

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: P255020

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-100-D-U-T2U-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8474 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G3

Input Watts (W): 96
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

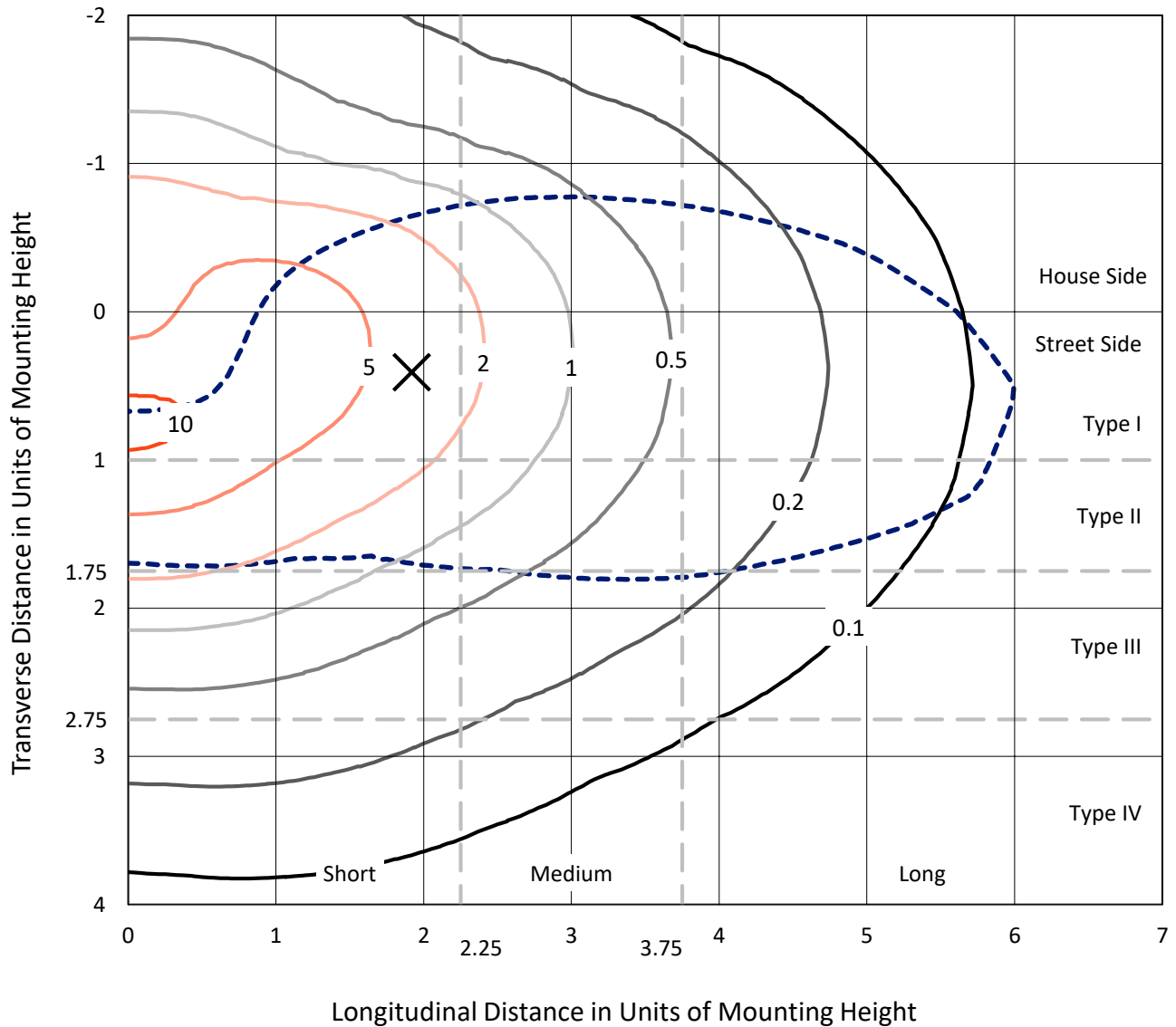


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

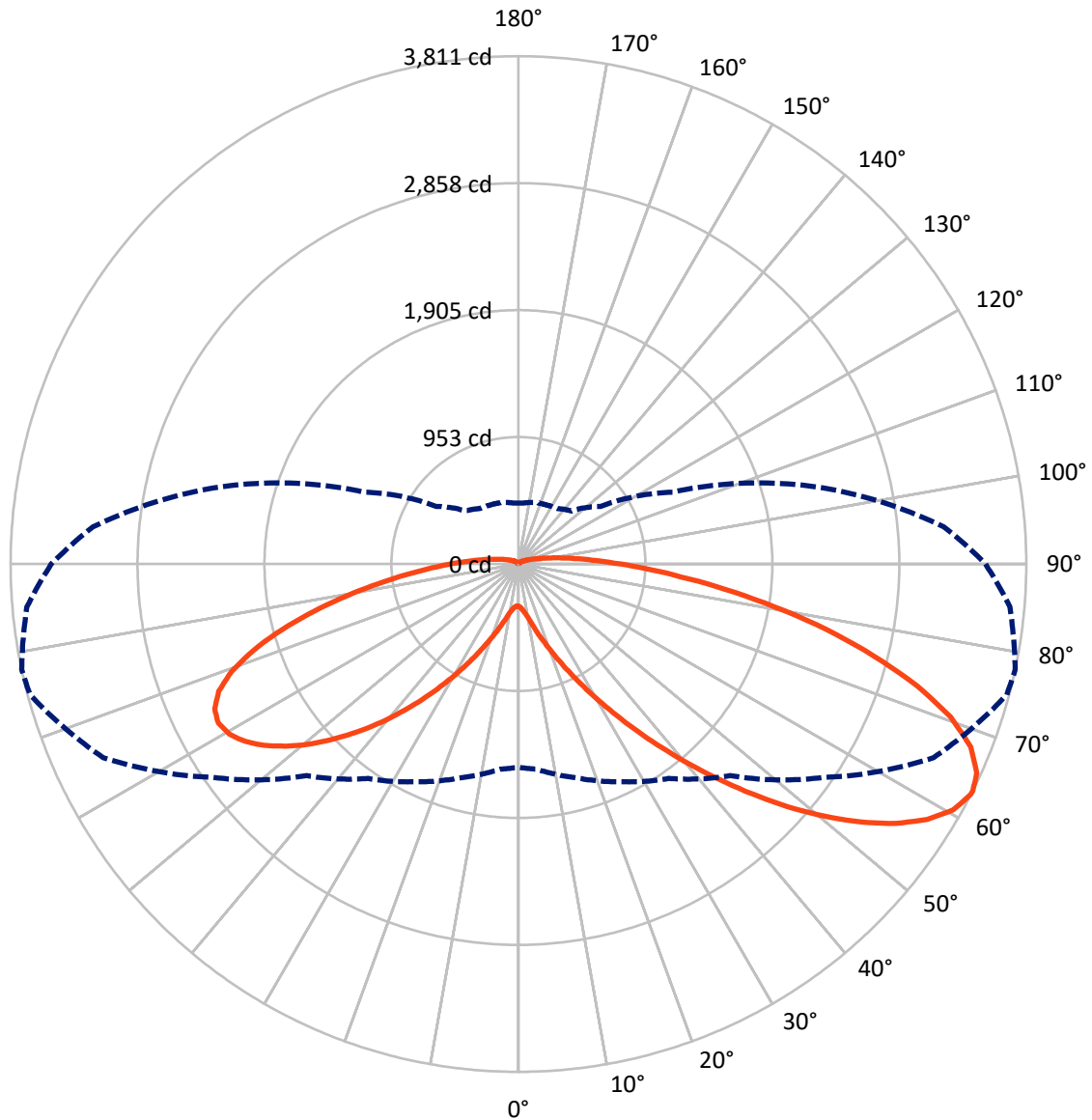


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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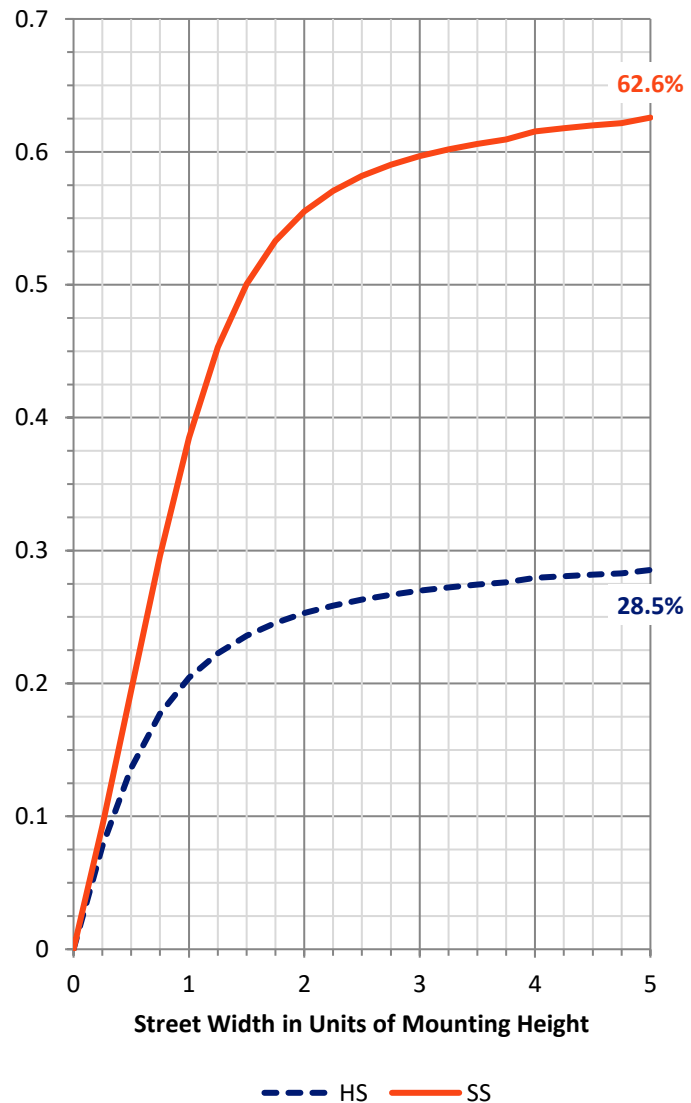
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2517.2	230.1	2747.3
	% Fixture	29.7	2.7	32.4
Street Side	Lumens	5441.8	285.0	5726.8
	% Fixture	64.2	3.4	67.6
Total	Lumens	7959.0	515.0	8474.0
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	0.4
10°-20°	144.3	1.7
20°-30°	377.5	4.5
30°-40°	783.8	9.2
40°-50°	1320.2	15.6
50°-60°	1735.3	20.5
60°-70°	1718.2	20.3
70°-80°	1223.2	14.4
80°-90°	622.6	7.3
90°-100°	270.8	3.2
100°-110°	123.9	1.5
110°-120°	63.0	0.7
120°-130°	33.5	0.4
130°-140°	16.8	0.2
140°-150°	6.0	0.1
150°-160°	1.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7959.0	93.9
0°-180°	8474.0	100.0



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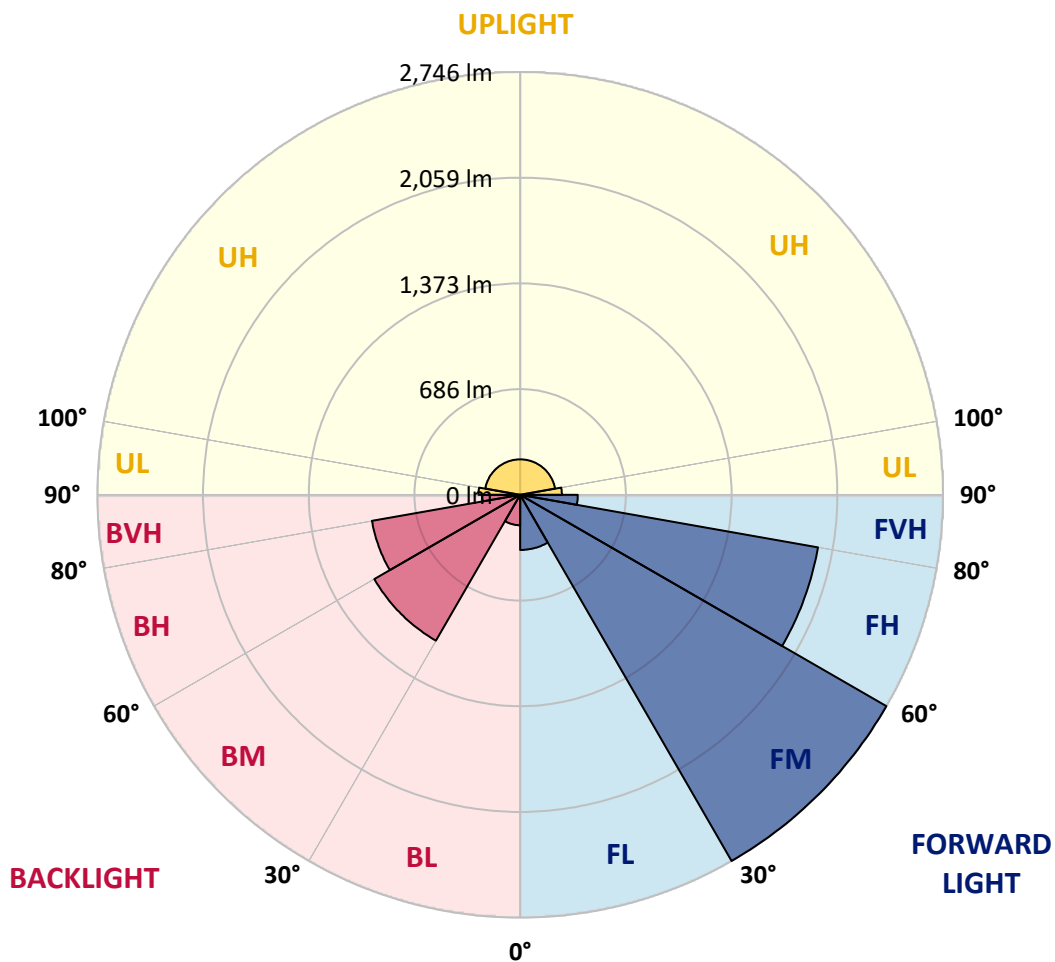
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.2	4.2			
