

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: P266195

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T4W-FL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-30)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-80-D-U-T4W-FL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6526.8 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U3 - G4

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

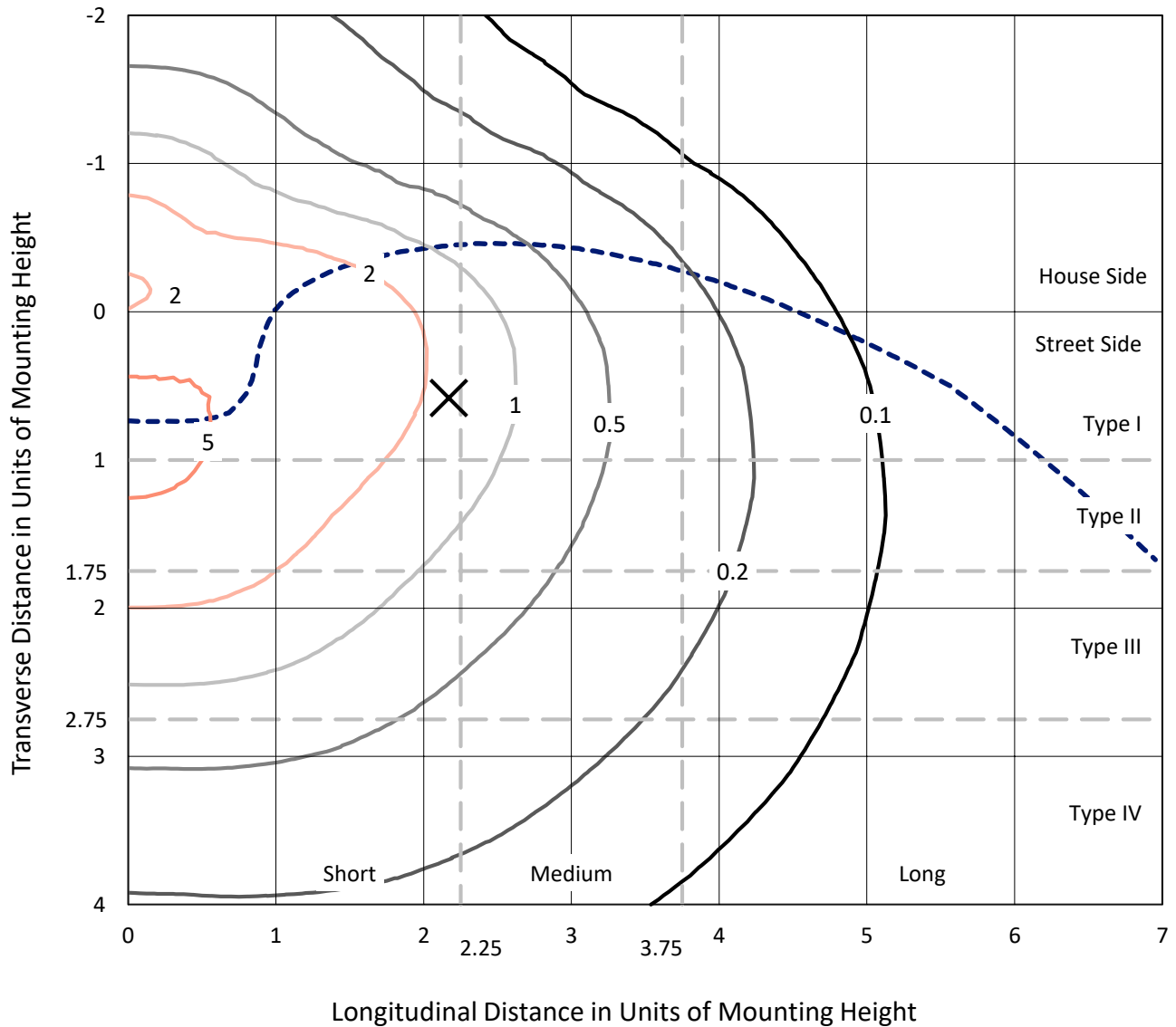


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

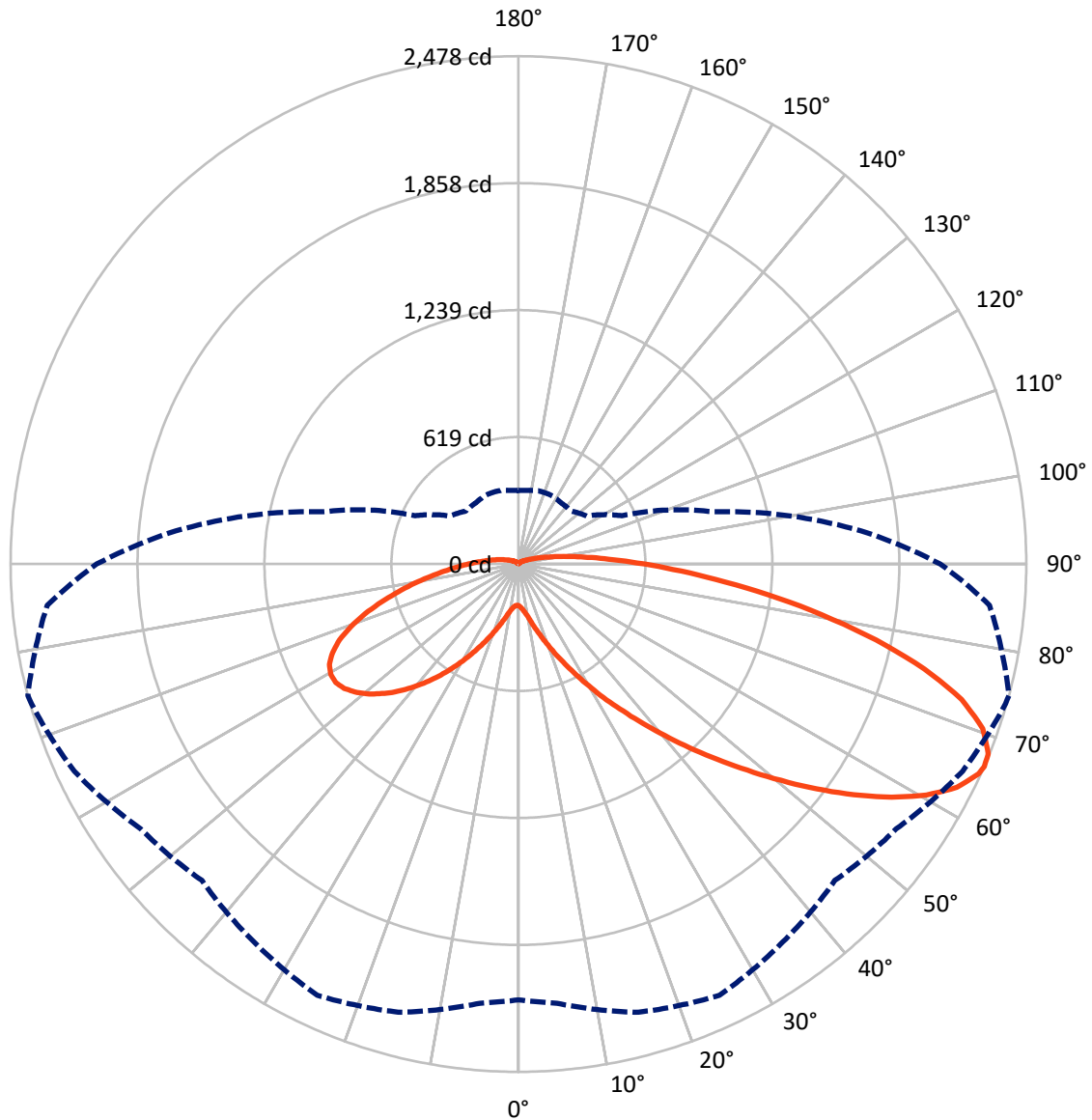


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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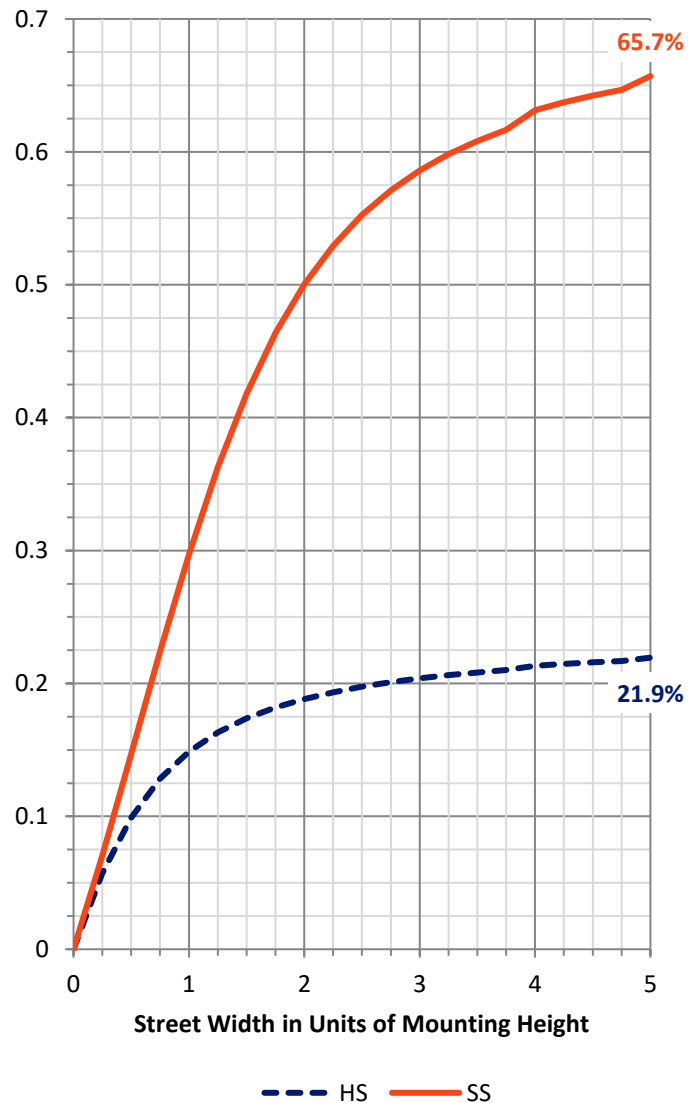
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1512.5	163.0	1675.5
	% Fixture	23.2	2.5	25.7
Street Side	Lumens	4535.2	316.1	4851.4
	% Fixture	69.5	4.8	74.3
Total	Lumens	6047.7	479.1	6526.8
	% Fixture	92.7	7.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.3
10°-20°	90.4	1.4
20°-30°	228.7	3.5
30°-40°	457.6	7.0
40°-50°	778.0	11.9
50°-60°	1157.6	17.7
60°-70°	1421.4	21.8
70°-80°	1222.4	18.7
80°-90°	670.1	10.3
90°-100°	279.6	4.3
100°-110°	114.2	1.8
110°-120°	50.3	0.8
120°-130°	23.0	0.4
130°-140°	9.5	0.1
140°-150°	2.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6047.7	92.7
0°-180°	6526.8	100.0

Coefficient of Utilization



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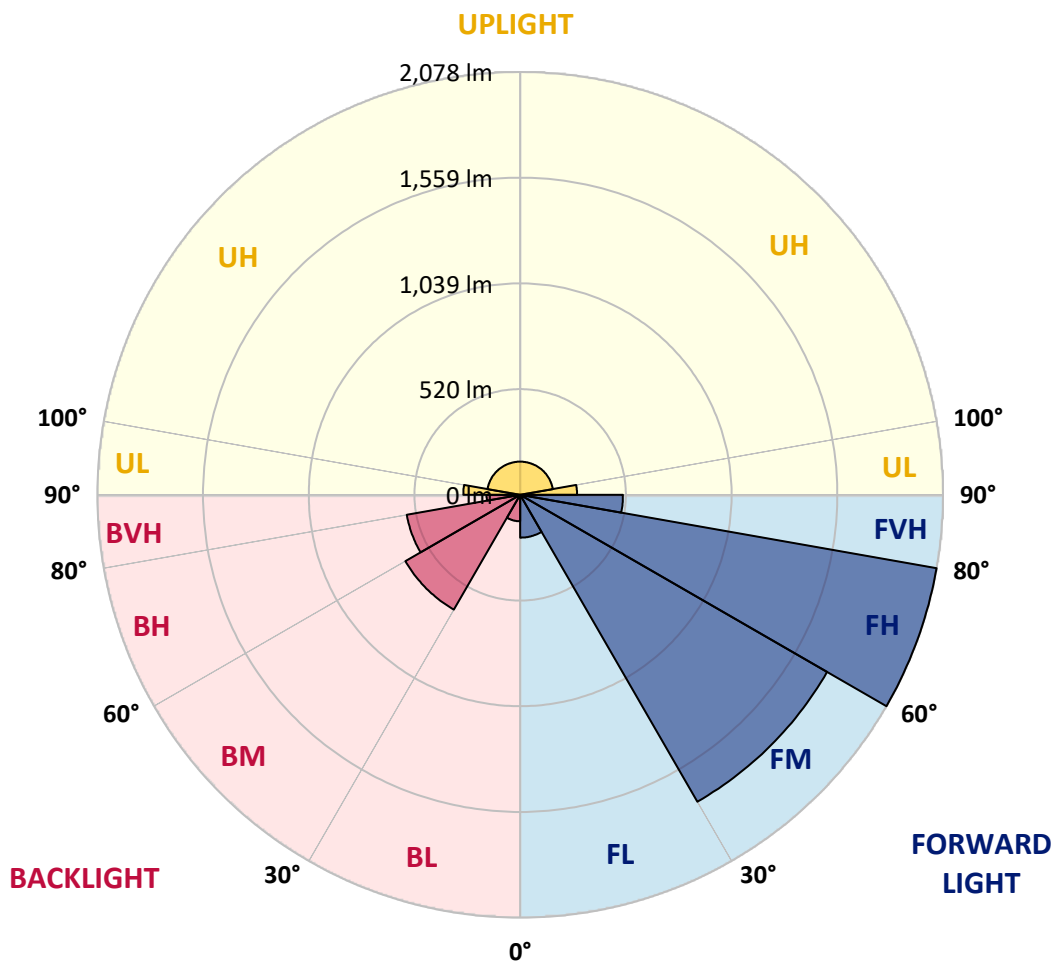
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.5	3.2			
