

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: P266483

Luminaire Tested: **UTLD-AF24-80-D-U-T3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6543.6 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U2 - G2

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



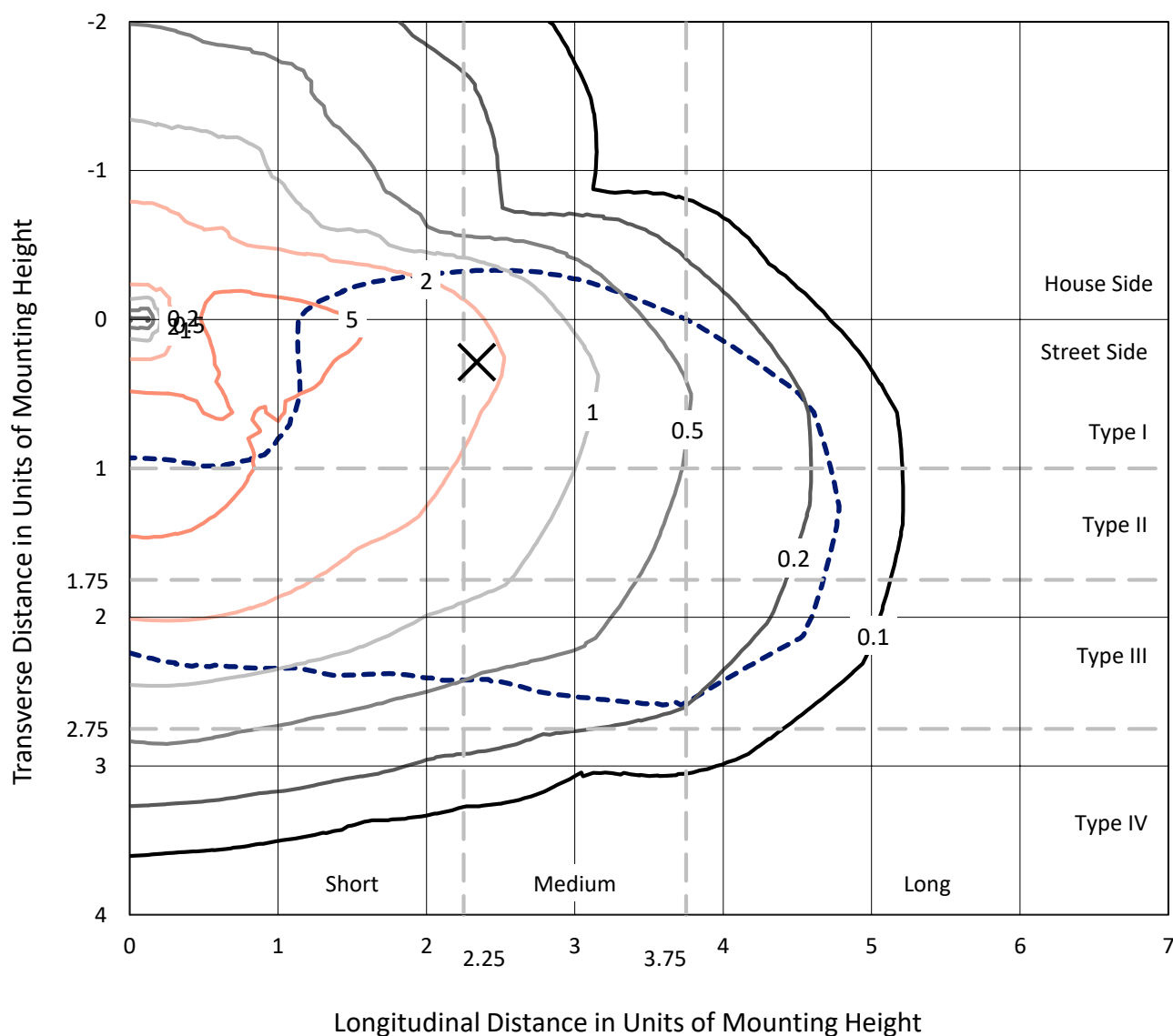
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

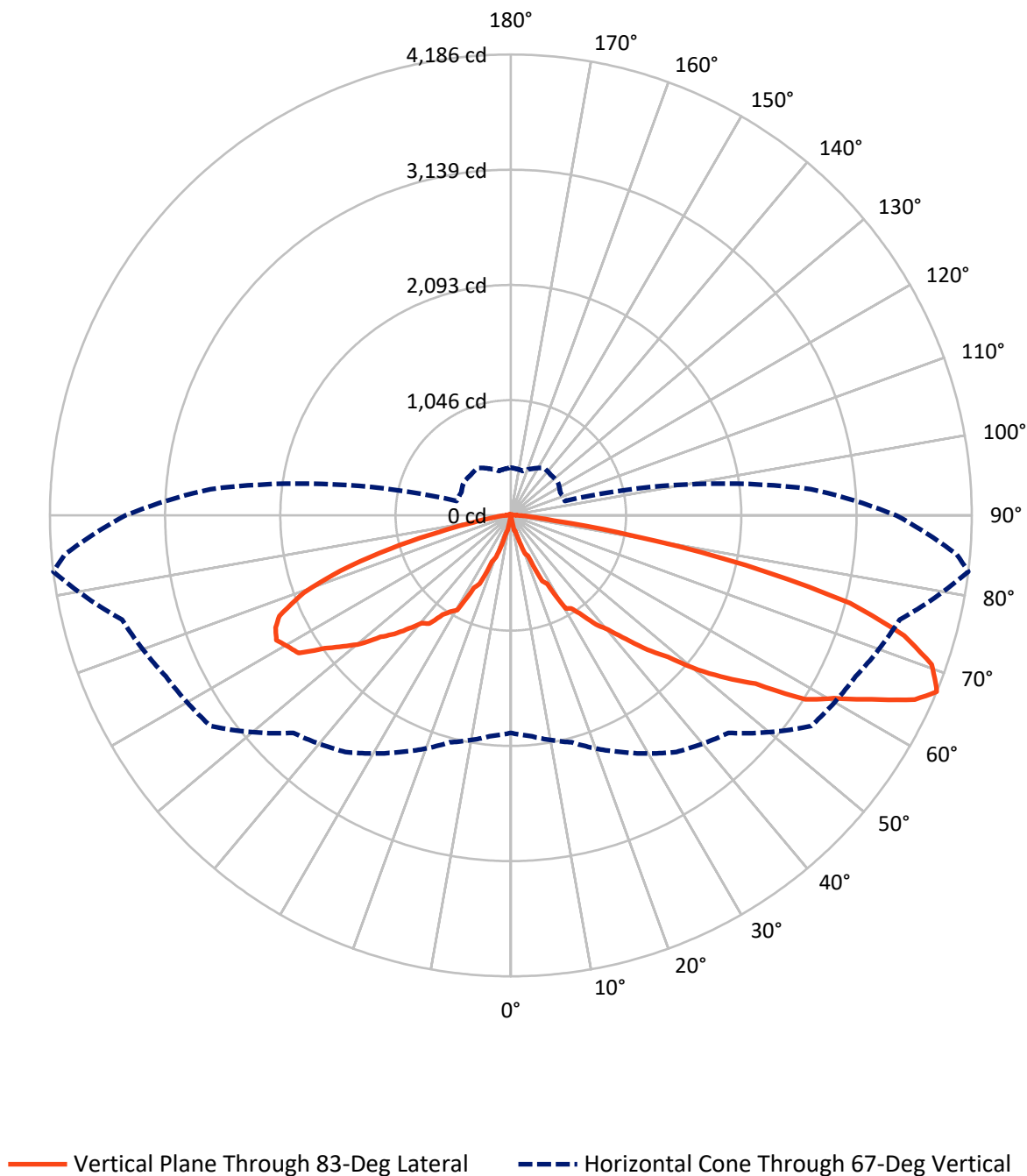


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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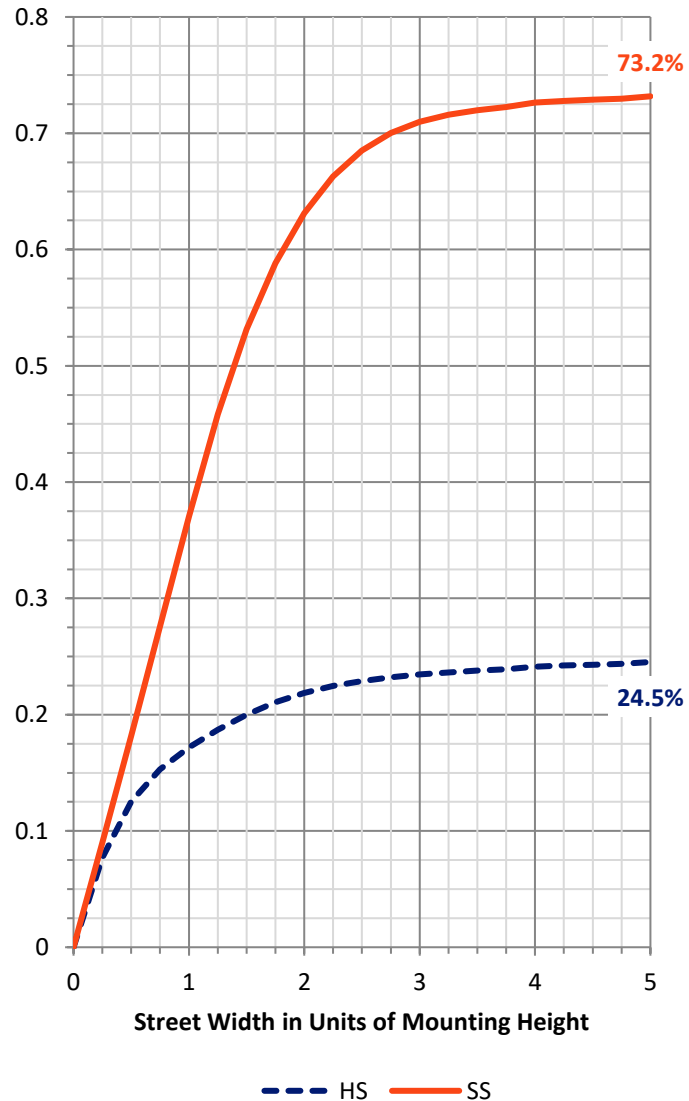
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1641.9	43.4	1685.3
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	4821.7	36.5	4858.2
	% Fixture	73.7	0.6	74.2
Total	Lumens	6463.6	80.0	6543.6
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.1
10°-20°	59.2	0.9
20°-30°	237.8	3.6
30°-40°	525.2	8.0
40°-50°	936.0	14.3
50°-60°	1502.1	23.0
60°-70°	1827.6	27.9
70°-80°	1177.7	18.0
80°-90°	193.5	3.0
90°-100°	39.8	0.6
100°-110°	18.2	0.3
110°-120°	9.2	0.1
120°-130°	6.6	0.1
130°-140°	4.1	0.1
140°-150°	1.8	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6463.6	98.8
0°-180°	6543.6	100.0

Coefficient of Utilization



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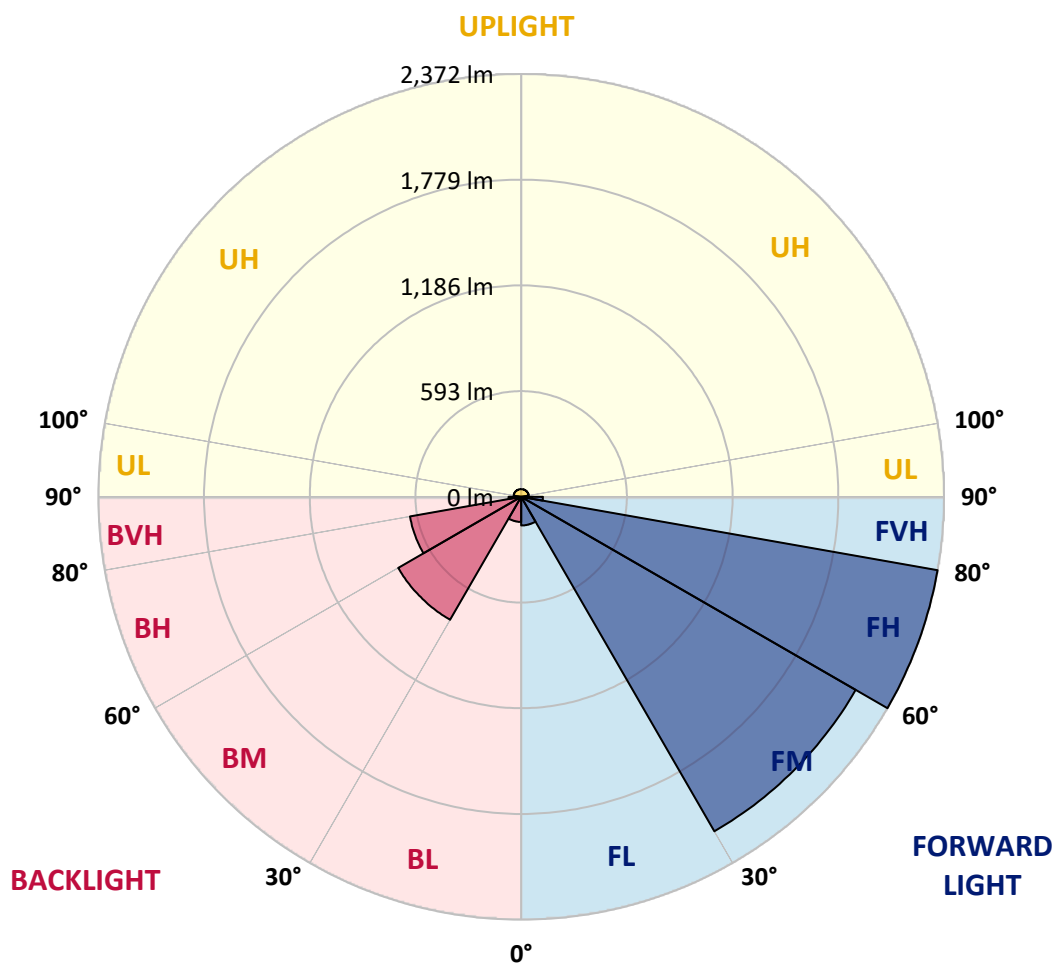
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	160.7	2.5			
FM	(30°-60°)	2166.6	33.1			
FH	(60°-80°)	2372.0	36.2			G2/5000
FVH	(80°-90°)	122.4	1.9			G2/225
