

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: P266218

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T3-FL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-29)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-90-D-U-T3-FL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7058.8 lumens
Efficiency: N/A
Efficacy: 75.1 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 - G3

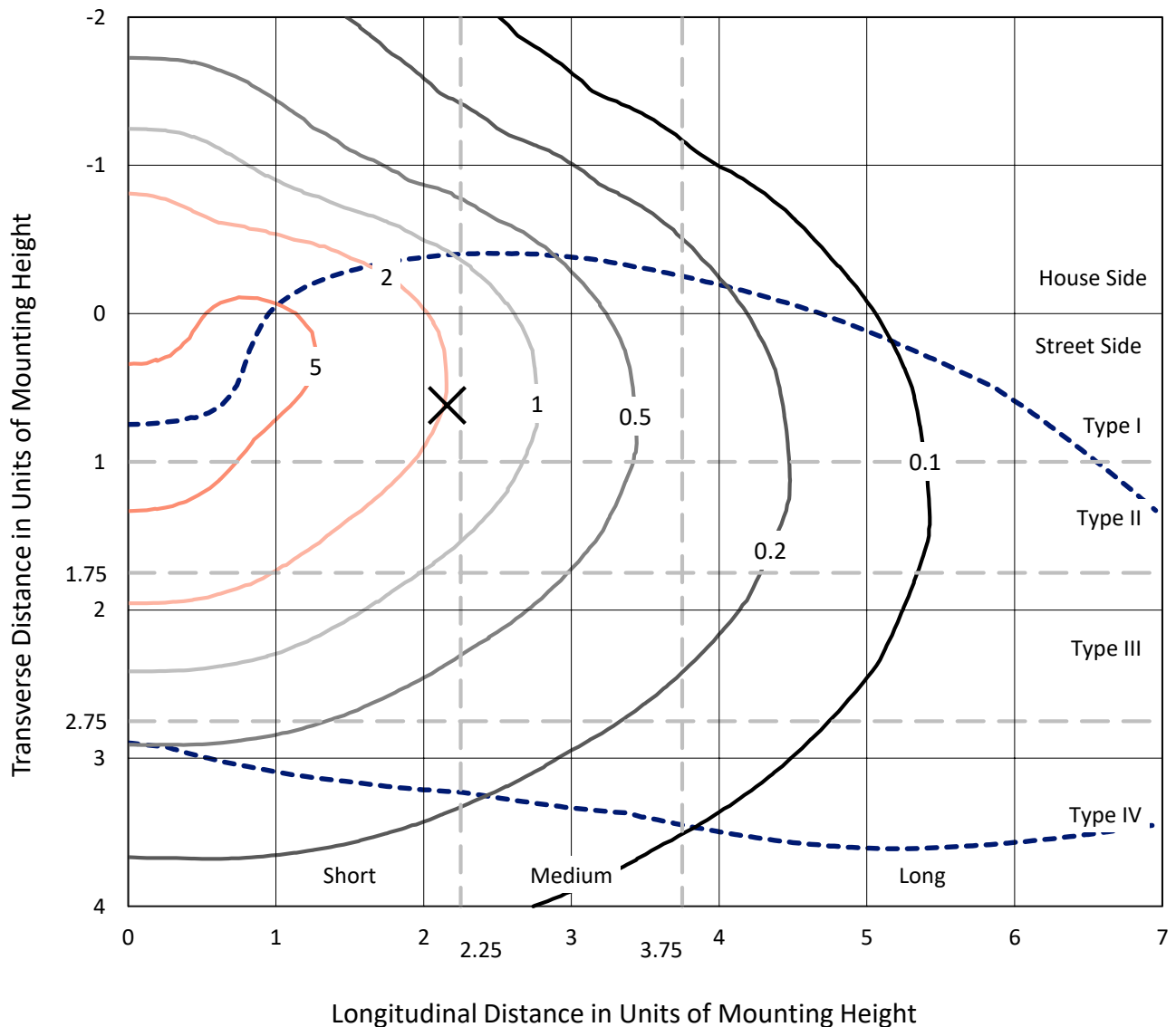
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

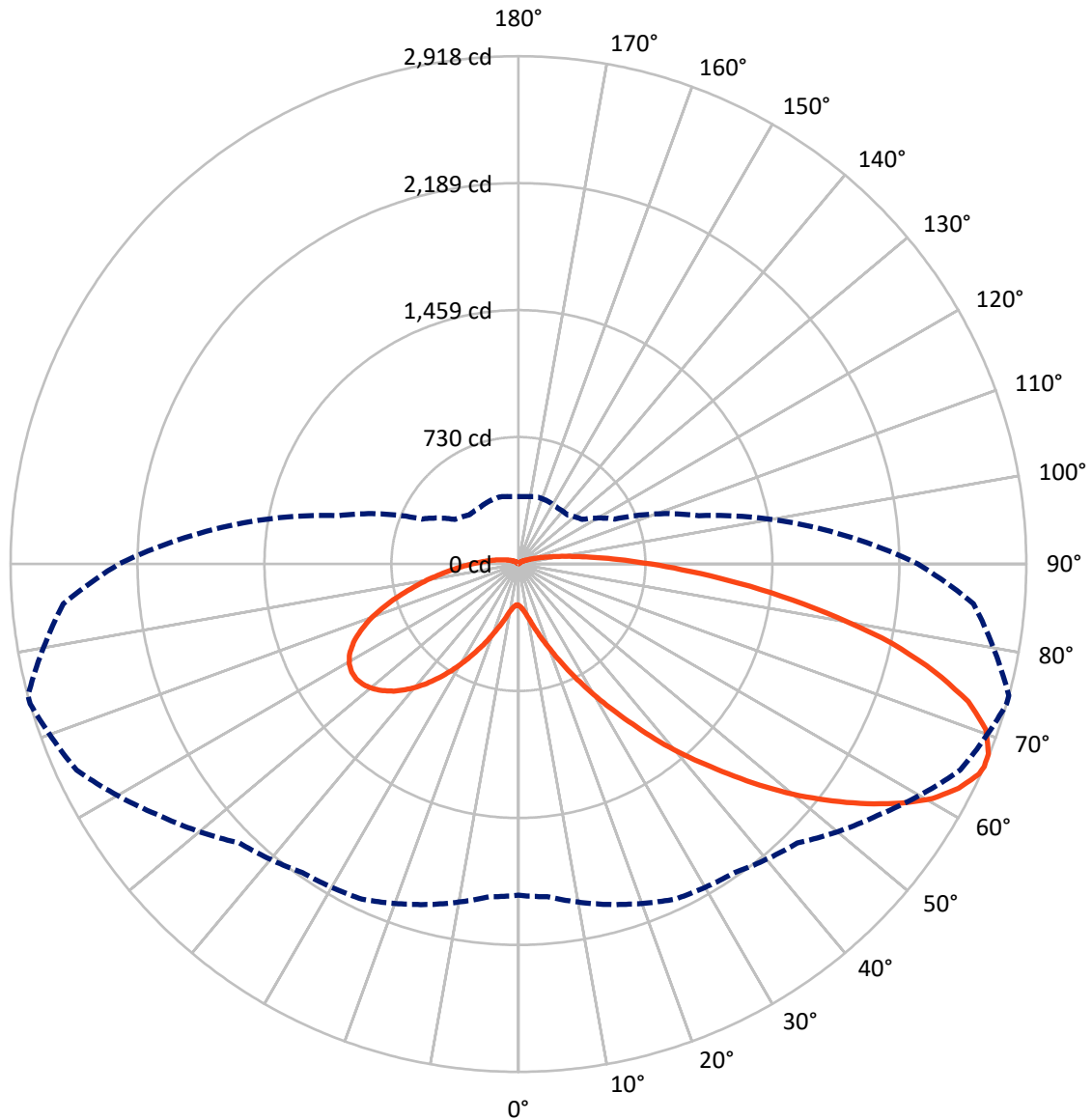


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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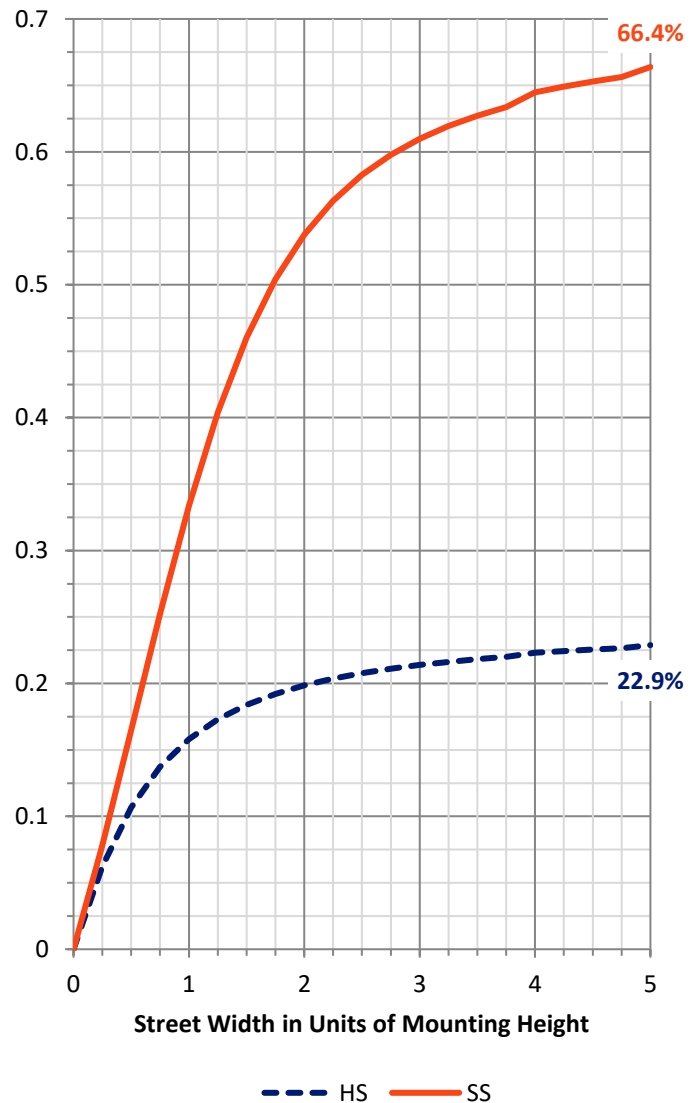
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1697.8	175.5	1873.3
	% Fixture	24.1	2.5	26.5
Street Side	Lumens	4884.5	300.9	5185.5
	% Fixture	69.2	4.3	73.5
Total	Lumens	6582.3	476.5	7058.8
	% Fixture	93.3	6.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	0.4
10°-20°	106.9	1.5
20°-30°	274.2	3.9
30°-40°	555.2	7.9
40°-50°	940.0	13.3
50°-60°	1333.0	18.9
60°-70°	1505.0	21.3
70°-80°	1203.5	17.0
80°-90°	639.3	9.1
90°-100°	269.6	3.8
100°-110°	114.6	1.6
110°-120°	52.9	0.7
120°-130°	25.3	0.4
130°-140°	11.0	0.2
140°-150°	2.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6582.3	93.3
0°-180°	7058.8	100.0

Coefficient of Utilization



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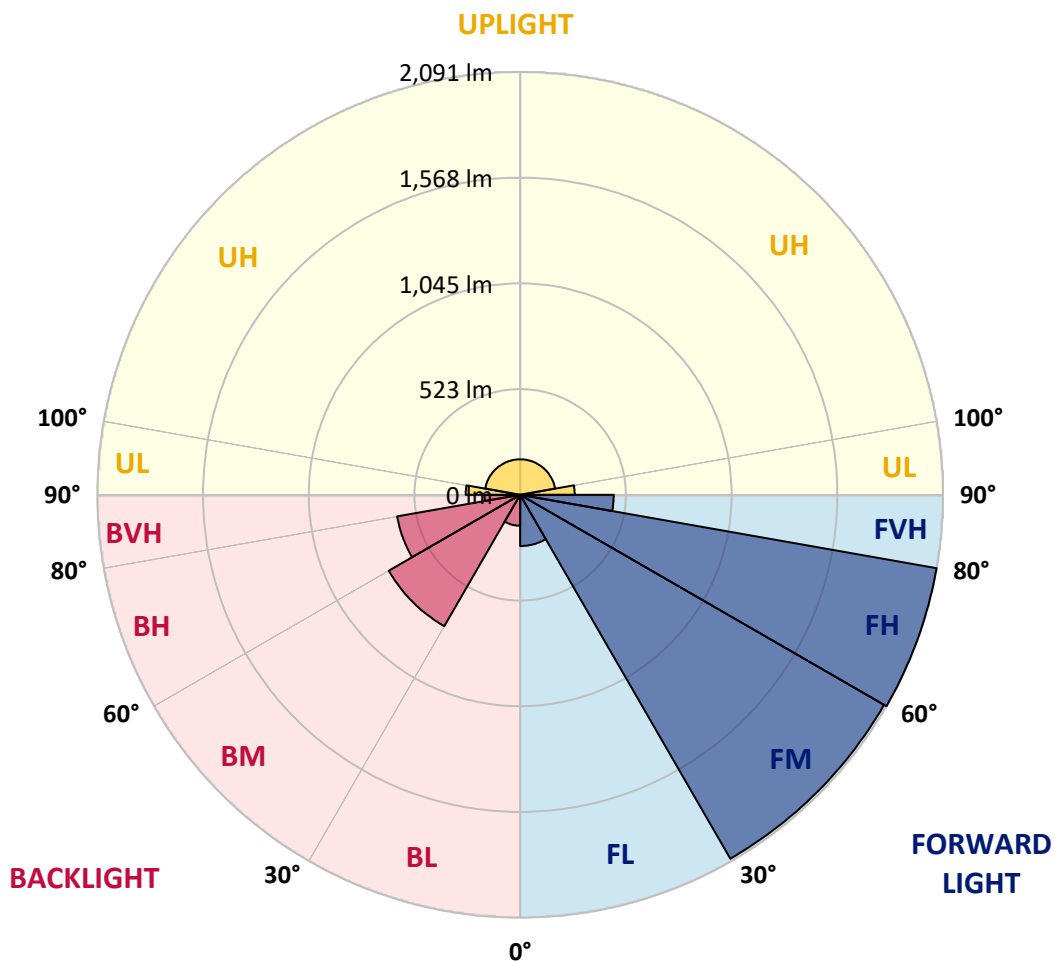
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.3	3.6			
FM	(30°-60°)	2077.7	29.4			
