

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: P507851

Luminaire Tested: **UFLD-S-CA1-50-730-U-33**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507851  
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-CA1-50-730-U-33  
Description: UTILITY FLOOD SMALL, 3X3 OPTIC  
Light Source: (2) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5682 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.5' x H: 0')

NEMA Type: 4H x 4V  
Max Intensity: 29279.1 candela  
Max Intensity Angle: 0°H x 1°V

Beam Angle (50%): 21.6°H x 21.3°V  
Beam Lumens: 2373.1 lumens  
Beam Efficiency: 41.8%

Field Angle (10%): 46.5°H x 46.6°V  
Field Lumens: 4924.9 lumens  
Field Efficiency: 86.7%

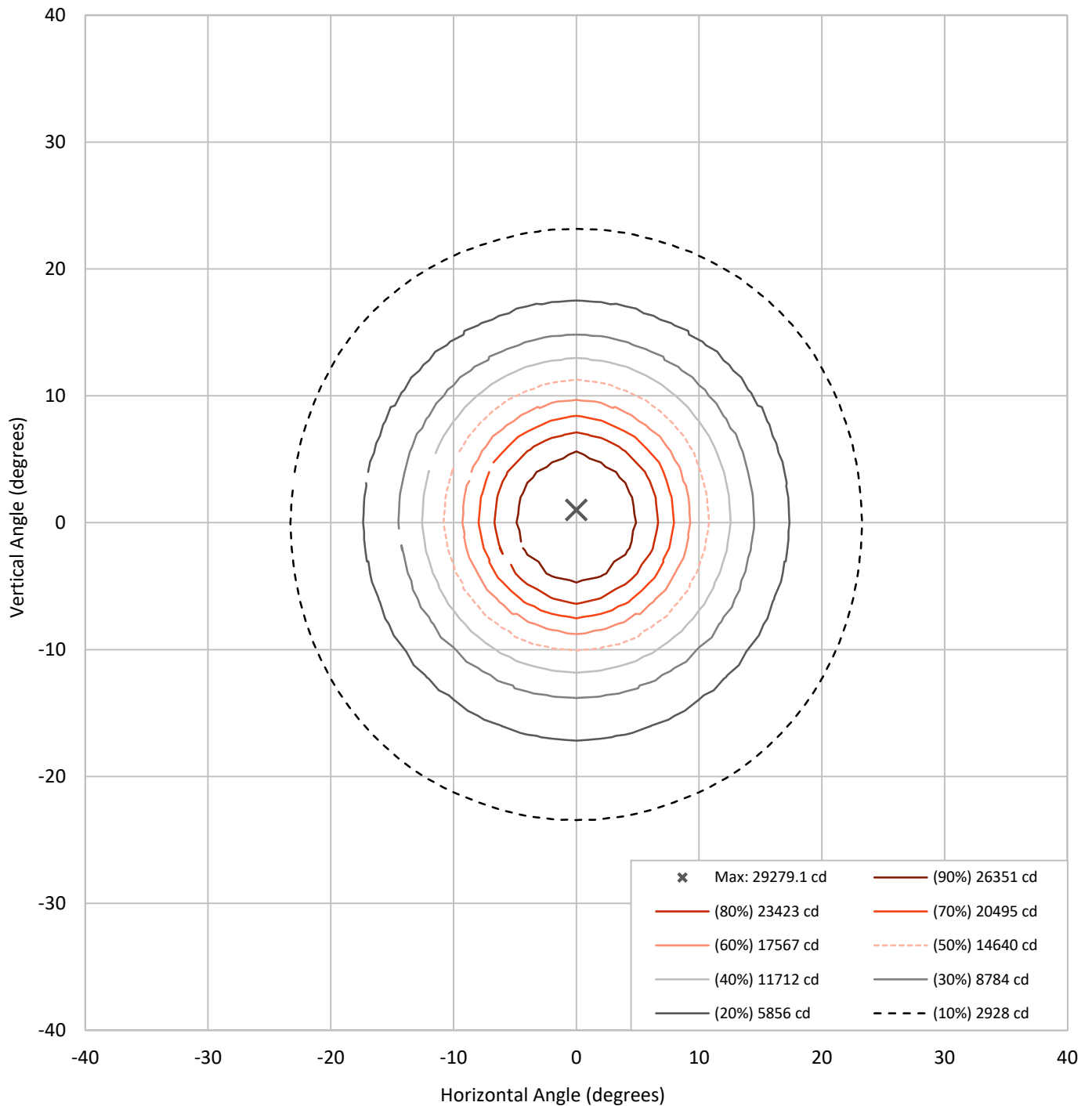
Input Watts (W): 51.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Candela Plot