FM	(30°-60°)	1741.7	26.7			
FH	(60°-80°)	2078.1	31.8			G2/5000
FVH	(80°-90°)	504.9	7.7			G4/750
BL	(0°-30°)	130.1	2.0	B1/500		
BM	(30°-60°)	651.5	10.0	B1/1000		
BH	(60°-80°)	565.7	8.7	B2/1000		G2/1000
BVH	(80°-90°)	165.2	2.5			G2/225
UL	(90°-100°)	279.6	4.3		U3/500	
UH	(100°-180°)	163.0	2.5		U3/500	

BUG Rating: B2-U3-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7
2.5°	224.4	224.4	223.7	223.7	221.3	218.8	217.3	213.3	210.9	210.9	207.7
5°	248.3	248.3	247.6	246.0	242.7	238.8	234.0	228.3	223.7	222.9	217.3
7.5°	277.8	277.8	276.1	272.9	268.2	262.7	256.2	248.3	241.1	239.6	231.7
10°	314.3	314.3	312.0	307.2	300.8	293.7	284.9	273.8	264.2	263.5	252.3
12.5°	360.5	358.2	356.5	348.6	339.9	330.2	319.9	306.4	296.9	296.9	281.8
15°	413.1	413.1	406.8	396.3	385.3	372.4	361.3	347.9	336.7	335.8	318.4
17.5°	471.3	470.4	463.2	450.5	435.4	422.7	408.3	393.2	380.4	380.4	359.7
20°	538.1	536.4	526.9	510.1	491.8	477.4	461.5	444.1	430.6	430.6	407.6
22.5°	614.4	611.2	599.3	576.3	557.8	537.2	519.0	501.4	487.2	488.7	462.4
25°	700.4	696.4	681.3	651.8	625.6	600.8	582.6	564.2	554.0	549.9	528.5
27.5°	797.4	789.5	772.8	735.4	698.1	667.7	648.7	635.1	625.6	622.3	597.7
30°	904.1	896.1	873.2	826.1	776.8	738.5	720.4	709.9	705.2	701.1	676.6
32.5°	1025.9	1017.2	985.4	926.4	862.7	815.0	797.4	792.8	792.8	789.5	764.8
35°	1158.0	1146.9	1108.7	1034.7	954.3	897.0	880.2	882.7	883.5	881.1	860.3
37.5°	1298.9	1286.9	1241.5	1153.2	1053.0	984.5	967.8	979.0	994.9	986.1	964.6
40°	1443.8	1432.5	1384.1	1276.6	1156.4	1076.0	1059.3	1081.6	1107.2	1100.0	1076.0
