

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: P266544

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T2U-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7056.7 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

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

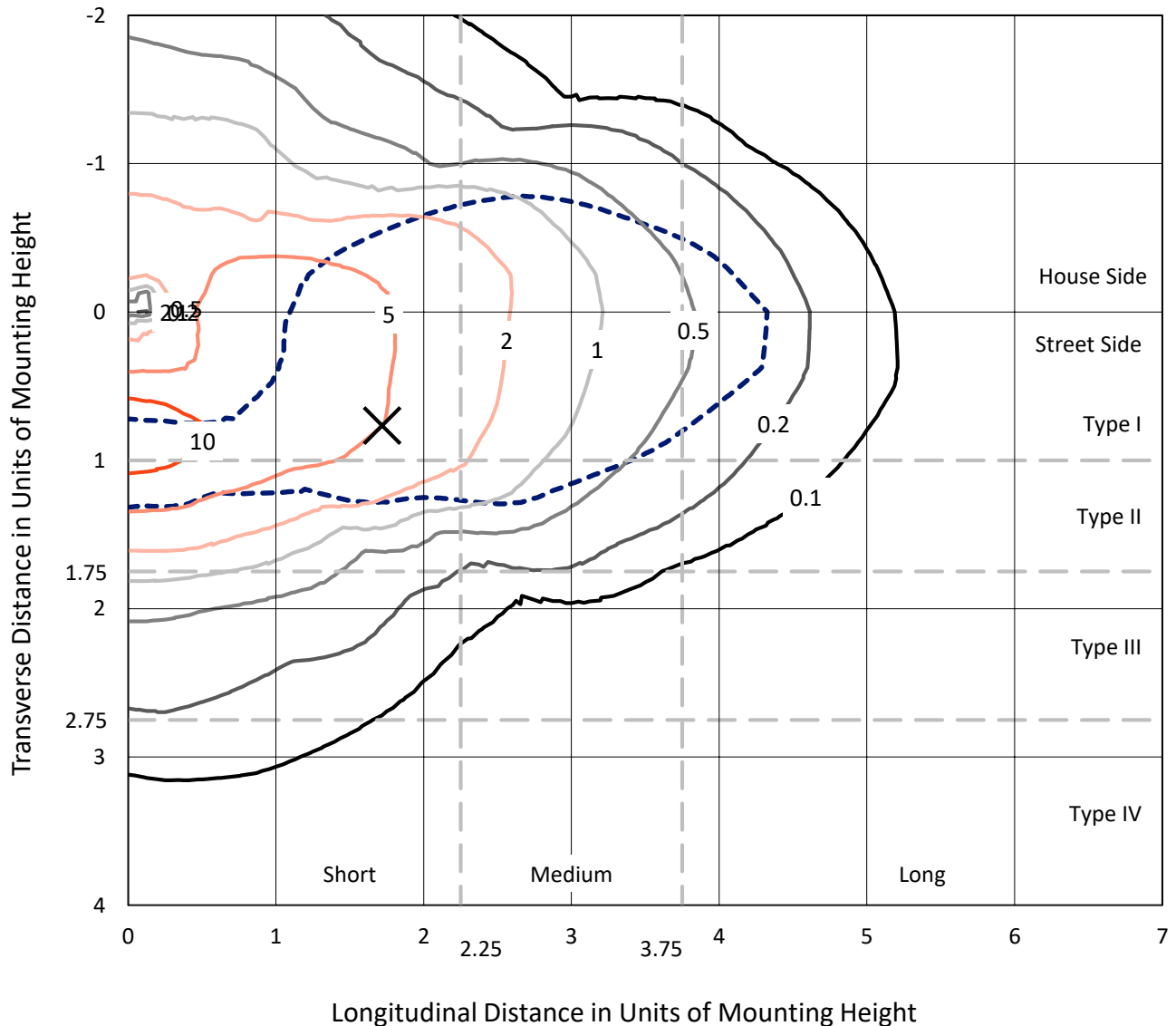


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

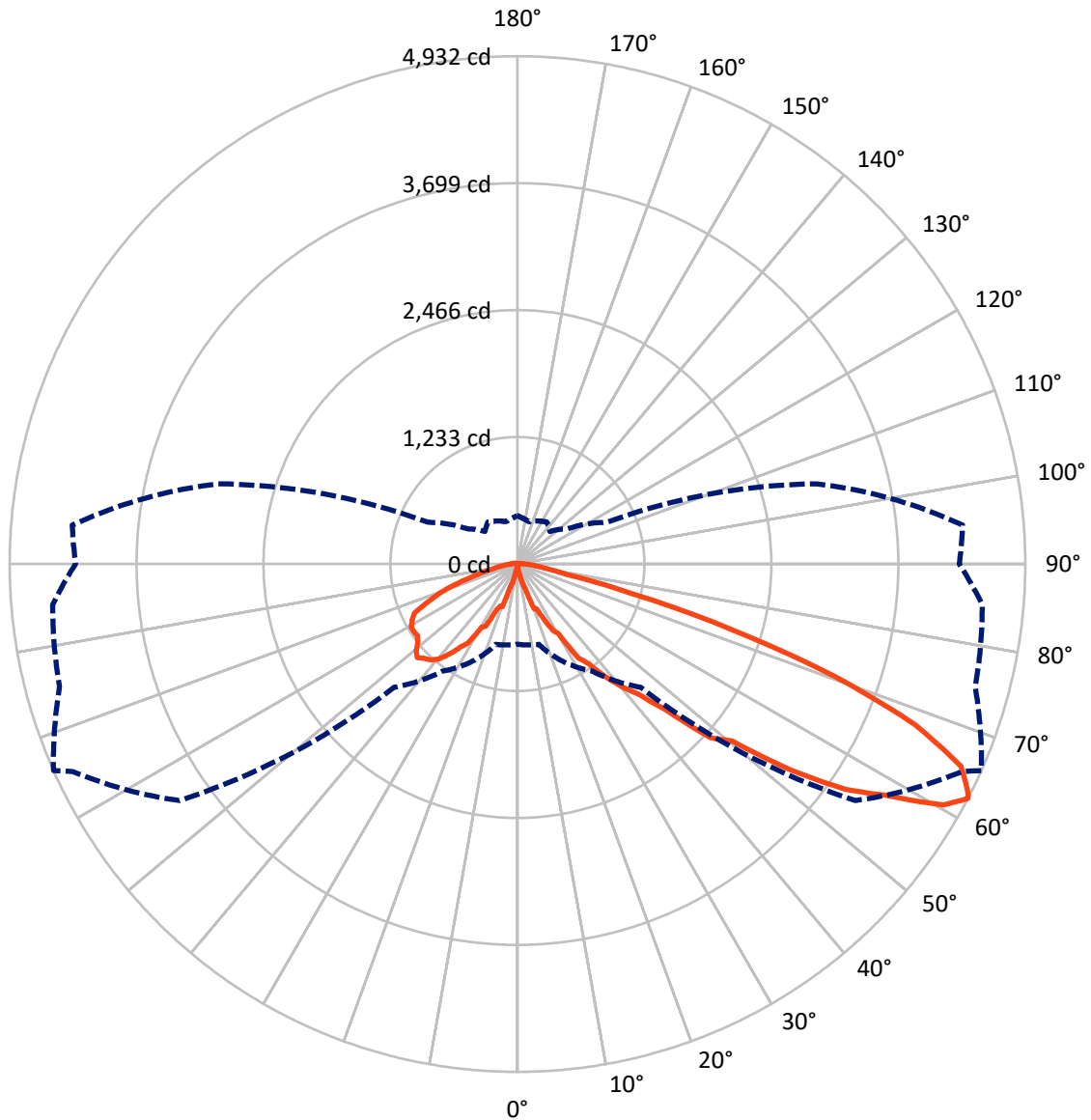


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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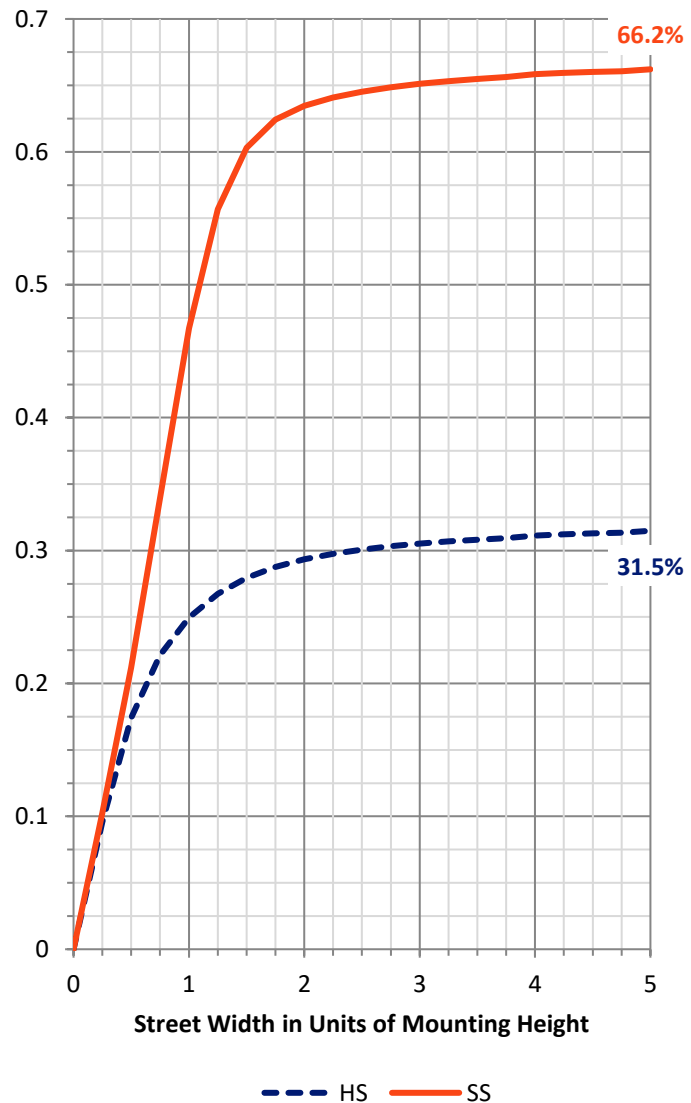
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2263.6	53.9	2317.5
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	4699.6	39.7	4739.2
	% Fixture	66.6	0.6	67.2
Total	Lumens	6963.2	93.6	7056.7
	% Fixture	98.7	1.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	71.6	1.0
20°-30°	283.7	4.0
30°-40°	706.8	10.0
40°-50°	1347.9	19.1
50°-60°	1838.3	26.1
60°-70°	1688.7	23.9
70°-80°	861.4	12.2
80°-90°	158.5	2.2
90°-100°	41.9	0.6
100°-110°	20.1	0.3
110°-120°	12.2	0.2
120°-130°	9.4	0.1
130°-140°	6.2	0.1
140°-150°	3.0	0.0
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6963.2	98.7
0°-180°	7056.7	100.0



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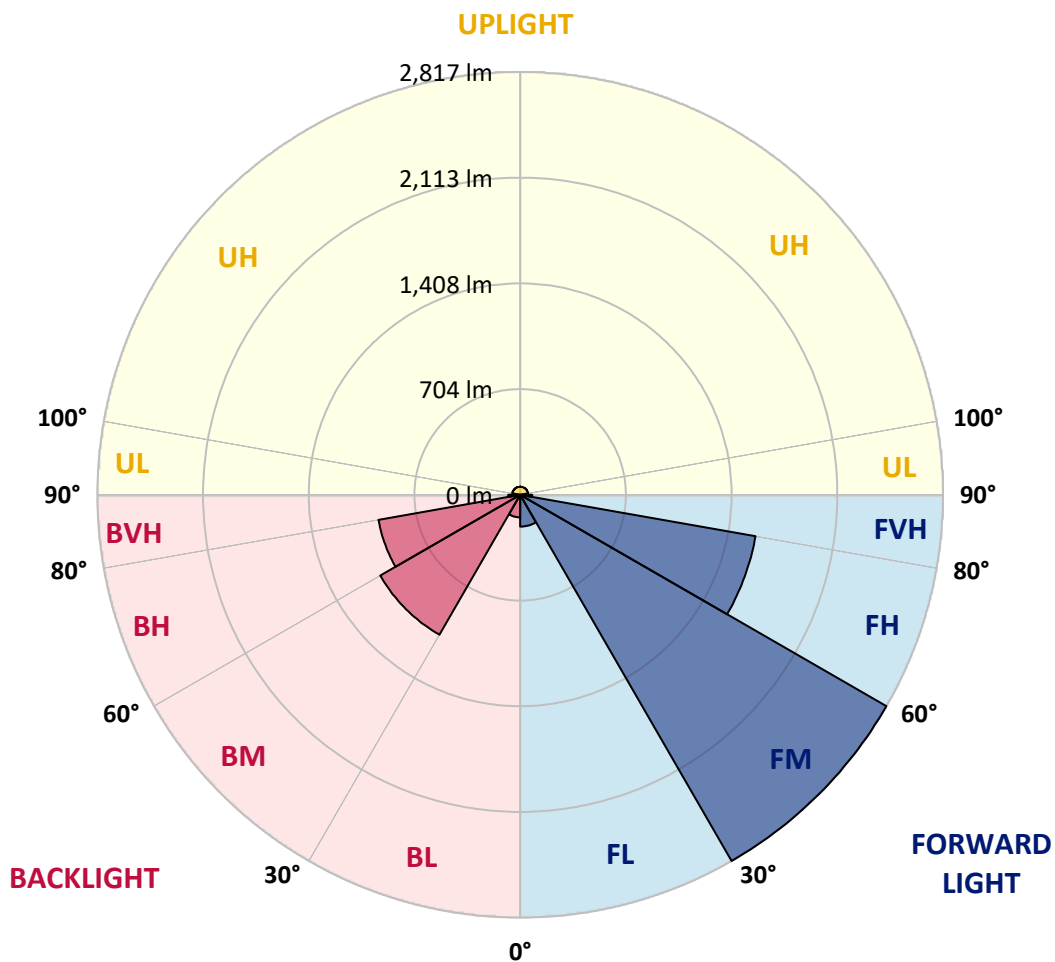
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.5	3.0			
