

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: P240593

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240593
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-AF24-90-D-U-T2U-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8150.9 lumens
Efficiency: N/A
Efficacy: 86.7 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 - G3

Input Watts (W): 94
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

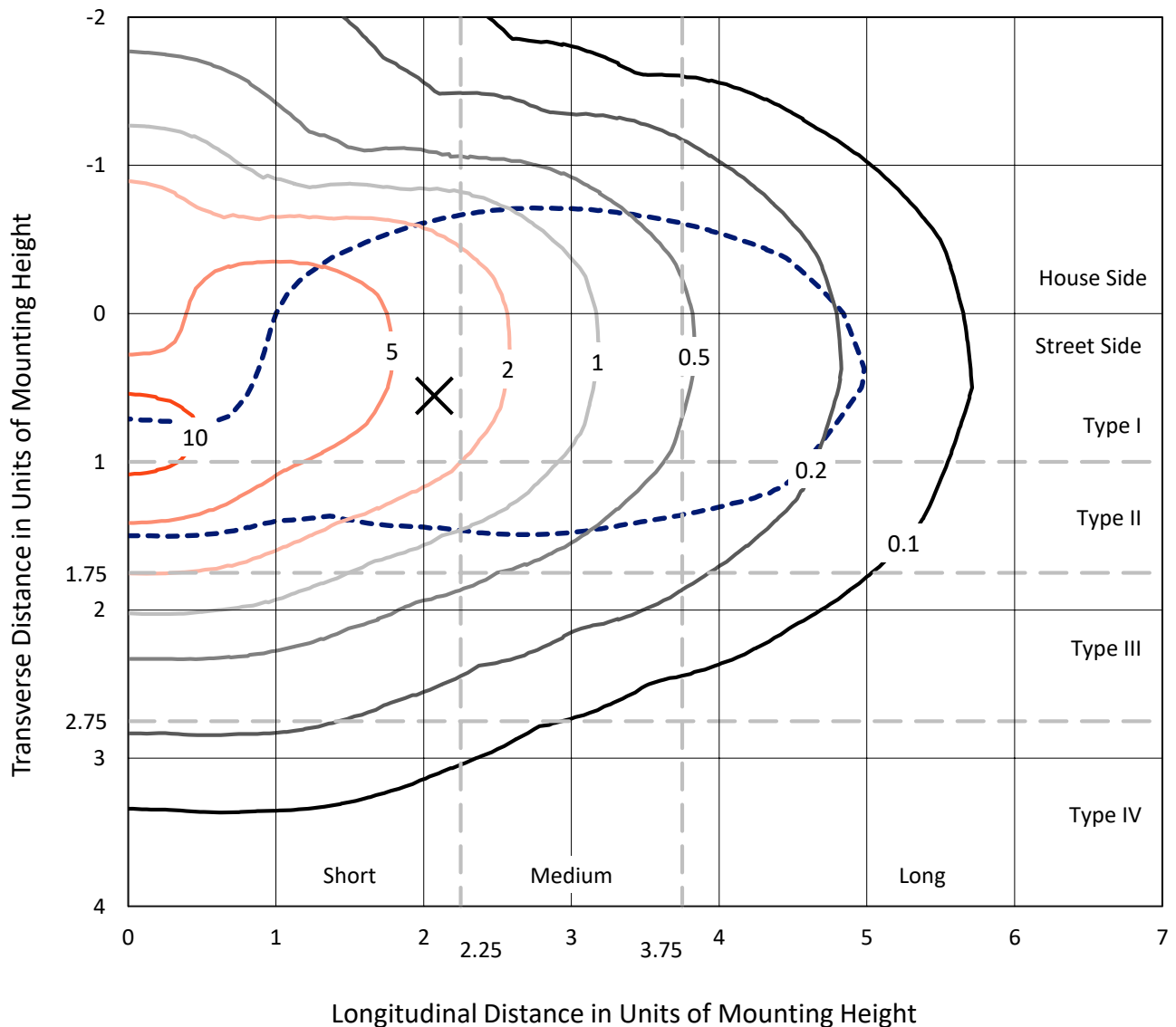


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Iso-Footcandle Lines of Horizontal Illumination

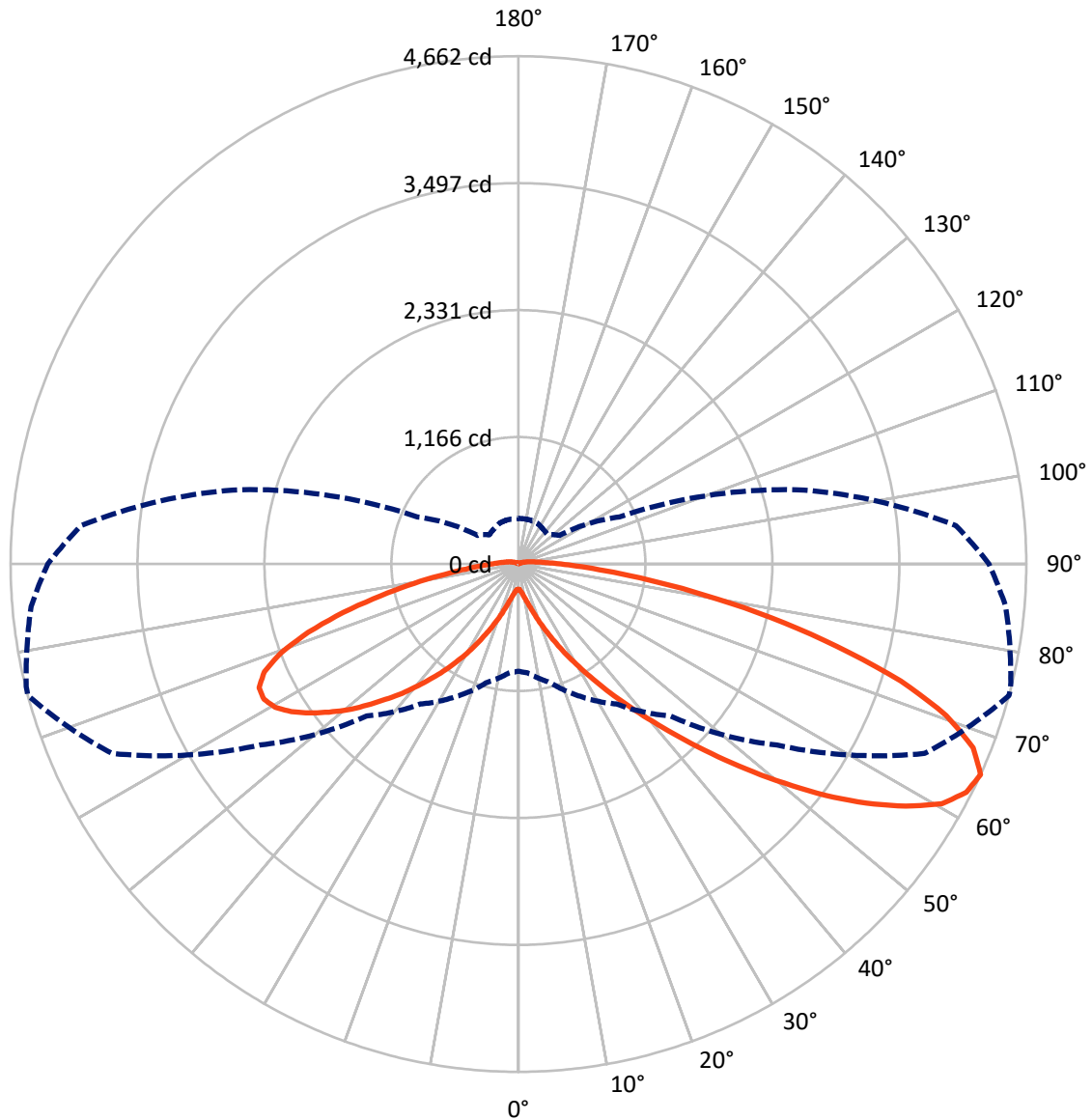
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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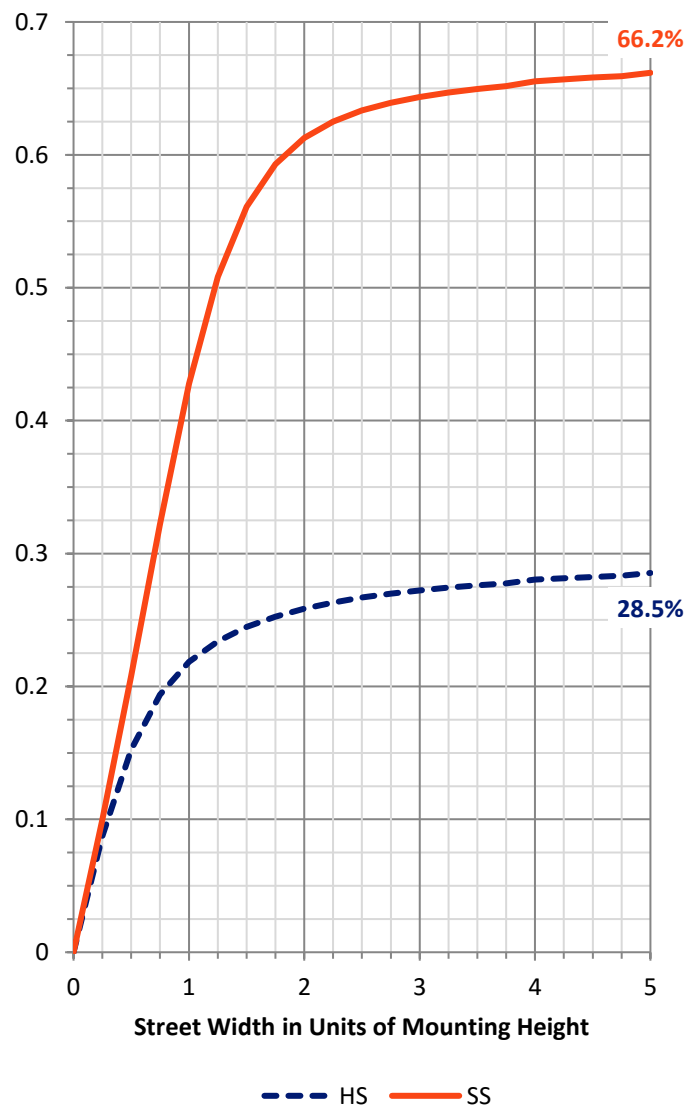
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2406.6	144.3	2551.0
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	5470.0	129.9	5599.9
	% Fixture	67.1	1.6	68.7
Total	Lumens	7876.7	274.2	8150.9
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	0.3
10°-20°	117.9	1.4
20°-30°	343.7	4.2
30°-40°	771.0	9.5
40°-50°	1372.0	16.8
50°-60°	1864.5	22.9
60°-70°	1810.6	22.2
70°-80°	1141.2	14.0
80°-90°	430.4	5.3
90°-100°	146.5	1.8
100°-110°	66.3	0.8
110°-120°	31.9	0.4
120°-130°	16.8	0.2
130°-140°	8.7	0.1
140°-150°	3.2	0.0
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7876.7	96.6
0°-180°	8150.9	100.0

Coefficient of Utilization



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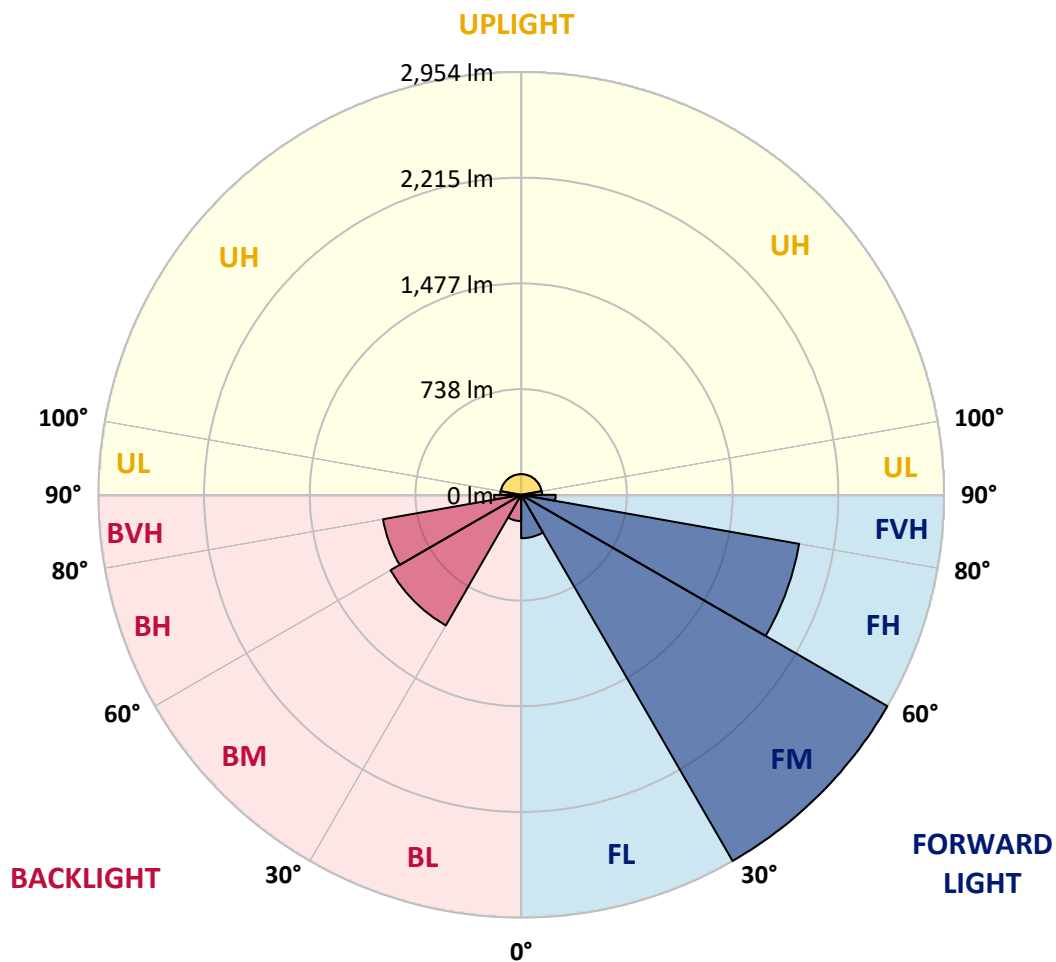