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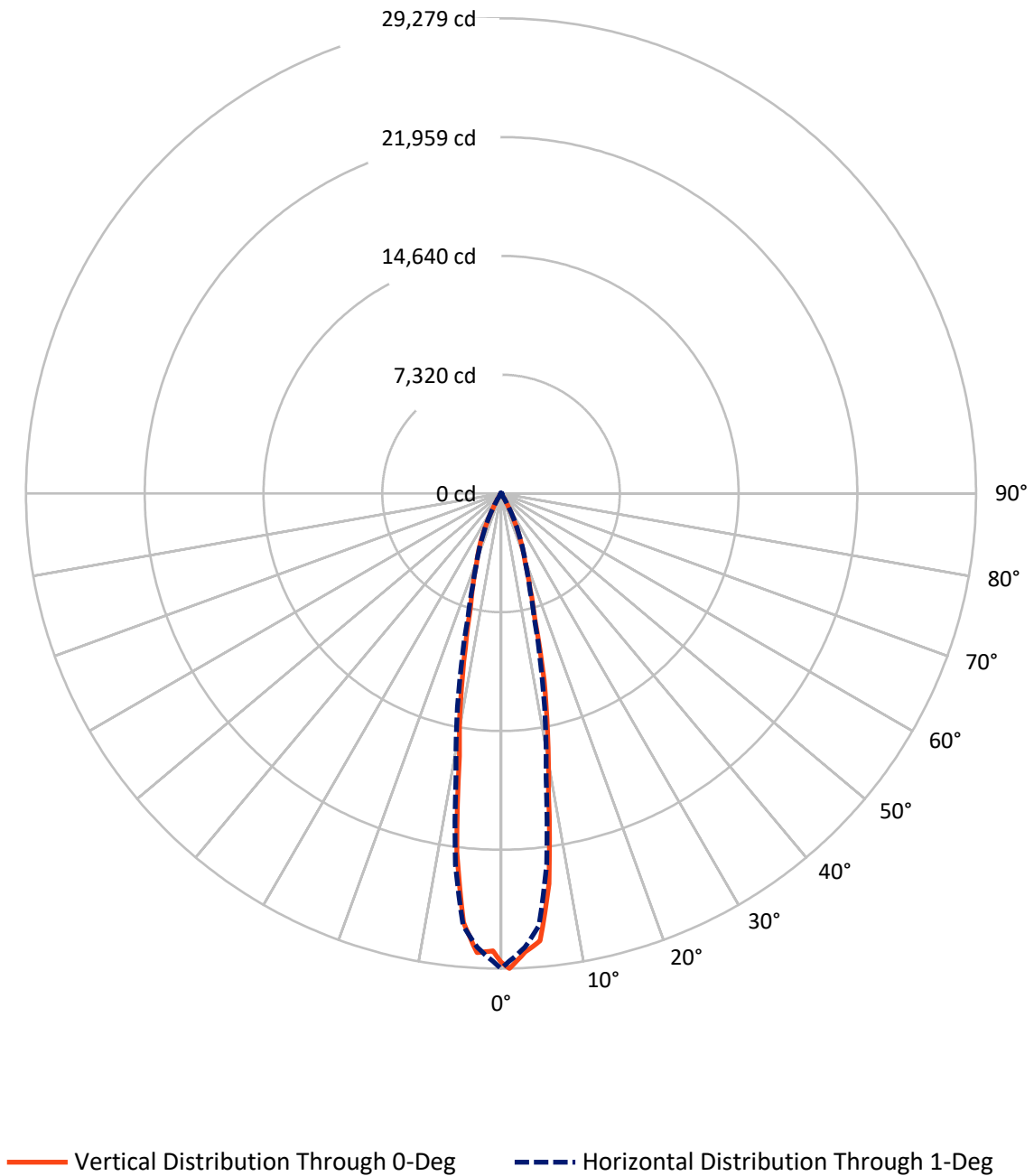
### Lumen Table