FM (30°-60°)	2745.8	32.4			
FH (60°-80°)	1963.9	23.2			G2/5000
FVH (80°-90°)	373.9	4.4			G3/500
BL (0°-30°)	197.5	2.3	B1/500		
BM (30°-60°)	1093.5	12.9	B2/2500		
BH (60°-80°)	977.5	11.5	B2/1000		G2/1000
BVH (80°-90°)	248.7	2.9			G3/500
UL (90°-100°)	270.8	3.2		U3/500	
UH (100°-180°)	230.1	2.7		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°	78°	85°
0°	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1
2.5°	351.9	352.9	352.9	350.9	348.8	344.7	340.6	335.5	328.4	327.3	322.2
5°	393.8	394.9	393.8	389.7	385.7	378.5	370.3	361.1	348.8	347.8	338.6
7.5°	445.0	446.0	445.0	437.8	430.7	420.4	409.2	395.9	378.5	375.4	363.1
10°	508.4	510.5	507.4	501.2	489.0	473.6	459.3	439.9	421.5	414.3	399.0
12.5°	589.2	589.2	583.1	573.9	558.5	539.1	520.7	497.2	476.7	466.5	450.1
15°	679.2	680.3	672.1	660.8	644.5	614.8	594.3	569.8	544.2	535.0	511.5
17.5°	782.6	784.6	774.4	758.0	735.5	705.8	680.3	651.6	622.0	606.6	582.1
20°	903.3	903.3	892.0	870.5	841.9	809.2	776.4	743.7	711.0	692.5	667.0
22.5°	1040.4	1040.4	1027.1	998.5	957.6	921.7	885.9	849.0	813.2	793.8	761.1
25°	1199.0	1205.1	1179.6	1143.8	1097.7	1047.6	1011.8	968.8	930.0	908.4	872.6
27.5°	1378.0	1381.1	1349.4	1296.2	1236.8	1184.7	1144.8	1105.9	1062.9	1040.4	997.5
30°	1570.3	1564.2	1535.6	1472.1	1394.4	1331.0	1291.1	1255.3	1206.2	1188.8	1141.7
32.5°	1777.0	1772.9	1736.0	1649.1	1565.2	1488.5	1445.5	1423.0	1373.9	1354.5	1304.4
