

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: P266178

Luminaire Tested: **LXF.LXT-AF24-80-D-U-SL3-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-36)
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-SL3-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6386.5 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

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

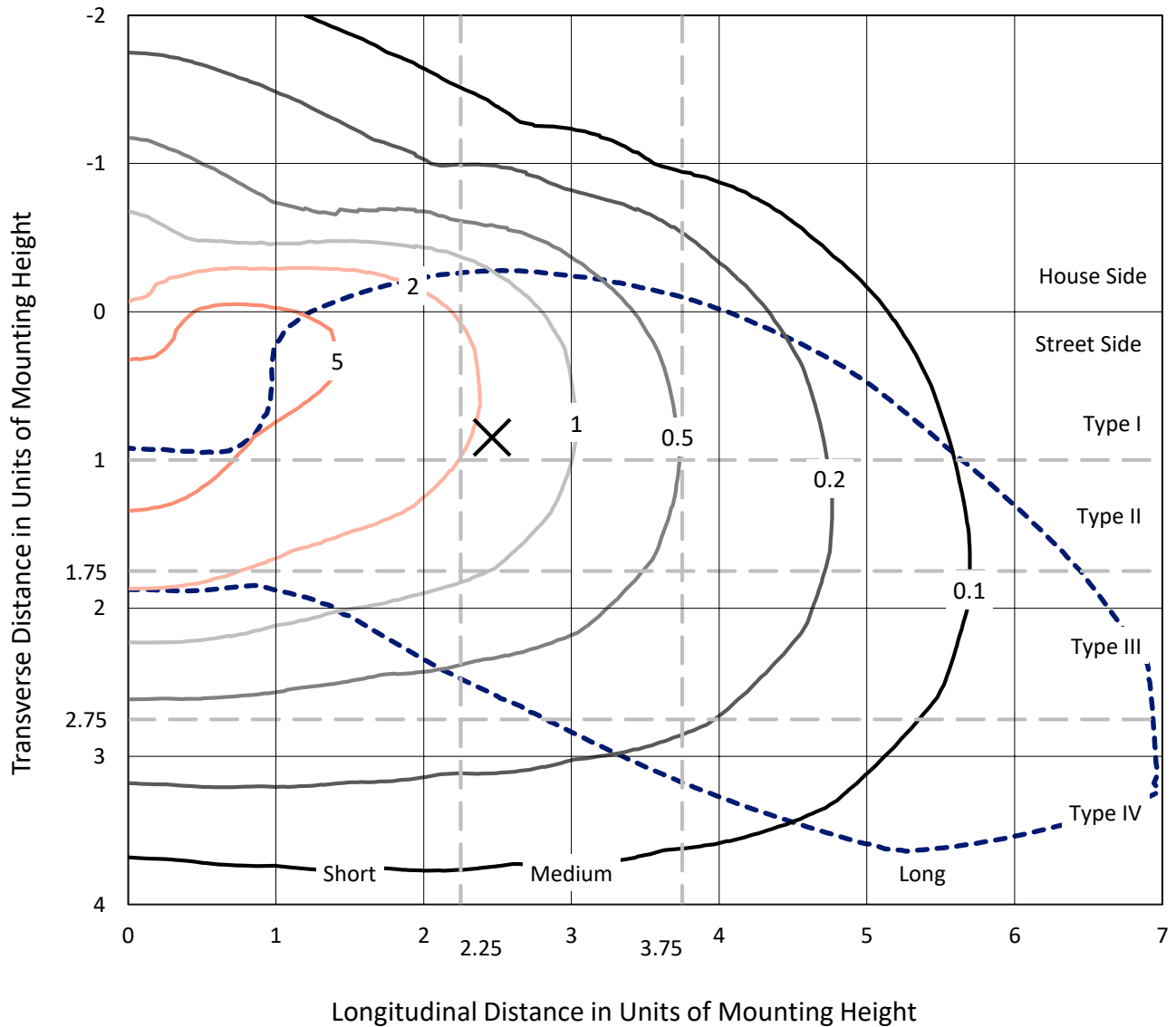


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

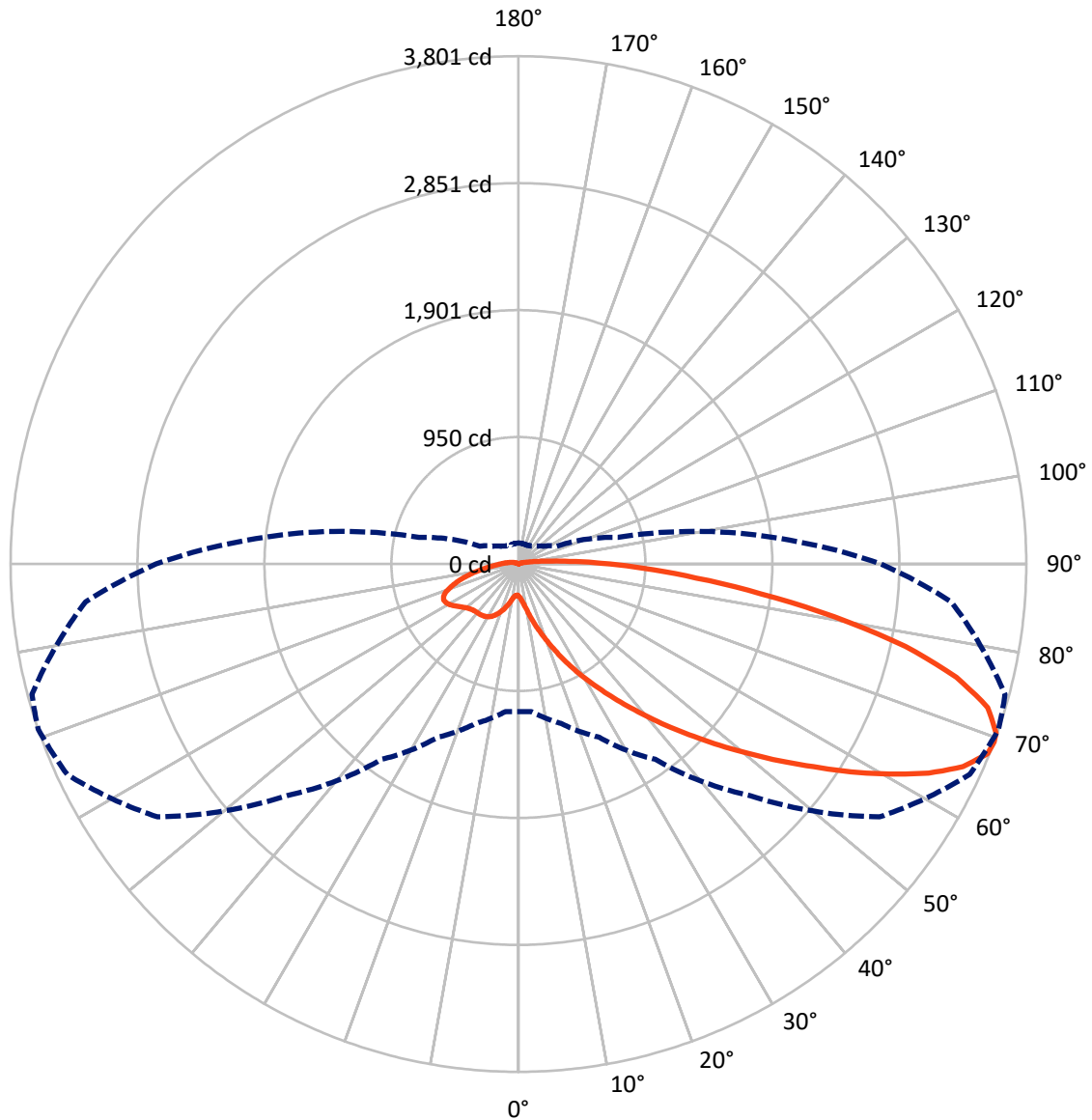


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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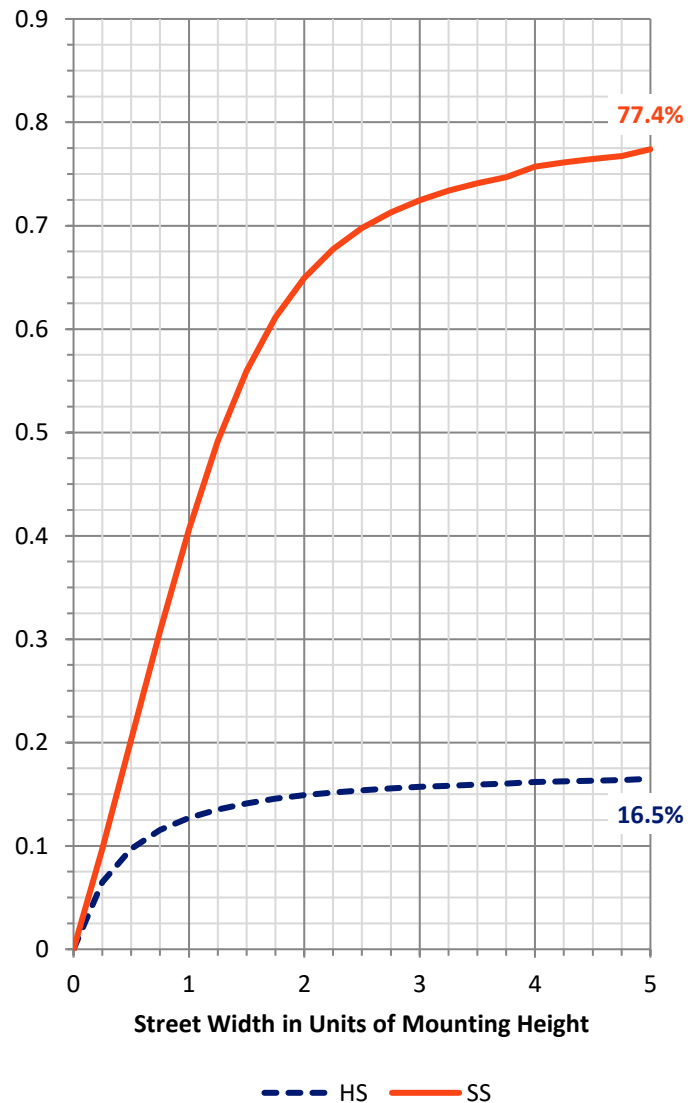
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1097.2	81.5	1178.7
	% Fixture	17.2	1.3	18.5
Street Side	Lumens	5081.6	126.2	5207.7
	% Fixture	79.6	2.0	81.5
Total	Lumens	6178.8	207.7	6386.5
	% Fixture	96.7	3.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	0.4
10°-20°	104.0	1.6
20°-30°	251.2	3.9
30°-40°	489.1	7.7
40°-50°	837.0	13.1
50°-60°	1249.0	19.6
60°-70°	1502.0	23.5
70°-80°	1201.8	18.8
80°-90°	519.5	8.1
90°-100°	139.6	2.2
100°-110°	42.9	0.7
110°-120°	16.3	0.3
120°-130°	6.0	0.1
130°-140°	2.3	0.0
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6178.8	96.7
0°-180°	6386.5	100.0

Coefficient of Utilization



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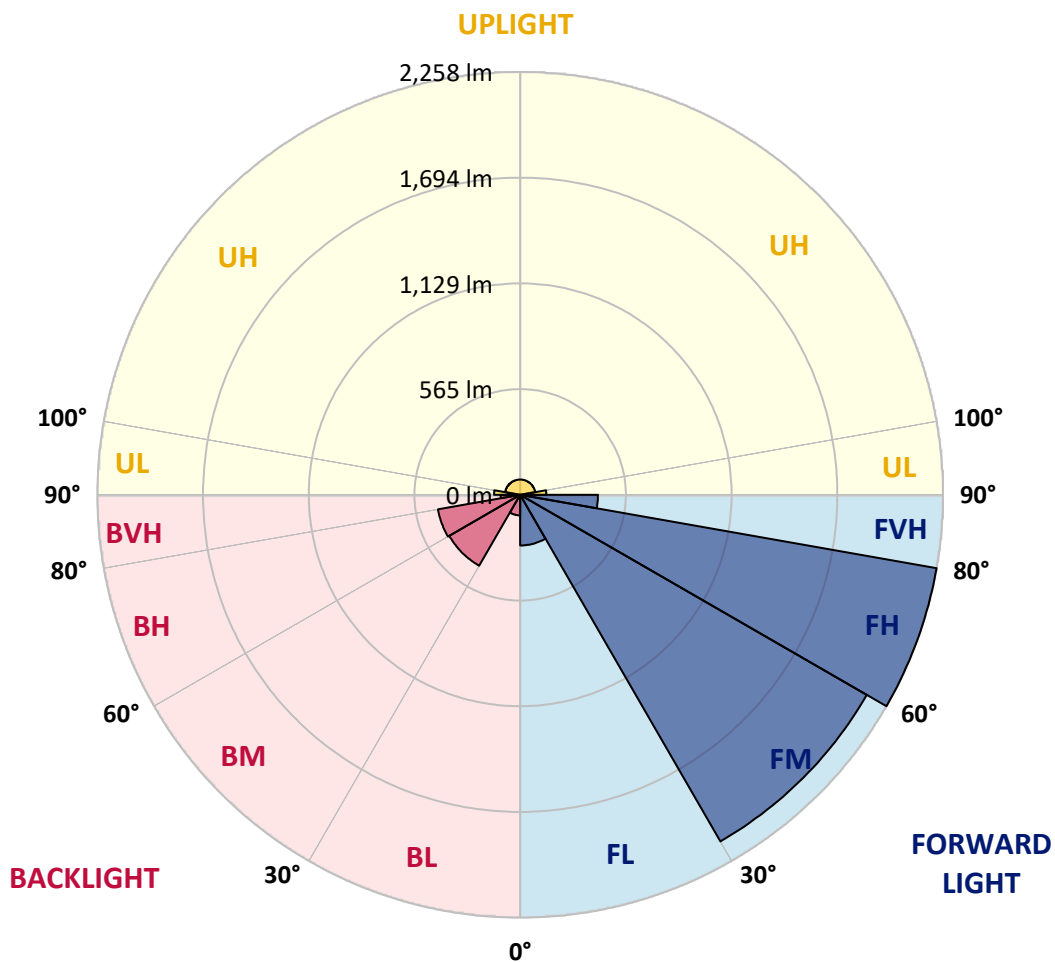
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.5	4.2			