90	0.9	2.7		3.1		2.3		1.0		2.3		3.1		2.7		0.9
80	0.9	2.7		3.1		2.3		1.0		2.3		3.1		2.7		0.9
70	0.8	0.4	0.3	0.3	0.3	0.5	0.5	0.2	0.2	0.5	0.5	0.3	0.3	0.3	0.4	0.8
60		0.2	0.1	0.2	0.4	0.5	0.5	0.3	0.3	0.5	0.5	0.4	0.2	0.1	0.2	
50	0.6	0.1	0.0	0.1	0.4	0.7	0.9	0.9	0.9	0.9	0.7	0.4	0.1	0.0	0.1	0.6
40		0.0	0.0	0.1	0.6	1.1	2.3	4.8	4.8	2.3	1.1	0.6	0.1	0.0	0.0	
30	0.4	0.0	0.0	0.1	0.6	5.6	32.6	63.6	63.6	32.6	5.6	0.6	0.1	0.0	0.0	0.4
20		0.0	0.0	0.1	1.6	31.3	115.3	240.2	240.2	115.3	31.3	1.6	0.1	0.0	0.0	
10	0.4	0.0	0.0	0.1	3.8	59.2	228.4	641.3	641.3	228.4	59.2	3.8	0.1	0.0	0.0	0.4
0		0.0	0.0	0.1	3.8	59.2	220.6	610.0	610.0	220.6	59.2	3.8	0.1	0.0	0.0	
-10	0.4	0.0	0.0	0.1	1.6	30.8	113.9	218.2	218.2	113.9	30.8	1.6	0.1	0.0	0.0	0.4