35°	1994.9	1987.7	1943.7	1852.7	1742.2	1658.3	1619.4	1608.2	1563.2	1543.7	1483.4
37.5°	2223.0	2206.6	2151.4	2035.8	1921.2	1832.2	1814.8	1798.4	1768.8	1748.3	1676.7
40°	2405.1	2397.9	2342.7	2222.0	2098.2	2023.5	2012.2	2023.5	1994.9	1971.3	1888.5
42.5°	2552.4	2547.2	2503.3	2384.6	2260.8	2192.3	2204.6	2241.4	2232.2	2208.7	2116.6
45°	2654.7	2649.5	2617.8	2515.5	2402.0	2351.9	2407.1	2474.6	2480.8	2461.3	2352.9
47.5°	2690.5	2687.4	2670.0	2595.3	2508.4	2496.1	2605.6	2711.9	2737.5	2721.2	2598.4
50°	2644.4	2646.5	2652.6	2618.9	2565.7	2600.4	2762.1	2938.1	2993.4	2974.9	2844.0
52.5°	2525.8	2532.9	2562.6	2573.8	2565.7	2654.7	2893.1	3142.7	3236.8	3216.4	3081.3
55°	2343.7	2353.9	2406.1	2464.4	2506.3	2650.6	2974.9	3315.6	3450.6	3436.3	3296.2
57.5°	2104.3	2124.8	2195.4	2298.7	2383.6	2587.1	2998.5	3434.3	3625.5	3615.3	3479.3
60°	1839.4	1856.8	1953.9	2089.0	2211.7	2463.4	2947.3	3485.4	3744.2	3747.3	3618.4
62.5°	1576.5	1595.9	1710.5	1850.6	2007.1	2285.4	2825.6	3454.7	3793.3	3808.7	3697.1
63°	1525.3	1544.8	1659.3	1802.5	1964.2	2245.5	2792.9	3437.3	3793.3	3810.7	3702.3
65°	1326.9	1345.3	1458.8	1608.2	1779.0	2071.6	2634.2	3335.0	3752.4	3779.0	3694.1
67.5°	1095.7	1115.1	1229.7	1377.0	1541.7	1826.1	2384.6	3124.3	3612.2	3660.3	3606.1
70°	900.2	920.7	1025.1	1164.2	1317.7	1576.5	2099.2	2840.9	3387.2	3439.4	3418.9