FH	(60°-80°)	2091.0	29.6			G2/5000
FVH	(80°-90°)	462.5	6.6			G3/500
BL	(0°-30°)	153.0	2.2	B1/500		
BM	(30°-60°)	750.6	10.6	B1/1000		
BH	(60°-80°)	617.5	8.7	B2/1000		G2/1000
BVH	(80°-90°)	176.8	2.5			G2/225
UL	(90°-100°)	269.6	3.8		U3/500	
UH	(100°-180°)	175.5	2.5		U3/500	

BUG Rating: B2-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5
2.5°	260.0	261.6	260.0	259.2	257.5	256.6	253.1	248.8	246.2	245.3	242.0
5°	286.6	289.2	287.5	284.9	282.2	278.8	273.8	266.8	261.6	260.9	254.0
7.5°	319.2	322.6	320.1	316.7	312.3	307.2	299.4	290.8	283.1	281.3	272.8
10°	365.5	364.6	361.2	356.1	350.1	344.9	335.4	322.6	313.1	311.4	299.4
12.5°	417.8	417.8	412.7	405.0	396.4	388.6	379.3	364.6	354.3	351.7	337.3
15°	477.0	479.6	471.9	463.3	451.3	440.2	431.5	416.2	404.1	401.5	383.5
17.5°	546.6	547.3	538.9	527.7	513.9	503.6	490.7	474.5	460.7	458.1	435.9
20°	626.4	625.5	615.2	599.8	584.3	574.8	558.6	540.5	525.1	523.4	496.9
22.5°	717.2	710.4	702.7	683.0	670.0	652.1	634.9	614.4	599.8	597.2	568.8
25°	819.3	809.9	802.2	776.5	757.6	736.3	718.1	700.0	688.1	683.0	649.6
27.5°	934.3	928.4	912.9	881.1	852.0	825.5	811.7	794.6	781.6	779.1	744.8
30°	1063.1	1048.5	1032.2	993.5	954.1	918.1	904.4	897.4	888.1	884.7	845.9
32.5°	1191.0	1190.1	1166.0	1117.1	1065.6	1025.3	1012.4	1008.9	1000.4	1001.3	955.0
35°	1341.9	1341.1	1311.0	1251.0	1186.7	1136.8	1128.4	1132.6	1130.0	1129.1	1076.8
37.5°	1502.3	1498.9	1465.5	1392.6	1312.8	1256.1	1250.1	1264.6	1275.9	1268.0	1207.2
40°	1668.0	1670.5	1625.0	1539.2	1445.7	1381.4	1377.9	1411.3	1423.5	1415.6	1343.7