FM	(30°-60°)	2137.5	33.5			
FH	(60°-80°)	2258.3	35.4			G2/5000
FVH	(80°-90°)	415.3	6.5			G3/500
BL	(0°-30°)	109.8	1.7	B0/110		
BM	(30°-60°)	437.6	6.9	B1/1000		
BH	(60°-80°)	445.5	7.0	B1/500		G1/500
BVH	(80°-90°)	104.2	1.6			G2/225
UL	(90°-100°)	139.6	2.2		U3/500	
UH	(100°-180°)	81.5	1.3		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	239.6	239.6	239.6	239.6	239.6	239.6	239.6	239.6	239.6	239.6	239.6
2.5°	271.4	271.4	270.6	271.4	267.3	265.8	261.0	256.2	253.1	252.2	245.1
5°	303.2	303.2	302.4	302.4	297.6	294.5	288.0	280.1	276.1	272.9	261.0
7.5°	339.7	339.0	338.2	339.0	335.1	327.9	322.3	311.9	307.9	301.7	286.5
10°	384.4	382.8	383.5	381.2	374.9	371.5	366.1	354.9	350.2	345.4	327.9
12.5°	438.6	438.6	436.8	432.2	425.7	424.2	421.8	415.3	409.1	402.7	377.9
15°	499.0	497.4	495.0	488.6	483.1	479.9	483.1	479.1	474.2	466.3	437.7
17.5°	568.2	565.0	561.0	553.0	544.4	545.9	549.1	545.9	539.5	537.1	503.0
20°	644.7	643.7	635.8	622.3	614.4	609.6	618.4	622.3	616.7	614.4	575.4
22.5°	735.4	729.8	719.5	702.7	688.5	680.3	690.0	704.4	702.7	699.5	658.1
25°	841.2	832.4	822.0	792.7	768.7	755.2	768.7	788.6	796.5	793.5	744.9
27.5°	959.7	947.8	931.1	896.9	857.9	830.8	849.8	876.1	896.1	897.6	838.7
30°	1088.7	1078.2	1056.0	1005.9	950.9	917.6	932.7	972.4	1000.4	1001.9	937.4
32.5°	1235.9	1224.7	1180.2	1126.8	1056.0	1009.9	1025.0	1076.7	1110.1	1121.3	1044.9
35°	1394.2	1382.3	1344.9	1261.3	1169.9	1110.1	1126.8	1191.3	1231.8	1248.6	1159.5
37.5°	1563.0	1543.1	1500.1	1406.9	1303.5	1227.2	1235.1	1310.6	1366.4	1387.9	1287.6