FM (30°-60°)	2816.8	39.9			
FH (60°-80°)	1591.8	22.6			G1/1800
FVH (80°-90°)	79.5	1.1			G1/100
BL (0°-30°)	150.0	2.1	B1/500		
BM (30°-60°)	1076.3	15.3	B2/2500		
BH (60°-80°)	958.3	13.6	B2/1000		G2/1000
BVH (80°-90°)	79.0	1.1			G1/100
UL (90°-100°)	41.9	0.6		U2/50	
UH (100°-180°)	53.9	0.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	87.8	83.5	62.5	54.7	46.1	37.4	28.7	24.3	23.4	21.6	20.0
5°	87.8	87.8	90.4	95.6	106.0	96.5	101.7	36.6	34.8	23.4	19.1
7.5°	167.7	163.3	205.1	145.0	91.2	85.2	129.4	79.1	79.1	36.6	21.6
10°	226.7	226.0	277.1	177.2	163.3	198.0	87.8	90.4	90.4	62.5	30.5
12.5°	222.4	220.7	224.1	244.1	205.1	173.7	176.3	115.5	144.2	227.6	233.6
15°	312.8	329.3	311.9	238.9	218.9	218.1	281.4	213.7	217.2	250.2	183.3
17.5°	417.1	418.8	456.1	387.4	305.0	322.3	298.0	298.9	264.1	277.1	310.2
20°	454.5	446.5	467.5	433.5	433.5	385.7	304.0	430.9	463.0	435.3	430.1
22.5°	780.2	776.8	679.4	475.3	491.7	450.9	460.6	502.2	471.8	443.1	435.3
25°	889.7	878.5	844.4	810.6	602.9	632.4	557.8	545.6	579.4	699.4	756.7
27.5°	1183.3	1196.5	1021.7	912.3	813.2	680.2	637.7	783.7	727.2	765.4	756.7
30°	1489.2	1482.3	1420.5	1219.9	1021.7	844.4	846.3	822.8	784.6	901.9	1024.3
32.5°	1930.5	1953.2	1670.8	1460.6	1277.2	1027.8	931.5	1093.9	1086.9	1053.1	1099.0
35°	2406.6	2403.1	2172.1	1825.4	1381.5	1162.4	1113.0	1209.4	1185.9	1133.8	1219.0