42.5°	1828.4	1826.7	1783.8	1695.5	1580.4	1511.8	1514.4	1558.1	1572.8	1569.2	1489.5
45°	1983.6	1982.0	1943.4	1840.4	1718.5	1643.9	1656.8	1710.1	1738.3	1738.3	1643.1
47.5°	2120.1	2118.5	2085.0	1980.3	1851.5	1776.0	1796.6	1868.7	1915.9	1909.8	1797.5
50°	2231.7	2229.1	2205.9	2109.8	1977.7	1905.7	1940.8	2034.3	2091.9	2078.9	1955.4
52.5°	2302.8	2306.3	2295.1	2214.5	2091.0	2025.8	2079.8	2197.3	2260.9	2255.6	2115.8
55°	2337.2	2338.8	2352.7	2290.0	2182.0	2132.0	2211.8	2354.4	2432.4	2425.6	2270.2
57.5°	2321.0	2326.0	2362.9	2330.4	2244.5	2219.6	2330.4	2499.4	2592.9	2593.8	2406.6
60°	2252.2	2266.0	2322.6	2330.4	2275.3	2276.2	2428.1	2628.0	2735.2	2729.3	2519.9
62.5°	2137.2	2154.4	2236.8	2278.8	2260.0	2301.9	2492.4	2728.4	2838.3	2842.5	2601.4
65°	1978.5	1994.9	2094.4	2178.5	2200.8	2287.4	2520.9	2791.9	2908.6	2907.8	2629.8
66°	1903.0	1919.4	2025.8	2125.3	2164.7	2266.9	2519.0	2801.4	2918.1	2917.2	2625.4
67.5°	1778.6	1796.6	1907.3	2028.4	2093.5	2221.4	2499.4	2796.2	2912.9	2911.1	2597.2
70°	1548.7	1569.2	1692.9	1826.7	1935.7	2103.8	2420.5	2737.9	2849.5	2840.8	2492.4
72.5°	1308.4	1329.9	1453.5	1595.8	1749.4	1948.6	2278.8	2603.2	2703.5	2692.4	2317.4
75°	1073.4	1094.0	1215.8	1360.8	1527.2	1744.2	2079.8	2390.4	2470.2	2469.4	2081.6
77.5°	858.9	876.8	985.8	1130.0	1298.1	1517.7	1835.2	2132.9	2198.2	2181.1	1800.9
80°	673.5	690.6	784.2	913.8	1077.6	1282.7	1567.5	1821.6	1856.6	1846.3	1504.9
82.5°	522.5	537.9	619.6	731.8	879.4	1059.6	1286.2	1507.4	1523.9	1512.7	1218.3
85°	404.1	417.8	487.3	584.3	709.7	858.9	1039.9	1196.9	1212.4	1204.6	962.7