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.5	3.7			
FM (30°-60°)	2954.0	36.2			
FH (60°-80°)	1971.7	24.2			G2/5000
FVH (80°-90°)	240.9	3.0			G3/500
BL (0°-30°)	183.6	2.3	B1/500		
BM (30°-60°)	1053.5	12.9	B2/2500		
BH (60°-80°)	980.1	12.0	B2/1000		G2/1000
BVH (80°-90°)	189.5	2.3			G2/225
UL (90°-100°)	146.5	1.8		U3/500	
UH (100°-180°)	144.3	1.8		U3/500	

BUG Rating: B2-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7
2.5°	252.2	251.1	251.1	251.1	249.1	247.0	244.0	241.9	238.9	237.8	236.8
5°	278.7	278.7	277.6	276.6	274.6	269.4	264.4	260.3	255.2	254.2	250.1
7.5°	320.5	319.5	318.4	313.4	310.4	303.2	295.0	288.9	279.7	279.7	273.5
10°	375.6	373.6	370.5	365.5	354.2	345.0	335.8	324.6	315.5	314.5	305.2
12.5°	441.0	441.0	436.9	426.7	412.5	399.2	383.8	371.5	359.4	358.3	350.2
15°	530.8	531.8	518.5	503.3	482.8	462.5	443.0	431.8	417.5	420.5	409.4
17.5°	642.1	640.1	628.8	598.2	564.5	538.0	515.5	503.3	492.0	493.1	484.9
20°	781.9	779.9	760.5	719.6	664.5	624.7	598.2	590.0	583.9	580.8	572.6
22.5°	954.4	944.3	905.4	852.4	786.0	728.9	700.3	688.0	686.0	687.0	678.8
25°	1147.4	1143.4	1094.4	1009.6	923.8	850.4	806.4	804.4	807.4	802.4	802.4
27.5°	1382.2	1371.0	1313.8	1196.4	1073.9	986.1	935.1	930.0	944.3	940.2	934.1
30°	1656.8	1639.4	1561.8	1411.8	1254.5	1137.2	1078.0	1078.0	1093.3	1093.3	1091.3
32.5°	1943.6	1940.5	1820.1	1644.5	1458.7	1303.5	1252.5	1244.4	1259.7	1267.8	1257.6
35°	2266.2	2242.7	2103.9	1904.8	1665.0	1494.4	1431.2	1442.4	1454.6	1455.7	1439.4
37.5°	2594.9	2571.4	2412.2	2166.2	1886.4	1702.7	1637.3	1645.5	1665.0	1665.0	1643.5
