

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: P240592

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T2U-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7537.1 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 83
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

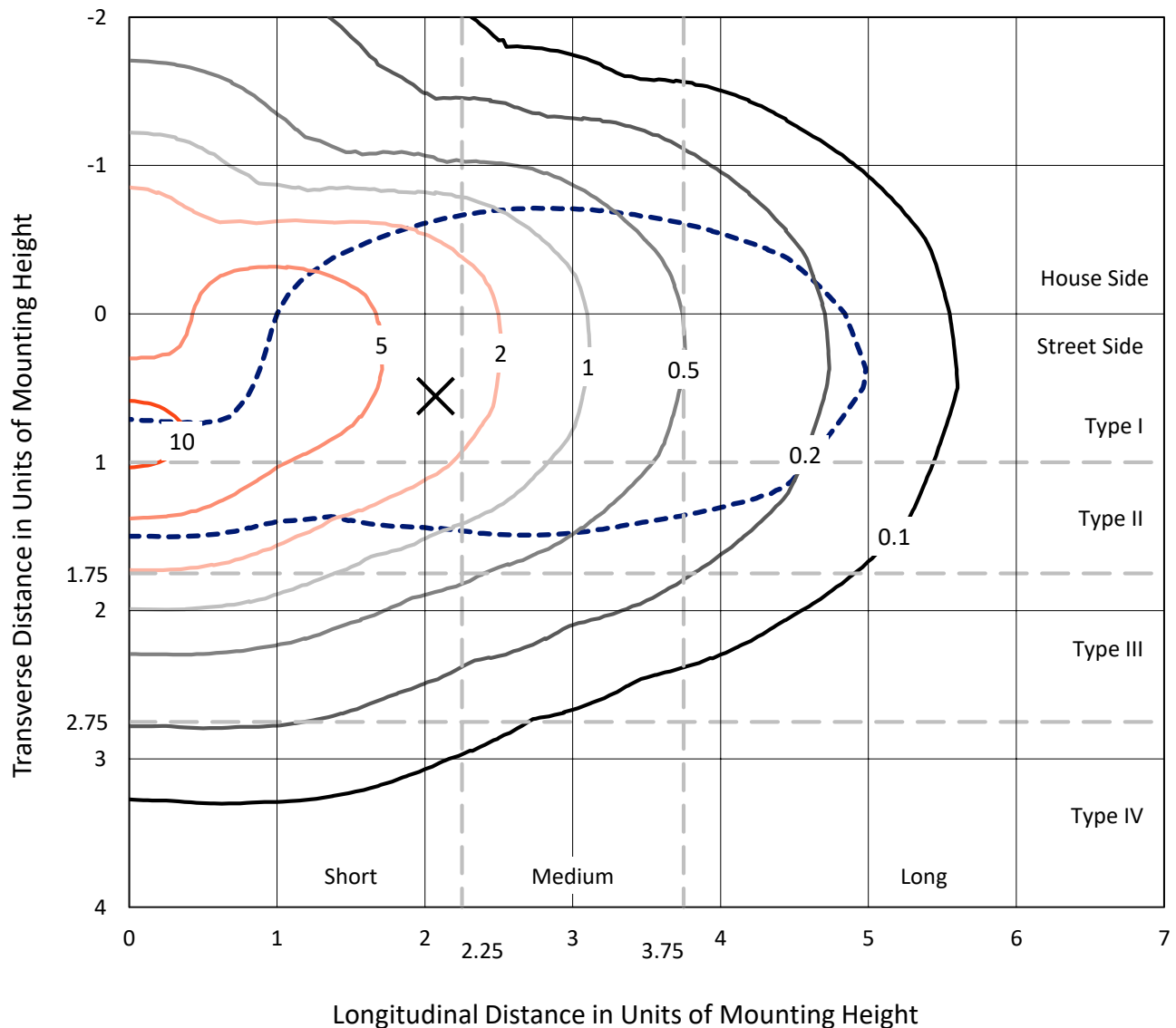


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

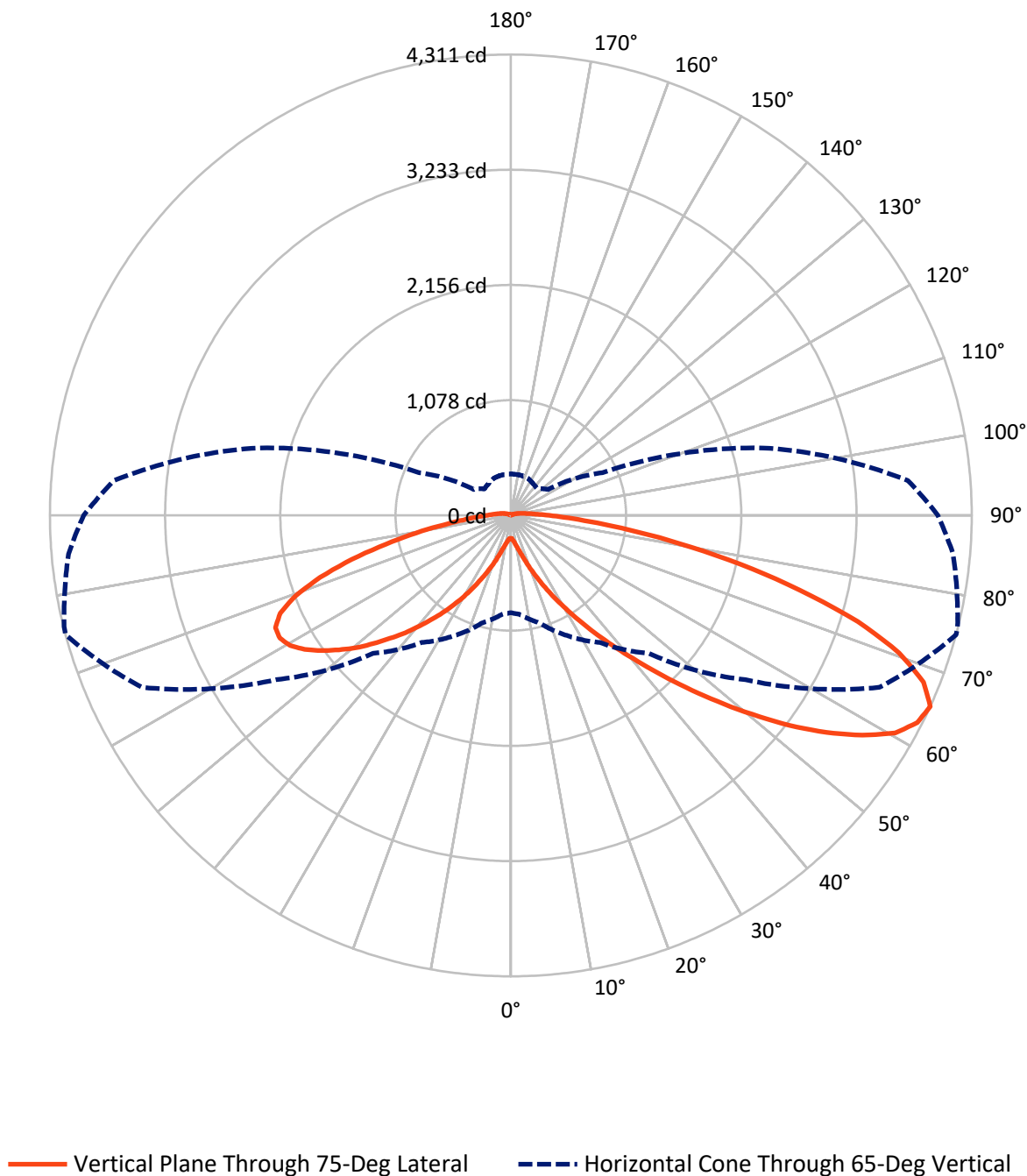


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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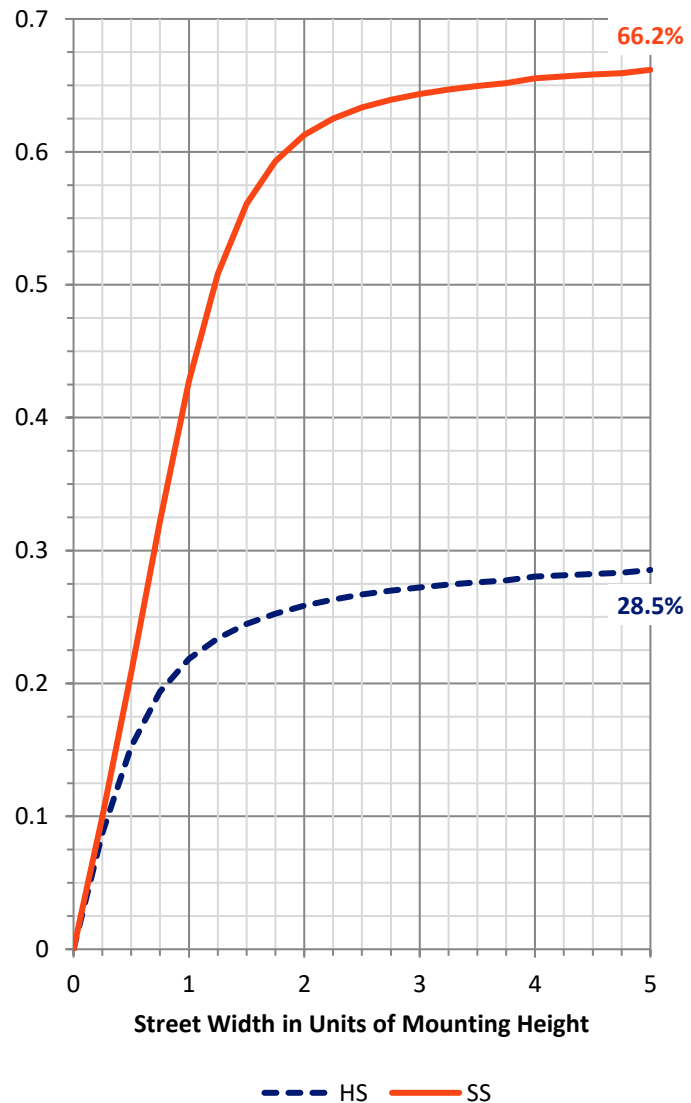
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.4	133.4	2358.9
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	5058.2	120.1	5178.2
	% Fixture	67.1	1.6	68.7
Total	Lumens	7283.6	253.5	7537.1
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	0.3
10°-20°	109.0	1.4
20°-30°	317.8	4.2
30°-40°	712.9	9.5
40°-50°	1268.7	16.8
50°-60°	1724.1	22.9
60°-70°	1674.3	22.2
70°-80°	1055.3	14.0
80°-90°	398.0	5.3
90°-100°	135.5	1.8
100°-110°	61.3	0.8
110°-120°	29.6	0.4
120°-130°	15.5	0.2
130°-140°	8.1	0.1
140°-150°	3.0	0.0
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7283.6	96.6
0°-180°	7537.1	100.0

Coefficient of Utilization



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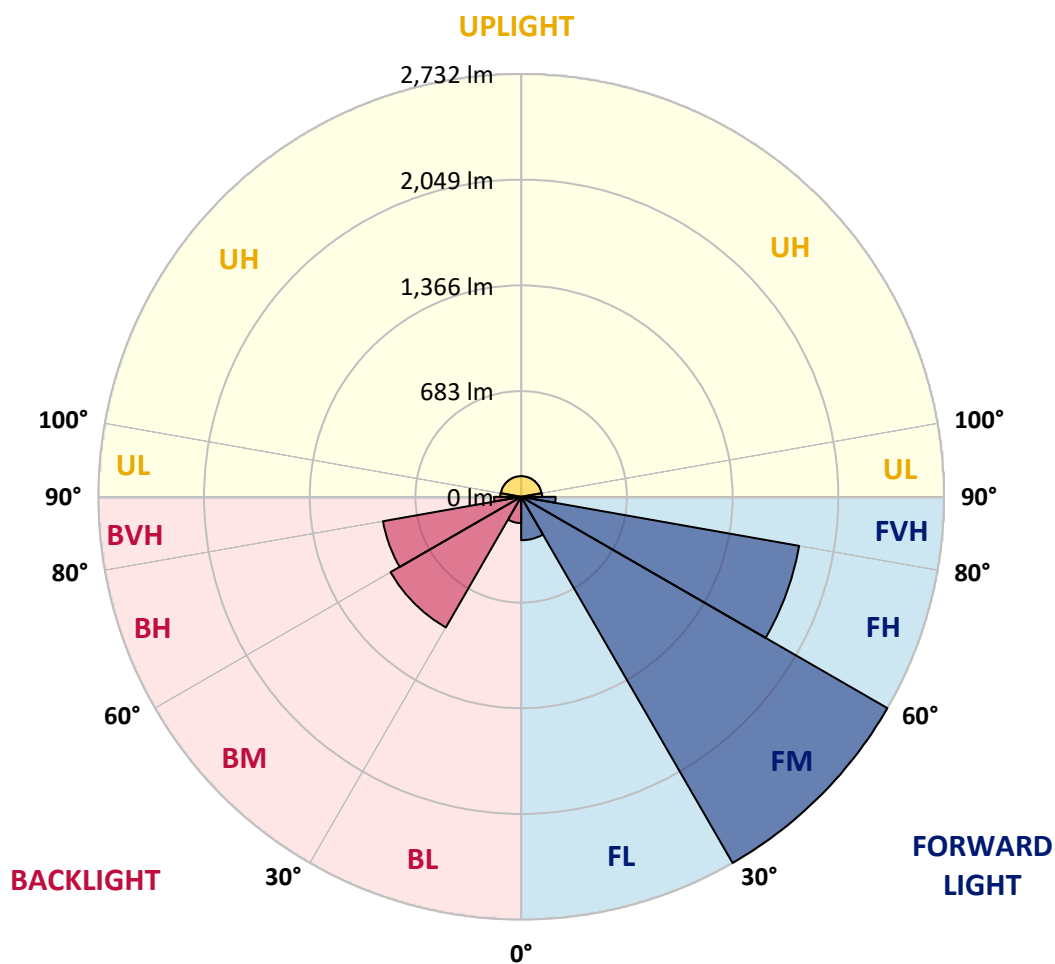
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.7	3.7			
FM	(30°-60°)	2731.5	36.2			
FH	(60°-80°)	1823.2	24.2			G2/5000
FVH	(80°-90°)	222.7	3.0			G2/225
BL	(0°-30°)	169.7	2.3	B1/500		