72.5°	741.6	759.0	861.3	978.0	1115.1	1345.3	1806.6	2499.2	3065.0	3128.4	3140.7
75°	605.6	624.0	714.0	818.4	939.2	1132.5	1523.3	2138.1	2665.9	2753.9	2788.8
77.5°	494.1	511.5	591.3	682.3	784.6	943.3	1262.4	1780.0	2256.7	2363.1	2408.1
80°	403.0	419.4	484.9	567.7	654.7	782.6	1034.3	1434.3	1851.6	1947.8	1994.9
82.5°	327.3	341.7	399.0	471.6	545.2	648.6	843.9	1147.9	1479.3	1560.1	1585.7
85°	263.9	276.2	327.3	390.8	453.2	533.0	682.3	907.4	1157.1	1220.5	1252.2
87.5°	210.7	221.0	267.0	322.2	375.4	448.1	552.4	723.2	895.1	942.2	962.7
90°	170.8	179.0	216.9	263.9	312.0	365.2	448.1	562.6	688.4	722.2	736.5
92.5°	139.1	145.3	179.0	217.9	260.9	308.9	365.2	445.0	529.9	552.4	561.6
95°	116.6	118.7	148.3	182.1	216.9	257.8	298.7	353.9	409.2	424.5	428.6
97.5°	95.1	98.2	123.8	154.5	184.1	214.8	244.5	283.4	318.1	327.3	328.4
100°	81.8	82.9	104.3	132.0	157.5	182.1	203.6	227.1	247.6	250.6	252.7
102.5°	69.6	70.6	89.0	114.6	136.1	156.5	172.9	186.2	194.4	195.4	195.4
105°	60.4	61.4	76.7	99.2	118.7	134.0	147.3	152.4	154.5	153.4	153.4
107.5°	54.2	54.2	67.5	87.0	104.3	117.6	125.8	126.8	123.8	121.7	121.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	48.1	49.1	59.3	77.7	93.1	103.3	109.5	106.4	100.2	98.2	98.2
112.5°	44.0	45.0	52.2	68.5	81.8	92.1	95.1	90.0	81.8	79.8	80.8
115°	40.9	40.9	47.1	60.4	73.7	81.8	82.9	76.7	67.5	66.5	67.5
117.5°	37.8	37.8	41.9	54.2	65.5	72.6	72.6	65.5	57.3	55.2	56.3
