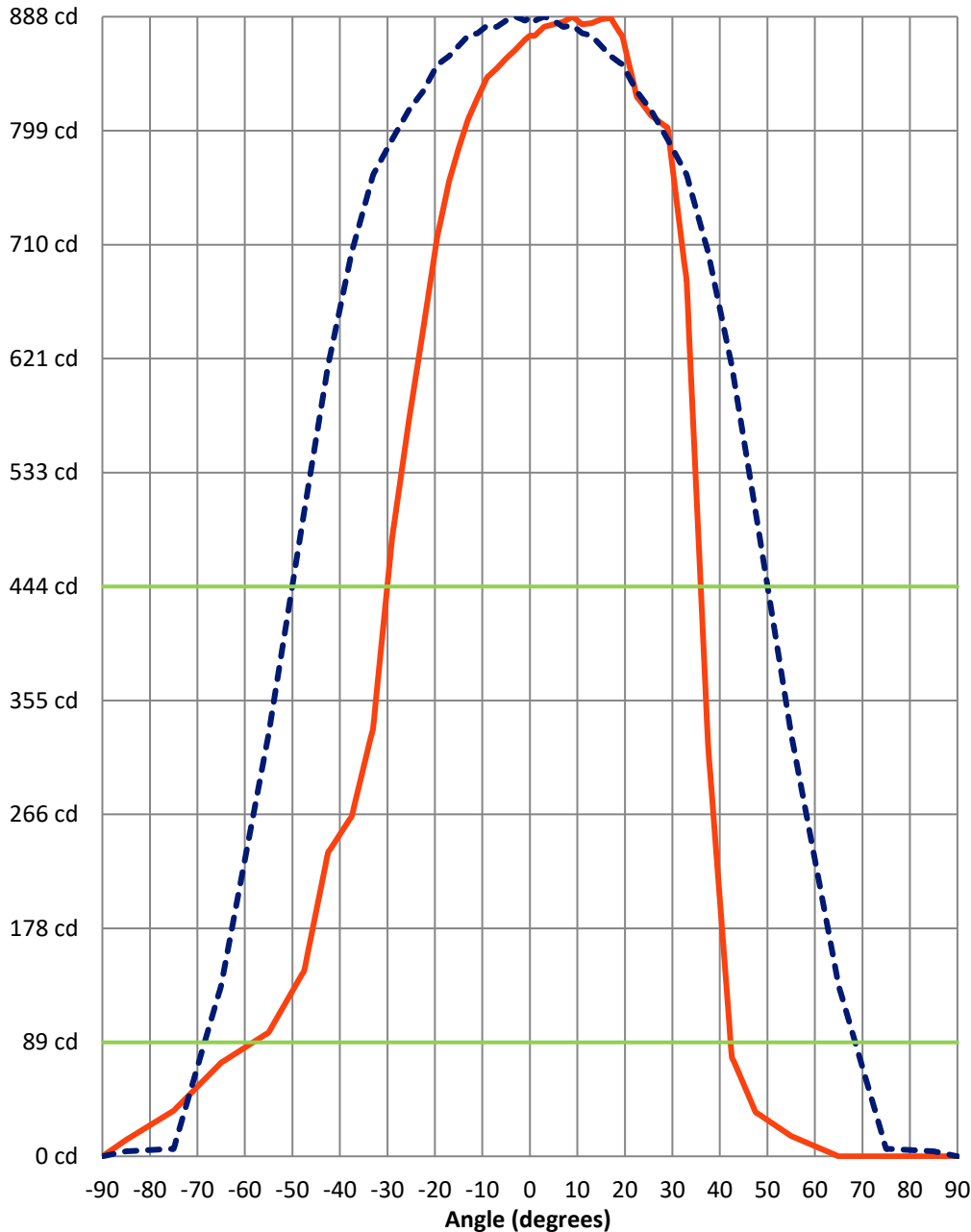
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 100.1°  
 V Angle: 66°  
 Lumens: 1087.7  
 Efficiency: 74.0%

**Field:**  
 H Angle: 137°  
 V Angle: 100.6°  
 Lumens: 1395.7  
 Efficiency: 95.0%

**Spill:**  
 Lumens: 73.4  
 Efficiency: 5.0%

— Vertical Distribution through 0-Deg  
 - - - Horizontal Distribution through 9-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	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0
75°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
55°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	14.8	14.8
47.5°	34.5	34.5	33.5	32.5	31.5	29.6	28.6	27.6	26.6	24.6	22.7
42.5°	77.8	71.9	69.0	72.9	68.0	68.0	70.9	75.9	79.8	76.8	70.9
37.5°	321.1	311.3	312.3	311.3	310.3	311.3	321.1	324.1	321.1	315.2	310.3
33°	680.7	668.9	672.8	667.9	670.9	664.0	668.9	664.9	659.0	652.1	645.2
29°	800.9	797.9	800.9	797.9	792.0	793.0	792.0	794.0	790.1	790.1	781.2
25.5°	810.7	807.8	811.7	808.8	801.9	805.8	803.8	805.8	803.8	804.8	799.9
22.5°	825.5	821.6	826.5	821.6	816.6	818.6	817.6	821.6	820.6	822.6	822.6
19.5°	871.8	868.9	871.8	868.9	863.9	863.9	859.0	861.0	860.0	861.0	861.0
17°	886.6	883.6	887.6	883.6	875.8	877.7	872.8	873.8	869.8	866.9	864.9
15°	885.6	883.6	887.6	883.6	876.7	878.7	873.8	872.8	867.9	863.9	861.0
13°	882.6	879.7	885.6	882.6	878.7	879.7	872.8	871.8	865.9	860.0	855.1
11°	881.7	879.7	884.6	882.6	877.7	878.7	872.8	871.8	864.9	859.0	853.1
9°	887.6	884.6	887.6	884.6	879.7	880.7	874.8	872.8	864.9	857.0	850.1
7°	883.6	881.7	885.6	881.7	873.8	875.8	868.9	867.9	860.0	850.1	839.3
5°	881.7	878.7	883.6	877.7	869.8	868.9	861.0	861.0	851.1	840.3	831.4
3°	879.7	876.7	881.7	875.8	867.9	865.9	855.1	850.1	841.3	832.4	823.5
1°	872.8	871.8	876.7	870.8	863.9	862.0	849.2	845.2	832.4	822.6	811.7
0°	872.8	869.8	873.8	867.9	860.0	858.0	846.2	842.3	827.5	817.6	807.8
-1°	869.8	867.9	870.8	864.9	856.1	854.1	841.3	837.3	822.6	811.7	800.9
-3°	862.0	859.0	862.9	856.1	848.2	843.2	831.4	824.5	810.7	799.9	786.1
-5°	855.1	852.1	856.1	849.2	838.3	835.4	820.6	814.7	800.9	788.1	775.3