BM	(30°-60°)	974.1	12.9	B1/1000		
BH	(60°-80°)	906.3	12.0	B2/1000		G2/1000
BVH	(80°-90°)	175.2	2.3			G2/225
UL	(90°-100°)	135.5	1.8		U3/500	
UH	(100°-180°)	133.4	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3
2.5°	233.1	232.2	232.2	232.2	230.4	228.4	225.6	223.7	220.9	219.9	219.0
5°	257.7	257.7	256.8	255.8	253.9	249.2	244.5	240.7	236.0	235.1	231.3
7.5°	296.3	295.4	294.5	289.8	286.9	280.4	272.8	267.1	258.6	258.6	253.0
10°	347.4	345.5	342.7	338.0	327.5	319.1	310.6	300.1	291.6	290.7	282.2
12.5°	407.7	407.7	404.0	394.6	381.4	369.1	355.0	343.6	332.3	331.3	323.8
15°	490.8	491.8	479.6	465.3	446.5	427.6	409.7	399.3	386.1	388.9	378.5
17.5°	593.7	591.9	581.4	553.1	522.0	497.5	476.7	465.3	455.0	455.9	448.4
20°	723.0	721.2	703.3	665.5	614.5	577.7	553.1	545.6	539.9	537.2	529.6
22.5°	882.6	873.2	837.3	788.2	726.8	674.0	647.5	636.2	634.3	635.3	627.7
25°	1061.0	1057.2	1011.9	933.5	854.3	786.3	745.7	743.8	746.7	741.9	741.9
27.5°	1278.1	1267.7	1214.9	1106.3	993.1	911.9	864.7	859.9	873.2	869.4	863.7
30°	1532.1	1516.0	1444.2	1305.5	1160.1	1051.6	996.8	996.8	1011.0	1011.0	1009.0
32.5°	1797.2	1794.5	1683.1	1520.7	1348.9	1205.4	1158.2	1150.7	1164.8	1172.4	1162.9
35°	2095.5	2073.8	1945.4	1761.4	1539.5	1381.9	1323.4	1333.8	1345.1	1346.1	1331.0
37.5°	2399.5	2377.7	2230.5	2003.0	1744.4	1574.5	1514.1	1521.6	1539.5	1539.5	1519.8
40°	2660.1	2636.5	2492.0	2255.1	1970.9	1788.7	1724.6	1746.3	1758.6	1763.3	1731.2
42.5°	2865.8	2848.8	2719.5	2477.9	2189.0	2004.0	1962.4	1998.3	2010.6	2020.0	1973.8