42.5°	1587.8	1583.1	1521.6	1407.1	1267.1	1172.4	1160.4	1194.7	1229.6	1224.8	1198.6
45°	1744.6	1730.2	1670.6	1542.4	1385.6	1283.8	1270.3	1316.3	1364.2	1359.3	1333.2
47.5°	1885.5	1871.9	1815.5	1679.3	1505.0	1394.3	1385.6	1447.7	1508.3	1502.7	1476.4
50°	2003.9	2002.4	1954.7	1813.8	1630.8	1509.8	1509.1	1586.9	1661.0	1659.3	1626.0
52.5°	2117.8	2115.5	2071.8	1944.3	1756.5	1626.0	1632.4	1734.2	1822.7	1822.7	1777.9
55°	2205.3	2204.6	2179.1	2068.4	1880.7	1754.8	1773.3	1885.5	1986.5	1986.5	1942.0
57.5°	2266.7	2265.9	2262.7	2178.3	2000.0	1877.5	1906.2	2034.3	2144.2	2146.5	2087.7
60°	2280.9	2288.2	2320.1	2266.7	2106.6	1988.8	2028.0	2171.2	2284.2	2288.2	2207.8
62.5°	2255.6	2266.7	2331.1	2320.1	2187.9	2089.2	2137.7	2285.0	2394.1	2400.5	2289.8
65°	2171.2	2194.2	2293.0	2329.6	2238.8	2162.4	2226.9	2367.8	2458.5	2467.3	2316.0
66°	2125.7	2150.5	2263.5	2320.9	2250.0	2183.2	2250.8	2390.7	2472.0	2477.5	2307.2
67.5°	2039.8	2064.6	2198.2	2286.5	2250.0	2203.1	2270.6	2406.7	2469.6	2472.0	2276.2
70°	1855.2	1893.4	2043.0	2179.9	2203.8	2192.7	2269.8	2382.8	2411.5	2403.5	2157.5
72.5°	1652.3	1673.7	1837.8	2023.9	2104.3	2125.7	2214.1	2293.0	2273.8	2261.9	1979.3
75°	1385.6	1416.6	1595.7	1808.3	1930.7	1996.8	2091.6	2119.5	2071.8	2046.2	1744.6
77.5°	1157.1	1170.0	1337.0	1555.1	1716.8	1806.6	1895.9	1904.5	1805.9	1784.4	1471.7
80°	920.0	932.8	1086.4	1295.6	1470.7	1589.5	1667.3	1644.3	1520.1	1499.5	1216.9
82.5°	718.6	736.3	854.0	1053.7	1223.3	1348.3	1408.0	1370.5	1252.7	1223.3	969.5
85°	551.6	560.4	670.1	842.0	991.6	1105.5	1154.9	1113.4	986.9	963.8	761.7
