

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: P266512

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266512
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 6922.3 lumens
Efficiency: N/A
Efficacy: 73.6 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): 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



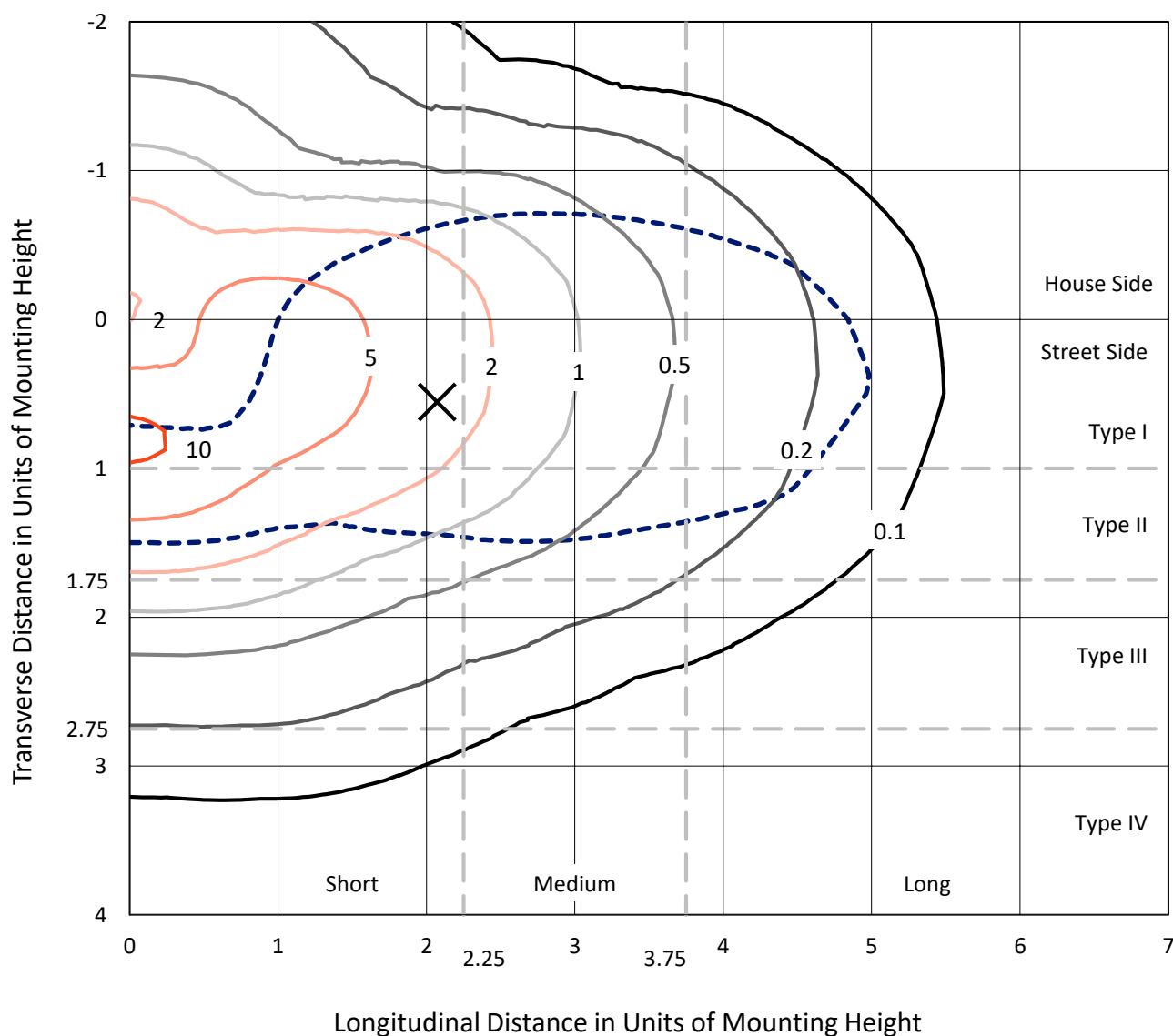
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

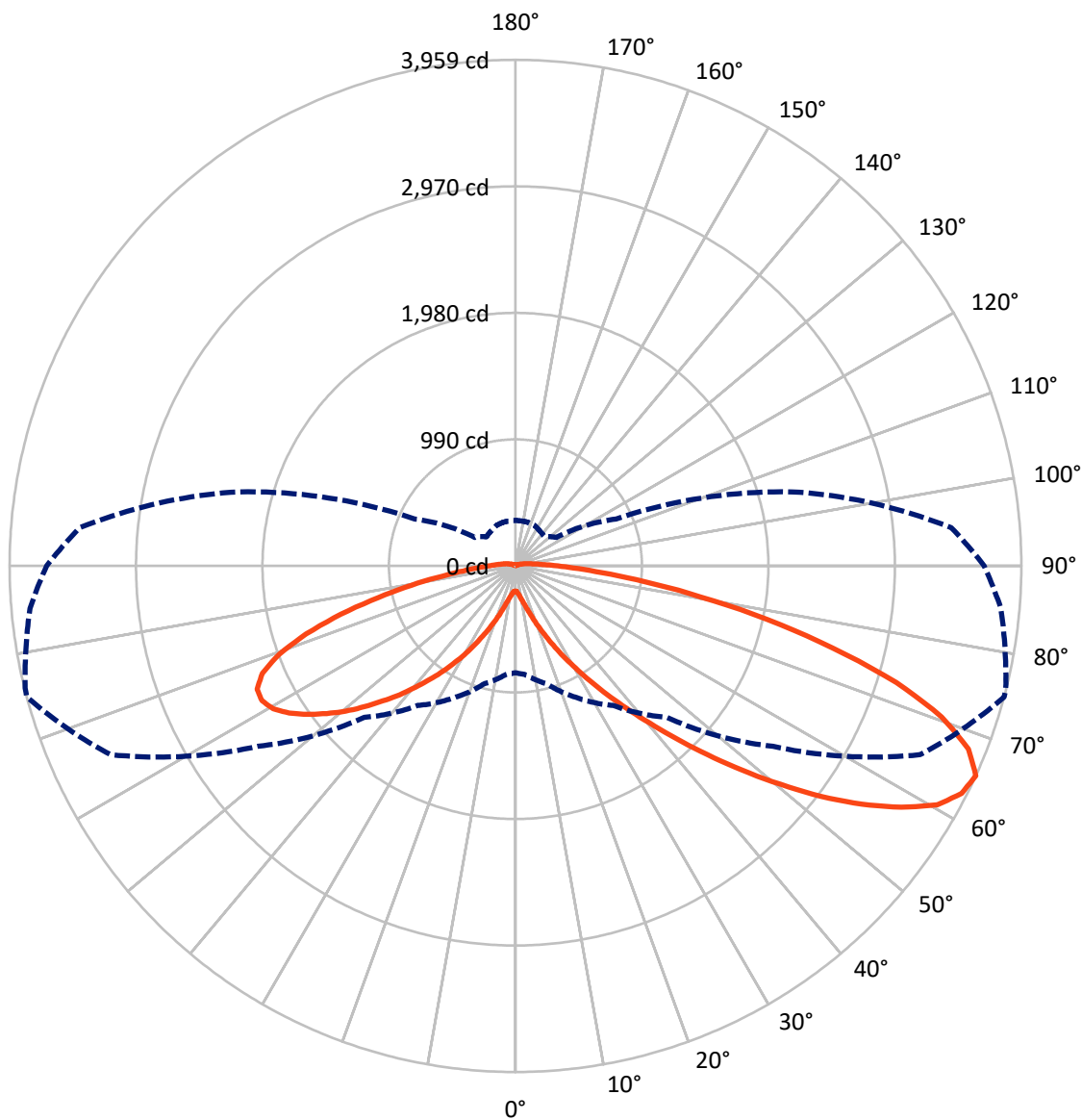


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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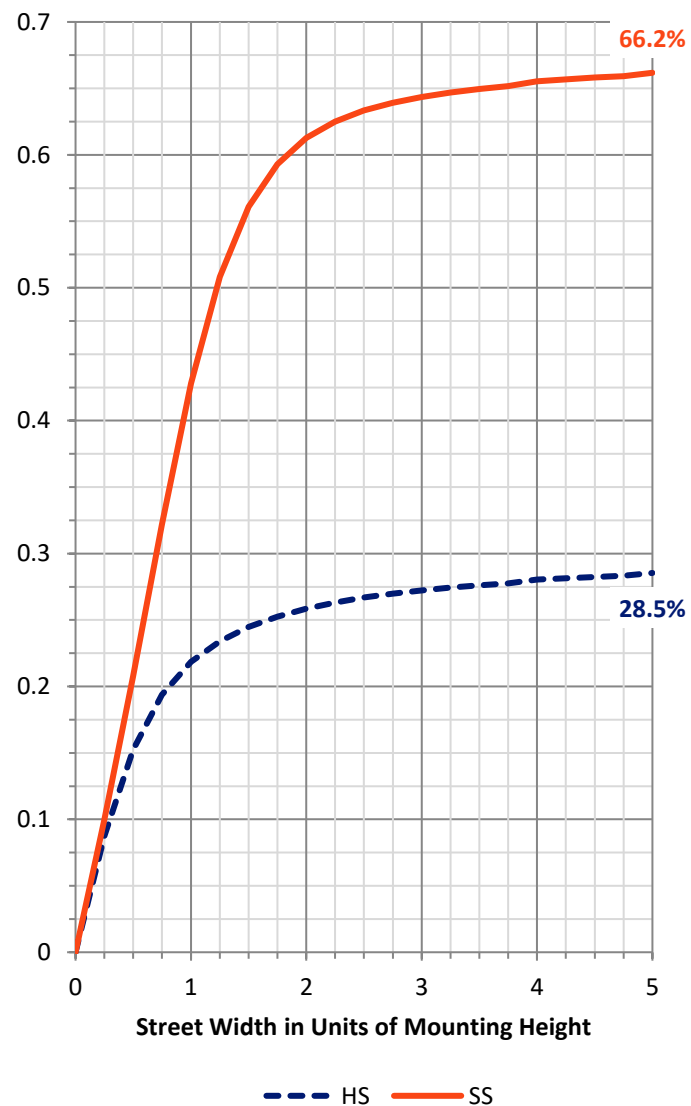
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2043.9	122.5	2166.5
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	4645.6	110.2	4755.8
	% Fixture	67.1	1.6	68.7
Total	Lumens	6689.5	232.8	6922.3
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.3
10°-20°	100.1	1.4
20°-30°	291.9	4.2
30°-40°	654.8	9.5
40°-50°	1165.2	16.8
50°-60°	1583.4	22.9
60°-70°	1537.7	22.2
70°-80°	969.2	14.0
80°-90°	365.5	5.3
90°-100°	124.4	1.8
100°-110°	56.3	0.8
110°-120°	27.1	0.4
120°-130°	14.2	0.2
130°-140°	7.4	0.1
140°-150°	2.7	0.0
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6689.5	96.6
0°-180°	6922.3	100.0

Coefficient of Utilization



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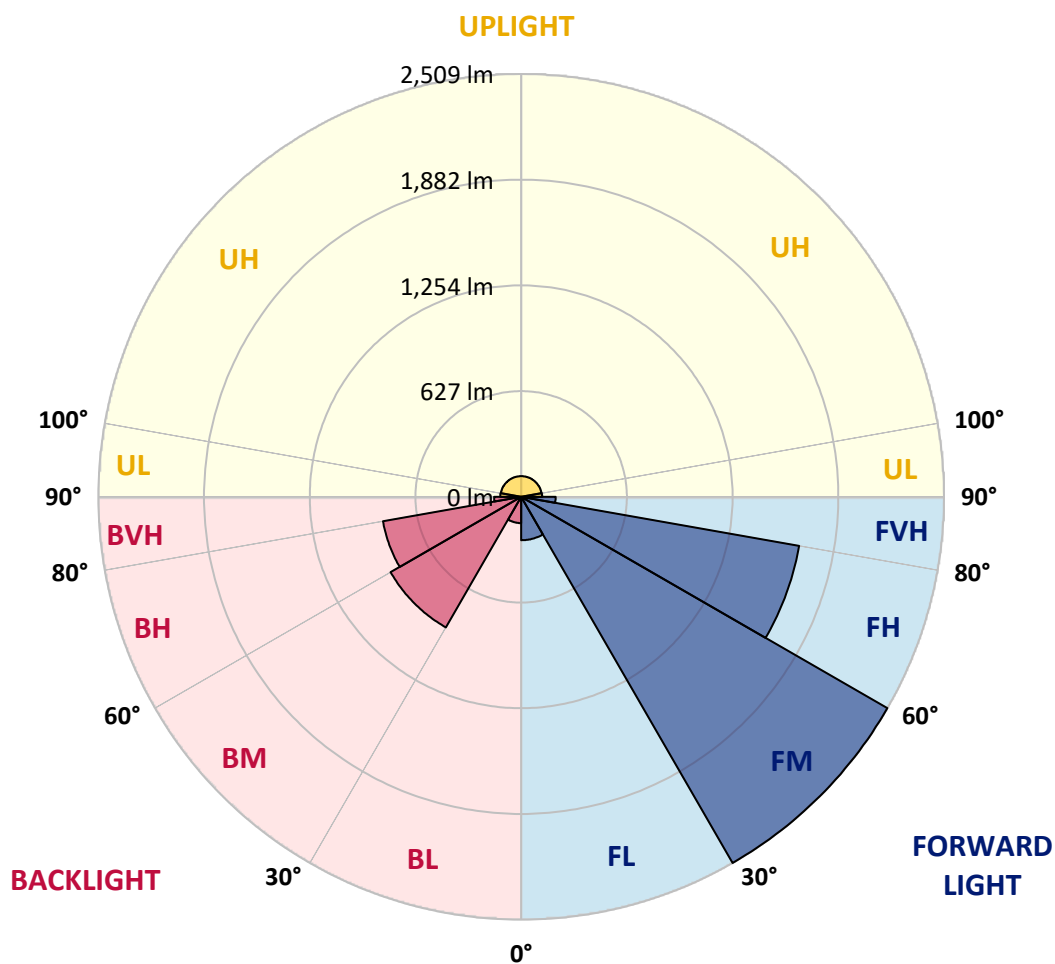
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.8	3.7			
FM	(30°-60°)	2508.7	36.2			
FH	(60°-80°)	1674.5	24.2			G1/1800