-7°	847.2	845.2	848.2	840.3	831.4	827.5	814.7	805.8	791.0	778.2	763.5
-9°	840.3	838.3	840.3	834.4	822.6	820.6	806.8	798.9	781.2	767.4	751.6
-11°	824.5	821.6	826.5	820.6	812.7	808.8	796.0	787.1	769.4	754.6	734.9
-13°	807.8	804.8	809.8	805.8	797.9	795.0	782.2	772.3	751.6	735.9	715.2
-15°	785.1	784.1	787.1	782.2	774.3	771.3	757.5	747.7	730.0	714.2	690.6
-17°	759.5	756.6	762.5	755.6	745.7	742.8	730.0	721.1	702.4	684.6	657.1
-19.5°	716.2	711.2	717.2	711.2	702.4	696.5	683.7	672.8	652.1	633.4	604.9
-22.5°	643.3	643.3	646.2	638.3	628.5	622.6	608.8	596.0	575.3	556.6	530.0
-25.5°	572.3	572.3	573.3	564.5	553.6	544.8	531.0	516.2	498.5	482.7	460.0
-29°	481.7	481.7	481.7	471.9	461.0	451.2	442.3	427.5	415.7	408.8	392.1
-33°	333.9	334.9	335.9	325.1	313.3	300.5	299.5	290.6	289.6	288.6	279.8
-37.5°	265.0	264.0	263.0	258.1	253.2	246.3	241.3	234.5	227.6	219.7	210.8
-42.5°	236.4	237.4	238.4	231.5	224.6	219.7	213.8	209.8	207.9	203.9	197.0
-47.5°	144.8	145.8	146.8	142.8	142.8	141.9	138.9	136.9	133.0	131.0	127.1
-55°	96.5	96.5	95.6	94.6	93.6	91.6	89.6	87.7	85.7	82.7	78.8
-65°	72.9	73.9	71.9	71.9	71.9	70.9	69.9	69.0	67.0	65.0	62.1
-75°	35.5	36.4	35.5	35.5	35.5	35.5	35.5	34.5	34.5	34.5	33.5
-85°	12.8	12.8	13.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
-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°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.9
75°	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.9
65°	1.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	3.0	3.9
55°	14.8	15.8	14.8	13.8	11.8	8.9	5.9	4.9	3.0	3.9	3.9
47.5°	20.7	19.7	16.7	13.8	10.8	7.9	6.9	5.9	3.9	3.9	3.9
42.5°	70.9	65.0	60.1	54.2	43.3	32.5	30.5	27.6	4.9	3.9	3.9
37.5°	309.3	298.5	286.7	277.8	255.1	211.8	181.3	100.5	7.9	4.9	3.9
33°	644.3	620.6	608.8	583.2	535.9	461.0	376.3	209.8	20.7	4.9	3.9
29°	775.3	761.5	746.7	708.3	654.1	570.4	477.8	279.8	39.4	5.9	3.9
25.5°	794.0	784.1	770.3	738.8	684.6	607.8	510.3	315.2	60.1	5.9	3.9
22.5°	819.6	812.7	797.9	770.3	717.2	635.4	537.9	334.9	78.8	5.9	3.9
19.5°	857.0	853.1	838.3	808.8	749.7	660.0	554.6	345.8	96.5	5.9	3.9
17°	859.0	852.1	836.3	808.8	751.6	661.0	553.6	348.7	110.3	5.9	3.9
