

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: P266517

Luminaire Tested: **UTLD-AF24-90-D-U-T3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266517
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-AF24-90-D-U-T3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 7076.5 lumens
Efficiency: N/A
Efficacy: 75.3 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): 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

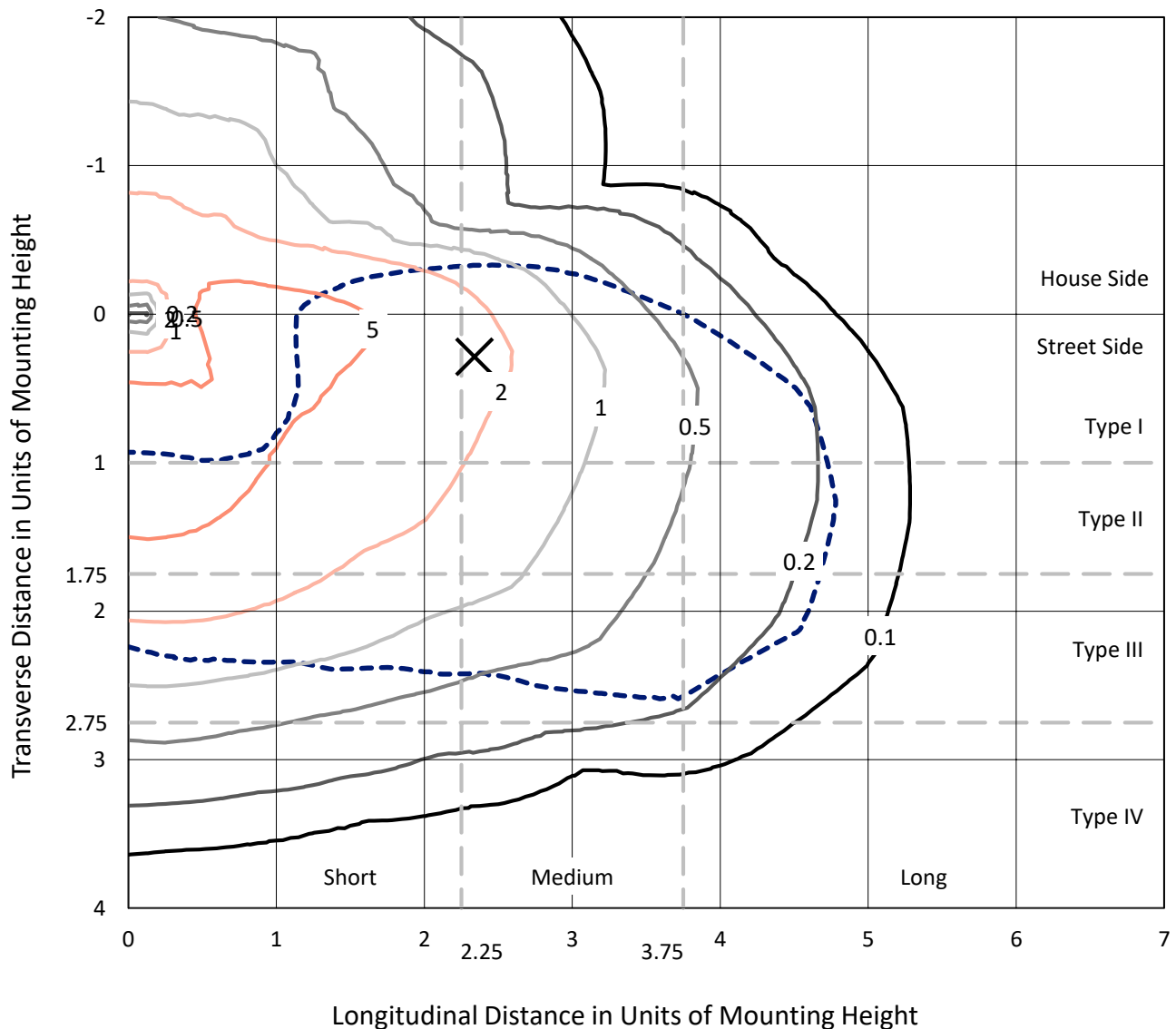


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

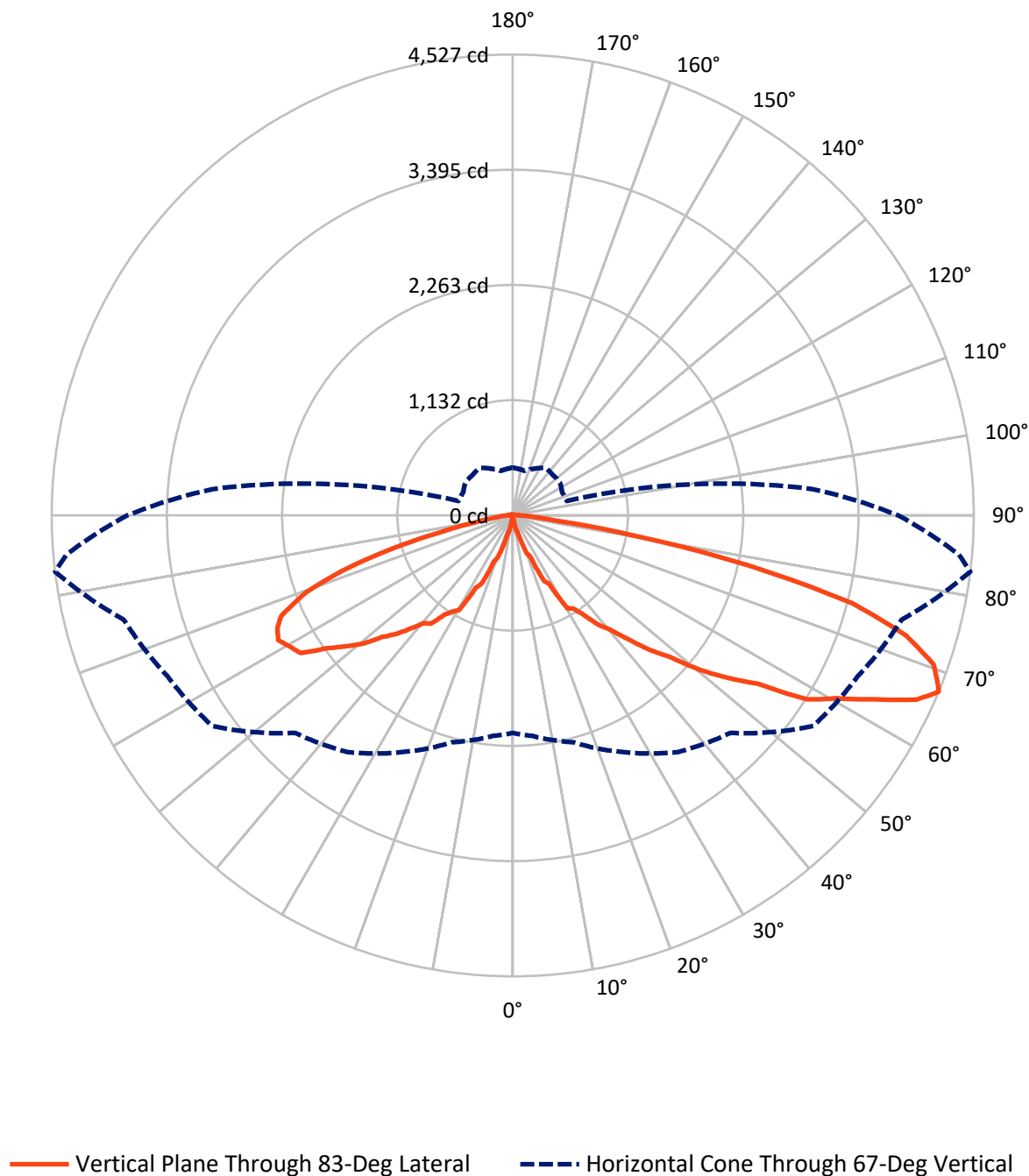


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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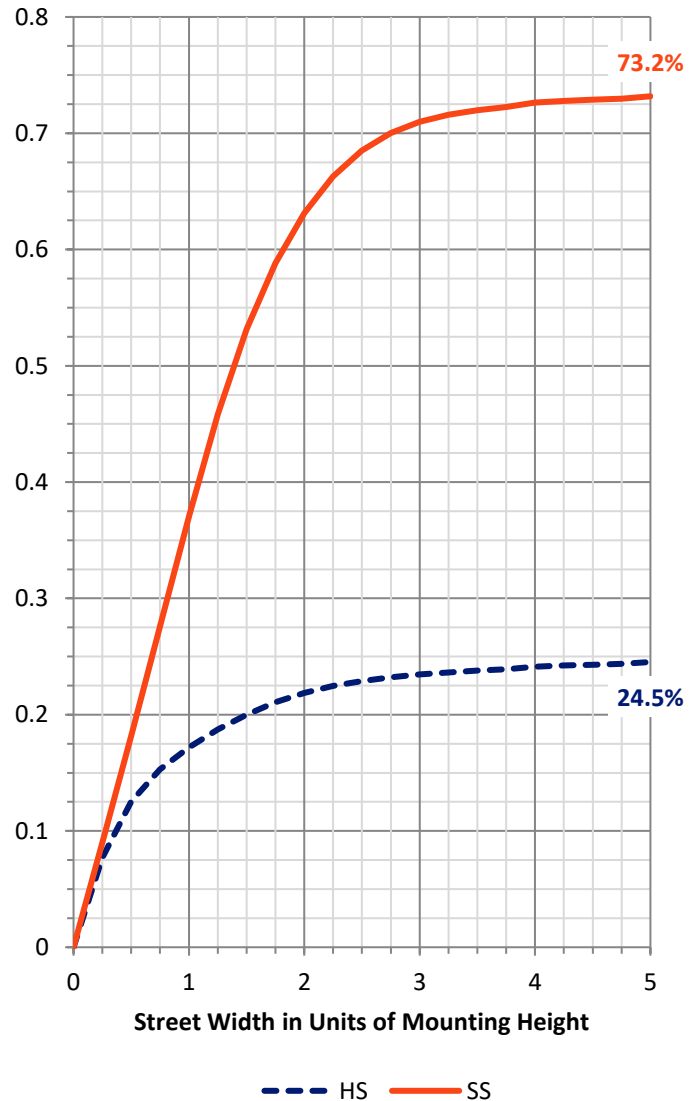
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.6	46.9	1822.6
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	5214.4	39.5	5253.9
	% Fixture	73.7	0.6	74.2
Total	Lumens	6990.0	86.4	7076.5
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	64.0	0.9
20°-30°	257.2	3.6
30°-40°	568.0	8.0
40°-50°	1012.2	14.3
50°-60°	1624.4	23.0
60°-70°	1976.5	27.9
70°-80°	1273.6	18.0
80°-90°	209.2	3.0
90°-100°	43.1	0.6
100°-110°	19.7	0.3
110°-120°	9.9	0.1
120°-130°	7.1	0.1
130°-140°	4.4	0.1
140°-150°	2.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6990.0	98.8
0°-180°	7076.5	100.0

Coefficient of Utilization



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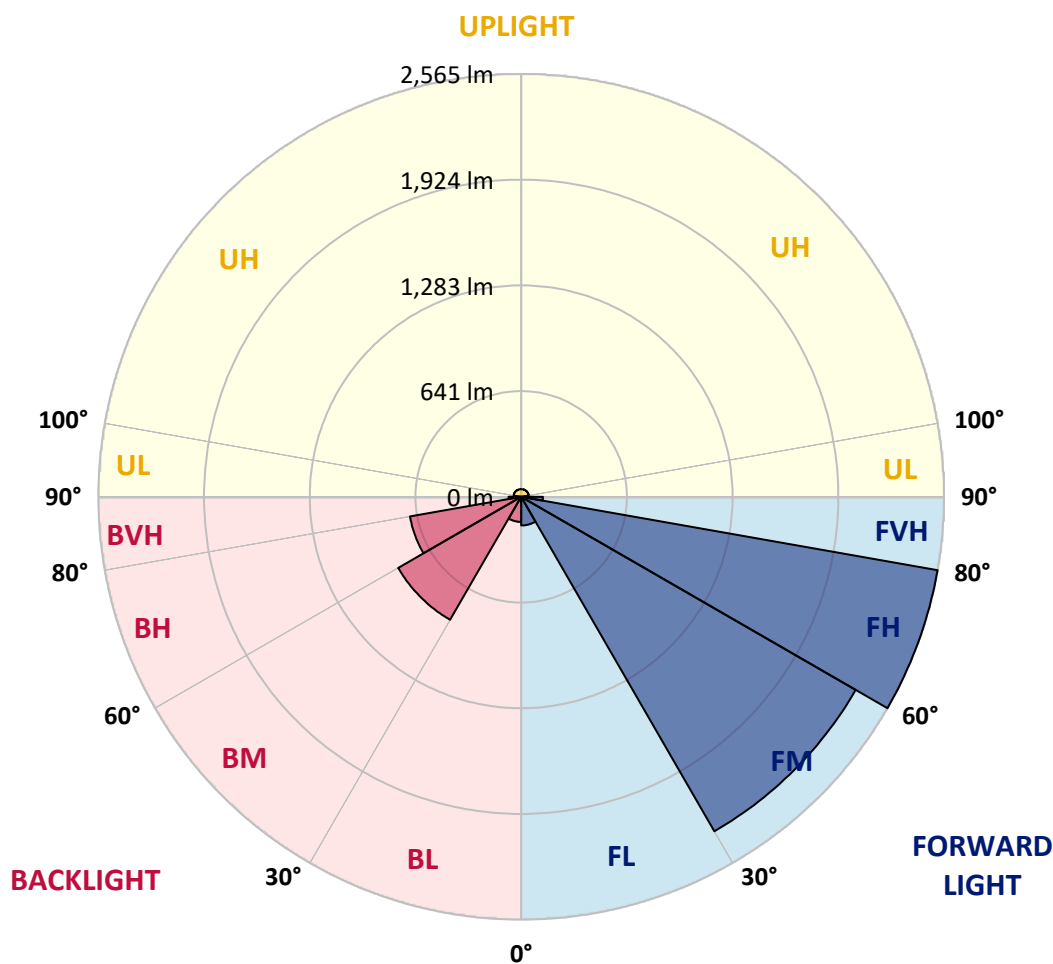