40°	2876.6	2851.2	2695.0	2438.7	2131.4	1934.4	1865.0	1888.5	1901.8	1906.9	1872.2
42.5°	3099.2	3080.8	2941.0	2679.6	2367.3	2167.2	2122.3	2161.1	2174.3	2184.5	2134.5
45°	3223.7	3208.4	3111.4	2875.6	2565.3	2399.9	2408.1	2455.1	2480.6	2469.3	2415.3
47.5°	3243.2	3230.9	3176.8	2997.1	2747.0	2623.5	2701.1	2771.5	2810.3	2811.3	2719.4
50°	3122.7	3127.8	3128.8	3025.7	2849.1	2805.2	2974.6	3132.9	3162.5	3146.2	3038.0
52.5°	2888.9	2885.8	2945.1	2945.1	2867.4	2917.5	3204.3	3487.1	3528.0	3523.9	3373.8
55°	2541.8	2544.9	2655.2	2741.9	2770.5	2941.0	3392.2	3807.6	3875.0	3868.9	3703.5
57.5°	2110.0	2139.6	2275.3	2441.8	2571.4	2840.9	3479.0	4083.2	4193.5	4194.5	3994.4
60°	1690.4	1721.1	1879.4	2092.7	2280.5	2648.0	3420.7	4226.2	4468.1	4456.9	4244.5
62.5°	1291.4	1323.0	1475.1	1718.0	1936.4	2339.7	3222.7	4255.8	4614.1	4607.0	4424.2
65°	983.1	1003.4	1126.0	1339.3	1569.0	1971.2	2897.1	4114.9	4662.1	4657.0	4490.5
67.5°	735.0	744.2	860.5	1033.1	1232.1	1594.5	2446.9	3776.0	4502.8	4507.9	4415.1
70°	565.5	571.6	656.4	806.4	954.4	1246.4	1982.4	3287.0	4168.0	4181.2	4178.1
72.5°	449.2	458.4	525.7	634.9	742.2	944.3	1533.3	2659.3	3671.9	3699.4	3782.2
75°	370.5	380.7	431.8	512.5	590.0	718.6	1114.7	2040.6	3018.5	3076.7	3260.5
77.5°	306.3	316.5	359.4	422.6	470.6	549.2	816.6	1508.8	2371.3	2395.9	2638.8
80°	251.1	260.3	299.1	348.1	382.8	428.7	595.2	1059.6	1729.3	1759.9	1996.7
82.5°	200.1	208.3	244.0	283.8	312.4	344.0	441.0	725.8	1204.5	1227.0	1383.2
85°	154.2	162.3	192.9	227.6	252.2	277.6	337.9	505.3	797.3	823.8	938.1