-20		0.0	0.0	0.1	0.6	5.1	32.0	64.9	64.9	32.0	5.1	0.6	0.1	0.0	0.0	
-30	0.6	0.0	0.0	0.1	0.5	1.1	2.3	4.8	4.8	2.3	1.1	0.5	0.1	0.0	0.0	0.6
-40		0.1	0.0	0.1	0.4	0.7	0.9	0.9	0.9	0.9	0.7	0.4	0.1	0.0	0.1	
-50	0.9	0.2	0.1	0.2	0.4	0.5	0.5	0.3	0.3	0.5	0.5	0.4	0.2	0.1	0.2	0.9
-60		0.4	0.3	0.3	0.3	0.5	0.5	0.2	0.2	0.5	0.5	0.3	0.3	0.3	0.4	
-70	1.0	2.7		3.2		2.3		1.0		2.3		3.2		2.7		1.0
-80		2.7		3.2		2.3		1.0		2.3		3.2		2.7		
-90	1.0	2.7		3.2		2.3		1.0		2.3		3.2		2.7		1.0

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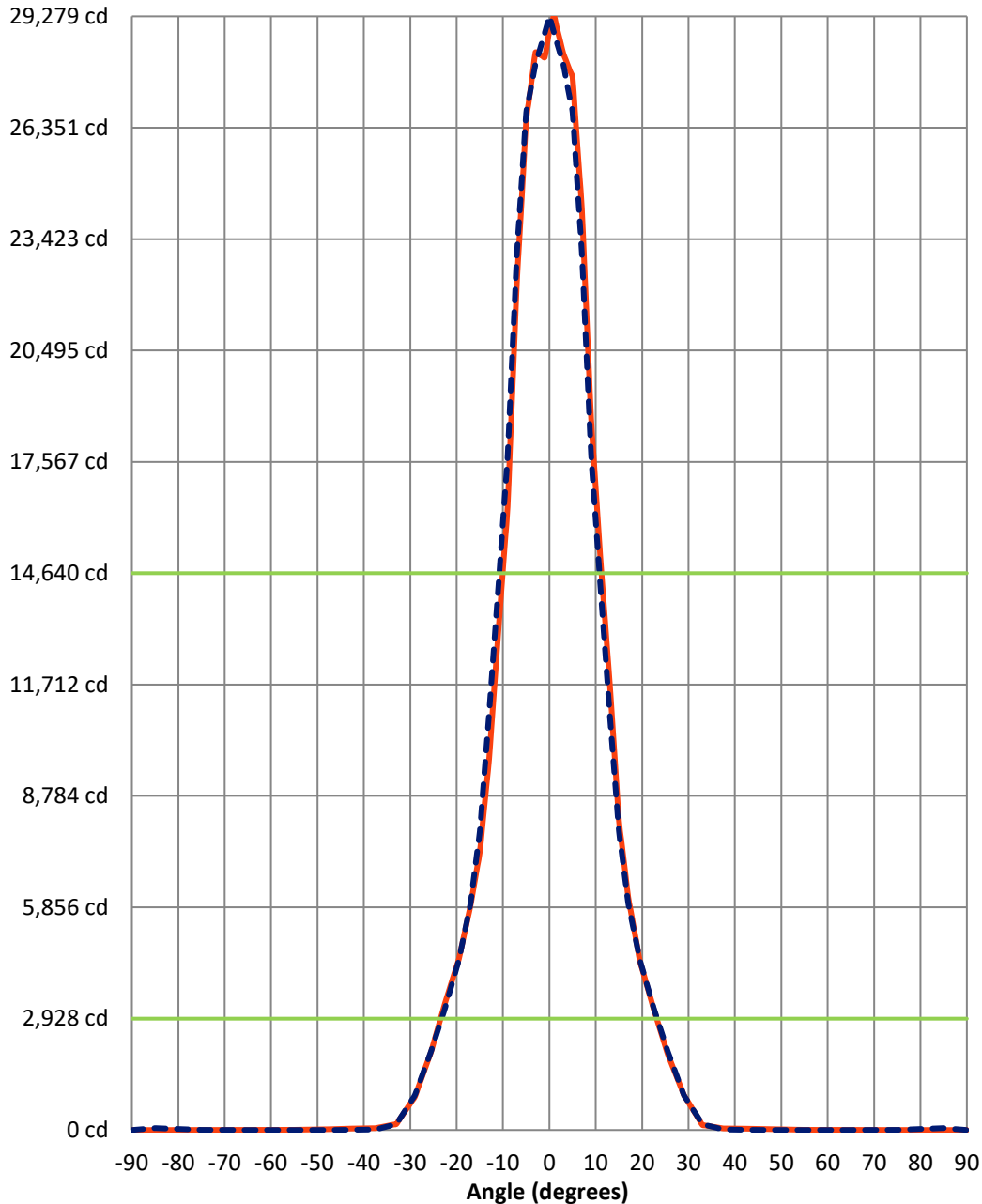
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.6°  
 V Angle: 21.3°  
 Lumens: 2373.1  
 Efficiency: 41.8%