BL	(0°-30°)	140.8	2.2	B1/500		
BM	(30°-60°)	796.6	12.2	B1/1000		
BH	(60°-80°)	633.4	9.7	B2/1000		G2/1000
BVH	(80°-90°)	71.1	1.1			G1/100
UL	(90°-100°)	39.8	0.6		U2/50	
UH	(100°-180°)	43.4	0.7		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	32.9	32.9	32.9	29.6	25.6	20.8	18.4	16.0	15.2	15.2	15.2
5°	72.9	76.1	72.9	72.1	64.9	79.4	32.1	21.6	16.0	14.5	14.5
7.5°	103.5	105.0	85.0	78.5	63.3	86.5	69.8	39.3	20.0	16.0	15.2
10°	179.7	154.7	131.5	129.8	121.9	91.4	62.5	56.1	31.4	24.1	24.9
12.5°	174.0	178.9	175.6	170.0	156.3	130.7	83.5	107.4	117.9	138.7	130.7
15°	213.3	210.1	185.9	187.6	178.0	189.3	169.2	178.9	168.3	146.8	153.2
17.5°	330.2	319.1	334.3	256.6	187.6	230.1	234.1	209.2	223.7	230.9	256.6
20°	377.6	361.6	380.8	326.3	311.1	261.3	249.3	379.3	353.6	371.2	374.5
22.5°	521.9	513.1	457.7	373.5	397.6	333.5	356.0	393.6	401.6	397.6	410.4
25°	658.2	657.4	651.0	574.8	424.1	473.0	411.2	449.0	579.6	659.7	667.0
27.5°	779.3	772.8	727.2	705.4	594.0	534.0	490.7	622.2	663.8	702.2	711.1
30°	985.4	1027.0	928.4	802.5	719.2	614.9	659.7	656.7	799.3	980.5	990.1
32.5°	1156.8	1133.7	1031.0	925.2	840.2	760.1	695.1	917.2	956.4	1006.1	1028.6
35°	1410.2	1419.1	1310.7	1031.9	962.1	851.5	909.2	995.7	1023.0	1105.5	1111.9
37.5°	1473.5	1543.3	1480.0	1237.1	1023.0	930.7	978.1	1089.6	1179.4	1255.6	1207.3
40°	1752.6	1717.2	1581.7	1386.2	1148.8	1042.3	1196.2	1261.8	1275.6	1364.4	1375.8
42.5°	2025.9	2041.0	1873.5	1625.0	1312.3	1211.4	1346.1	1328.5	1458.3	1535.3	1577.0