87.5°	115.4	122.4	148.0	177.6	203.2	224.5	260.3	349.1	531.8	554.3	608.5
90°	84.7	89.8	112.3	134.7	158.3	181.7	204.2	255.2	354.2	363.5	401.2
92.5°	63.3	66.4	84.7	104.1	126.5	147.0	161.3	187.8	249.1	250.1	276.6
95°	47.0	50.0	65.4	81.6	101.1	120.5	132.7	146.0	182.7	185.8	202.1
97.5°	37.7	38.8	52.1	66.4	82.7	99.0	109.3	116.4	139.8	142.9	154.2
100°	31.6	32.6	43.9	56.2	70.5	84.7	91.9	94.9	110.3	113.3	121.5
102.5°	27.5	27.5	37.7	49.0	61.3	71.5	76.5	78.6	88.8	88.8	94.9
105°	24.4	24.4	32.6	42.9	53.1	62.3	65.4	65.4	69.5	70.5	73.4
107.5°	22.5	22.5	29.6	38.8	47.0	54.1	56.2	54.1	55.1	55.1	57.2
110°	20.5	20.5	25.5	34.7	41.8	47.0	48.0	45.9	42.9	42.9	44.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	18.4	19.4	23.5	30.6	36.7	41.8	41.8	38.8	33.7	33.7	35.7
115°	17.4	17.4	21.5	27.5	32.6	36.7	36.7	32.6	27.5	26.5	28.5
117.5°	16.4	16.4	18.4	24.4	29.6	32.6	32.6	27.5	22.5	22.5	24.4
120°	15.3	15.3	17.4	22.5	26.5	29.6	28.5	24.4	19.4	19.4	21.5
122.5°	15.3	15.3	16.4	20.5	23.5	25.5	24.4	20.5	16.4	16.4	18.4
125°	14.3	14.3	15.3	18.4	21.5	23.5	21.5	17.4	15.3	15.3	16.4
127.5°	14.3	14.3	14.3	16.4	19.4	20.5	19.4	15.3	13.3	13.3	15.3
130°	13.3	13.3	14.3	15.3	17.4	18.4	16.4	13.3	12.3	12.3	14.3
132.5°	13.3	13.3	13.3	13.3	14.3	15.3	13.3	10.2	11.3	11.3	12.3
135°	12.3	12.3	12.3	12.3	13.3	13.3	11.3	9.2	10.2	10.2	11.3
137.5°	11.3	11.3	11.3	11.3	11.3	10.2	9.2	8.2	9.2	9.2	10.2
140°	10.2	10.2	10.2	9.2	8.2	8.2	7.2	6.1	7.2	7.2	8.2
142.5°	9.2	9.2	9.2	8.2	7.2	6.1	5.1	5.1	6.1	6.1	7.2
145°	8.2	8.2	7.2	6.1	5.1	4.1	3.1	4.1	5.1	5.1	6.1
147.5°	6.1	6.1	6.1	5.1	3.1	2.0	2.0	3.1	4.1	4.1	4.1
