

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: P240968

Luminaire Tested: **UTLD-AF24-60-D-U-T3-CL**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-60-D-U-T3-CL  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6292.2 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U2 - G2

Input Watts (W): 64  
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: 28.75 FT

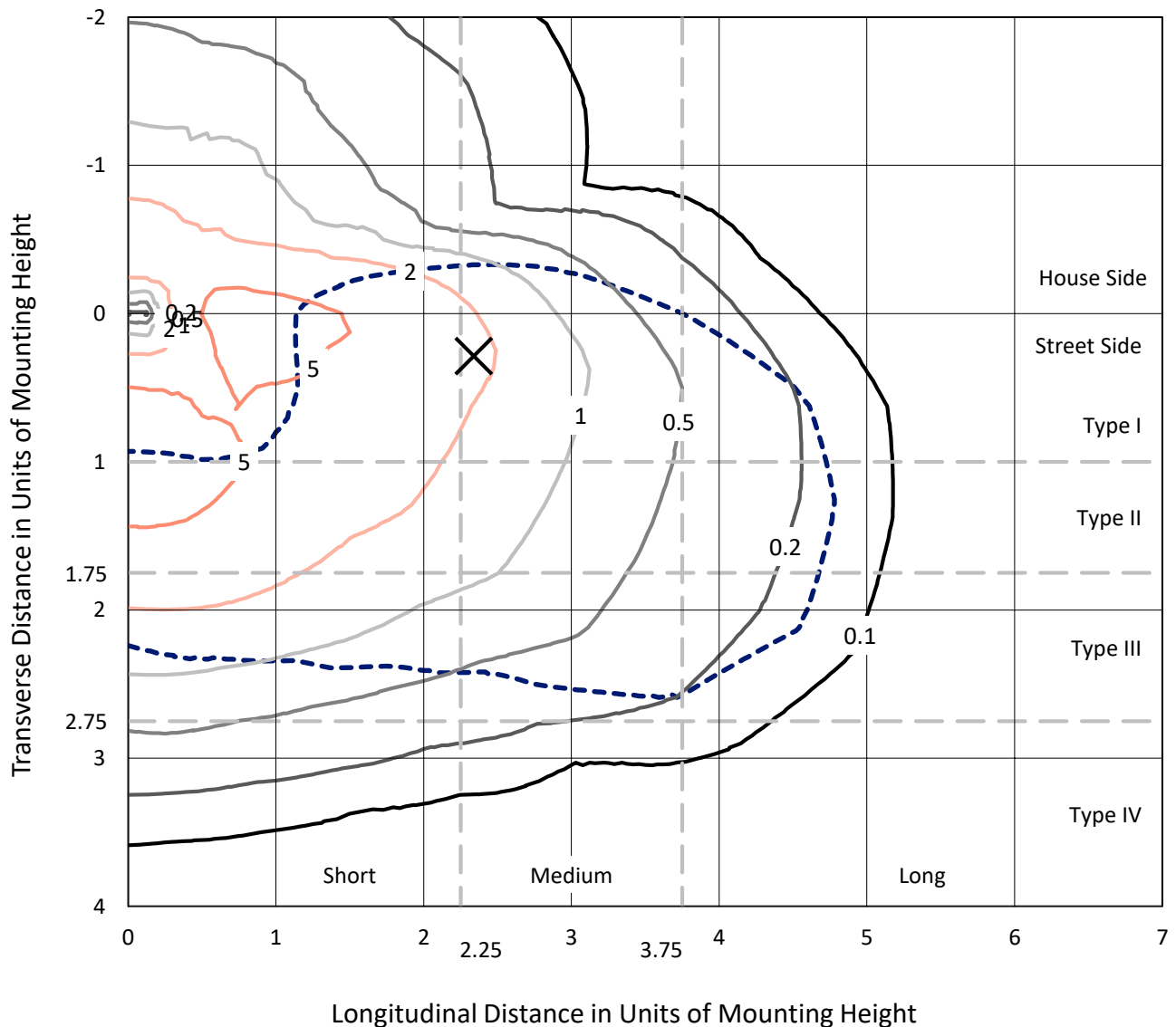


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

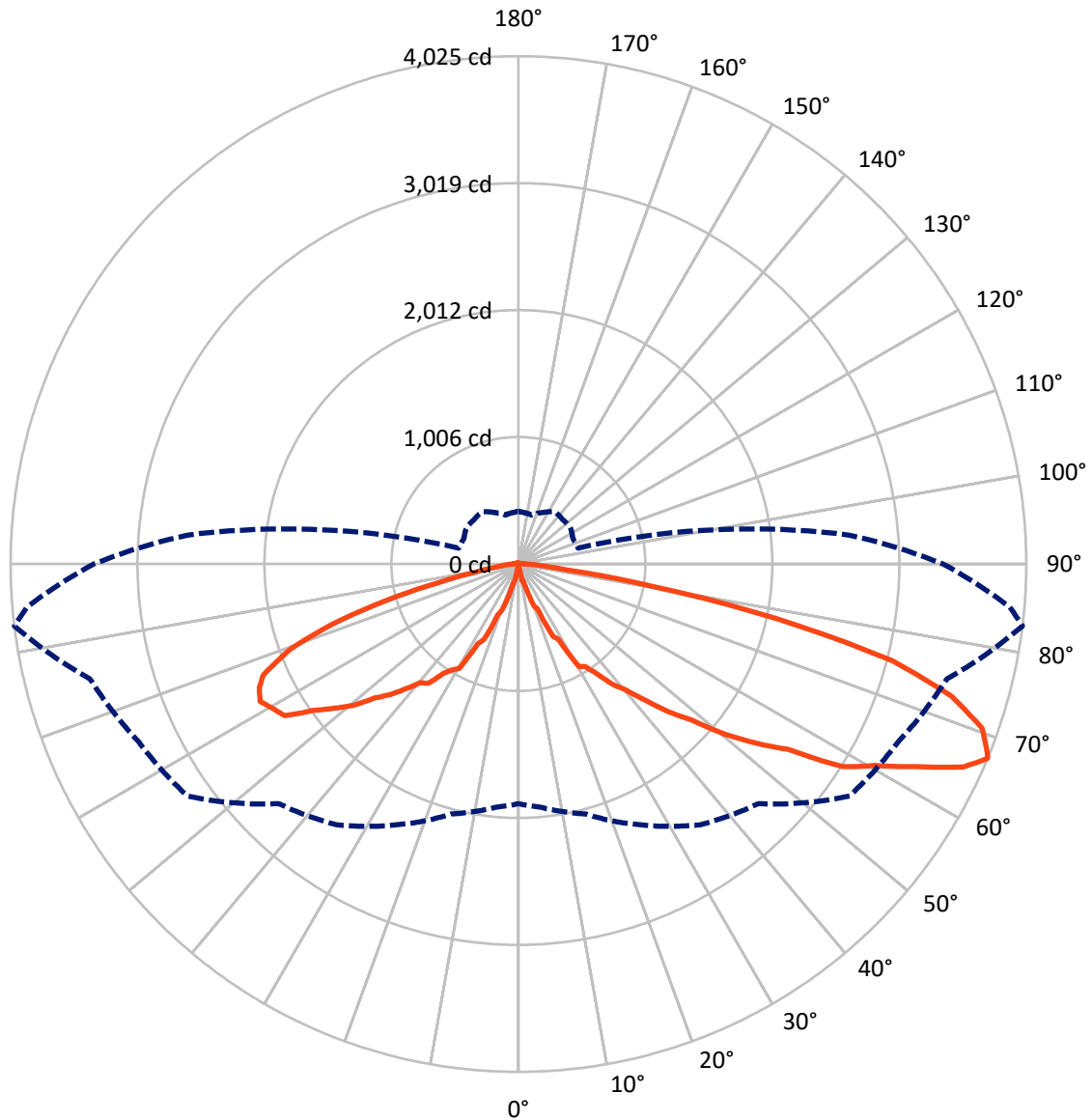


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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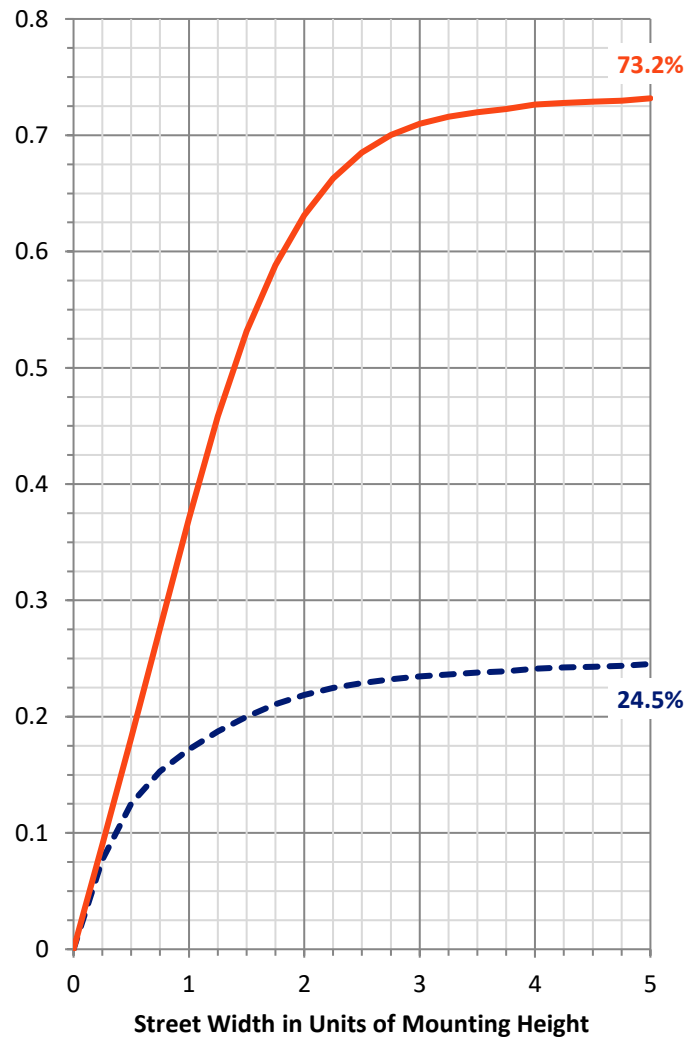
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1578.8	41.8	1620.6
	% Fixture	25.1	0.7	25.8
<b>Street Side</b>	Lumens	4636.5	35.1	4671.6
	% Fixture	73.7	0.6	74.2
<b>Total</b>	Lumens	6215.3	76.9	6292.2
	% Fixture	98.8	1.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	56.9	0.9
20°-30°	228.7	3.6
30°-40°	505.0	8.0
40°-50°	900.0	14.3
50°-60°	1444.3	23.0
60°-70°	1757.4	27.9
70°-80°	1132.5	18.0
80°-90°	186.1	3.0
90°-100°	38.3	0.6
100°-110°	17.5	0.3
110°-120°	8.8	0.1
120°-130°	6.3	0.1
130°-140°	3.9	0.1
140°-150°	1.8	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6215.3	98.8
0°-180°	6292.2	100.0



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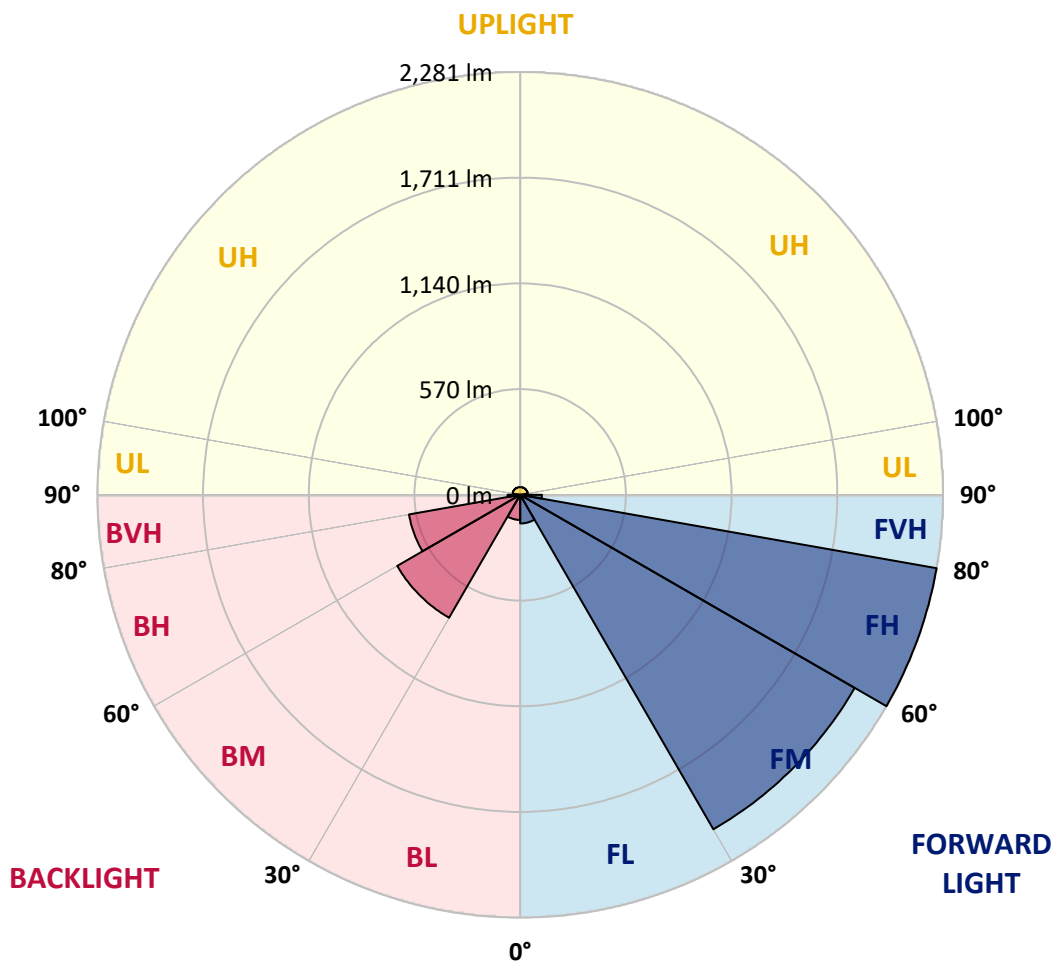
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.5	2.5			