FVH	(80°-90°)	204.6	3.0			G2/225
BL	(0°-30°)	155.9	2.3	B1/500		
BM	(30°-60°)	894.7	12.9	B1/1000		
BH	(60°-80°)	832.4	12.0	B2/1000		G2/1000
BVH	(80°-90°)	160.9	2.3			G2/225
UL	(90°-100°)	124.4	1.8		U3/500	
UH	(100°-180°)	122.5	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°	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8
2.5°	214.2	213.3	213.3	213.3	211.6	209.8	207.1	205.4	202.8	201.9	201.1
5°	236.7	236.7	235.9	234.9	233.2	228.9	224.5	221.1	216.8	215.9	212.4
7.5°	272.2	271.4	270.5	266.2	263.6	257.5	250.5	245.3	237.5	237.5	232.3
10°	319.1	317.3	314.6	310.4	300.8	293.0	285.2	275.7	267.9	267.1	259.3
12.5°	374.6	374.6	371.1	362.3	350.2	339.0	325.9	315.6	305.2	304.3	297.3
15°	450.8	451.7	440.3	427.5	410.0	392.6	376.3	366.7	354.7	357.2	347.6
17.5°	545.4	543.6	534.0	508.0	479.4	456.9	437.8	427.5	417.9	418.7	411.9
20°	664.0	662.4	645.9	611.1	564.3	530.5	508.0	501.2	496.0	493.3	486.3
22.5°	810.6	801.9	768.9	723.9	667.6	619.0	594.8	584.3	582.6	583.4	576.5
25°	974.4	971.0	929.3	857.4	784.6	722.1	684.9	683.3	685.8	681.5	681.5
27.5°	1173.8	1164.4	1115.8	1016.1	912.0	837.5	794.1	789.8	801.9	798.5	793.3
30°	1407.0	1392.4	1326.4	1199.0	1065.5	965.8	915.6	915.6	928.5	928.5	926.8
32.5°	1650.6	1648.1	1545.9	1396.7	1238.9	1107.2	1063.8	1056.9	1069.8	1076.8	1068.1
35°	1924.7	1904.6	1786.8	1617.8	1414.0	1269.2	1215.4	1225.0	1235.3	1236.2	1222.5
37.5°	2203.8	2183.9	2048.7	1839.6	1602.1	1446.1	1390.5	1397.6	1414.0	1414.0	1395.7