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	173.8	2.5			
FM	(30°-60°)	2343.1	33.1			
FH	(60°-80°)	2565.2	36.2			G2/5000
FVH	(80°-90°)	132.3	1.9			G2/225
BL	(0°-30°)	152.3	2.2	B1/500		
BM	(30°-60°)	861.5	12.2	B1/1000		
BH	(60°-80°)	685.0	9.7	B2/1000		G2/1000
BVH	(80°-90°)	76.9	1.1			G1/100
UL	(90°-100°)	43.1	0.6		U2/50	
UH	(100°-180°)	46.9	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	35.6	35.6	35.6	32.1	27.8	22.5	19.9	17.3	16.4	16.4	16.4
5°	79.0	82.4	79.0	78.1	70.2	85.9	34.7	23.4	17.3	15.6	15.6
7.5°	111.8	113.5	91.8	85.0	68.5	93.7	75.5	42.5	21.6	17.3	16.4
10°	194.3	167.4	142.2	140.4	131.8	98.9	67.6	60.6	33.9	26.1	26.9
12.5°	188.1	193.3	189.9	183.9	169.2	141.4	90.2	116.2	127.5	149.9	141.4
15°	230.7	227.1	201.1	202.8	192.4	204.6	183.0	193.3	182.0	158.7	165.6
17.5°	357.2	345.0	361.6	277.4	202.8	248.8	253.1	226.4	242.0	249.6	277.4
20°	408.4	391.0	411.9	352.9	336.3	282.6	269.6	410.0	382.4	401.5	404.9
22.5°	564.5	554.9	495.1	404.0	430.0	360.7	385.0	425.6	434.4	430.0	443.9
25°	711.7	711.0	704.0	621.6	458.7	511.6	444.8	485.5	626.8	713.6	721.3
27.5°	842.7	835.9	786.3	763.0	642.5	577.4	530.5	672.8	717.8	759.4	768.9
30°	1065.5	1110.7	1003.9	867.9	777.8	664.9	713.6	710.1	864.3	1060.3	1070.7
32.5°	1251.1	1225.9	1114.9	1000.5	908.6	821.9	751.7	991.9	1034.3	1088.0	1112.3
35°	1525.1	1534.6	1417.5	1115.9	1040.3	920.8	983.1	1076.8	1106.4	1195.6	1202.6
37.5°	1593.6	1669.1	1600.5	1337.8	1106.4	1006.6	1057.8	1178.2	1275.4	1357.7	1305.6
40°	1895.2	1857.1	1710.6	1499.0	1242.4	1127.2	1293.6	1364.6	1379.3	1475.6	1487.8