120°	35.8	35.8	38.9	48.1	58.3	64.4	63.4	56.3	48.1	48.1	49.1
122.5°	33.8	33.8	35.8	43.0	52.2	57.3	56.3	48.1	40.9	40.9	41.9
125°	31.7	31.7	32.7	38.9	46.0	50.1	49.1	40.9	35.8	35.8	36.8
127.5°	29.7	29.7	30.7	34.8	40.9	44.0	41.9	34.8	31.7	31.7	32.7
130°	28.6	28.6	28.6	30.7	35.8	38.9	35.8	29.7	27.6	27.6	28.6
132.5°	26.6	26.6	26.6	27.6	30.7	32.7	30.7	25.6	24.6	24.6	25.6
135°	25.6	25.6	24.6	24.6	26.6	27.6	24.6	21.5	21.5	21.5	22.5
137.5°	23.5	23.5	22.5	21.5	22.5	22.5	20.5	17.4	18.4	18.4	19.4
140°	21.5	21.5	20.5	18.4	17.4	17.4	15.3	14.3	15.3	15.3	16.4
142.5°	18.4	18.4	17.4	15.3	13.3	12.3	11.3	11.3	12.3	12.3	13.3
145°	15.3	15.3	14.3	12.3	10.2	9.2	8.2	8.2	9.2	9.2	10.2
147.5°	12.3	12.3	11.3	9.2	7.2	5.1	5.1	6.1	7.2	7.2	7.2
150°	10.2	10.2	9.2	7.2	4.1	3.1	2.0	3.1	4.1	4.1	4.1
152.5°	7.2	7.2	6.1	4.1	3.1	1.0	1.0	2.0	3.1	3.1	3.1
155°	4.1	4.1	3.1	2.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
157.5°	2.0	2.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0
162.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1
2.5°	320.2	318.1	313.0	307.9	303.8	300.7	298.7	295.6	294.6	293.6	293.6
5°	333.5	328.4	319.2	310.0	301.8	294.6	288.5	283.4	280.3	278.2	279.3
7.5°	355.0	346.8	333.5	319.2	305.9	295.6	286.4	280.3	275.2	272.1	272.1
10°	388.7	377.5	357.0	336.6	320.2	304.8	293.6	284.4	278.2	275.2	275.2
12.5°	436.8	422.5	393.8	365.2	342.7	322.2	307.9	298.7	296.7	293.6	293.6