40°	2443.1	2421.4	2288.8	2071.1	1810.3	1642.9	1583.9	1603.8	1615.2	1619.5	1590.0
42.5°	2632.0	2616.5	2497.6	2275.8	2010.4	1840.5	1802.4	1835.3	1846.6	1855.3	1812.8
45°	2737.9	2724.9	2642.5	2442.2	2178.7	2038.3	2045.1	2085.1	2106.7	2097.2	2051.2
47.5°	2754.4	2744.0	2698.0	2545.3	2333.0	2228.1	2294.0	2353.7	2386.7	2387.7	2309.6
50°	2652.1	2656.4	2657.2	2569.6	2419.7	2382.5	2526.4	2660.7	2685.8	2672.0	2580.0
52.5°	2453.5	2450.8	2501.2	2501.2	2435.2	2477.7	2721.3	2961.5	2996.1	2992.8	2865.4
55°	2158.7	2161.3	2254.9	2328.6	2352.9	2497.6	2881.0	3233.8	3291.0	3285.8	3145.3
57.5°	1791.9	1817.1	1932.4	2073.7	2183.9	2412.8	2954.5	3467.8	3561.5	3562.3	3392.4
60°	1435.8	1461.7	1596.1	1777.2	1936.7	2248.8	2905.2	3589.2	3794.7	3785.2	3604.8
62.5°	1096.7	1123.6	1252.7	1459.0	1644.6	1987.1	2737.0	3614.3	3918.6	3912.6	3757.4
65°	834.9	852.2	956.2	1137.4	1332.5	1674.1	2460.5	3494.6	3959.4	3955.1	3813.8
67.5°	624.2	632.0	730.9	877.4	1046.4	1354.1	2078.0	3206.9	3824.2	3828.4	3749.5
70°	480.4	485.5	557.5	684.9	810.6	1058.6	1683.7	2791.7	3539.9	3551.1	3548.5
72.5°	381.5	389.2	446.5	539.3	630.3	801.9	1302.2	2258.3	3118.5	3141.8	3212.1
75°	314.6	323.4	366.7	435.1	501.2	610.4	946.8	1733.0	2563.7	2613.0	2769.0
77.5°	260.1	268.8	305.2	359.0	399.7	466.4	693.6	1281.3	2013.9	2034.8	2241.1
80°	213.3	221.1	254.0	295.6	325.0	364.2	505.4	899.9	1468.5	1494.6	1695.8
82.5°	169.9	176.8	207.1	241.0	265.3	292.2	374.6	616.3	1023.0	1042.0	1174.8
85°	131.0	137.8	163.9	193.3	214.2	235.9	287.0	429.1	677.1	699.6	796.7