42.5°	2190.8	2207.3	2026.1	1757.4	1419.3	1310.0	1455.8	1436.6	1577.1	1660.2	1705.4
45°	2478.8	2486.6	2343.5	2003.6	1702.7	1615.2	1544.1	1625.7	1859.8	1879.7	1890.9
47.5°	2673.8	2674.8	2614.0	2272.4	1942.0	1744.4	1721.8	1809.5	2041.8	2077.3	2087.8
50°	2978.2	2970.3	2830.7	2451.8	2258.5	2000.2	2087.8	2054.9	2256.0	2384.2	2411.9
52.5°	3097.7	3058.8	2984.2	2712.8	2542.9	2287.2	2247.3	2307.0	2536.9	2653.1	2745.0
55°	3019.7	3087.4	3073.6	2878.3	2627.1	2539.4	2435.3	2659.9	2737.9	2916.5	3079.6
57.5°	2857.6	2973.7	3028.5	2955.7	2818.6	2620.0	2806.5	2772.7	3071.8	3409.8	3519.1
60°	2746.7	2818.6	2929.6	3018.0	2918.4	2845.6	3026.7	3203.5	3318.0	3647.5	3793.2
62.5°	2547.2	2615.8	2793.5	2921.7	2865.5	2889.7	3271.2	3364.0	3701.1	3976.1	4174.7
65°	2310.5	2374.7	2582.7	2717.2	2851.6	2946.9	3426.3	3605.8	3845.1	4360.2	4388.0
67°	2136.3	2173.5	2306.2	2564.7	2835.1	3020.6	3603.2	3738.4	3953.5	4526.6	4395.6
67.5°	2078.1	2114.6	2222.9	2490.9	2825.6	3031.9	3653.5	3777.6	3969.2	4509.2	4393.9
70°	1599.6	1728.8	1731.5	1987.1	2523.0	2948.6	3742.8	3911.8	4063.7	4384.4	4242.2
72.5°	958.0	958.0	1002.2	1253.7	1788.6	2637.5	3742.8	3865.0	3996.0	4039.4	3800.0
75°	463.9	442.1	502.1	601.7	900.8	1779.1	3373.4	3542.6	3559.1	3441.0	3082.2
77.5°	382.4	332.1	315.6	308.7	482.8	665.9	2254.1	2765.7	2766.6	2360.8	2066.0
80°	239.3	242.0	248.8	214.2	276.6	344.2	899.1	1684.6	1531.2	1226.7	1033.5
82.5°	169.2	175.1	177.8	158.7	193.3	161.2	299.1	711.0	619.0	427.5	362.3