FM	(30°-60°)	2083.4	33.1			
FH	(60°-80°)	2280.9	36.2			G2/5000
FVH	(80°-90°)	117.7	1.9			G2/225
BL	(0°-30°)	135.4	2.2	B1/500		
BM	(30°-60°)	766.0	12.2	B1/1000		
BH	(60°-80°)	609.0	9.7	B2/1000		G2/1000
BVH	(80°-90°)	68.4	1.1			G1/100
UL	(90°-100°)	38.3	0.6		U2/50	
UH	(100°-180°)	41.8	0.7		U2/50	

**BUG Rating: B2-U2-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
2.5°	31.6	31.6	31.6	28.5	24.7	20.0	17.7	15.4	14.6	14.6	14.6
5°	70.2	73.2	70.2	69.4	62.4	76.3	30.8	20.8	15.4	13.9	13.9
7.5°	99.4	101.0	81.7	75.6	60.9	83.3	67.1	37.7	19.2	15.4	14.6
10°	172.7	148.7	126.4	124.9	117.1	87.9	60.1	54.0	30.1	23.1	23.9
12.5°	167.3	172.0	168.8	163.5	150.4	125.6	80.2	103.3	113.3	133.4	125.6
15°	205.1	201.9	178.8	180.3	171.1	182.0	162.6	172.0	161.9	141.1	147.2
17.5°	317.6	306.8	321.5	246.7	180.3	221.3	225.2	201.2	215.1	222.0	246.7
20°	363.0	347.7	366.2	313.7	299.1	251.3	239.8	364.7	339.9	356.9	360.0
22.5°	501.9	493.4	440.2	359.3	382.4	320.7	342.3	378.5	386.3	382.4	394.7
25°	632.9	632.2	625.9	552.7	407.9	454.8	395.5	431.7	557.4	634.4	641.4
27.5°	749.3	743.2	699.2	678.4	571.2	513.4	471.8	598.2	638.3	675.4	683.8
30°	947.5	987.6	892.7	771.7	691.5	591.3	634.4	631.4	768.5	942.9	952.1
32.5°	1112.5	1090.1	991.3	889.7	807.9	730.8	668.4	881.9	919.7	967.5	989.1
35°	1356.0	1364.5	1260.4	992.2	925.1	818.7	874.2	957.5	983.7	1063.1	1069.3
37.5°	1416.9	1484.0	1423.1	1189.5	983.7	895.0	940.5	1047.7	1134.0	1207.3	1160.9
40°	1685.2	1651.2	1521.0	1332.9	1104.7	1002.2	1150.2	1213.4	1226.5	1312.0	1322.9