87.5°	97.9	104.1	125.8	150.8	172.6	190.7	221.1	296.5	451.7	470.7	516.7
90°	72.0	76.3	95.4	114.4	134.3	154.2	173.5	216.8	300.8	308.7	340.6
92.5°	53.8	56.4	72.0	88.5	107.4	124.9	137.0	159.4	211.6	212.4	234.9
95°	39.9	42.5	55.4	69.3	85.8	102.2	112.6	124.0	155.1	157.8	171.7
97.5°	32.1	33.0	44.1	56.4	70.2	84.1	92.7	98.9	118.8	121.5	131.0
100°	26.9	27.8	37.3	47.7	59.7	72.0	78.1	80.6	93.7	96.2	103.1
102.5°	23.4	23.4	32.1	41.6	52.0	60.6	64.9	66.7	75.4	75.4	80.6
105°	20.8	20.8	27.8	36.4	45.0	52.9	55.4	55.4	59.0	59.7	62.4
107.5°	19.0	19.0	25.2	33.0	39.9	46.0	47.7	46.0	46.8	46.8	48.6
110°	17.3	17.3	21.6	29.5	35.6	39.9	40.8	38.9	36.4	36.4	38.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	15.6	16.4	19.9	26.1	31.3	35.6	35.6	33.0	28.6	28.6	30.4
115°	14.7	14.7	18.1	23.4	27.8	31.3	31.3	27.8	23.4	22.5	24.3
117.5°	13.8	13.8	15.6	20.8	25.2	27.8	27.8	23.4	19.0	19.0	20.8
120°	12.9	12.9	14.7	19.0	22.5	25.2	24.3	20.8	16.4	16.4	18.1
122.5°	12.9	12.9	13.8	17.3	19.9	21.6	20.8	17.3	13.8	13.8	15.6
125°	12.1	12.1	12.9	15.6	18.1	19.9	18.1	14.7	12.9	12.9	13.8
127.5°	12.1	12.1	12.1	13.8	16.4	17.3	16.4	12.9	11.3	11.3	12.9
130°	11.3	11.3	12.1	12.9	14.7	15.6	13.8	11.3	10.4	10.4	12.1
132.5°	11.3	11.3	11.3	11.3	12.1	12.9	11.3	8.7	9.5	9.5	10.4
135°	10.4	10.4	10.4	10.4	11.3	11.3	9.5	7.7	8.7	8.7	9.5
137.5°	9.5	9.5	9.5	9.5	9.5	8.7	7.7	6.9	7.7	7.7	8.7
140°	8.7	8.7	8.7	7.7	6.9	6.9	6.1	5.2	6.1	6.1	6.9
142.5°	7.7	7.7	7.7	6.9	6.1	5.2	4.3	4.3	5.2	5.2	6.1
145°	6.9	6.9	6.1	5.2	4.3	3.5	2.5	3.5	4.3	4.3	5.2