85°	118.8	115.3	129.1	107.4	116.2	95.4	164.7	306.1	348.5	211.6	200.3
87.5°	71.1	71.1	86.6	72.9	79.8	68.5	99.7	149.9	173.5	119.7	111.8
90°	42.5	39.0	40.8	41.6	45.0	39.0	53.8	72.0	75.5	60.6	55.4
92.5°	32.1	32.1	34.7	33.0	40.8	35.6	46.8	56.4	68.5	52.0	48.6
95°	20.8	23.4	26.1	26.9	31.3	26.9	39.0	46.0	51.2	39.9	38.2
97.5°	19.0	20.8	22.5	22.5	26.1	21.6	32.1	40.8	40.8	31.3	28.7
100°	18.2	19.0	19.9	19.9	21.6	17.3	25.2	35.6	35.6	26.1	24.3
102.5°	16.4	17.3	16.4	15.6	18.2	13.8	20.8	31.3	25.2	19.9	20.8
105°	16.4	16.4	14.7	13.0	14.7	11.3	18.2	22.5	17.3	16.4	17.3
107.5°	15.6	15.6	12.1	11.3	12.1	9.5	14.7	15.6	13.8	15.6	16.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	14.7	13.8	11.3	9.5	9.5	8.7	11.3	11.3	11.3	14.7	16.4
112.5°	13.0	12.1	9.5	7.8	7.8	6.9	7.8	8.7	10.4	13.8	15.6
115°	12.1	11.3	8.7	6.9	6.1	6.1	6.9	6.9	9.5	13.8	15.6
117.5°	12.1	11.3	7.8	6.9	5.2	5.2	6.1	6.9	9.5	13.8	15.6
120°	11.3	11.3	7.8	6.1	5.2	4.3	5.2	6.1	9.5	14.7	15.6
122.5°	11.3	10.4	7.8	6.1	4.3	4.3	4.3	5.2	8.7	13.8	14.7
125°	10.4	10.4	6.9	5.2	4.3	3.5	4.3	5.2	9.5	13.8	14.7
127.5°	10.4	9.5	6.9	5.2	3.5	3.5	4.3	4.3	8.7	13.0	13.8
130°	10.4	9.5	6.9	4.3	3.5	3.5	3.5	4.3	8.7	12.1	13.0
132.5°	8.7	8.7	6.1	4.3	3.5	2.6	3.5	3.5	6.9	10.4	11.3
135°	8.7	7.8	6.1	4.3	3.5	2.6	2.6	3.5	6.9	9.5	9.5
137.5°	7.8	6.9	6.1	4.3	2.6	2.6	1.7	2.6	6.1	7.8	8.7
140°	6.9	6.9	5.2	4.3	2.6	1.7	1.7	2.6	4.3	6.1	6.9
142.5°	6.9	6.9	6.1	4.3	2.6	1.7	1.7	1.7	3.5	5.2	5.2
145°	6.1	6.1	5.2	3.5	1.7	0.9	0.9	1.7	2.6	3.5	4.3