42.5°	1948.1	1962.7	1801.6	1562.7	1262.0	1164.8	1294.3	1277.4	1402.3	1476.3	1516.3
45°	2204.0	2210.9	2083.8	1781.6	1514.1	1436.2	1373.0	1445.4	1653.6	1671.3	1681.3
47.5°	2377.4	2378.3	2324.2	2020.5	1726.8	1551.1	1531.1	1608.9	1815.4	1847.0	1856.3
50°	2648.0	2641.2	2517.0	2180.1	2008.3	1778.5	1856.3	1827.1	2005.9	2120.0	2144.6
52.5°	2754.4	2719.7	2653.4	2412.1	2261.0	2033.6	1998.2	2051.4	2255.7	2358.9	2440.7
55°	2685.0	2745.2	2732.8	2559.4	2335.8	2258.0	2165.5	2365.2	2434.5	2593.3	2738.2
57.5°	2540.9	2644.2	2692.8	2628.1	2506.2	2329.7	2495.4	2465.3	2731.3	3031.9	3129.1
60°	2442.2	2506.2	2604.8	2683.5	2594.8	2530.1	2691.2	2848.5	2950.3	3243.2	3372.7
62.5°	2264.9	2325.8	2483.8	2598.0	2547.9	2569.4	2908.7	2991.1	3291.0	3535.3	3711.9
65°	2054.5	2111.5	2296.5	2416.0	2535.5	2620.3	3046.7	3206.2	3419.0	3876.9	3901.5
67°	1899.5	1932.7	2050.6	2280.4	2520.9	2685.9	3203.9	3324.2	3515.4	4024.9	3908.5
67.5°	1847.9	1880.3	1976.6	2214.8	2512.4	2695.9	3248.6	3358.9	3529.2	4009.5	3907.0
70°	1422.3	1537.2	1539.5	1766.9	2243.3	2621.8	3328.0	3478.3	3613.3	3898.5	3772.0
72.5°	851.8	851.8	891.2	1114.7	1590.4	2345.1	3328.0	3436.7	3553.1	3591.7	3378.9
75°	412.5	393.1	446.3	535.0	801.0	1581.9	2999.6	3149.9	3164.6	3059.7	2740.6
77.5°	339.9	295.2	280.6	274.5	429.4	592.1	2004.4	2459.2	2460.0	2099.2	1837.0
80°	212.8	215.1	221.3	190.4	245.9	306.1	799.4	1497.9	1361.4	1090.9	918.9
82.5°	150.4	155.7	158.0	141.1	172.0	143.4	266.0	632.2	550.4	380.0	322.2