87.5°	313.1	322.6	380.9	462.4	568.0	689.0	824.6	945.6	939.4	931.8	744.8
90°	242.0	251.3	299.4	367.2	453.9	548.2	647.8	729.3	718.1	709.7	571.4
92.5°	187.8	194.8	236.9	293.4	363.9	435.9	506.3	558.6	544.0	537.9	435.9
95°	148.4	153.6	187.0	239.4	293.4	348.4	396.4	433.3	411.9	406.8	332.1
97.5°	119.3	122.7	151.1	193.0	238.5	280.6	313.1	328.6	312.3	307.9	253.1
100°	97.8	99.5	123.5	157.1	193.9	228.2	248.8	255.7	238.5	235.0	193.0
102.5°	80.7	82.4	102.0	132.1	161.2	185.3	198.2	202.5	181.1	178.5	149.3
105°	67.8	68.6	84.9	111.5	135.6	152.7	161.2	157.1	139.9	137.4	116.7
107.5°	58.3	59.2	71.2	95.2	115.0	127.9	132.9	127.0	109.0	106.4	91.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	50.7	50.7	60.9	80.7	97.8	109.0	110.8	101.2	85.8	84.1	73.8
112.5°	44.6	44.6	53.2	69.4	84.1	92.6	92.6	82.4	67.8	67.0	60.0
115°	40.3	40.3	46.4	60.0	72.9	79.8	78.2	67.0	54.8	54.1	49.8
117.5°	36.0	36.0	40.3	51.6	62.6	68.6	66.0	54.8	44.6	43.7	42.0
120°	32.6	32.6	36.0	43.7	54.1	58.3	55.8	45.5	36.9	36.0	35.2
122.5°	30.1	30.1	31.7	38.5	46.4	49.8	47.3	37.8	30.9	30.9	30.1
125°	27.5	27.5	29.1	33.4	39.4	42.8	39.4	30.9	25.7	25.7	26.6
127.5°	25.7	25.7	26.6	29.1	34.3	36.0	32.6	25.7	22.3	22.3	23.1
130°	23.1	23.1	24.1	25.7	28.2	30.1	26.6	21.5	19.8	18.9	19.8
132.5°	21.5	21.5	21.5	22.3	23.1	24.1	21.5	17.2	16.3	16.3	17.2
135°	18.9	19.8	18.9	18.9	18.9	18.9	16.3	13.7	13.7	13.7	14.6
137.5°	17.2	17.2	16.3	15.5	15.5	14.6	12.8	11.1	11.1	11.1	11.9
140°	14.6	14.6	14.6	12.8	11.1	10.3	8.5	8.5	9.4	9.4	10.3