147.5°	6.1	6.1	5.2	3.5	1.7	0.9	0.9	1.7	2.6	3.5	3.5
150°	5.2	5.2	4.3	2.6	0.9	0.0	0.0	0.9	1.7	2.6	2.6
152.5°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.9	1.7	1.7	1.7
155°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	16.4	16.4	16.4	16.4	16.4	16.4	15.6	15.6	15.6	15.6	15.6
5°	14.7	14.7	15.6	15.6	15.6	15.6	15.6	16.4	17.3	17.3	18.2
7.5°	16.4	16.4	15.6	15.6	16.4	18.2	29.5	62.4	117.9	109.2	108.3
10°	26.1	26.1	23.4	21.6	23.4	85.0	133.5	126.7	106.7	104.1	100.6
12.5°	164.7	153.5	124.0	78.1	113.5	107.4	124.9	146.6	190.7	200.3	193.3
15°	165.6	172.6	186.4	201.9	255.7	113.5	220.3	269.6	287.8	287.8	293.9
17.5°	287.8	310.4	238.4	215.1	254.8	312.2	246.2	274.0	271.4	272.2	264.5
20°	468.1	423.1	466.4	418.8	286.1	349.4	307.0	293.9	396.2	471.6	471.6
22.5°	463.9	491.6	485.5	481.2	503.7	310.4	391.9	425.6	441.2	421.3	451.7
25°	774.2	744.8	704.0	480.4	482.8	431.7	423.1	397.1	431.7	465.6	458.7
27.5°	809.8	816.6	739.6	715.3	506.4	485.5	398.8	462.1	503.7	506.4	502.1
30°	1105.5	1119.3	873.1	658.8	568.7	443.0	466.4	445.6	465.6	488.9	502.1
32.5°	1169.6	1148.8	964.2	742.2	557.5	469.0	429.2	445.6	521.0	521.0	516.7
35°	1245.9	1230.3	993.5	704.9	607.8	438.7	397.1	443.9	465.6	503.7	506.4
37.5°	1399.3	1390.7	1090.7	703.2	541.0	414.4	436.9	448.3	455.3	463.9	456.0
40°	1500.8	1434.1	1120.1	734.4	523.6	480.4	455.3	422.3	428.3	406.7	397.1
42.5°	1691.5	1579.7	1148.8	713.6	510.6	529.7	423.1	417.1	402.4	379.8	379.8
45°	1885.7	1742.6	1186.9	671.0	492.5	514.1	436.0	426.5	413.6	410.0	402.4
