

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: STREETWORKS

Report Number: P507844

Luminaire Tested: **UFLD-S-CA1-30-727-U-33**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2101-110-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UFLD-S-CA1-30-727-U-33  
Description: UTILITY FLOOD SMALL, 3X3 OPTIC  
Light Source: (2) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	3126 lumens	Max Intensity:	16108.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 1°V
Efficacy:	103.2 lumens/watt		
Luminous Opening:	Rectangular (W 0.67' x L: 0.5' x H: 0')		

Beam Angle (50%):	21.6°H x 21.3°V	Field Angle (10%):	46.5°H x 46.6°V
Beam Lumens:	1305.6 lumens	Field Lumens:	2709.5 lumens
Beam Efficiency:	41.8%	Field Efficiency:	86.7%

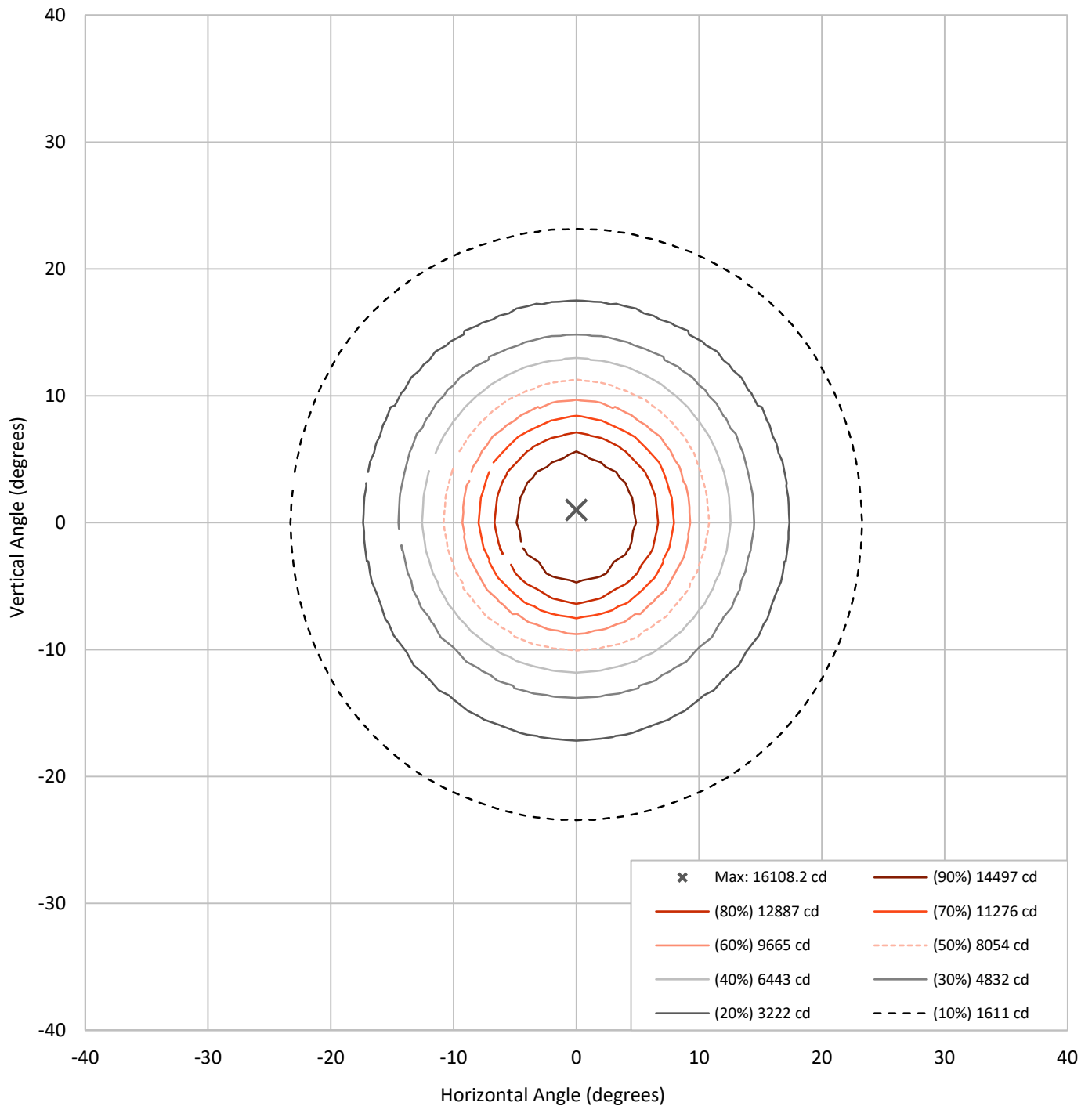
Input Watts (W): 30.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Candela Plot