37.5°	2709.0	2675.2	2517.9	2219.8	1689.1	1325.0	1342.3	1412.8	1389.3	1320.6	1477.9
40°	3146.9	3109.6	2921.8	2517.1	2106.0	1605.6	1703.7	1646.5	1570.0	1557.8	1577.9
42.5°	3307.6	3309.4	3126.0	2831.5	2468.4	2007.1	2058.2	1806.3	1729.0	1858.5	1814.9
45°	3358.0	3351.0	3223.4	3002.7	2703.8	2486.6	2323.2	2097.4	2019.2	2137.3	2184.3
47.5°	3247.7	3219.9	3240.7	2994.1	2952.3	2696.0	2662.0	2502.1	2519.6	2452.7	2563.0
50°	2951.4	2910.6	2965.3	2901.0	3079.1	2922.7	3317.3	2711.7	2702.0	2822.8	2960.2
52.5°	2491.8	2461.4	2638.6	2585.6	3051.4	3170.4	3447.5	3314.6	3323.3	3334.6	3259.9
55°	2041.8	2057.4	2192.9	2161.6	2649.0	3224.2	3882.8	3809.0	3859.4	3579.6	3580.5
57.5°	1457.9	1492.7	1736.9	1755.1	2207.8	2835.9	4232.1	4113.9	4243.4	3981.8	4040.0
60°	1004.3	1025.2	1157.2	1341.4	1656.8	2354.5	4046.1	4635.3	4752.6	4391.1	4388.5
62°	779.3	788.1	808.0	1043.6	1272.0	1692.4	4005.4	4766.3	4932.4	4603.1	4531.8
62.5°	722.9	732.4	745.5	947.1	1172.9	1538.6	3852.4	4795.1	4913.2	4630.0	4556.2
65°	578.7	583.0	553.4	629.9	828.9	919.2	2768.0	4660.3	4736.0	4596.9	4485.7
67.5°	536.1	520.4	479.5	458.8	620.3	592.5	1506.5	3972.2	4167.7	4399.8	4284.1
70°	443.9	478.7	445.6	410.0	495.2	455.4	639.5	3214.7	3269.4	4027.9	4012.3
72.5°	339.6	364.9	391.0	386.6	381.4	366.7	424.9	2008.7	2169.4	3305.9	3715.1
75°	275.4	285.8	340.5	329.3	338.8	290.2	334.4	954.9	1155.5	2339.7	3231.2