47.5°	2083.3	1890.9	1180.8	698.0	552.3	481.2	546.2	458.7	394.4	428.3	425.6
50°	2408.5	2131.9	1186.0	645.1	550.5	472.5	547.1	434.4	422.3	448.3	450.8
52.5°	2673.8	2295.8	1257.9	614.7	533.2	547.1	517.7	526.2	497.7	489.8	499.4
55°	2991.1	2505.6	1211.2	578.2	519.3	515.8	609.5	529.7	503.7	528.8	531.4
57.5°	3389.0	2797.9	1221.5	519.3	523.6	496.9	596.5	593.1	577.4	565.3	560.9
60°	3619.7	2891.5	1124.5	554.1	507.3	548.0	632.9	614.7	532.3	618.2	632.0
62.5°	3800.9	3037.1	886.1	548.0	563.5	522.9	580.8	600.0	560.9	625.9	633.8
65°	3845.1	3029.3	678.8	562.7	557.5	580.8	687.6	589.6	489.8	499.4	503.7
67°	3784.4	2960.9	550.5	535.7	565.3	559.3	568.7	506.4	452.6	462.1	469.0
67.5°	3749.7	2905.3	521.9	534.0	584.3	558.3	557.5	487.2	442.1	454.4	456.9
70°	3427.3	2602.7	436.9	527.1	579.1	507.3	521.0	429.2	390.1	394.4	396.2
72.5°	2934.9	2088.6	417.1	524.5	568.7	423.1	400.6	351.1	332.1	325.9	317.3
75°	2252.5	1439.3	411.9	473.3	467.3	319.9	320.8	292.2	293.9	280.9	275.7
77.5°	1356.9	806.3	350.2	400.6	350.2	244.5	265.3	259.3	266.2	252.3	243.6
80°	650.3	393.5	276.6	294.7	247.2	191.6	226.4	235.9	237.5	217.6	208.0
82.5°	278.4	203.7	187.2	184.7	176.0	148.3	183.0	192.4	194.3	182.0	145.6
85°	163.9	138.7	129.1	124.0	122.3	91.8	131.0	155.1	155.1	128.3	111.0
87.5°	102.2	101.5	91.1	91.1	95.4	65.0	90.2	106.7	100.6	76.3	60.6
90°	48.6	52.0	54.6	55.4	65.0	36.4	58.1	61.5	58.1	41.6	29.5
92.5°	39.0	44.2	47.7	49.4	59.0	31.3	52.0	55.4	52.9	41.6	29.5
95°	32.1	39.9	47.7	46.8	49.4	24.3	46.0	50.2	48.6	36.4	25.2