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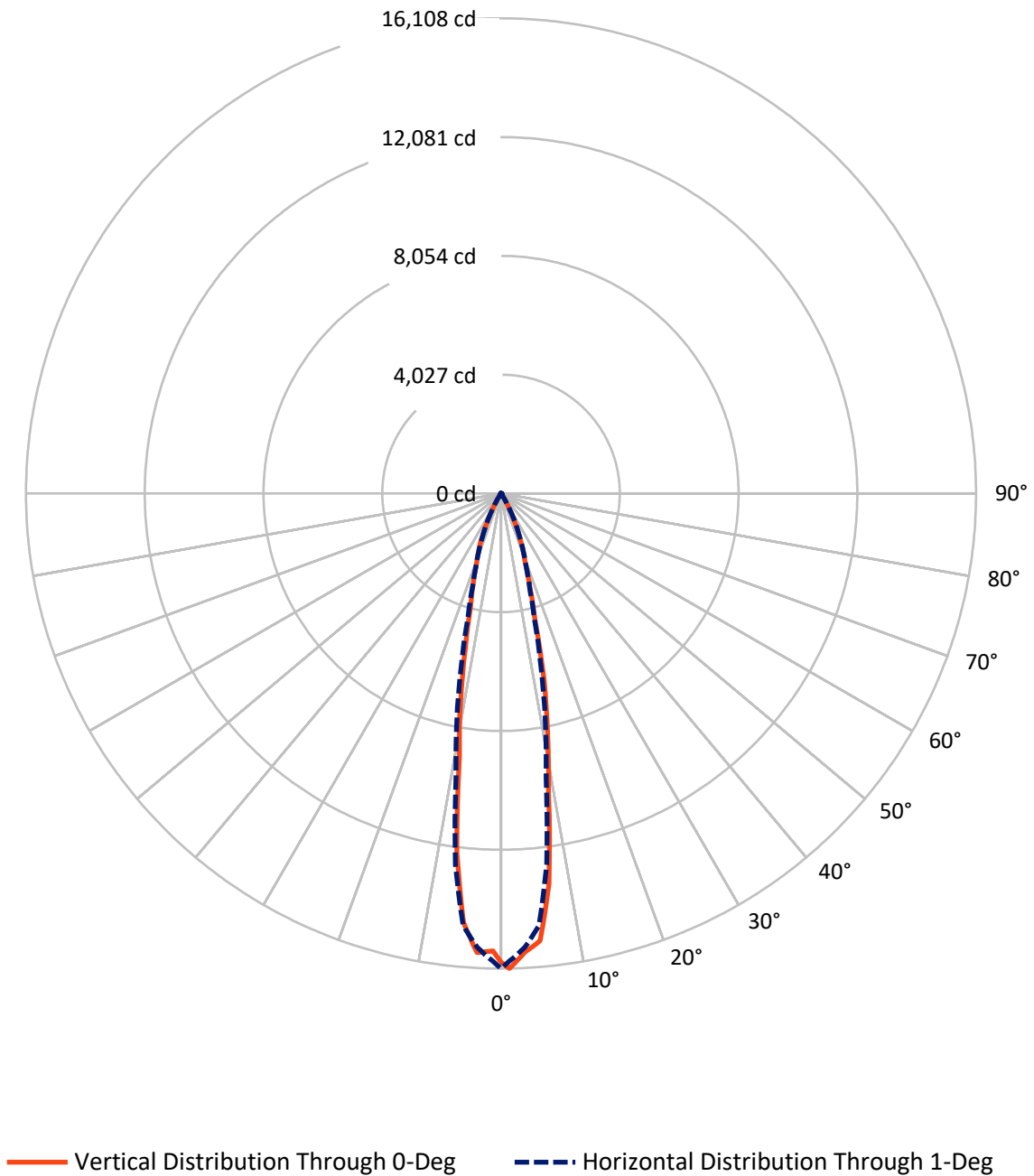
### Lumen Table