45°	2981.0	2966.9	2877.2	2659.1	2372.1	2219.2	2226.8	2270.2	2293.8	2283.4	2233.4
47.5°	2998.9	2987.6	2937.6	2771.4	2540.2	2425.9	2497.6	2562.8	2598.7	2599.6	2514.7
50°	2887.5	2892.3	2893.2	2797.9	2634.5	2594.0	2750.6	2897.0	2924.3	2909.3	2809.2
52.5°	2671.3	2668.6	2723.3	2723.3	2651.6	2697.8	2963.1	3224.5	3262.3	3258.5	3119.7
55°	2350.4	2353.3	2455.2	2535.5	2561.9	2719.5	3136.8	3520.9	3583.2	3577.6	3424.6
57.5°	1951.2	1978.5	2104.0	2258.0	2377.7	2627.0	3217.0	3775.8	3877.7	3878.6	3693.7
60°	1563.2	1591.5	1737.8	1935.1	2108.8	2448.6	3163.2	3908.0	4131.7	4121.3	3925.0
62.5°	1194.1	1223.3	1364.0	1588.6	1790.7	2163.5	2980.1	3935.3	4266.6	4260.0	4091.1
65°	909.0	927.9	1041.2	1238.5	1450.9	1822.8	2678.9	3805.1	4311.0	4306.3	4152.5
67.5°	679.6	688.1	795.8	955.2	1139.4	1474.5	2262.7	3491.6	4163.7	4168.4	4082.6
70°	522.9	528.6	606.9	745.7	882.6	1152.6	1833.1	3039.5	3854.2	3866.4	3863.6
72.5°	415.3	423.8	486.1	587.2	686.3	873.2	1417.8	2459.0	3395.4	3420.8	3497.4
75°	342.7	352.1	399.3	473.8	545.6	664.5	1030.8	1886.9	2791.2	2845.0	3014.9
77.5°	283.2	292.7	332.3	390.8	435.2	507.8	755.1	1395.1	2192.8	2215.4	2440.1
80°	232.2	240.7	276.6	321.9	353.9	396.5	550.3	979.8	1599.1	1627.3	1846.3
82.5°	185.1	192.5	225.6	262.4	288.9	318.1	407.7	671.2	1113.9	1134.7	1279.0
85°	142.5	150.1	178.4	210.5	233.1	256.8	312.4	467.3	737.2	761.8	867.5
87.5°	106.7	113.2	136.9	164.3	187.8	207.7	240.7	322.8	491.8	512.6	562.6
90°	78.4	83.1	103.8	124.6	146.3	168.1	188.8	236.0	327.5	336.0	370.9