45°	2292.0	2299.3	2167.0	1852.8	1574.5	1493.6	1427.9	1503.3	1719.6	1738.1	1748.6
47.5°	2472.4	2473.3	2417.1	2101.2	1795.8	1613.0	1592.2	1673.2	1888.0	1920.8	1930.5
50°	2753.8	2746.7	2617.5	2267.2	2088.4	1849.5	1930.5	1900.1	2086.0	2204.7	2230.3
52.5°	2864.4	2828.5	2759.5	2508.5	2351.5	2114.9	2078.0	2133.4	2345.7	2453.2	2538.3
55°	2792.3	2854.9	2842.1	2661.7	2429.1	2348.2	2252.1	2459.6	2531.8	2696.9	2847.6
57.5°	2642.5	2749.8	2800.3	2733.1	2606.3	2422.8	2595.2	2563.9	2840.4	3153.1	3254.1
60°	2539.8	2606.3	2709.0	2790.8	2698.5	2631.1	2798.7	2962.3	3068.2	3372.7	3507.4
62.5°	2355.4	2418.7	2583.0	2701.7	2649.6	2672.1	3024.9	3110.7	3422.5	3676.7	3860.1
65°	2136.4	2195.8	2388.2	2512.5	2636.7	2725.0	3168.3	3334.2	3555.5	4031.8	4057.5
67°	1975.5	2009.9	2132.5	2371.4	2621.6	2793.1	3331.9	3456.9	3655.7	4185.7	4064.7
67.5°	1921.7	1955.3	2055.5	2303.3	2612.7	2803.5	3378.3	3493.0	3670.1	4169.7	4063.0
70°	1479.1	1598.7	1601.0	1837.6	2333.0	2726.5	3460.9	3617.2	3757.6	4054.2	3922.7
72.5°	885.9	885.9	926.8	1159.3	1653.9	2438.8	3460.9	3573.9	3695.1	3735.2	3513.9
75°	428.9	408.9	464.2	556.4	833.0	1645.1	3119.5	3275.8	3291.0	3181.9	2850.1
77.5°	353.6	307.0	291.8	285.4	446.5	615.7	2084.4	2557.5	2558.3	2183.1	1910.4
80°	221.3	223.7	230.1	198.0	255.7	318.3	831.4	1557.8	1415.8	1134.4	955.6
82.5°	156.3	162.0	164.3	146.8	178.9	149.1	276.6	657.4	572.4	395.3	335.1
85°	109.9	106.5	119.5	99.4	107.4	88.3	152.4	283.0	322.3	195.7	185.2