87.5°	420.2	429.0	522.0	657.4	789.5	886.5	924.9	872.3	769.6	754.4	591.4
90°	320.8	327.2	401.2	517.3	619.2	699.6	725.8	684.5	592.9	579.3	455.3
92.5°	246.0	251.4	308.7	401.2	484.6	553.1	564.2	525.2	454.5	442.5	350.2
95°	188.6	195.0	241.1	313.6	378.8	430.6	438.6	405.0	348.6	339.0	269.9
97.5°	148.0	150.5	189.5	248.3	301.7	337.5	340.6	315.1	266.6	260.2	207.7
100°	118.5	120.2	150.5	196.5	240.3	266.6	268.2	242.0	204.5	199.8	159.2
102.5°	96.3	97.8	121.0	158.5	191.0	212.4	211.7	191.0	158.5	152.1	124.1
105°	79.6	80.4	98.8	128.9	155.1	169.5	168.7	148.8	121.8	117.8	97.0
107.5°	66.8	67.6	81.1	105.0	127.3	139.2	136.9	117.0	94.7	92.3	77.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	56.6	57.3	67.6	87.6	107.4	115.4	112.2	93.2	74.7	71.7	62.2
112.5°	49.3	49.3	57.3	73.2	89.9	97.0	92.3	75.5	58.8	57.3	50.9
115°	42.9	43.7	49.3	62.2	76.4	81.1	76.4	60.5	47.8	46.2	42.2
117.5°	38.2	38.2	42.9	52.6	64.5	67.6	62.9	49.3	38.9	38.2	35.8
120°	34.2	34.2	37.4	44.6	54.1	57.3	52.6	40.7	31.8	31.0	30.3
122.5°	31.0	31.0	32.6	38.2	46.2	47.8	42.9	33.4	27.0	26.3	26.3
125°	27.8	27.8	28.7	32.6	38.9	40.7	35.8	27.0	23.0	22.3	22.3
127.5°	25.4	25.4	25.4	28.7	31.8	33.4	29.5	22.3	19.1	19.1	19.9
130°	23.0	23.0	23.0	23.9	26.3	27.0	23.9	18.3	16.7	16.7	16.7
132.5°	20.8	20.8	19.9	20.8	21.5	21.5	18.3	15.1	14.4	14.4	15.1
135°	18.3	18.3	17.4	17.4	17.4	16.7	14.4	11.9	11.9	11.9	12.8
137.5°	15.9	15.9	15.1	14.4	13.6	11.9	10.3	9.5	9.5	9.5	10.3
140°	13.6	13.6	12.8	11.1	9.5	8.8	7.1	7.1	7.9	7.9	7.9
142.5°	10.3	10.3	9.5	8.8	7.1	5.6	4.9	4.9	5.6	5.6	6.4