40°	1727.7	1719.7	1661.7	1552.6	1427.6	1344.9	1352.0	1440.4	1510.4	1535.2	1424.5
42.5°	1896.4	1878.0	1823.2	1696.5	1559.0	1469.1	1486.5	1586.0	1671.9	1699.1	1567.7
45°	2057.1	2041.2	1971.2	1836.8	1693.5	1603.6	1628.2	1751.5	1840.6	1876.5	1730.9
47.5°	2202.7	2182.1	2111.2	1965.6	1825.5	1745.1	1776.9	1923.5	2027.7	2069.1	1913.8
50°	2307.8	2291.0	2218.6	2076.3	1946.4	1893.9	1952.8	2110.5	2228.2	2283.9	2112.9
52.5°	2354.0	2346.1	2276.8	2148.7	2051.5	2041.9	2150.3	2311.8	2445.5	2505.9	2325.4
55°	2337.3	2325.4	2286.4	2183.7	2131.9	2186.0	2357.2	2541.8	2678.7	2744.0	2553.7
57.5°	2242.6	2234.7	2231.4	2166.9	2178.8	2323.7	2561.6	2799.6	2934.1	2986.7	2782.1
60°	2081.8	2077.1	2109.7	2106.4	2190.8	2435.9	2777.3	3072.6	3191.9	3252.5	3005.6
62.5°	1842.2	1853.5	1928.2	1992.7	2151.8	2510.8	2974.6	3321.7	3446.5	3490.4	3179.2
65°	1562.2	1582.1	1682.3	1813.6	2061.9	2541.8	3153.0	3538.2	3657.4	3673.3	3289.9
67.5°	1251.0	1282.8	1402.2	1584.4	1907.6	2513.1	3265.2	3683.7	3787.3	3767.3	3299.4
69°	1104.6	1108.6	1235.1	1430.8	1784.9	2451.8	3299.4	3726.7	3801.4	3770.5	3252.5
70°	997.1	1003.4	1128.5	1330.6	1694.3	2392.1	3298.5	3737.0	3793.5	3745.0	3207.0
72.5°	738.4	762.4	886.4	1095.0	1461.1	2186.0	3191.9	3679.7	3674.2	3586.7	2964.3
75°	536.4	556.3	675.6	881.7	1230.3	1914.6	2930.1	3442.7	3387.7	3275.5	2593.4
77.5°	382.8	388.3	494.2	693.1	1015.4	1602.8	2529.8	3019.3	2961.9	2794.1	2124.0
80°	258.6	263.5	350.2	524.4	817.3	1317.0	2082.6	2474.9	2398.6	2216.3	1612.3