142.5°	11.9	11.9	11.1	10.3	7.7	6.8	6.0	6.0	6.8	6.8	7.7
145°	9.4	9.4	8.5	6.8	5.1	3.5	3.5	3.5	4.3	4.3	5.1
147.5°	6.8	6.8	6.0	4.3	2.5	1.6	1.6	2.5	3.5	3.5	4.3
150°	4.3	4.3	3.5	2.5	0.9	0.0	0.9	1.6	2.5	2.5	3.5
152.5°	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.9	1.6	1.6	2.5
155°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5
2.5°	240.2	238.5	235.0	232.5	229.1	227.5	226.6	224.8	223.9	223.0	223.0
5°	250.5	247.2	241.0	235.0	230.0	224.8	222.2	219.6	217.1	215.4	215.4
7.5°	267.6	262.6	253.1	243.7	235.0	228.2	223.0	219.6	216.2	214.4	213.6
10°	291.7	284.9	271.9	259.2	247.2	236.9	230.0	225.7	222.2	219.6	218.7
12.5°	329.5	319.2	300.4	281.3	262.6	251.3	242.0	239.4	237.6	236.0	237.6
15°	373.2	360.4	337.3	312.3	289.2	271.1	263.5	261.6	260.0	259.2	259.2
17.5°	422.2	408.4	377.5	344.9	316.7	298.5	287.5	284.0	281.3	280.6	279.7
20°	481.3	463.3	423.8	381.8	348.4	328.6	313.1	307.2	304.5	304.5	304.5
22.5°	550.0	526.0	477.0	422.2	383.5	356.1	339.7	330.3	328.6	329.5	328.6
25°	627.1	598.0	535.4	467.6	417.1	382.7	362.0	353.6	350.9	352.7	352.7
27.5°	714.7	681.3	598.0	515.6	448.8	405.9	382.7	375.0	372.3	375.0	375.0
30°	806.5	768.8	663.2	561.1	476.2	424.7	398.9	393.0	390.5	393.0	393.8
32.5°	916.4	859.7	731.8	604.9	502.0	440.2	412.7	407.6	405.0	408.4	408.4
35°	1029.5	960.1	800.5	645.3	522.5	451.3	422.2	417.8	416.2	419.6	419.6
37.5°	1144.6	1069.1	870.8	681.3	537.9	459.0	429.0	425.5	424.7	424.7	425.5
40°	1270.7	1176.3	937.8	710.4	549.1	463.3	433.3	429.0	428.1	427.2	427.2
42.5°	1401.0	1280.2	997.8	732.7	554.3	464.2	433.3	430.6	429.8	426.4	425.5