145°	7.9	7.9	7.1	5.6	4.0	3.1	2.3	3.1	4.0	4.0	4.9
147.5°	5.6	5.6	4.9	4.0	2.3	0.8	1.5	2.3	3.1	3.1	4.0
150°	3.1	3.1	2.3	1.5	0.0	0.0	0.8	1.5	2.3	2.3	2.3
152.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	1.5	1.5	1.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7
2.5°	206.2	204.5	201.4	199.0	195.8	194.3	192.5	191.0	190.3	188.6	188.6
5°	213.3	210.9	205.4	200.5	195.0	191.0	187.0	184.6	183.1	182.3	182.3
7.5°	226.8	222.9	214.1	206.9	199.0	194.3	189.5	184.6	182.3	181.5	181.5
10°	246.0	241.1	229.2	218.8	208.5	201.4	196.5	191.0	188.6	187.0	187.0
12.5°	273.8	265.8	251.4	236.3	222.9	214.1	207.7	203.7	203.7	205.4	204.5
15°	308.7	300.0	279.4	260.2	242.0	230.0	226.1	225.2	225.2	226.1	226.1
17.5°	347.0	335.1	311.3	286.5	265.0	253.1	248.3	246.8	246.8	247.6	249.1
20°	393.2	378.0	347.9	315.9	292.8	278.6	271.4	269.0	270.6	273.8	273.8
22.5°	446.5	429.7	389.1	348.6	321.6	303.3	294.5	292.0	295.3	299.2	300.0
25°	507.8	485.4	434.6	384.5	349.4	326.4	317.6	314.3	319.2	323.8	326.4
27.5°	575.5	546.8	483.8	420.2	374.1	346.1	336.7	335.8	342.3	348.6	351.0
30°	650.3	615.2	536.4	457.6	399.6	363.8	353.4	355.8	362.9	370.9	372.4
32.5°	732.9	691.6	591.4	494.2	419.4	377.3	365.3	370.9	379.7	390.0	391.7
35°	822.9	772.8	649.5	528.5	436.9	387.6	375.6	382.8	392.4	403.5	405.0
37.5°	920.9	859.6	707.5	558.7	450.5	393.9	381.2	390.0	401.2	411.5	413.1
40°	1022.7	949.5	765.6	585.8	460.0	397.9	383.7	393.2	404.2	412.2	413.8
42.5°	1138.2	1046.5	822.2	607.3	465.6	398.8	383.7	392.4	403.5	409.1	409.8