82.5°	167.2	175.9	244.2	385.2	639.9	1062.3	1644.8	1917.1	1829.6	1666.4	1185.8
85°	117.0	119.4	169.5	278.6	480.7	822.0	1249.5	1426.9	1336.1	1201.7	827.6
87.5°	78.1	80.4	119.4	202.1	350.2	601.7	907.9	1012.3	934.2	826.0	551.5
90°	49.3	53.3	82.7	144.1	252.2	420.1	627.8	678.0	622.3	534.0	342.2
92.5°	35.0	36.7	58.1	103.5	179.0	288.0	409.8	429.7	382.0	323.8	206.9
95°	23.9	25.4	42.2	74.0	128.9	194.2	261.0	261.9	223.6	191.0	131.3
97.5°	17.4	19.1	31.8	54.8	92.3	132.9	166.4	157.6	134.4	117.0	91.4
100°	14.4	15.1	25.4	42.2	66.8	94.0	109.1	98.6	86.7	78.1	66.8
102.5°	11.9	12.8	21.5	34.2	50.1	66.8	74.0	66.0	58.8	54.1	50.1
105°	10.3	11.1	18.2	28.7	40.7	49.3	52.6	46.9	42.9	39.7	37.4
107.5°	9.5	10.3	15.9	24.7	33.4	39.7	41.4	35.8	31.8	28.7	27.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
110°	8.8	9.5	14.4	21.5	28.7	33.4	32.6	27.8	23.0	19.9	19.9
112.5°	7.9	8.8	12.8	19.1	24.7	27.8	27.0	20.8	16.7	14.4	14.4
115°	7.1	7.9	11.1	16.7	21.5	23.0	21.5	15.9	11.9	9.5	11.1
117.5°	6.4	7.1	9.5	14.4	18.2	19.1	16.7	11.9	8.8	7.1	7.9
120°	6.4	6.4	8.8	11.9	15.1	15.9	13.6	8.8	6.4	5.6	6.4
122.5°	5.6	6.4	7.9	10.3	12.8	12.8	10.3	6.4	4.9	4.9	5.6
125°	5.6	5.6	6.4	8.8	10.3	10.3	7.9	4.9	4.0	4.9	5.6
127.5°	4.9	5.6	6.4	7.9	8.8	8.8	6.4	4.0	4.0	4.0	4.9
130°	4.9	4.9	5.6	6.4	7.1	6.4	4.9	3.1	3.1	4.0	4.9
132.5°	4.9	4.9	4.9	5.6	6.4	4.9	3.1	3.1	3.1	3.1	4.9
135°	4.0	4.0	4.0	4.9	4.9	3.1	2.3	2.3	3.1	3.1	4.0
137.5°	3.1	3.1	3.1	3.1	3.1	2.3	1.5	2.3	2.3	3.1	4.0
140°	2.3	2.3	2.3	2.3	2.3	0.8	1.5	1.5	2.3	2.3	3.1