90	0.5	1.5		1.7		1.2		0.6		1.2		1.7		1.5		0.5
80	0.5	0.2	0.2	0.2	0.2	0.3	0.3	0.1	0.1	0.3	0.3	0.2	0.2	0.2	0.2	0.5
70	0.5	0.1	0.0	0.1	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.1	0.0	0.1	0.5
60		0.0	0.0	0.1	0.2	0.4	0.5	0.5	0.5	0.5	0.4	0.2	0.1	0.0	0.0	
50	0.3	0.0	0.0	0.0	0.3	0.6	1.3	2.6	2.6	1.3	0.6	0.3	0.0	0.0	0.0	0.3
40		0.0	0.0	0.1	0.3	3.1	17.9	35.0	35.0	17.9	3.1	0.3	0.1	0.0	0.0	
30	0.2	0.0	0.0	0.0	0.9	17.2	63.4	132.1	132.1	63.4	17.2	0.9	0.0	0.0	0.0	0.2
20		0.0	0.0	0.0	2.1	32.6	125.6	352.8	352.8	125.6	32.6	2.1	0.0	0.0	0.0	
10	0.2	0.0	0.0	0.0	2.1	32.6	121.3	335.6	335.6	121.3	32.6	2.1	0.0	0.0	0.0	0.2
0		0.0	0.0	0.1	0.9	17.0	62.7	120.0	120.0	62.7	17.0	0.9	0.1	0.0	0.0	
-10	0.2	0.0	0.0	0.1	0.4	2.8	17.6	35.7	35.7	17.6	2.8	0.4	0.1	0.0	0.0	0.2
-20		0.0	0.0	0.0	0.3	0.6	1.2	2.6	2.6	1.2	0.6	0.3	0.0	0.0	0.0	
-30	0.3	0.0	0.0	0.1	0.2	0.4	0.5	0.5	0.5	0.5	0.4	0.2	0.1	0.0	0.0	0.3
-40		0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	
-50	0.5	0.2	0.2	0.2	0.2	0.3	0.3	0.1	0.1	0.3	0.3	0.2	0.2	0.2	0.2	0.5
-60		0.5	1.5		1.7		1.3		0.6		1.3		1.7		1.5	
-70	0.5	1.5		1.7		1.3		0.6		1.3		1.7		1.5		0.5
-80	0.5	1.5		1.7		1.3		0.6		1.3		1.7		1.5		0.5
-90	0.5	1.5		1.7		1.3		0.6		1.3		1.7		1.5		0.5

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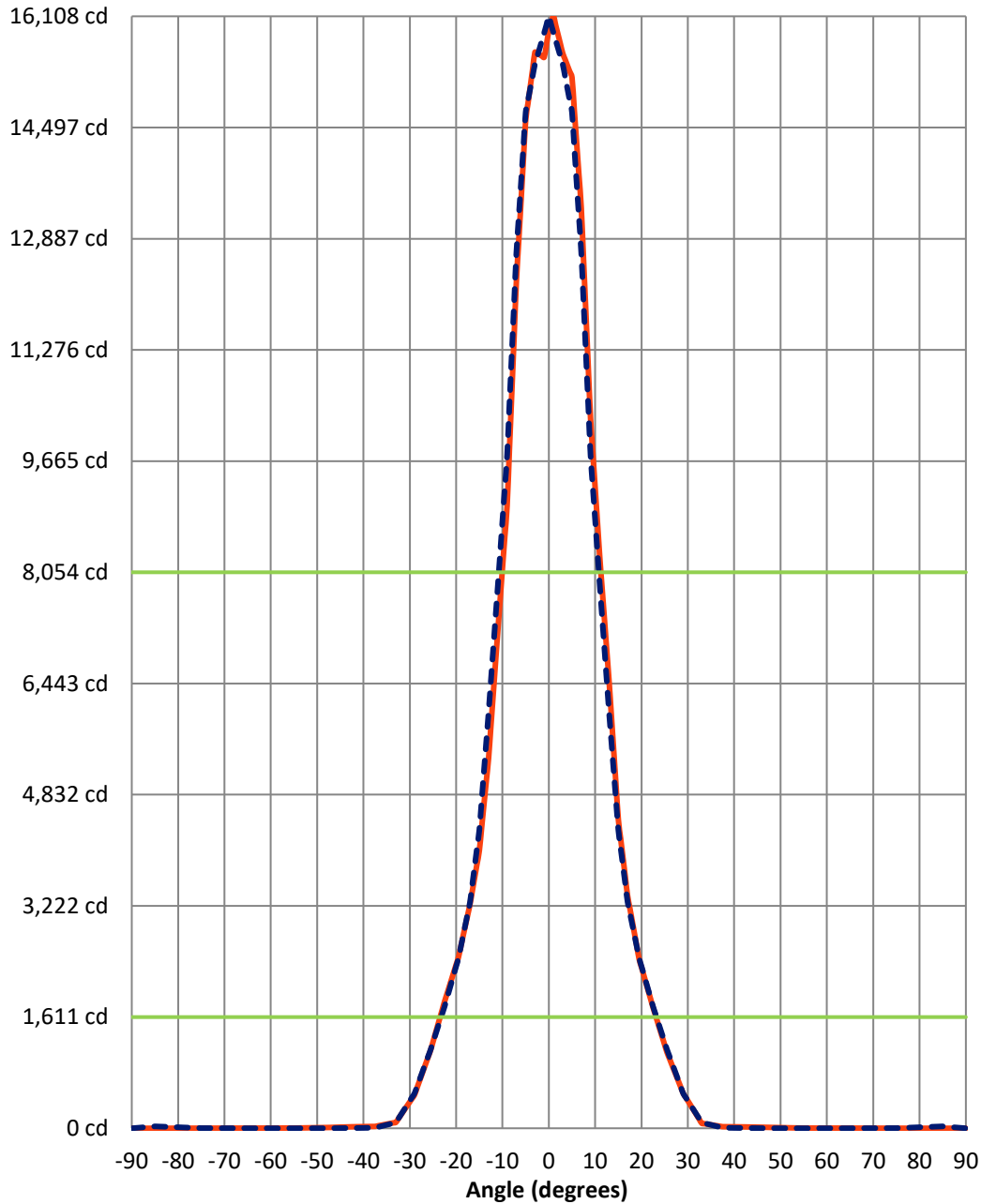
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
H Angle: 21.6°  
V Angle: 21.3°  
Lumens: 1305.6  
Efficiency: 41.8%