147.5°	5.2	5.2	5.2	4.3	2.5	1.7	1.7	2.5	3.5	3.5	3.5
150°	4.3	4.3	4.3	3.5	1.7	0.9	0.9	1.7	1.7	1.7	2.5
152.5°	2.5	2.5	2.5	2.5	0.9	0.0	0.0	0.9	1.7	1.7	1.7
155°	1.7	1.7	1.7	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°	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8
2.5°	200.2	199.5	197.6	195.9	194.3	192.4	190.7	189.8	188.1	188.1	188.1
5°	210.7	208.0	204.6	201.1	197.6	195.0	192.4	189.8	188.1	187.2	186.4
7.5°	229.7	226.3	220.3	215.1	208.9	203.7	199.5	195.9	194.3	193.3	193.3
10°	255.7	251.4	243.6	233.2	226.3	218.5	211.6	207.1	203.7	202.8	201.9
12.5°	290.4	286.1	273.1	261.9	248.8	236.7	228.9	223.7	221.1	220.3	220.3
15°	339.9	334.7	313.9	294.7	274.0	259.3	248.8	244.5	245.3	247.9	245.3
17.5°	401.5	393.5	369.4	338.1	307.0	284.4	274.8	275.7	279.2	281.8	280.9
20°	477.7	466.4	432.7	388.3	345.8	315.6	306.1	307.0	311.3	319.1	318.2
22.5°	567.0	549.7	506.4	446.5	386.7	352.0	334.7	337.3	346.7	354.7	354.7
25°	664.9	649.4	587.9	508.0	433.5	382.3	360.7	364.2	377.9	386.7	389.2
27.5°	781.2	756.8	680.6	576.5	477.7	409.2	382.3	384.0	401.5	412.7	414.4
30°	905.1	876.4	781.2	645.1	516.7	430.0	395.3	398.8	417.9	430.8	433.5
32.5°	1044.6	1010.9	886.0	716.9	553.1	442.1	402.4	405.8	425.6	440.3	442.1
35°	1199.9	1150.5	998.7	782.9	577.4	446.5	402.4	406.7	425.6	440.3	443.0
37.5°	1357.7	1302.2	1108.9	846.2	592.2	443.0	396.2	401.5	418.7	432.7	435.1
40°	1541.4	1470.3	1229.3	898.1	597.4	433.5	385.8	391.9	406.7	417.9	419.6
42.5°	1751.2	1650.6	1355.9	942.4	589.6	421.3	375.4	382.3	394.4	402.4	403.1