85°	105.6	102.5	114.9	95.5	103.3	84.8	146.5	272.1	310.0	188.1	178.1
87.5°	63.2	63.2	77.1	64.8	70.9	60.9	88.7	133.4	154.2	106.4	99.4
90°	37.7	34.7	36.2	37.0	40.1	34.7	47.8	63.9	67.1	54.0	49.3
92.5°	28.5	28.5	30.8	29.3	36.2	31.6	41.6	50.1	60.9	46.2	43.2
95°	18.5	20.8	23.1	23.9	27.7	23.9	34.7	40.8	45.5	35.5	34.0
97.5°	17.0	18.5	20.0	20.0	23.1	19.2	28.5	36.2	36.2	27.7	25.5
100°	16.2	17.0	17.7	17.7	19.2	15.4	22.4	31.6	31.6	23.1	21.6
102.5°	14.6	15.4	14.6	13.9	16.2	12.4	18.5	27.7	22.4	17.7	18.5
105°	14.6	14.6	13.1	11.6	13.1	10.0	16.2	20.0	15.4	14.6	15.4
107.5°	13.9	13.9	10.8	10.0	10.8	8.5	13.1	13.9	12.4	13.9	14.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	13.1	12.4	10.0	8.5	8.5	7.7	10.0	10.0	10.0	13.1	14.6
112.5°	11.6	10.8	8.5	7.0	7.0	6.1	7.0	7.7	9.2	12.4	13.9
115°	10.8	10.0	7.7	6.1	5.4	5.4	6.1	6.1	8.5	12.4	13.9
117.5°	10.8	10.0	7.0	6.1	4.6	4.6	5.4	6.1	8.5	12.4	13.9
120°	10.0	10.0	7.0	5.4	4.6	3.9	4.6	5.4	8.5	13.1	13.9
122.5°	10.0	9.2	7.0	5.4	3.9	3.9	3.9	4.6	7.7	12.4	13.1
125°	9.2	9.2	6.1	4.6	3.9	3.1	3.9	4.6	8.5	12.4	13.1
127.5°	9.2	8.5	6.1	4.6	3.1	3.1	3.9	3.9	7.7	11.6	12.4
130°	9.2	8.5	6.1	3.9	3.1	3.1	3.1	3.9	7.7	10.8	11.6
132.5°	7.7	7.7	5.4	3.9	3.1	2.4	3.1	3.1	6.1	9.2	10.0
135°	7.7	7.0	5.4	3.9	3.1	2.4	2.4	3.1	6.1	8.5	8.5
137.5°	7.0	6.1	5.4	3.9	2.4	2.4	1.5	2.4	5.4	7.0	7.7
140°	6.1	6.1	4.6	3.9	2.4	1.5	1.5	2.4	3.9	5.4	6.1
142.5°	6.1	6.1	5.4	3.9	2.4	1.5	1.5	1.5	3.1	4.6	4.6