92.5°	58.5	61.4	78.4	96.3	117.0	136.0	149.1	173.7	230.4	231.3	255.8
95°	43.4	46.2	60.5	75.5	93.5	111.4	122.8	135.0	169.0	171.8	186.9
97.5°	34.9	35.9	48.2	61.4	76.4	91.6	101.0	107.6	129.3	132.2	142.5
100°	29.3	30.2	40.6	52.0	65.2	78.4	84.9	87.8	102.0	104.8	112.3
102.5°	25.5	25.5	34.9	45.3	56.7	66.1	70.8	72.7	82.1	82.1	87.8
105°	22.6	22.6	30.2	39.7	49.1	57.6	60.5	60.5	64.1	65.2	67.9
107.5°	20.8	20.8	27.4	35.9	43.4	50.0	52.0	50.0	50.9	50.9	52.9
110°	18.9	18.9	23.6	32.1	38.7	43.4	44.4	42.5	39.7	39.7	41.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	17.0	17.9	21.7	28.3	34.0	38.7	38.7	35.9	31.2	31.2	33.0
115°	16.1	16.1	19.8	25.5	30.2	34.0	34.0	30.2	25.5	24.6	26.4
117.5°	15.1	15.1	17.0	22.6	27.4	30.2	30.2	25.5	20.8	20.8	22.6
120°	14.1	14.1	16.1	20.8	24.6	27.4	26.4	22.6	17.9	17.9	19.8
122.5°	14.1	14.1	15.1	18.9	21.7	23.6	22.6	18.9	15.1	15.1	17.0
125°	13.2	13.2	14.1	17.0	19.8	21.7	19.8	16.1	14.1	14.1	15.1
127.5°	13.2	13.2	13.2	15.1	17.9	18.9	17.9	14.1	12.3	12.3	14.1
130°	12.3	12.3	13.2	14.1	16.1	17.0	15.1	12.3	11.4	11.4	13.2
132.5°	12.3	12.3	12.3	12.3	13.2	14.1	12.3	9.4	10.4	10.4	11.4
135°	11.4	11.4	11.4	11.4	12.3	12.3	10.4	8.5	9.4	9.4	10.4
137.5°	10.4	10.4	10.4	10.4	10.4	9.4	8.5	7.6	8.5	8.5	9.4
140°	9.4	9.4	9.4	8.5	7.6	7.6	6.6	5.6	6.6	6.6	7.6
142.5°	8.5	8.5	8.5	7.6	6.6	5.6	4.7	4.7	5.6	5.6	6.6
145°	7.6	7.6	6.6	5.6	4.7	3.8	2.9	3.8	4.7	4.7	5.6
147.5°	5.6	5.6	5.6	4.7	2.9	1.8	1.8	2.9	3.8	3.8	3.8
150°	4.7	4.7	4.7	3.8	1.8	0.9	0.9	1.8	1.8	1.8	2.9
152.5°	2.9	2.9	2.9	2.9	0.9	0.0	0.0	0.9	1.8	1.8	1.8