45°	1260.7	1149.2	877.9	624.9	467.9	397.9	381.2	390.9	399.6	401.9	402.7
47.5°	1388.1	1254.4	927.9	635.1	467.9	394.7	378.0	385.3	392.4	391.7	392.4
50°	1529.6	1364.2	975.0	641.5	464.9	390.9	374.9	380.4	385.3	381.2	382.0
52.5°	1663.4	1473.2	1013.2	643.8	459.3	386.0	371.7	376.5	378.8	373.2	373.2
55°	1796.3	1575.8	1044.2	639.1	452.0	382.0	369.4	374.1	374.1	366.9	366.9
57.5°	1919.7	1663.4	1061.6	629.5	443.4	378.8	367.6	372.4	372.4	362.9	362.9
60°	2015.2	1726.3	1062.4	614.4	433.0	374.9	366.9	372.4	371.7	362.1	361.3
62.5°	2073.3	1754.1	1044.2	592.9	422.7	370.9	366.1	371.7	371.7	361.3	360.5
65°	2073.3	1735.9	1004.5	567.5	410.6	366.1	364.5	371.7	370.1	360.5	359.0
66°	2057.4	1715.9	982.9	556.3	406.8	364.5	363.8	371.7	370.1	360.5	358.2
67.5°	2013.6	1668.2	947.9	538.1	397.1	360.5	362.1	369.4	368.5	358.2	356.5
70°	1886.3	1544.8	872.3	505.3	382.8	353.4	357.3	363.8	362.9	353.4	350.2
72.5°	1699.2	1382.4	786.3	470.4	366.9	343.8	348.6	355.0	353.4	345.4	342.3
75°	1478.7	1198.6	693.2	433.0	347.9	331.0	336.7	342.3	340.6	333.5	328.7
77.5°	1240.7	1009.2	600.8	393.9	327.9	315.1	320.8	326.4	323.1	316.7	313.6
80°	1007.5	826.1	513.3	355.0	304.9	296.9	302.4	304.0	301.7	296.1	292.0
82.5°	803.9	664.6	430.6	316.7	280.1	275.4	279.4	279.4	276.9	271.4	267.4
85°	631.1	530.1	362.1	278.6	255.5	252.3	254.7	252.3	249.1	243.5	240.3
87.5°	497.4	425.0	303.3	245.1	228.3	227.6	228.3	222.9	219.6	214.9	211.7
90°	388.3	333.5	253.1	213.3	203.7	202.9	201.4	195.8	188.6	183.9	181.5
92.5°	303.3	268.2	209.3	182.3	177.4	176.6	174.4	167.2	162.4	155.9	153.6