87.5°	65.8	65.8	80.2	67.4	73.8	63.3	92.2	138.7	160.3	110.6	103.5
90°	39.3	36.1	37.6	38.4	41.7	36.1	49.6	66.6	69.8	56.1	51.4
92.5°	29.6	29.6	32.1	30.5	37.6	32.9	43.3	52.1	63.3	48.1	44.8
95°	19.3	21.6	24.1	24.9	28.8	24.9	36.1	42.5	47.3	36.9	35.3
97.5°	17.6	19.3	20.8	20.8	24.1	20.0	29.6	37.6	37.6	28.8	26.5
100°	16.9	17.6	18.4	18.4	20.0	16.0	23.3	32.9	32.9	24.1	22.5
102.5°	15.2	16.0	15.2	14.5	16.9	12.8	19.3	28.8	23.3	18.4	19.3
105°	15.2	15.2	13.7	12.0	13.7	10.4	16.9	20.8	16.0	15.2	16.0
107.5°	14.5	14.5	11.1	10.4	11.1	8.9	13.7	14.5	12.8	14.5	15.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	13.7	12.8	10.4	8.9	8.9	8.1	10.4	10.4	10.4	13.7	15.2
112.5°	12.0	11.1	8.9	7.2	7.2	6.4	7.2	8.1	9.6	12.8	14.5
115°	11.1	10.4	8.1	6.4	5.6	5.6	6.4	6.4	8.9	12.8	14.5
117.5°	11.1	10.4	7.2	6.4	4.9	4.9	5.6	6.4	8.9	12.8	14.5
120°	10.4	10.4	7.2	5.6	4.9	4.0	4.9	5.6	8.9	13.7	14.5
122.5°	10.4	9.6	7.2	5.6	4.0	4.0	4.0	4.9	8.1	12.8	13.7
125°	9.6	9.6	6.4	4.9	4.0	3.2	4.0	4.9	8.9	12.8	13.7
127.5°	9.6	8.9	6.4	4.9	3.2	3.2	4.0	4.0	8.1	12.0	12.8
130°	9.6	8.9	6.4	4.0	3.2	3.2	3.2	4.0	8.1	11.1	12.0
132.5°	8.1	8.1	5.6	4.0	3.2	2.4	3.2	3.2	6.4	9.6	10.4
135°	8.1	7.2	5.6	4.0	3.2	2.4	2.4	3.2	6.4	8.9	8.9
137.5°	7.2	6.4	5.6	4.0	2.4	2.4	1.5	2.4	5.6	7.2	8.1
140°	6.4	6.4	4.9	4.0	2.4	1.5	1.5	2.4	4.0	5.6	6.4
142.5°	6.4	6.4	5.6	4.0	2.4	1.5	1.5	1.5	3.2	4.9	4.9
145°	5.6	5.6	4.9	3.2	1.5	0.8	0.8	1.5	2.4	3.2	4.0
147.5°	5.6	5.6	4.9	3.2	1.5	0.8	0.8	1.5	2.4	3.2	3.2