45°	1968.8	1847.5	1479.0	977.0	578.2	406.7	365.0	372.7	383.1	385.0	386.7
47.5°	2203.8	2068.5	1613.4	997.8	558.3	391.0	357.2	365.0	371.9	371.1	371.9
50°	2464.0	2297.4	1750.3	1006.6	535.7	377.9	351.1	359.9	365.0	360.7	360.7
52.5°	2717.9	2548.0	1875.2	1010.1	510.6	365.9	346.7	357.2	359.9	355.5	355.5
55°	2988.4	2779.4	2000.0	1000.4	485.5	356.3	345.0	356.3	358.1	352.0	352.0
57.5°	3238.1	3026.6	2112.8	985.7	462.1	347.6	342.4	355.5	357.2	352.0	352.9
60°	3467.8	3236.4	2200.4	961.5	436.9	339.0	340.6	355.5	357.2	353.8	355.5
62.5°	3608.3	3375.1	2246.3	923.3	412.7	331.1	338.1	353.8	357.2	354.7	356.3
65°	3668.9	3424.5	2240.3	868.8	389.2	321.7	332.9	350.2	354.7	354.7	356.3
67.5°	3623.0	3379.5	2151.8	798.5	367.5	312.2	325.9	343.3	349.4	351.1	353.8
70°	3452.2	3193.0	1974.0	710.0	344.2	301.7	317.3	333.8	340.6	344.2	345.8
72.5°	3111.5	2880.1	1721.8	621.5	319.8	288.6	304.3	319.8	327.7	332.1	332.1
75°	2678.8	2447.4	1417.4	527.9	297.3	274.0	288.6	301.7	310.4	314.6	313.0
77.5°	2155.3	1939.4	1101.1	432.7	273.1	256.6	270.5	281.8	288.6	292.2	287.8
80°	1596.9	1459.0	827.1	357.2	248.8	236.7	247.9	257.5	265.3	264.5	261.0
82.5°	1132.3	1002.1	579.1	296.5	224.5	215.1	223.7	229.7	234.9	233.2	227.1
85°	754.2	669.2	409.2	241.9	199.5	191.6	196.8	200.2	202.8	198.5	194.3
87.5°	490.7	436.9	294.7	199.5	172.6	167.4	169.9	170.8	171.7	167.4	162.1
90°	320.8	298.2	219.4	164.7	148.2	144.7	144.7	141.4	142.2	137.0	131.8
92.5°	226.3	212.4	170.8	135.3	126.7	124.0	123.1	118.8	117.9	112.6	109.2