145°	5.4	5.4	4.6	3.1	1.5	0.8	0.8	1.5	2.4	3.1	3.9
147.5°	5.4	5.4	4.6	3.1	1.5	0.8	0.8	1.5	2.4	3.1	3.1
150°	4.6	4.6	3.9	2.4	0.8	0.0	0.0	0.8	1.5	2.4	2.4
152.5°	3.1	3.1	2.4	1.5	0.0	0.0	0.0	0.8	1.5	1.5	1.5
155°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
2.5°	14.6	14.6	14.6	14.6	14.6	14.6	13.9	13.9	13.9	13.9	13.9
5°	13.1	13.1	13.9	13.9	13.9	13.9	13.9	14.6	15.4	15.4	16.2
7.5°	14.6	14.6	13.9	13.9	14.6	16.2	26.2	55.5	104.9	97.2	96.4
10°	23.1	23.1	20.8	19.2	20.8	75.6	118.8	112.5	94.8	92.5	89.4
12.5°	146.5	136.5	110.3	69.4	101.0	95.5	111.0	130.3	169.6	178.1	172.0
15°	147.2	153.4	165.7	179.6	227.4	101.0	195.8	239.8	255.9	255.9	261.4
17.5°	255.9	276.0	212.0	191.2	226.7	277.5	218.9	243.6	241.3	242.0	235.2
20°	416.2	376.2	414.7	372.4	254.4	310.7	272.9	261.4	352.3	419.4	419.4
22.5°	412.5	437.1	431.7	427.9	447.8	276.0	348.4	378.5	392.4	374.7	401.6
25°	688.4	662.2	625.9	427.1	429.4	383.9	376.2	353.1	383.9	414.0	407.9
27.5°	720.1	726.2	657.6	636.0	450.2	431.7	354.7	410.9	447.8	450.2	446.3
30°	983.0	995.2	776.3	585.8	505.7	393.9	414.7	396.3	414.0	434.8	446.3
32.5°	1039.9	1021.4	857.2	659.9	495.7	417.1	381.6	396.3	463.3	463.3	459.5
35°	1107.8	1093.9	883.4	626.8	540.4	390.1	353.1	394.7	414.0	447.8	450.2
37.5°	1244.2	1236.5	969.8	625.2	481.1	368.5	388.5	398.5	404.7	412.5	405.5
40°	1334.4	1275.1	996.0	652.9	465.6	427.1	404.7	375.4	380.8	361.5	353.1
42.5°	1504.0	1404.6	1021.4	634.4	454.1	471.1	376.2	370.8	357.7	337.7	337.7
45°	1676.7	1549.6	1055.4	596.7	437.8	457.2	387.8	379.3	367.8	364.7	357.7