77.5°	221.5	228.4	265.0	255.5	280.6	226.7	266.7	432.7	490.0	1344.9	2213.0
80°	146.9	150.2	192.9	191.1	205.1	200.7	201.6	303.2	306.7	629.1	1158.2
82.5°	109.5	107.7	132.9	133.8	132.9	145.0	138.2	207.7	216.3	308.5	385.0
85°	71.2	68.6	79.1	84.4	80.8	79.9	104.3	146.0	152.1	219.8	229.3
87.5°	39.0	41.7	52.1	52.1	54.7	53.9	85.2	97.2	101.7	146.9	123.3
90°	26.1	26.1	28.7	27.8	29.6	28.7	44.2	57.3	58.2	73.8	66.0
92.5°	23.4	25.2	28.7	28.7	31.4	26.9	40.0	48.7	49.5	59.9	50.3
95°	20.8	21.6	24.3	25.2	26.9	19.1	30.5	40.0	40.9	49.5	40.9
97.5°	17.3	19.1	20.8	21.6	24.3	17.3	25.2	32.2	33.0	38.2	31.4
100°	17.3	18.2	18.2	18.2	20.8	14.7	21.6	27.8	28.7	31.4	26.1
102.5°	16.4	17.3	16.4	15.6	17.3	13.0	19.1	23.4	23.4	22.5	21.6
105°	16.4	16.4	14.0	12.1	14.7	12.1	16.4	17.3	17.3	17.3	20.0
107.5°	15.6	15.6	13.0	11.3	12.1	10.4	14.0	14.7	14.7	15.6	19.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	14.7	14.0	11.3	9.5	9.5	9.5	11.3	12.1	12.1	14.0	20.0
112.5°	13.0	13.0	9.5	8.8	8.8	8.8	10.4	11.3	11.3	13.0	19.1
115°	12.1	12.1	9.5	7.8	7.8	7.8	9.5	10.4	10.4	12.1	19.1
117.5°	13.0	12.1	8.8	7.8	6.9	6.9	7.8	9.5	9.5	12.1	19.1
120°	11.3	11.3	8.8	6.9	6.1	6.9	7.8	8.8	9.5	13.0	19.1
122.5°	12.1	11.3	8.8	6.1	6.1	6.1	6.9	8.8	8.8	12.1	17.3
125°	11.3	10.4	7.8	6.1	5.2	6.1	6.9	7.8	8.8	12.1	17.3
127.5°	11.3	10.4	7.8	6.1	5.2	5.2	6.9	7.8	7.8	11.3	16.4
130°	10.4	10.4	6.9	5.2	5.2	5.2	6.1	6.9	6.9	10.4	14.7