95°	169.1	163.0	137.8	114.4	107.4	106.5	104.9	100.6	97.0	91.8	90.2
97.5°	131.8	129.1	113.5	97.9	92.7	91.0	90.2	85.0	82.4	77.2	75.4
100°	104.9	104.9	95.4	84.1	79.8	79.0	78.1	72.9	70.2	64.9	64.1
102.5°	84.1	85.0	79.8	72.9	69.3	67.6	65.8	62.4	58.1	54.5	54.5
105°	65.8	67.6	65.8	61.5	59.7	58.1	56.4	52.9	48.6	45.0	45.0
107.5°	52.0	53.8	53.8	52.9	50.2	49.3	48.6	44.1	40.8	37.3	37.3
110°	39.9	42.5	44.1	44.1	44.1	42.5	40.8	38.2	33.7	31.3	31.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	32.1	33.7	36.4	37.3	37.3	37.3	35.6	31.3	27.8	26.1	26.9
115°	26.1	27.8	30.4	32.1	32.1	32.1	29.5	26.9	23.4	22.5	22.5
117.5°	21.6	23.4	25.2	27.8	27.8	27.8	26.1	22.5	19.0	19.0	19.0
120°	19.0	19.9	22.5	23.4	24.3	24.3	22.5	19.0	16.4	16.4	17.3
122.5°	16.4	17.3	19.0	20.8	21.6	20.8	19.0	15.6	13.8	14.7	14.7
125°	14.7	15.6	16.4	18.1	19.0	18.1	16.4	12.9	12.1	12.9	12.9
127.5°	13.8	13.8	14.7	15.6	16.4	15.6	13.8	11.3	10.4	12.1	12.1
130°	12.1	12.9	12.9	13.8	13.8	13.8	12.1	9.5	9.5	10.4	10.4
132.5°	11.3	11.3	11.3	12.1	12.1	11.3	9.5	7.7	8.7	9.5	9.5
135°	9.5	10.4	10.4	10.4	10.4	9.5	7.7	6.9	7.7	8.7	8.7
137.5°	8.7	8.7	8.7	8.7	8.7	7.7	6.9	6.1	6.9	6.9	6.9
140°	6.9	7.7	7.7	6.9	6.9	6.1	5.2	4.3	5.2	6.1	6.1
142.5°	6.1	6.1	6.1	6.1	5.2	4.3	3.5	3.5	4.3	4.3	4.3
145°	5.2	5.2	5.2	4.3	3.5	3.5	2.5	2.5	3.5	3.5	4.3
147.5°	3.5	3.5	3.5	3.5	2.5	2.5	1.7	1.7	2.5	2.5	2.5
150°	2.5	2.5	2.5	2.5	1.7	1.7	1.7	0.9	1.7	1.7	1.7
152.5°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	1.7	1.7	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)