150°	5.1	5.1	5.1	4.1	2.0	1.0	1.0	2.0	2.0	2.0	3.1
152.5°	3.1	3.1	3.1	3.1	1.0	0.0	0.0	1.0	2.0	2.0	2.0
155°	2.0	2.0	2.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0
160°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
162.5°	0.0	0.0	0.0	1.0	1.0	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°	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7
2.5°	235.8	234.8	232.7	230.7	228.6	226.6	224.5	223.5	221.5	221.5	221.5
5°	248.1	245.0	240.9	236.8	232.7	229.7	226.6	223.5	221.5	220.4	219.5
7.5°	270.5	266.5	259.3	253.2	246.0	239.9	234.8	230.7	228.6	227.6	227.6
10°	301.2	296.0	286.8	274.6	266.5	257.3	249.1	244.0	239.9	238.9	237.8
12.5°	342.0	336.9	321.5	308.3	293.0	278.7	269.4	263.4	260.3	259.3	259.3
15°	400.2	394.0	369.5	347.1	322.5	305.2	293.0	287.9	288.9	292.0	288.9
17.5°	472.6	463.5	434.9	398.1	361.4	334.8	323.6	324.6	328.7	331.7	330.7
20°	562.4	549.2	509.4	457.4	407.3	371.5	360.4	361.4	366.4	375.6	374.6
22.5°	667.6	647.2	596.2	525.7	455.3	414.5	394.0	397.1	408.4	417.5	417.5
25°	783.0	764.6	692.1	598.2	510.5	450.2	424.6	428.7	445.1	455.3	458.4
27.5°	919.7	891.2	801.4	678.8	562.4	481.8	450.2	452.2	472.6	485.9	487.9
30°	1065.7	1032.1	919.7	759.4	608.5	506.4	465.4	469.5	492.0	507.4	510.5
32.5°	1230.1	1190.3	1043.3	844.2	651.3	520.6	473.6	477.7	501.2	518.5	520.6
35°	1412.8	1354.6	1176.0	921.8	679.9	525.7	473.6	478.7	501.2	518.5	521.6
37.5°	1598.6	1533.3	1305.6	996.4	697.2	521.6	466.5	472.6	493.1	509.4	512.5
40°	1815.0	1731.3	1447.5	1057.5	703.4	510.5	454.3	461.5	478.7	492.0	494.1