132.5°	9.5	8.8	6.9	5.2	4.3	5.2	6.1	6.1	6.1	9.5	14.0
135°	8.8	8.8	6.9	5.2	4.3	4.3	5.2	6.1	6.1	8.8	12.1
137.5°	7.8	7.8	6.9	5.2	4.3	4.3	4.3	5.2	5.2	7.8	10.4
140°	7.8	7.8	6.9	5.2	4.3	4.3	4.3	4.3	4.3	6.1	8.8
142.5°	7.8	7.8	6.9	5.2	4.3	3.5	3.5	3.5	3.5	5.2	6.9
145°	6.9	6.9	6.1	5.2	3.5	2.6	2.6	3.5	3.5	4.3	5.2
147.5°	6.9	6.9	6.1	4.3	2.6	1.7	1.7	2.6	2.6	3.5	4.3
150°	5.2	5.2	5.2	3.5	1.7	0.0	1.7	1.7	1.7	3.5	3.5
152.5°	3.5	3.5	2.6	1.7	0.9	0.9	0.9	1.7	1.7	1.7	2.6
155°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.9	0.9	1.7	1.7
157.5°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
162.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9
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°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	20.0	19.1	19.1	19.1	20.0	20.0	20.0	19.1	18.2	18.2	18.2
5°	18.2	17.3	17.3	17.3	18.2	18.2	18.2	18.2	18.2	18.2	18.2
7.5°	20.0	18.2	18.2	17.3	17.3	18.2	20.0	29.6	51.3	72.1	84.4
10°	27.8	27.8	24.3	22.5	22.5	33.0	122.4	132.9	132.9	126.0	121.6
12.5°	252.0	199.0	175.4	61.8	50.3	102.5	117.3	110.3	152.9	178.1	188.6
15°	182.4	199.9	215.5	193.8	261.5	109.5	177.2	215.5	290.2	293.7	296.4
17.5°	306.7	331.0	238.9	208.5	244.1	324.1	265.0	274.5	274.5	274.5	275.4
20°	431.8	439.6	458.8	438.7	245.0	341.4	339.6	276.3	311.1	387.4	409.2
22.5°	458.8	474.3	451.8	438.0	517.9	318.9	351.0	439.6	444.8	424.0	434.4