47.5°	1852.5	1681.3	1050.0	620.6	491.0	427.9	485.7	407.9	350.8	380.8	378.5
50°	2141.5	1895.6	1054.6	573.6	489.5	420.1	486.4	386.3	375.4	398.5	400.9
52.5°	2377.4	2041.4	1118.6	546.6	474.1	486.4	460.2	467.9	442.5	435.6	444.1
55°	2659.6	2227.9	1077.0	514.2	461.8	458.7	542.0	471.1	447.8	470.3	472.6
57.5°	3013.5	2487.7	1086.2	461.8	465.6	441.7	530.4	527.3	513.4	502.7	498.8
60°	3218.5	2571.0	999.8	492.7	451.0	487.2	562.7	546.6	473.3	549.6	562.0
62.5°	3379.6	2700.5	787.9	487.2	501.0	464.8	516.5	533.5	498.8	556.6	563.5
65°	3419.0	2693.5	603.6	500.3	495.7	516.5	611.3	524.3	435.6	444.1	447.8
67°	3365.0	2632.7	489.5	476.4	502.7	497.3	505.7	450.2	402.4	410.9	417.1
67.5°	3334.2	2583.3	464.1	474.9	519.6	496.4	495.7	433.2	393.1	404.0	406.3
70°	3047.4	2314.2	388.5	468.7	515.0	451.0	463.3	381.6	346.9	350.8	352.3
72.5°	2609.5	1857.1	370.8	466.4	505.7	376.2	356.2	312.2	295.2	289.9	282.1
75°	2002.8	1279.7	366.2	420.9	415.5	284.5	285.2	259.8	261.4	249.8	245.1
77.5°	1206.5	717.0	311.5	356.2	311.5	217.4	235.9	230.5	236.7	224.3	216.7
80°	578.2	350.0	245.9	262.1	219.7	170.3	201.2	209.7	211.2	193.5	185.1
82.5°	247.5	181.2	166.5	164.2	156.5	131.9	162.6	171.1	172.7	161.9	129.5
85°	145.7	123.4	114.9	110.3	108.7	81.7	116.4	138.0	138.0	114.1	98.7
87.5°	90.9	90.2	80.9	80.9	84.8	57.8	80.2	94.8	89.4	67.8	54.0
90°	43.2	46.2	48.6	49.3	57.8	32.4	51.7	54.7	51.7	37.0	26.2
92.5°	34.7	39.3	42.4	44.0	52.4	27.7	46.2	49.3	47.1	37.0	26.2