**Field:**  
 H Angle: 46.5°  
 V Angle: 46.6°  
 Lumens: 4924.9  
 Efficiency: 86.7%

**Spill:**  
 Lumens: 757.1  
 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	2.9	13.7	18.6	12.7	11.7	13.7	16.6	20.6	24.5	31.3
75°	1.0	2.0	3.9	7.8	10.8	14.7	18.6	19.6	18.6	16.6	13.7
65°	3.9	3.9	4.9	5.9	7.8	9.8	11.7	13.7	16.6	18.6	20.6
55°	4.9	4.9	5.9	5.9	7.8	8.8	10.8	11.7	13.7	14.7	16.6
47.5°	23.5	23.5	24.5	23.5	23.5	24.5	25.4	25.4	24.5	24.5	22.5
42.5°	35.2	35.2	35.2	35.2	36.2	36.2	37.2	37.2	38.2	38.2	37.2
37.5°	42.1	42.1	42.1	42.1	43.1	43.1	42.1	42.1	42.1	42.1	41.1
33°	131.1	141.9	133.1	125.3	101.8	84.2	82.2	74.4	62.6	53.8	45.0
29°	919.9	932.6	876.8	826.9	743.7	631.2	518.6	387.5	264.2	152.7	96.9
25.5°	2000.2	2028.6	1973.8	1876.9	1762.4	1566.7	1360.2	1138.1	868.0	634.1	390.5
22.5°	3176.5	3158.9	3125.6	2957.3	2790.9	2559.0	2300.6	1986.5	1638.1	1281.0	868.0
19.5°	4448.6	4501.5	4396.8	4190.3	3924.1	3614.9	3277.3	2921.1	2496.4	2057.0	1502.1
17°	6119.1	5985.0	5878.3	5516.3	5132.7	4689.4	4193.2	3677.5	3215.6	2718.5	2070.7
15°	8132.0	8361.0	7984.2	7283.6	6471.4	5743.3	5091.6	4382.1	3804.7	3229.3	2523.8
13°	11777.2	11494.4	11032.5	10162.6	8563.6	7382.4	6168.0	5249.1	4398.7	3720.6	2936.7
11°	15030.0	15030.0	14324.5	13303.8	11542.4	9539.2	7528.2	6119.1	5087.6	4213.8	3308.6
9°	18697.7	18783.8	17470.6	15993.9	14270.6	11893.7	9390.5	7245.4	5787.3	4711.9	3642.3
7°	24238.5	23911.6	22354.7	19381.8	16574.2	14231.5	11272.3	8471.6	6463.5	5164.0	3957.4
5°	27668.4	27277.9	26098.7	23758.0	19626.4	15679.8	12894.8	9723.2	7157.3	5540.7	4208.9
3°	28307.4	27878.8	27609.7	25841.4	22089.5	16978.4	13865.5	10562.8	7630.0	5805.9	4387.0
1°	29279.1	28843.6	28017.7	26747.5	23052.4	17730.9	14292.2	10954.2	7854.1	5957.6	4476.0
0°	28888.7	27916.9	28085.2	26792.5	23098.4	17716.2	14285.3	10947.4	7842.3	5963.5	4484.8
-1°	28202.7	27797.5	28122.4	26508.8	22870.4	17532.2	14181.6	10820.2	7775.8	5931.2	4474.1
-3°	28330.9	28226.2	27449.2	25232.7	21184.3	16439.2	13510.3	10149.8	7409.8	5762.9	4371.3
-5°	26532.2	26212.2	25026.2	22301.8	17920.7	14971.3	12113.8	9055.8	6872.6	5465.4	4199.1
-7°	22288.1	21603.1	20453.3	17488.2	15307.9	13020.0	10328.9	7875.6	6238.4	5098.4	3954.4
-9°	16395.1	16215.1	15727.7	14665.0	12797.9	10638.1	8456.9	6844.2	5600.4	4633.6	3660.9
-11°	13104.2	13259.8	12350.7	11454.3	9945.3	8295.4	7048.7	5926.3	5006.4	4164.8	3330.1
-13°	9744.7	9687.0	9230.9	8556.7	7657.4	6753.2	5919.4	5109.2	4380.1	3727.4	2964.1
-15°	7307.1	7320.8	7159.3	6754.2	6221.8	5603.3	5007.4	4366.4	3808.6	3248.9	2535.5
-17°	5902.8	5821.6	5708.1	5466.3	5102.3	4670.8	4180.5	3730.3	3251.8	2749.8	2078.5
-19.5°	4502.4	4511.3	4383.1	4226.5	3980.9	3726.4	3373.2	2985.6	2554.1	2073.6	1458.1
-22.5°	3335.0	3300.8	3236.2	3112.9	2880.9	2625.5	2345.7	1996.3	1641.1	1269.2	824.9
-25.5°	2059.9	2110.8	2064.8	1958.1	1779.1	1544.2	1323.0	1053.0	823.0	591.1	344.5
-29°	874.9	887.6	840.6	801.5	702.6	583.2	468.7	347.4	231.9	129.2	89.1
-33°	155.6	139.0	135.0	123.3	100.8	88.1	83.2	69.5	60.7	55.8	48.9
-37.5°	48.9	48.9	49.9	49.9	48.9	48.9	48.0	48.0	47.0	47.0	45.0
-42.5°	39.1	38.2	39.1	39.1	38.2	38.2	38.2	37.2	36.2	36.2	33.3
-47.5°	20.6	20.6	20.6	21.5	21.5	22.5	21.5	21.5	22.5	20.6	19.6
-55°	5.9	5.9	5.9	6.9	7.8	9.8	10.8	12.7	13.7	15.7	17.6
-65°	3.9	3.9	4.9	5.9	7.8	10.8	11.7	13.7	16.6	19.6	20.6
-75°	2.0	2.0	3.9	7.8	10.8	14.7	18.6	19.6	18.6	16.6	13.7
-85°	0.0	2.9	13.7	18.6	12.7	11.7	14.7	16.6	20.6	24.5	31.3
-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):**