142.5°	1.5	1.5	1.5	2.3	1.5	0.8	0.8	1.5	2.3	2.3	3.1
145°	0.8	0.8	1.5	1.5	0.8	0.0	0.8	1.5	1.5	2.3	2.3
147.5°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.8	1.5	1.5	2.3
150°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.5	1.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	239.6	239.6	239.6	239.6	239.6	239.6	239.6	239.6	239.6	239.6	239.6
2.5°	242.7	240.3	234.7	229.2	223.6	219.6	216.4	215.7	213.3	210.9	211.7
5°	255.5	249.9	240.3	228.3	217.3	207.7	200.5	194.2	190.3	185.4	186.2
7.5°	278.6	269.9	253.1	233.2	214.9	199.8	185.4	177.4	171.0	168.0	167.2
10°	313.6	301.7	273.8	245.1	217.3	194.9	177.4	167.2	160.7	156.8	156.8
12.5°	362.8	345.4	305.7	264.2	226.1	195.8	175.1	164.7	158.5	155.9	155.9
15°	417.1	393.9	340.5	284.1	234.7	198.2	175.9	164.7	159.2	156.8	155.9
17.5°	477.4	446.5	374.9	300.8	242.0	202.9	176.6	164.7	159.2	157.6	156.8
20°	542.8	503.7	409.8	316.7	247.6	203.7	175.9	163.9	160.0	159.2	159.2
22.5°	616.0	565.0	443.3	330.2	250.6	201.3	173.6	163.1	160.7	161.5	161.5
25°	692.4	628.6	475.2	338.2	247.6	195.8	171.0	163.1	162.4	164.7	164.7
27.5°	773.5	692.4	503.0	343.8	241.1	187.8	167.2	163.1	163.9	167.2	167.2
30°	858.7	757.6	526.9	343.1	233.2	181.5	164.7	162.4	165.5	170.3	170.3
32.5°	948.6	825.3	546.7	338.2	223.6	176.6	162.4	163.1	168.0	173.6	174.4
35°	1040.9	889.0	562.6	328.7	214.9	172.7	162.4	164.7	170.3	176.6	177.4
37.5°	1143.5	960.5	576.9	319.8	208.4	171.0	163.1	165.5	171.8	179.0	180.6
40°	1254.2	1038.5	587.3	308.7	203.7	171.8	164.7	167.2	172.7	180.6	182.3