150°	4.9	4.9	4.0	2.4	0.8	0.0	0.0	0.8	1.5	2.4	2.4
152.5°	3.2	3.2	2.4	1.5	0.0	0.0	0.0	0.8	1.5	1.5	1.5
155°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	15.2	15.2	15.2	15.2	15.2	15.2	14.5	14.5	14.5	14.5	14.5
5°	13.7	13.7	14.5	14.5	14.5	14.5	14.5	15.2	16.0	16.0	16.9
7.5°	15.2	15.2	14.5	14.5	15.2	16.9	27.3	57.8	109.1	101.0	100.3
10°	24.1	24.1	21.6	20.0	21.6	78.5	123.4	117.0	98.6	96.2	93.1
12.5°	152.4	141.9	114.7	72.1	105.0	99.4	115.4	135.5	176.3	185.2	178.9
15°	153.2	159.4	172.4	186.8	236.6	105.0	203.6	249.3	266.2	266.2	271.7
17.5°	266.2	287.0	220.4	198.9	235.6	288.6	227.7	253.3	250.9	251.7	244.5
20°	433.0	391.2	431.4	387.2	264.6	323.1	283.9	271.7	366.4	436.1	436.1
22.5°	428.9	454.5	449.0	444.9	465.9	287.0	362.3	393.6	408.1	389.7	417.7
25°	715.9	688.7	651.0	444.1	446.5	399.2	391.2	367.1	399.2	430.5	424.1
27.5°	748.7	755.2	683.9	661.4	468.1	449.0	368.8	427.4	465.9	468.1	464.2
30°	1022.2	1034.9	807.2	609.3	525.9	409.6	431.4	412.1	430.5	452.1	464.2
32.5°	1081.5	1062.2	891.5	686.2	515.4	433.7	396.8	412.1	481.9	481.9	477.8
35°	1152.0	1137.7	918.7	651.8	562.0	405.7	367.1	410.4	430.5	465.9	468.1
37.5°	1294.0	1286.0	1008.5	650.2	500.3	383.1	404.1	414.5	420.9	428.9	421.8
40°	1387.7	1326.0	1035.7	679.1	484.2	444.1	420.9	390.5	396.1	376.0	367.1
42.5°	1564.0	1460.7	1062.2	659.7	472.1	489.8	391.2	385.6	372.0	351.1	351.1
45°	1743.7	1611.4	1097.5	620.5	455.4	475.5	403.2	394.4	382.4	379.3	372.0