15°	850.1	842.3	825.5	799.9	743.8	653.1	548.7	348.7	118.2	5.9	3.9
13°	842.3	832.4	813.7	789.1	732.9	643.3	536.9	344.8	125.1	5.9	3.9
11°	835.4	822.6	802.9	777.2	720.1	629.5	521.1	337.9	130.0	5.9	3.9
9°	829.5	814.7	792.0	764.4	704.3	615.7	502.4	329.0	133.0	5.9	3.9
7°	818.6	802.9	777.2	748.7	688.6	598.9	484.7	319.2	134.0	6.9	3.9
5°	806.8	790.1	763.5	732.9	671.8	579.2	466.9	309.3	134.0	6.9	3.9
3°	797.9	779.2	749.7	717.2	653.1	561.5	450.2	302.4	132.0	6.9	3.9
1°	788.1	767.4	735.9	701.4	637.4	541.8	434.4	293.6	128.1	6.9	3.9
0°	783.2	759.5	730.0	693.5	628.5	531.0	426.5	289.6	126.1	6.9	3.9
-1°	775.3	752.6	724.0	684.6	616.7	519.1	418.7	285.7	124.1	6.9	3.9
-3°	759.5	742.8	708.3	665.9	594.0	498.5	402.9	276.8	119.2	6.9	3.9
-5°	748.7	728.0	690.6	644.3	568.4	475.8	389.1	267.9	114.3	7.9	3.9
-7°	735.9	714.2	673.8	621.6	542.8	457.1	376.3	260.1	108.4	7.9	3.9
-9°	722.1	696.5	652.1	596.0	519.1	438.4	362.5	250.2	101.5	7.9	3.9
-11°	703.4	673.8	628.5	567.4	495.5	419.7	346.8	241.3	95.6	7.9	3.9
-13°	681.7	650.2	598.0	538.8	471.9	400.9	333.9	229.5	89.6	7.9	3.9
-15°	653.1	617.7	565.4	511.3	450.2	382.2	320.2	217.7	83.7	7.9	3.9
-17°	619.6	583.2	532.9	483.7	425.6	362.5	305.4	203.9	78.8	8.9	3.9
-19.5°	568.4	533.9	490.6	445.3	395.0	336.9	284.7	186.2	70.9	8.9	3.9
-22.5°	498.5	467.9	432.5	393.1	348.7	299.5	255.1	160.6	63.0	8.9	3.9
-25.5°	435.4	407.8	376.3	342.8	303.4	261.1	213.8	135.0	53.2	8.9	3.9
-29°	373.4	345.8	324.1	294.5	260.1	220.7	176.3	110.3	41.4	8.9	3.9
-33°	265.0	249.2	242.3	222.6	202.9	177.3	147.8	89.6	30.5	8.9	3.9
-37.5°	205.9	199.0	190.1	179.3	164.5	146.8	126.1	74.9	22.7	7.9	3.9
-42.5°	188.2	186.2	171.4	158.6	144.8	128.1	105.4	54.2	17.7	7.9	3.9
-47.5°	123.1	119.2	113.3	106.4	98.5	87.7	71.9	30.5	15.8	7.9	3.9
-55°	75.9	70.9	66.0	61.1	55.2	49.3	42.4	23.6	14.8	6.9	3.9
-65°	59.1	56.2	52.2	46.3	41.4	33.5	25.6	15.8	10.8	6.9	3.9
-75°	32.5	31.5	29.6	27.6	24.6	21.7	16.7	10.8	7.9	5.9	3.9
-85°	14.8	13.8	13.8	12.8	12.8	10.8	9.9	7.9	6.9	4.9	3.9
-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):**

	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)