155°	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9
160°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.0
162.5°	0.0	0.0	0.0	0.9	0.9	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°	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3	214.3
2.5°	218.1	217.1	215.2	213.3	211.4	209.6	207.7	206.7	204.8	204.8	204.8
5°	229.3	226.6	222.8	219.0	215.2	212.4	209.6	206.7	204.8	203.9	203.0
7.5°	250.1	246.3	239.8	234.1	227.5	221.9	217.1	213.3	211.4	210.5	210.5
10°	278.4	273.7	265.3	253.9	246.3	237.8	230.4	225.6	221.9	220.9	219.9
12.5°	316.2	311.5	297.4	285.1	270.9	257.7	249.2	243.6	240.7	239.8	239.8
15°	370.0	364.4	341.7	320.9	298.3	282.2	270.9	266.2	267.1	270.0	267.1
17.5°	437.0	428.5	402.1	368.2	334.2	309.6	299.2	300.1	303.9	306.8	305.9
20°	520.1	507.8	471.1	422.9	376.7	343.6	333.2	334.2	338.9	347.4	346.5
22.5°	617.4	598.4	551.3	486.1	421.0	383.2	364.4	367.2	377.6	386.1	386.1
25°	724.0	707.1	640.0	553.1	472.0	416.2	392.7	396.5	411.5	421.0	423.8
27.5°	850.5	824.1	741.0	627.7	520.1	445.5	416.2	418.2	437.0	449.3	451.2
30°	985.5	954.3	850.5	702.3	562.6	468.2	430.5	434.2	455.0	469.1	472.0
32.5°	1137.4	1100.6	964.7	780.6	602.2	481.4	438.0	441.8	463.5	479.6	481.4
35°	1306.4	1252.6	1087.4	852.4	628.7	486.1	438.0	442.7	463.5	479.6	482.3
37.5°	1478.3	1417.8	1207.3	921.3	644.7	482.3	431.4	437.0	455.9	471.1	473.8
40°	1678.4	1600.9	1338.5	977.9	650.4	472.0	420.0	426.7	442.7	455.0	456.8
42.5°	1906.8	1797.2	1476.3	1026.0	641.9	458.8	408.8	416.2	429.5	438.0	438.9
45°	2143.7	2011.5	1610.3	1063.9	629.6	442.7	397.4	405.9	417.3	419.1	421.0