45°	1534.9	1390.8	1054.5	748.2	556.1	462.4	432.4	429.8	429.0	423.0	422.2
47.5°	1671.3	1497.2	1100.9	755.0	551.6	459.0	429.8	427.2	425.5	416.2	416.2
50°	1806.1	1601.9	1140.3	756.0	544.8	453.0	426.4	425.5	422.2	411.0	409.3
52.5°	1938.3	1700.5	1169.5	749.8	533.7	447.0	423.0	423.0	418.7	406.8	405.0
55°	2062.6	1789.0	1186.7	736.3	520.7	439.4	418.7	419.6	415.2	402.4	400.6
57.5°	2170.8	1861.8	1189.1	715.6	506.3	431.5	414.4	416.2	413.6	398.9	397.2
60°	2257.4	1908.2	1177.1	690.6	489.0	422.2	409.3	412.7	410.2	396.4	395.6
62.5°	2304.6	1926.1	1147.1	659.7	471.9	413.6	402.4	408.4	406.8	393.0	392.1
65°	2308.0	1903.9	1097.4	624.6	453.9	403.2	396.4	401.5	401.5	389.5	388.6
66°	2295.1	1881.6	1072.4	610.8	446.2	398.9	393.0	398.9	399.8	388.6	387.0
67.5°	2254.8	1835.2	1029.5	586.9	434.2	392.1	387.0	393.8	394.6	385.3	382.7
70°	2142.4	1722.1	951.6	547.3	414.4	378.4	375.9	382.7	384.4	376.7	374.1
72.5°	1970.0	1573.7	859.7	504.5	392.1	362.9	362.0	368.9	370.6	363.9	361.2
75°	1752.1	1378.8	758.4	462.4	368.0	345.8	344.9	350.1	352.7	347.5	343.2
77.5°	1503.3	1178.8	658.9	419.6	344.1	326.1	326.1	330.3	331.1	326.1	321.8
80°	1248.4	981.6	568.8	376.7	319.2	303.7	303.7	305.5	306.3	301.1	296.0
82.5°	1008.9	800.5	482.2	335.4	290.8	278.8	277.9	277.9	277.1	272.8	266.8
85°	798.0	642.6	403.2	296.9	263.5	254.0	251.3	248.8	247.2	242.0	236.9
87.5°	623.8	511.3	339.7	260.9	236.0	228.2	224.8	221.3	217.1	211.0	204.3
90°	484.7	405.0	283.1	227.5	208.4	201.6	196.5	191.2	186.2	179.3	175.9
92.5°	375.9	320.1	236.9	195.7	182.7	177.7	172.5	165.6	158.7	151.9	148.4