42.5°	1371.9	1118.1	598.5	300.0	199.8	172.7	167.2	168.0	173.6	182.3	183.9
45°	1505.6	1207.2	611.1	292.0	199.0	175.9	168.7	168.0	172.7	183.9	184.6
47.5°	1658.5	1318.6	630.3	286.5	199.0	178.3	170.3	168.0	171.8	183.9	185.4
50°	1825.5	1435.6	653.3	284.9	201.3	181.5	171.8	168.0	171.0	180.6	182.3
52.5°	2003.0	1567.7	684.4	285.8	204.5	183.9	173.6	167.2	168.7	175.9	176.6
55°	2200.4	1708.5	719.5	290.4	209.2	186.9	174.4	165.5	165.5	170.3	170.3
57.5°	2393.8	1855.0	757.6	296.0	215.7	190.3	174.4	163.9	163.1	166.4	166.4
60°	2572.8	1977.6	795.0	303.2	221.3	191.8	173.6	162.4	160.7	163.1	163.9
62.5°	2722.5	2077.1	818.0	311.2	226.1	192.5	171.8	160.7	159.2	161.5	161.5
65°	2787.7	2124.9	822.8	316.7	230.8	191.8	169.5	158.5	157.6	159.2	160.0
67.5°	2776.5	2097.7	799.9	317.6	232.4	191.0	167.2	155.9	155.9	157.6	157.6
69°	2712.9	2039.6	770.3	315.9	232.4	188.6	164.7	154.4	155.1	156.8	156.8
70°	2652.3	1977.6	741.7	311.9	231.6	186.9	162.4	152.8	154.4	155.9	155.9
72.5°	2420.0	1774.6	666.1	299.2	225.2	181.5	157.6	148.0	151.3	154.4	153.6
75°	2083.3	1504.8	576.9	279.4	214.9	173.6	151.3	142.4	147.2	151.3	150.3
77.5°	1676.7	1203.2	483.8	256.2	202.1	163.1	143.2	136.1	141.7	146.5	145.6
80°	1275.7	923.9	393.1	230.8	185.4	152.1	134.4	128.1	135.3	139.2	138.5
82.5°	932.7	675.6	308.7	205.4	169.5	140.0	124.1	119.4	126.5	130.6	128.9
85°	647.0	471.9	238.7	177.4	152.1	126.5	112.9	109.9	116.2	119.4	117.8
87.5°	427.4	318.3	184.6	153.6	135.3	113.7	102.6	99.5	105.8	107.4	106.5