42.5°	2062.1	1943.6	1596.5	1109.6	694.2	496.1	442.0	450.2	464.4	473.6	474.6
45°	2318.3	2175.3	1741.5	1150.4	680.9	478.7	429.7	438.9	451.2	453.3	455.3
47.5°	2594.9	2435.6	1899.7	1175.0	657.5	460.4	420.5	429.7	437.9	436.9	437.9
50°	2901.2	2705.2	2061.0	1185.2	630.9	445.1	413.5	423.6	429.7	424.6	424.6
52.5°	3200.2	3000.2	2208.0	1189.3	601.3	430.8	408.4	420.5	423.6	418.5	418.5
55°	3518.7	3272.7	2355.0	1178.0	571.6	419.5	406.3	419.5	421.6	414.5	414.5
57.5°	3812.7	3563.7	2487.7	1160.6	544.1	409.4	403.2	418.5	420.5	414.5	415.4
60°	4083.2	3810.7	2590.8	1132.1	514.4	399.2	401.2	418.5	420.5	416.4	418.5
62.5°	4248.6	3974.1	2644.9	1087.2	485.9	389.9	398.1	416.4	420.5	417.5	419.5
65°	4320.1	4032.2	2637.8	1022.8	458.4	378.7	392.0	412.5	417.5	417.5	419.5
67.5°	4266.0	3979.2	2533.6	940.2	432.8	367.4	383.8	404.3	411.4	413.5	416.4
70°	4064.9	3759.7	2324.3	836.1	405.3	355.3	373.6	393.0	401.2	405.3	407.3
72.5°	3663.7	3391.2	2027.4	731.9	376.7	339.9	358.3	376.7	385.9	391.0	391.0
75°	3154.3	2881.8	1669.0	621.6	350.2	322.5	339.9	355.3	365.5	370.5	368.5
77.5°	2537.7	2283.5	1296.4	509.4	321.5	302.2	318.4	331.7	339.9	344.0	338.9
80°	1880.4	1718.0	973.8	420.5	293.0	278.7	292.0	303.2	312.4	311.4	307.3
82.5°	1333.2	1180.1	681.9	349.1	264.4	253.2	263.4	270.5	276.6	274.6	267.5
85°	888.1	788.1	481.8	284.8	234.8	225.6	231.7	235.8	238.9	233.7	228.6
87.5°	577.8	514.4	347.1	234.8	203.2	197.0	200.1	201.1	202.1	197.0	190.9
90°	377.7	351.2	258.3	194.0	174.5	170.5	170.5	166.4	167.5	161.3	155.2
92.5°	266.5	250.1	201.1	159.3	149.0	146.0	145.0	139.8	138.8	132.7	128.6