47.5°	2399.5	2252.2	1756.7	1086.5	607.9	425.8	388.9	397.4	405.0	404.0	405.0
50°	2682.7	2501.4	1905.9	1095.9	583.4	411.5	382.3	391.7	397.4	392.7	392.7
52.5°	2959.3	2774.2	2041.7	1099.7	556.0	398.3	377.6	388.9	391.7	387.0	387.0
55°	3253.8	3026.3	2177.7	1089.3	528.6	388.0	375.7	388.0	389.8	383.2	383.2
57.5°	3525.6	3295.3	2300.4	1073.3	503.1	378.5	372.9	387.0	388.9	383.2	384.2
60°	3775.8	3523.8	2395.8	1046.8	475.8	369.1	370.9	387.0	388.9	385.1	387.0
62.5°	3928.7	3674.7	2445.8	1005.3	449.3	360.6	368.2	385.1	388.9	386.1	388.0
65°	3994.7	3728.6	2439.1	945.8	423.8	350.2	362.4	381.4	386.1	386.1	388.0
67.5°	3944.7	3679.5	2342.9	869.4	400.3	339.8	355.0	373.8	380.4	382.3	385.1
70°	3758.8	3476.5	2149.3	773.0	374.7	328.5	345.5	363.5	370.9	374.7	376.7
72.5°	3387.8	3135.8	1874.7	676.8	348.3	314.4	331.3	348.3	356.8	361.5	361.5
75°	2916.7	2664.8	1543.3	574.9	323.8	298.3	314.4	328.5	338.0	342.7	340.7
77.5°	2346.6	2111.6	1198.8	471.1	297.4	279.4	294.5	306.8	314.4	318.1	313.4
80°	1738.7	1588.6	900.5	388.9	270.9	257.7	270.0	280.4	288.9	287.9	284.2
82.5°	1232.8	1091.2	630.5	322.8	244.5	234.1	243.6	250.1	255.8	253.9	247.3
85°	821.2	728.8	445.5	263.4	217.1	208.6	214.3	218.1	220.9	216.1	211.4
87.5°	534.3	475.8	320.9	217.1	187.8	182.2	185.1	186.0	186.9	182.2	176.6
90°	349.2	324.7	238.9	179.3	161.4	157.6	157.6	153.9	154.8	149.1	143.5
92.5°	246.3	231.3	186.0	147.3	137.8	135.0	134.0	129.3	128.4	122.8	119.0
95°	184.0	177.5	150.1	124.6	117.0	116.1	114.3	109.5	105.7	100.0	98.2