**Field:**  
H Angle: 46.5°  
V Angle: 46.6°  
Lumens: 2709.5  
Efficiency: 86.7%

**Spill:**  
Lumens: 416.5  
Efficiency: 13.3%

- Vertical Distribution through 0-Deg
- - Horizontal Distribution through 1-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	1.6	7.5	10.2	7.0	6.5	7.5	9.2	11.3	13.5	17.2
75°	0.5	1.1	2.2	4.3	5.9	8.1	10.2	10.8	10.2	9.2	7.5
65°	2.2	2.2	2.7	3.2	4.3	5.4	6.5	7.5	9.2	10.2	11.3
55°	2.7	2.7	3.2	3.2	4.3	4.8	5.9	6.5	7.5	8.1	9.2
47.5°	12.9	12.9	13.5	12.9	12.9	13.5	14.0	14.0	13.5	13.5	12.4
42.5°	19.4	19.4	19.4	19.4	19.9	19.9	20.5	20.5	21.0	21.0	20.5
37.5°	23.2	23.2	23.2	23.2	23.7	23.7	23.2	23.2	23.2	23.2	22.6
33°	72.1	78.1	73.2	68.9	56.0	46.3	45.2	40.9	34.5	29.6	24.8
29°	506.1	513.1	482.4	454.9	409.2	347.3	285.3	213.2	145.4	84.0	53.3
25.5°	1100.4	1116.0	1085.9	1032.6	969.6	861.9	748.3	626.1	477.5	348.9	214.8
22.5°	1747.6	1737.9	1719.6	1627.0	1535.4	1407.8	1265.7	1092.9	901.2	704.7	477.5
19.5°	2447.4	2476.5	2418.9	2305.3	2158.9	1988.8	1803.0	1607.0	1373.4	1131.7	826.4
17°	3366.5	3292.7	3234.0	3034.8	2823.8	2579.9	2306.9	2023.2	1769.1	1495.6	1139.2
15°	4473.9	4599.9	4392.6	4007.1	3560.3	3159.7	2801.2	2410.8	2093.2	1776.6	1388.5
13°	6479.3	6323.7	6069.6	5591.0	4711.3	4061.5	3393.4	2887.8	2420.0	2046.9	1615.7
11°	8268.9	8268.9	7880.7	7319.2	6350.1	5248.1	4141.7	3366.5	2799.0	2318.2	1820.2
9°	10286.7	10334.1	9611.6	8799.2	7851.1	6543.4	5166.2	3986.1	3183.9	2592.3	2003.8
7°	13335.0	13155.2	12298.6	10663.0	9118.4	7829.6	6201.5	4660.7	3556.0	2841.0	2177.2
5°	15222.0	15007.2	14358.4	13070.6	10797.6	8626.4	7094.2	5349.3	3937.7	3048.3	2315.5
3°	15573.5	15337.7	15189.7	14216.8	12152.7	9340.8	7628.2	5811.2	4197.7	3194.2	2413.5
1°	16108.2	15868.6	15414.2	14715.4	12682.5	9754.8	7863.0	6026.6	4321.0	3277.6	2462.5
0°	15893.3	15358.7	15451.3	14740.1	12707.8	9746.7	7859.2	6022.8	4314.5	3280.9	2467.4
-1°	15515.9	15293.1	15471.8	14584.0	12582.3	9645.5	7802.1	5952.8	4277.9	3263.1	2461.4