95°	199.1	191.9	162.3	134.7	126.5	125.5	123.5	118.5	114.4	108.2	106.2
97.5°	155.2	152.1	133.7	115.4	109.3	107.2	106.2	100.0	97.0	90.8	88.8
100°	123.5	123.5	112.3	99.0	93.9	92.9	91.9	85.7	82.7	76.5	75.5
102.5°	99.0	100.0	93.9	85.7	81.6	79.6	77.5	73.4	68.4	64.3	64.3
105°	77.5	79.6	77.5	72.5	70.5	68.4	66.4	62.3	57.2	53.1	53.1
107.5°	61.3	63.3	63.3	62.3	59.2	58.2	57.2	52.1	48.0	43.9	43.9
110°	47.0	50.0	52.1	52.1	52.1	50.0	48.0	44.9	39.8	36.7	36.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	37.7	39.8	42.9	43.9	43.9	43.9	41.8	36.7	32.6	30.6	31.6
115°	30.6	32.6	35.7	37.7	37.7	37.7	34.7	31.6	27.5	26.5	26.5
117.5°	25.5	27.5	29.6	32.6	32.6	32.6	30.6	26.5	22.5	22.5	22.5
120°	22.5	23.5	26.5	27.5	28.5	28.5	26.5	22.5	19.4	19.4	20.5
122.5°	19.4	20.5	22.5	24.4	25.5	24.4	22.5	18.4	16.4	17.4	17.4
125°	17.4	18.4	19.4	21.5	22.5	21.5	19.4	15.3	14.3	15.3	15.3
127.5°	16.4	16.4	17.4	18.4	19.4	18.4	16.4	13.3	12.3	14.3	14.3
130°	14.3	15.3	15.3	16.4	16.4	16.4	14.3	11.3	11.3	12.3	12.3
132.5°	13.3	13.3	13.3	14.3	14.3	13.3	11.3	9.2	10.2	11.3	11.3
135°	11.3	12.3	12.3	12.3	12.3	11.3	9.2	8.2	9.2	10.2	10.2
137.5°	10.2	10.2	10.2	10.2	10.2	9.2	8.2	7.2	8.2	8.2	8.2
140°	8.2	9.2	9.2	8.2	8.2	7.2	6.1	5.1	6.1	7.2	7.2
142.5°	7.2	7.2	7.2	7.2	6.1	5.1	4.1	4.1	5.1	5.1	5.1
145°	6.1	6.1	6.1	5.1	4.1	4.1	3.1	3.1	4.1	4.1	5.1
147.5°	4.1	4.1	4.1	4.1	3.1	3.1	2.0	2.0	3.1	3.1	3.1
150°	3.1	3.1	3.1	3.1	2.0	2.0	2.0	1.0	2.0	2.0	2.0
152.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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)