47.5°	1926.4	1748.6	1091.9	645.3	510.6	444.9	505.0	424.1	364.8	396.1	393.6
50°	2227.1	1971.4	1096.7	596.5	509.1	436.9	505.8	401.6	390.5	414.5	417.0
52.5°	2472.4	2123.0	1163.2	568.4	493.0	505.8	478.5	486.6	460.2	452.9	461.8
55°	2765.9	2316.9	1119.9	534.8	480.2	477.0	563.5	489.8	465.9	489.0	491.5
57.5°	3133.8	2587.1	1129.6	480.2	484.2	459.4	551.6	548.3	534.0	522.8	518.7
60°	3347.2	2673.6	1039.8	512.4	468.9	506.6	585.2	568.4	492.2	571.6	584.4
62.5°	3514.7	2808.3	819.3	506.6	521.0	483.4	537.1	554.8	518.7	578.8	586.1
65°	3555.5	2801.2	627.7	520.3	515.4	537.1	635.7	545.1	452.9	461.8	465.9
67°	3499.4	2737.9	509.1	495.4	522.8	517.2	525.9	468.1	418.5	427.4	433.7
67.5°	3467.4	2686.6	482.6	493.9	540.3	516.3	515.4	450.6	408.9	420.0	422.6
70°	3169.1	2406.6	404.1	487.4	535.5	468.9	481.9	396.8	360.8	364.8	366.4
72.5°	2713.8	1931.3	385.6	485.1	525.9	391.2	370.5	324.6	307.0	301.4	293.4
75°	2082.8	1330.7	380.8	437.7	432.2	295.8	296.6	270.2	271.7	259.8	254.9
77.5°	1254.7	745.6	323.8	370.5	323.8	226.1	245.2	239.7	246.1	233.3	225.2
80°	601.2	364.0	255.7	272.5	228.4	177.1	209.2	218.1	219.6	201.2	192.3
82.5°	257.4	188.5	173.2	170.8	162.8	137.1	169.2	178.0	179.7	168.3	134.7
85°	151.5	128.3	119.5	114.7	113.0	85.0	121.0	143.5	143.5	118.7	102.6
87.5°	94.6	93.9	84.3	84.3	88.3	60.1	83.5	98.6	93.1	70.5	56.1
90°	44.8	48.1	50.6	51.4	60.1	33.6	53.7	57.0	53.7	38.4	27.3
92.5°	36.1	41.0	44.0	45.8	54.4	28.8	48.1	51.4	48.9	38.4	27.3
95°	29.6	36.9	44.0	43.3	45.8	22.5	42.5	46.5	44.8	33.6	23.3