95°	240.3	214.1	173.6	157.7	155.1	154.4	151.3	143.3	136.9	130.6	128.9
97.5°	188.6	169.5	144.8	135.4	134.4	133.7	129.7	121.0	113.8	107.4	106.7
100°	148.0	136.2	121.0	116.2	116.2	115.4	111.4	102.6	94.0	87.6	86.7
102.5°	117.8	109.9	101.1	99.5	99.5	98.8	94.7	87.6	77.3	70.1	70.1
105°	94.0	89.1	84.4	85.2	86.0	85.2	81.1	72.5	62.2	56.6	56.6
107.5°	75.5	72.5	70.8	72.5	73.2	73.2	69.2	59.6	50.1	45.4	45.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	61.3	59.6	59.6	61.3	62.9	62.9	58.1	50.1	40.7	36.7	36.7
112.5°	50.1	49.3	50.1	53.3	54.1	53.3	49.3	41.4	32.6	30.3	30.3
115°	42.2	42.2	42.9	45.4	46.9	45.4	41.4	33.4	26.3	24.7	24.7
117.5°	35.8	35.8	36.7	38.9	39.7	38.2	34.2	27.0	21.5	20.8	20.8
120°	30.3	30.3	31.0	32.6	33.4	31.8	27.8	22.3	17.4	16.7	17.4
122.5°	26.3	26.3	27.0	27.8	28.7	27.0	23.0	17.4	14.4	14.4	14.4
125°	23.0	23.0	23.0	23.9	23.9	22.3	19.1	14.4	11.1	11.9	11.9
127.5°	19.9	19.9	19.9	19.9	19.9	18.3	15.1	11.1	9.5	10.3	10.3
130°	17.4	17.4	16.7	16.7	15.9	15.1	11.9	8.8	7.9	8.8	8.8
132.5°	15.1	15.1	14.4	13.6	12.8	11.9	9.5	6.4	6.4	7.1	7.1
135°	12.8	12.8	11.9	11.1	10.3	8.8	6.4	4.9	4.9	5.6	5.6
137.5°	10.3	10.3	9.5	8.8	7.1	6.4	4.9	3.1	4.0	4.9	4.9
140°	7.9	7.9	7.1	6.4	4.9	3.1	2.3	2.3	2.3	3.1	3.1
142.5°	6.4	6.4	5.6	4.0	2.3	1.5	0.8	0.8	1.5	2.3	2.3
145°	4.9	4.9	4.0	3.1	1.5	0.8	0.0	0.0	0.8	0.8	0.8
147.5°	4.0	3.1	3.1	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.1	2.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.3	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	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)