97.5°	143.5	140.7	123.7	106.7	101.0	99.1	98.2	92.5	89.7	84.0	82.1
100°	114.3	114.3	103.8	91.6	86.8	85.9	84.9	79.3	76.4	70.8	69.9
102.5°	91.6	92.5	86.8	79.3	75.5	73.7	71.7	67.9	63.2	59.4	59.4
105°	71.7	73.7	71.7	67.0	65.2	63.2	61.4	57.6	52.9	49.1	49.1
107.5°	56.7	58.5	58.5	57.6	54.7	53.8	52.9	48.2	44.4	40.6	40.6
110°	43.4	46.2	48.2	48.2	48.2	46.2	44.4	41.5	36.8	34.0	34.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	34.9	36.8	39.7	40.6	40.6	40.6	38.7	34.0	30.2	28.3	29.3
115°	28.3	30.2	33.0	34.9	34.9	34.9	32.1	29.3	25.5	24.6	24.6
117.5°	23.6	25.5	27.4	30.2	30.2	30.2	28.3	24.6	20.8	20.8	20.8
120°	20.8	21.7	24.6	25.5	26.4	26.4	24.6	20.8	17.9	17.9	18.9
122.5°	17.9	18.9	20.8	22.6	23.6	22.6	20.8	17.0	15.1	16.1	16.1
125°	16.1	17.0	17.9	19.8	20.8	19.8	17.9	14.1	13.2	14.1	14.1
127.5°	15.1	15.1	16.1	17.0	17.9	17.0	15.1	12.3	11.4	13.2	13.2
130°	13.2	14.1	14.1	15.1	15.1	15.1	13.2	10.4	10.4	11.4	11.4
132.5°	12.3	12.3	12.3	13.2	13.2	12.3	10.4	8.5	9.4	10.4	10.4
135°	10.4	11.4	11.4	11.4	11.4	10.4	8.5	7.6	8.5	9.4	9.4
137.5°	9.4	9.4	9.4	9.4	9.4	8.5	7.6	6.6	7.6	7.6	7.6
140°	7.6	8.5	8.5	7.6	7.6	6.6	5.6	4.7	5.6	6.6	6.6
142.5°	6.6	6.6	6.6	6.6	5.6	4.7	3.8	3.8	4.7	4.7	4.7
145°	5.6	5.6	5.6	4.7	3.8	3.8	2.9	2.9	3.8	3.8	4.7
147.5°	3.8	3.8	3.8	3.8	2.9	2.9	1.8	1.8	2.9	2.9	2.9
150°	2.9	2.9	2.9	2.9	1.8	1.8	1.8	0.9	1.8	1.8	1.8
152.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	1.8	1.8	0.9	0.9	0.9	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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)