97.5°	24.1	29.6	36.1	36.1	41.7	19.3	39.3	44.0	43.3	30.5	22.5
100°	21.6	26.5	32.1	31.4	36.9	15.2	35.3	38.4	37.6	24.9	20.0
102.5°	19.3	21.6	24.9	24.9	27.3	12.8	26.5	29.6	28.0	20.8	20.0
105°	17.6	18.4	17.6	16.9	17.6	11.1	16.9	19.3	16.9	16.0	16.0
107.5°	16.9	16.9	14.5	13.7	12.8	9.6	12.0	12.8	11.1	14.5	16.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	16.9	16.0	12.8	12.0	10.4	8.9	9.6	9.6	9.6	14.5	15.2
112.5°	16.0	16.0	12.0	10.4	9.6	8.1	8.1	7.2	8.9	14.5	16.0
115°	16.0	15.2	11.1	9.6	8.1	7.2	6.4	6.4	8.1	14.5	16.0
117.5°	16.0	15.2	11.1	8.9	8.1	6.4	5.6	5.6	8.1	14.5	16.0
120°	16.0	16.0	11.1	8.1	7.2	6.4	5.6	5.6	8.1	13.7	15.2
122.5°	15.2	15.2	10.4	8.1	6.4	5.6	4.9	4.9	8.1	13.7	14.5
125°	14.5	14.5	10.4	7.2	5.6	4.9	4.9	4.9	8.1	12.8	14.5
127.5°	13.7	13.7	9.6	6.4	4.9	4.9	4.0	4.0	8.1	12.8	13.7
130°	12.8	12.8	8.9	5.6	4.9	4.0	3.2	4.0	8.1	12.0	12.8
132.5°	11.1	11.1	8.1	4.9	4.0	3.2	3.2	3.2	7.2	11.1	12.0
135°	9.6	9.6	7.2	4.9	4.0	3.2	2.4	3.2	6.4	9.6	10.4
137.5°	8.9	8.9	6.4	4.0	3.2	2.4	2.4	3.2	6.4	8.9	9.6
140°	6.4	6.4	4.9	3.2	2.4	2.4	1.5	2.4	5.6	7.2	8.1
142.5°	4.9	4.9	4.0	3.2	2.4	1.5	1.5	2.4	4.9	6.4	6.4
145°	4.0	4.0	3.2	2.4	2.4	1.5	0.8	1.5	4.0	5.6	5.6
147.5°	3.2	3.2	3.2	2.4	1.5	0.8	0.8	0.8	2.4	4.0	4.0
150°	2.4	2.4	2.4	2.4	1.5	0.0	0.0	0.0	1.5	2.4	2.4
152.5°	1.5	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8
155°	0.8	1.5	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	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)