25°	778.6	755.8	663.8	467.5	517.0	445.6	453.6	411.9	423.1	411.0	418.8
27.5°	772.5	760.2	686.3	674.2	543.0	527.3	421.3	475.3	504.8	523.9	520.4
30°	1079.0	1007.9	795.0	695.9	641.2	504.8	463.0	450.1	446.5	469.2	470.9
32.5°	1084.3	1073.8	915.7	900.1	659.4	510.9	437.0	411.0	469.2	500.4	495.2
35°	1258.0	1204.2	1047.0	971.3	757.6	480.5	390.1	411.0	420.4	443.1	442.2
37.5°	1413.7	1397.0	1268.4	1073.0	729.9	438.0	440.4	438.0	426.5	430.1	430.1
40°	1620.4	1529.2	1414.4	1167.6	682.9	469.2	475.3	413.6	402.4	396.2	396.2
42.5°	1866.3	1711.6	1605.6	1213.8	649.0	552.5	450.1	404.0	392.6	375.3	372.7
45°	2156.4	1964.5	1805.5	1228.5	544.7	572.6	467.5	459.7	422.3	406.7	400.6
47.5°	2411.1	2256.4	2035.6	1252.9	631.7	546.4	615.1	522.2	407.6	430.1	426.5
50°	2793.3	2594.3	2197.3	1191.2	675.0	530.9	639.5	457.0	419.7	450.1	448.3
52.5°	3131.2	2941.9	2366.7	1098.2	638.5	734.2	567.4	523.9	486.5	470.9	469.2
55°	3484.9	3295.5	2481.4	1051.2	630.8	587.3	589.9	567.4	439.6	473.4	472.7
57.5°	3891.5	3787.3	2730.8	1031.3	646.4	518.7	589.9	474.3	501.3	473.4	478.7
60°	4108.7	4108.7	2875.8	1011.3	596.8	532.5	506.6	521.2	435.3	440.4	454.5
62°	4291.2	4339.8	3008.8	958.3	595.1	446.5	497.8	460.6	425.7	451.8	469.2
62.5°	4352.8	4390.1	3048.8	947.9	609.9	423.1	461.4	459.7	441.3	444.8	460.6
65°	4412.8	4585.7	3144.2	881.9	561.4	399.7	394.4	436.1	382.3	365.8	366.7