15°	494.1	476.7	441.9	405.1	374.4	346.8	334.5	326.3	321.2	317.1	317.1
17.5°	561.6	539.1	495.1	450.1	412.2	383.6	363.1	351.9	345.8	342.7	342.7
20°	639.3	611.7	557.5	501.2	454.2	423.5	395.9	378.5	372.4	369.3	368.3
22.5°	729.4	695.6	630.1	559.6	504.3	463.4	430.7	405.1	397.9	394.9	392.8
25°	836.8	798.9	712.0	626.0	557.5	501.2	461.4	432.7	422.5	419.4	418.4
27.5°	957.6	911.4	805.1	699.7	607.6	535.0	487.9	458.3	445.0	440.9	441.9
30°	1092.6	1038.4	907.4	774.4	656.7	565.7	509.4	477.7	463.4	459.3	459.3
32.5°	1243.0	1171.4	1019.0	853.1	702.8	591.3	527.8	495.1	477.7	474.6	474.6
35°	1408.7	1334.0	1139.7	933.0	743.7	611.7	541.1	508.4	490.0	485.9	485.9
37.5°	1599.0	1500.8	1267.5	1009.8	778.5	627.1	550.3	516.6	498.2	492.0	492.0
40°	1792.3	1678.8	1400.5	1082.4	808.1	636.3	555.5	520.7	503.3	495.1	494.1
42.5°	2004.1	1861.9	1536.6	1148.9	828.6	641.4	556.5	523.8	505.3	495.1	493.1
45°	2224.0	2070.6	1662.4	1206.2	843.9	641.4	555.5	522.7	505.3	492.0	490.0
47.5°	2446.0	2272.1	1793.3	1254.2	851.1	638.3	553.4	521.7	504.3	487.9	485.9
50°	2677.2	2473.6	1917.1	1292.1	850.1	632.2	548.3	518.6	500.2	482.8	480.8
52.5°	2894.1	2658.8	2030.7	1318.7	843.9	623.0	542.2	515.6	497.2	477.7	475.7
55°	3104.9	2845.0	2128.9	1333.0	830.6	611.7	536.0	511.5	494.1	472.6	471.6
57.5°	3274.7	3001.5	2205.6	1332.0	811.2	597.4	528.9	506.4	490.0	469.5	467.5
60°	3413.8	3127.4	2254.7	1316.6	787.7	583.1	520.7	500.2	485.9	465.4	462.4