-3°	15586.5	15528.9	15101.4	13882.0	11654.7	9044.1	7432.8	5584.0	4076.6	3170.5	2404.9
-5°	14596.9	14420.9	13768.4	12269.5	9859.2	8236.6	6664.5	4982.1	3781.0	3006.8	2310.2
-7°	12262.0	11885.1	11252.6	9621.3	8421.8	7163.1	5682.5	4332.8	3432.1	2804.9	2175.6
-9°	9019.9	8920.9	8652.7	8068.1	7040.9	5852.7	4652.6	3765.4	3081.1	2549.2	2014.1
-11°	7209.4	7295.0	6794.8	6301.7	5471.5	4563.8	3877.9	3260.4	2754.3	2291.3	1832.1
-13°	5361.1	5329.4	5078.5	4707.5	4212.8	3715.3	3256.6	2810.9	2409.8	2050.7	1630.7
-15°	4020.0	4027.6	3938.7	3715.9	3423.0	3082.7	2754.9	2402.2	2095.4	1787.4	1394.9
-17°	3247.5	3202.8	3140.3	3007.4	2807.1	2569.7	2299.9	2052.3	1789.0	1512.8	1143.5
-19.5°	2477.1	2481.9	2411.4	2325.2	2190.1	2050.1	1855.8	1642.6	1405.2	1140.8	802.2
-22.5°	1834.8	1815.9	1780.4	1712.6	1585.0	1444.5	1290.5	1098.3	902.9	698.3	453.8
-25.5°	1133.3	1161.3	1136.0	1077.3	978.8	849.6	727.9	579.3	452.8	325.2	189.5
-29°	481.3	488.3	462.5	440.9	386.6	320.9	257.9	191.1	127.6	71.1	49.0
-33°	85.6	76.4	74.3	67.8	55.5	48.5	45.8	38.2	33.4	30.7	26.9
-37.5°	26.9	26.9	27.5	27.5	26.9	26.9	26.4	26.4	25.8	25.8	24.8
-42.5°	21.5	21.0	21.5	21.5	21.0	21.0	21.0	20.5	19.9	19.9	18.3
-47.5°	11.3	11.3	11.3	11.8	11.8	12.4	11.8	11.8	12.4	11.3	10.8
-55°	3.2	3.2	3.2	3.8	4.3	5.4	5.9	7.0	7.5	8.6	9.7
-65°	2.2	2.2	2.7	3.2	4.3	5.9	6.5	7.5	9.2	10.8	11.3
-75°	1.1	1.1	2.2	4.3	5.9	8.1	10.2	10.8	10.2	9.2	7.5
-85°	0.0	1.6	7.5	10.2	7.0	6.5	8.1	9.2	11.3	13.5	17.2
-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°	21.5	25.3	28.5	31.8	34.5	37.1	37.7	36.6	33.4	30.1	28.5
75°	7.0	7.0	7.5	8.6	10.2	12.4	16.7	22.6	27.5	29.1	28.5
65°	11.3	10.2	8.1	7.0	6.5	6.5	5.9	8.6	16.2	25.3	28.0
55°	10.8	11.3	10.8	9.2	7.0	4.3	2.7	1.6	5.9	19.4	28.0
47.5°	11.8	11.8	11.3	10.2	7.5	4.3	1.6	0.0	2.7	15.1	28.0
42.5°	18.8	17.2	15.1	10.8	7.5	3.8	0.5	0.0	1.1	12.9	27.5
37.5°	22.1	21.0	18.8	14.5	8.6	3.2	0.0	0.0	0.0	10.2	27.5
33°	22.6	21.5	19.4	16.7	9.7	2.7	0.0	0.0	0.0	8.6	27.5
29°	30.7	22.1	18.3	15.6	10.8	3.8	0.0	0.0	0.0	7.5	27.5