97.5°	26.1	32.1	39.0	39.0	45.0	20.8	42.5	47.7	46.8	33.0	24.3
100°	23.4	28.7	34.7	33.9	39.9	16.4	38.2	41.6	40.8	26.9	21.6
102.5°	20.8	23.4	26.9	26.9	29.5	13.8	28.7	32.1	30.4	22.5	21.6
105°	19.0	19.9	19.0	18.2	19.0	12.1	18.2	20.8	18.2	17.3	17.3
107.5°	18.2	18.2	15.6	14.7	13.8	10.4	13.0	13.8	12.1	15.6	17.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.2	17.3	13.8	13.0	11.3	9.5	10.4	10.4	10.4	15.6	16.4
112.5°	17.3	17.3	13.0	11.3	10.4	8.7	8.7	7.8	9.5	15.6	17.3
115°	17.3	16.4	12.1	10.4	8.7	7.8	6.9	6.9	8.7	15.6	17.3
117.5°	17.3	16.4	12.1	9.5	8.7	6.9	6.1	6.1	8.7	15.6	17.3
120°	17.3	17.3	12.1	8.7	7.8	6.9	6.1	6.1	8.7	14.7	16.4
122.5°	16.4	16.4	11.3	8.7	6.9	6.1	5.2	5.2	8.7	14.7	15.6
125°	15.6	15.6	11.3	7.8	6.1	5.2	5.2	5.2	8.7	13.8	15.6
127.5°	14.7	14.7	10.4	6.9	5.2	5.2	4.3	4.3	8.7	13.8	14.7
130°	13.8	13.8	9.5	6.1	5.2	4.3	3.5	4.3	8.7	13.0	13.8
132.5°	12.1	12.1	8.7	5.2	4.3	3.5	3.5	3.5	7.8	12.1	13.0
135°	10.4	10.4	7.8	5.2	4.3	3.5	2.6	3.5	6.9	10.4	11.3
137.5°	9.5	9.5	6.9	4.3	3.5	2.6	2.6	3.5	6.9	9.5	10.4
140°	6.9	6.9	5.2	3.5	2.6	2.6	1.7	2.6	6.1	7.8	8.7
142.5°	5.2	5.2	4.3	3.5	2.6	1.7	1.7	2.6	5.2	6.9	6.9
145°	4.3	4.3	3.5	2.6	2.6	1.7	0.9	1.7	4.3	6.1	6.1
147.5°	3.5	3.5	3.5	2.6	1.7	0.9	0.9	0.9	2.6	4.3	4.3
150°	2.6	2.6	2.6	2.6	1.7	0.0	0.0	0.0	1.7	2.6	2.6
152.5°	1.7	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9
155°	0.9	1.7	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	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)