62.5°	3495.6	3197.9	2267.0	1283.9	759.0	566.7	509.4	491.0	478.7	460.3	457.3
63°	3504.8	3204.1	2263.9	1275.7	752.9	562.6	507.4	490.0	477.7	459.3	456.2
65°	3501.8	3202.0	2234.2	1233.8	726.3	546.3	497.2	480.8	470.6	453.2	450.1
67.5°	3422.0	3124.3	2150.3	1164.2	687.4	524.8	480.8	467.5	457.3	441.9	438.8
70°	3249.1	2958.6	2009.2	1077.3	644.5	500.2	460.3	450.1	439.9	425.5	421.5
72.5°	2993.4	2714.0	1819.9	984.2	599.4	471.6	437.8	427.6	419.4	407.1	400.0
75°	2659.8	2404.0	1601.0	879.7	550.3	441.9	410.2	402.0	391.8	380.5	374.4
77.5°	2272.1	2050.1	1369.8	772.3	500.2	408.2	380.5	371.3	362.1	349.8	341.7
80°	1880.3	1694.1	1140.7	668.0	450.1	372.4	347.8	339.6	328.4	315.1	306.9
82.5°	1507.9	1362.7	933.0	571.8	401.0	336.6	314.0	303.8	291.5	278.2	273.1
85°	1177.5	1071.1	751.9	484.9	352.9	300.7	280.3	270.1	254.7	239.4	233.2
87.5°	908.4	830.6	603.5	408.2	308.9	266.0	245.5	233.2	218.9	203.6	198.5
90°	696.6	643.4	482.8	343.7	269.0	231.2	214.8	203.6	187.2	171.9	167.8
92.5°	534.0	498.2	387.7	289.5	230.2	202.5	188.2	175.9	159.6	144.2	141.2
95°	410.2	386.7	313.0	242.4	199.5	177.0	164.7	151.4	135.0	120.7	117.6
97.5°	318.1	301.8	252.7	204.6	172.9	154.5	144.2	130.9	114.6	101.3	99.2
100°	246.5	236.3	205.6	171.9	150.4	135.0	124.8	113.5	98.2	83.9	83.9
102.5°	192.3	186.2	168.8	147.3	130.9	119.7	110.5	98.2	82.9	71.6	70.6