25.5°	92.6	37.7	20.5	14.5	10.2	3.8	0.0	0.0	0.0	6.5	27.5
22.5°	242.8	96.4	28.5	14.0	9.2	3.8	0.0	0.0	0.0	5.4	27.5
19.5°	476.5	219.1	57.1	15.6	8.6	3.8	0.0	0.0	0.0	4.8	27.5
17°	713.9	358.6	107.1	19.4	8.1	3.8	0.0	0.0	0.0	4.3	27.5
15°	905.0	486.2	161.0	24.2	8.1	3.2	0.0	0.0	0.0	3.8	27.5
13°	1103.1	631.5	225.6	31.8	8.1	3.2	0.0	0.0	0.0	3.2	27.5
11°	1278.1	757.5	290.7	40.4	7.5	3.2	0.0	0.0	0.0	3.2	27.5
9°	1432.1	881.3	354.8	50.6	7.5	3.2	0.0	0.0	0.0	2.7	27.5
7°	1562.4	981.5	410.2	62.5	7.5	2.7	0.0	0.0	0.0	2.7	27.5
5°	1662.5	1062.8	455.5	72.7	7.5	2.7	0.0	0.0	0.0	2.7	27.5
3°	1726.6	1112.3	487.8	79.7	7.5	2.7	0.0	0.0	0.0	2.7	27.5
1°	1762.6	1141.4	503.4	82.9	7.5	2.7	0.0	0.0	0.0	2.2	27.5
0°	1768.6	1144.6	505.5	83.4	7.5	2.7	0.0	0.0	0.0	2.2	27.5
-1°	1764.3	1141.9	502.8	82.4	7.5	2.7	0.0	0.0	0.0	2.7	27.5
-3°	1731.9	1114.4	487.2	78.6	8.1	2.7	0.0	0.0	0.0	2.7	27.5
-5°	1661.4	1058.4	454.9	70.0	8.6	3.2	0.0	0.0	0.0	2.7	27.5
-7°	1572.1	977.1	408.1	60.3	9.2	3.2	0.0	0.0	0.0	2.7	27.5
-9°	1440.2	875.4	348.9	49.5	9.2	3.8	0.0	0.0	0.0	3.2	27.5
-11°	1283.5	751.0	281.6	39.3	9.7	4.3	0.0	0.0	0.0	3.2	27.5
-13°	1105.3	618.1	215.3	30.1	10.2	4.3	0.0	0.0	0.0	3.8	27.5
-15°	899.1	475.9	153.4	24.2	10.8	4.8	0.0	0.0	0.0	4.3	27.5
-17°	692.9	340.3	99.1	20.5	10.8	4.8	0.0	0.0	0.0	4.8	27.5
-19.5°	447.9	197.0	52.2	16.7	10.8	4.8	0.0	0.0	0.0	5.4	27.5
-22.5°	217.5	84.5	27.5	15.6	10.2	4.3	0.0	0.0	0.0	5.9	27.5
-25.5°	78.6	35.0	21.5	16.2	10.2	4.3	0.0	0.0	0.0	7.0	27.5
-29°	30.1	23.7	20.5	16.7	9.2	2.7	0.0	0.0	0.0	8.1	27.5
-33°	24.8	23.2	19.9	16.2	7.5	2.2	0.0	0.0	0.0	9.7	28.0
-37.5°	23.2	21.0	17.2	12.4	7.0	2.7	0.0	0.0	0.0	11.3	28.0
-42.5°	16.7	15.1	12.9	10.2	7.0	3.8	1.1	0.0	1.1	14.0	28.0
-47.5°	10.2	10.8	10.8	9.7	7.5	4.8	2.2	0.0	3.2	16.2	28.0
-55°	10.8	11.3	10.8	9.2	7.0	4.8	3.2	2.2	7.0	20.5	28.5
-65°	11.3	10.2	8.6	7.0	7.0	7.0	6.5	8.6	16.7	26.4	28.5
-75°	7.0	7.0	8.1	9.2	10.8	12.9	16.7	22.6	28.0	30.7	29.1
-85°	21.5	25.3	28.5	31.8	34.5	36.6	37.7	36.6	33.4	31.2	29.1
-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)