90°	271.4	213.3	146.5	132.1	119.4	101.1	91.4	89.9	94.7	95.5	93.2
92.5°	173.6	146.5	118.5	113.7	104.3	89.9	81.9	79.6	83.5	83.5	81.1
95°	120.2	109.1	97.0	97.8	90.6	78.8	71.7	70.8	72.5	70.8	70.1
97.5°	86.7	82.7	80.4	83.5	78.8	68.5	62.9	61.3	62.1	59.6	58.8
100°	66.0	65.2	66.8	70.1	66.8	58.8	54.1	53.3	52.6	48.6	48.6
102.5°	50.9	50.9	54.8	59.6	56.6	50.1	46.9	45.4	42.9	38.9	38.2
105°	38.9	39.7	45.4	49.3	47.7	42.2	39.7	37.4	34.2	30.3	30.3
107.5°	29.5	31.0	36.7	40.7	38.9	35.0	32.6	30.3	27.0	23.0	23.9



REPORT NUMBER: P266178

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	22.3	23.9	29.5	32.6	31.8	29.5	27.0	24.7	20.8	17.4	18.2
112.5°	16.7	18.2	23.0	26.3	26.3	23.9	21.5	19.1	15.1	13.6	13.6
115°	12.8	14.4	18.2	20.8	20.8	18.2	16.7	14.4	11.1	10.3	10.3
117.5°	9.5	11.1	14.4	16.7	15.9	14.4	12.8	11.1	8.8	7.9	7.9
120°	7.9	8.8	11.1	12.8	11.9	11.1	9.5	7.9	6.4	6.4	6.4
122.5°	6.4	7.1	8.8	9.5	8.8	7.9	7.1	5.6	4.9	4.9	4.9
125°	5.6	6.4	7.1	7.1	6.4	5.6	4.9	4.0	3.1	4.0	4.0
127.5°	5.6	5.6	6.4	5.6	4.9	4.0	3.1	2.3	2.3	3.1	3.1
130°	4.9	5.6	5.6	4.9	4.0	2.3	2.3	1.5	1.5	2.3	2.3
132.5°	4.9	4.9	4.9	4.0	3.1	1.5	0.8	0.8	1.5	1.5	1.5
135°	4.0	4.9	4.0	3.1	2.3	1.5	0.0	0.8	0.8	0.8	0.8
137.5°	4.0	4.0	4.0	3.1	1.5	0.8	0.0	0.0	0.8	0.0	0.0
140°	3.1	3.1	3.1	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.1	3.1	3.1	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.3	2.3	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	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)