105°	152.4	149.4	139.1	125.8	114.6	105.4	97.2	84.9	70.6	60.4	60.4
107.5°	121.7	120.7	115.6	107.4	100.2	93.1	85.9	73.7	60.4	52.2	52.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	99.2	99.2	97.2	92.1	88.0	81.8	74.7	64.4	51.1	45.0	45.0
112.5°	81.8	82.9	81.8	79.8	77.7	72.6	66.5	55.2	44.0	39.9	39.9
115°	68.5	69.6	69.6	69.6	68.5	64.4	58.3	48.1	37.8	34.8	34.8
117.5°	58.3	59.3	60.4	60.4	59.3	56.3	51.1	41.9	32.7	30.7	31.7
120°	50.1	51.1	52.2	53.2	52.2	50.1	44.0	35.8	28.6	27.6	27.6
122.5°	44.0	45.0	45.0	46.0	46.0	44.0	38.9	30.7	24.6	24.6	24.6
125°	37.8	38.9	39.9	39.9	40.9	37.8	32.7	25.6	21.5	21.5	22.5
127.5°	33.8	33.8	33.8	34.8	34.8	32.7	28.6	21.5	18.4	19.4	19.4
130°	29.7	29.7	30.7	30.7	30.7	28.6	23.5	18.4	16.4	17.4	17.4
132.5°	25.6	26.6	26.6	25.6	25.6	24.6	19.4	15.3	14.3	15.3	15.3
135°	22.5	23.5	23.5	21.5	21.5	19.4	16.4	12.3	13.3	13.3	14.3
137.5°	19.4	20.5	19.4	18.4	17.4	16.4	13.3	10.2	11.3	12.3	12.3
140°	16.4	16.4	16.4	15.3	14.3	12.3	10.2	8.2	10.2	10.2	10.2
142.5°	13.3	13.3	13.3	12.3	10.2	9.2	7.2	7.2	8.2	8.2	8.2
145°	10.2	10.2	10.2	9.2	7.2	6.1	5.1	5.1	6.1	7.2	7.2
147.5°	7.2	7.2	7.2	6.1	4.1	3.1	3.1	4.1	5.1	5.1	5.1
150°	5.1	5.1	5.1	4.1	3.1	2.0	2.0	3.1	3.1	4.1	4.1
152.5°	3.1	4.1	4.1	3.1	2.0	1.0	1.0	2.0	2.0	2.0	2.0
155°	2.0	2.0	3.1	2.0	2.0	1.0	0.0	0.0	1.0	1.0	1.0
157.5°	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	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)