95°	28.5	35.5	42.4	41.6	44.0	21.6	40.8	44.7	43.2	32.4	22.4
97.5°	23.1	28.5	34.7	34.7	40.1	18.5	37.7	42.4	41.6	29.3	21.6
100°	20.8	25.5	30.8	30.1	35.5	14.6	34.0	37.0	36.2	23.9	19.2
102.5°	18.5	20.8	23.9	23.9	26.2	12.4	25.5	28.5	27.0	20.0	19.2
105°	17.0	17.7	17.0	16.2	17.0	10.8	16.2	18.5	16.2	15.4	15.4
107.5°	16.2	16.2	13.9	13.1	12.4	9.2	11.6	12.4	10.8	13.9	15.4



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	16.2	15.4	12.4	11.6	10.0	8.5	9.2	9.2	9.2	13.9	14.6
112.5°	15.4	15.4	11.6	10.0	9.2	7.7	7.7	7.0	8.5	13.9	15.4
115°	15.4	14.6	10.8	9.2	7.7	7.0	6.1	6.1	7.7	13.9	15.4
117.5°	15.4	14.6	10.8	8.5	7.7	6.1	5.4	5.4	7.7	13.9	15.4
120°	15.4	15.4	10.8	7.7	7.0	6.1	5.4	5.4	7.7	13.1	14.6
122.5°	14.6	14.6	10.0	7.7	6.1	5.4	4.6	4.6	7.7	13.1	13.9
125°	13.9	13.9	10.0	7.0	5.4	4.6	4.6	4.6	7.7	12.4	13.9
127.5°	13.1	13.1	9.2	6.1	4.6	4.6	3.9	3.9	7.7	12.4	13.1
130°	12.4	12.4	8.5	5.4	4.6	3.9	3.1	3.9	7.7	11.6	12.4
132.5°	10.8	10.8	7.7	4.6	3.9	3.1	3.1	3.1	7.0	10.8	11.6
135°	9.2	9.2	7.0	4.6	3.9	3.1	2.4	3.1	6.1	9.2	10.0
137.5°	8.5	8.5	6.1	3.9	3.1	2.4	2.4	3.1	6.1	8.5	9.2
140°	6.1	6.1	4.6	3.1	2.4	2.4	1.5	2.4	5.4	7.0	7.7
142.5°	4.6	4.6	3.9	3.1	2.4	1.5	1.5	2.4	4.6	6.1	6.1
145°	3.9	3.9	3.1	2.4	2.4	1.5	0.8	1.5	3.9	5.4	5.4
147.5°	3.1	3.1	3.1	2.4	1.5	0.8	0.8	0.8	2.4	3.9	3.9
150°	2.4	2.4	2.4	2.4	1.5	0.0	0.0	0.0	1.5	2.4	2.4
152.5°	1.5	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8
155°	0.8	1.5	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)