95°	292.6	254.8	196.5	169.1	159.5	155.2	150.1	142.4	133.8	127.0	124.4
97.5°	228.2	202.5	163.9	145.9	139.9	134.7	129.5	121.8	112.4	104.7	102.9
100°	177.7	161.2	137.4	126.1	121.0	117.6	112.4	104.7	93.6	85.8	84.9
102.5°	140.8	129.5	115.0	109.0	105.6	102.0	96.9	89.2	78.2	69.4	69.4
105°	111.5	104.7	96.9	93.6	91.0	88.4	83.3	75.5	63.5	56.7	56.7
107.5°	90.1	84.9	81.4	79.8	79.0	76.4	72.0	63.5	52.3	46.4	46.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	72.9	70.3	68.6	68.6	67.8	67.0	61.8	53.2	42.8	37.8	38.5
112.5°	60.0	58.3	58.3	59.2	59.2	57.5	52.3	44.6	35.2	31.7	31.7
115°	49.8	48.9	49.8	50.7	51.6	49.8	44.6	36.9	28.2	26.6	26.6
117.5°	42.0	42.0	42.8	43.7	43.7	42.0	37.8	30.9	23.1	22.3	22.3
120°	36.0	36.0	36.0	36.9	37.8	36.0	31.7	25.0	18.9	18.9	18.9
122.5°	30.9	30.9	30.9	31.7	31.7	30.9	26.6	20.7	16.3	16.3	16.3
125°	26.6	26.6	26.6	27.5	27.5	25.7	21.5	17.2	13.7	13.7	13.7
127.5°	23.1	23.1	23.1	23.1	23.1	21.5	18.1	13.7	11.1	11.9	11.9
130°	20.7	20.7	19.8	19.8	18.9	18.1	14.6	11.1	9.4	10.3	10.3
132.5°	17.2	18.1	17.2	16.3	15.5	13.7	11.1	8.5	7.7	8.5	8.5
135°	14.6	15.5	14.6	12.8	11.9	11.1	8.5	6.8	6.8	6.8	6.8
137.5°	12.8	12.8	11.9	10.3	9.4	7.7	6.0	5.1	5.1	6.0	6.0
140°	10.3	10.3	9.4	7.7	6.8	5.1	3.5	3.5	4.3	4.3	4.3
142.5°	7.7	7.7	6.8	5.1	3.5	2.5	1.6	1.6	2.5	3.5	3.5
145°	5.1	5.1	5.1	3.5	2.5	0.9	0.0	0.9	1.6	1.6	1.6
147.5°	4.3	4.3	3.5	2.5	0.9	0.0	0.0	0.0	0.9	0.9	0.9
150°	3.5	3.5	2.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	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

(END OF REPORT)