	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°	39.1	46.0	51.9	57.7	62.6	67.5	68.5	66.5	60.7	54.8	51.9
75°	12.7	12.7	13.7	15.7	18.6	22.5	30.3	41.1	49.9	52.8	51.9
65°	20.6	18.6	14.7	12.7	11.7	11.7	10.8	15.7	29.4	46.0	50.9
55°	19.6	20.6	19.6	16.6	12.7	7.8	4.9	2.9	10.8	35.2	50.9
47.5°	21.5	21.5	20.6	18.6	13.7	7.8	2.9	0.0	4.9	27.4	50.9
42.5°	34.3	31.3	27.4	19.6	13.7	6.9	1.0	0.0	2.0	23.5	49.9
37.5°	40.1	38.2	34.3	26.4	15.7	5.9	0.0	0.0	0.0	18.6	49.9
33°	41.1	39.1	35.2	30.3	17.6	4.9	0.0	0.0	0.0	15.7	49.9
29°	55.8	40.1	33.3	28.4	19.6	6.9	0.0	0.0	0.0	13.7	49.9
25.5°	168.3	68.5	37.2	26.4	18.6	6.9	0.0	0.0	0.0	11.7	49.9
22.5°	441.3	175.2	51.9	25.4	16.6	6.9	0.0	0.0	0.0	9.8	49.9
19.5°	866.0	398.3	103.7	28.4	15.7	6.9	0.0	0.0	0.0	8.8	49.9
17°	1297.6	651.7	194.7	35.2	14.7	6.9	0.0	0.0	0.0	7.8	49.9
15°	1645.0	883.7	292.6	44.0	14.7	5.9	0.0	0.0	0.0	6.9	49.9
13°	2005.1	1147.9	410.0	57.7	14.7	5.9	0.0	0.0	0.0	5.9	49.9
11°	2323.1	1376.9	528.4	73.4	13.7	5.9	0.0	0.0	0.0	5.9	49.9
9°	2603.0	1601.9	644.9	92.0	13.7	5.9	0.0	0.0	0.0	4.9	49.9
7°	2839.8	1784.0	745.7	113.5	13.7	4.9	0.0	0.0	0.0	4.9	49.9
5°	3021.9	1931.7	827.9	132.1	13.7	4.9	0.0	0.0	0.0	4.9	49.9
3°	3138.3	2021.7	886.6	144.8	13.7	4.9	0.0	0.0	0.0	4.9	49.9
1°	3203.9	2074.6	915.0	150.7	13.7	4.9	0.0	0.0	0.0	3.9	49.9
0°	3214.6	2080.5	918.9	151.7	13.7	4.9	0.0	0.0	0.0	3.9	49.9
-1°	3206.8	2075.6	914.0	149.7	13.7	4.9	0.0	0.0	0.0	4.9	49.9
-3°	3148.1	2025.7	885.6	142.9	14.7	4.9	0.0	0.0	0.0	4.9	49.9
-5°	3019.9	1923.9	826.9	127.2	15.7	5.9	0.0	0.0	0.0	4.9	49.9
-7°	2857.5	1776.1	741.8	109.6	16.6	5.9	0.0	0.0	0.0	4.9	49.9
-9°	2617.7	1591.2	634.1	90.0	16.6	6.9	0.0	0.0	0.0	5.9	49.9
-11°	2332.9	1365.1	511.8	71.4	17.6	7.8	0.0	0.0	0.0	5.9	49.9
-13°	2009.0	1123.4	391.4	54.8	18.6	7.8	0.0	0.0	0.0	6.9	49.9
-15°	1634.2	865.1	278.9	44.0	19.6	8.8	0.0	0.0	0.0	7.8	49.9
-17°	1259.4	618.5	180.1	37.2	19.6	8.8	0.0	0.0	0.0	8.8	49.9
-19.5°	814.2	358.2	94.9	30.3	19.6	8.8	0.0	0.0	0.0	9.8	49.9
-22.5°	395.3	153.6	49.9	28.4	18.6	7.8	0.0	0.0	0.0	10.8	49.9
-25.5°	142.9	63.6	39.1	29.4	18.6	7.8	0.0	0.0	0.0	12.7	49.9
-29°	54.8	43.1	37.2	30.3	16.6	4.9	0.0	0.0	0.0	14.7	49.9
-33°	45.0	42.1	36.2	29.4	13.7	3.9	0.0	0.0	0.0	17.6	50.9
-37.5°	42.1	38.2	31.3	22.5	12.7	4.9	0.0	0.0	0.0	20.6	50.9
-42.5°	30.3	27.4	23.5	18.6	12.7	6.9	2.0	0.0	2.0	25.4	50.9
-47.5°	18.6	19.6	19.6	17.6	13.7	8.8	3.9	0.0	5.9	29.4	50.9
-55°	19.6	20.6	19.6	16.6	12.7	8.8	5.9	3.9	12.7	37.2	51.9
-65°	20.6	18.6	15.7	12.7	12.7	12.7	11.7	15.7	30.3	48.0	51.9
-75°	12.7	12.7	14.7	16.6	19.6	23.5	30.3	41.1	50.9	55.8	52.8
-85°	39.1	46.0	51.9	57.7	62.6	66.5	68.5	66.5	60.7	56.8	52.8
-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):**

	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)