67.5°	4355.4	4593.6	3112.2	709.8	455.4	343.2	348.5	364.1	344.9	338.8	342.3
70°	4146.0	4242.4	2784.6	585.5	392.6	314.5	334.4	321.5	316.3	315.3	314.5
72.5°	3859.4	3676.0	2186.8	440.4	338.0	272.8	286.6	296.4	298.0	293.7	288.4
75°	3255.5	2887.2	1426.6	330.1	270.2	231.1	261.5	269.3	276.3	264.1	259.8
77.5°	2234.7	1820.1	738.4	262.3	233.6	193.8	229.3	241.6	248.6	230.2	232.8
80°	1037.5	830.7	341.4	214.7	193.8	160.7	194.7	210.3	219.8	195.6	186.8
82.5°	350.1	319.7	205.9	165.9	159.0	122.4	157.3	175.4	178.1	162.5	138.2
85°	208.5	209.3	144.2	127.6	117.3	76.4	112.9	138.2	138.2	114.7	93.9
87.5°	120.0	134.7	110.3	97.2	87.8	52.1	84.4	94.7	93.0	73.0	52.1
90°	59.9	70.3	65.1	64.3	66.0	33.0	66.0	71.2	71.2	50.3	32.2
92.5°	44.2	53.9	58.2	54.7	55.7	25.2	53.0	53.9	53.0	39.0	25.2
95°	37.4	46.9	58.2	54.7	53.0	20.8	48.7	49.5	50.3	38.2	27.8
97.5°	29.6	35.7	45.2	44.2	47.8	17.3	44.2	44.2	42.6	31.4	23.4
100°	26.9	31.4	38.2	38.2	41.7	15.6	39.0	35.7	33.9	25.2	21.6
102.5°	22.5	25.2	29.6	28.7	31.4	14.7	28.7	27.8	26.1	21.6	20.8
105°	21.6	22.5	22.5	20.8	21.6	14.0	20.0	19.1	18.2	18.2	19.1
107.5°	20.8	20.8	19.1	17.3	17.3	13.0	14.7	14.0	14.7	19.1	20.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	20.8	20.8	17.3	15.6	14.0	12.1	13.0	11.3	13.0	19.1	20.8
112.5°	20.8	20.8	15.6	13.0	13.0	11.3	11.3	10.4	12.1	19.1	20.8
115°	20.0	20.0	14.7	12.1	11.3	10.4	10.4	9.5	12.1	19.1	20.8
117.5°	20.0	20.0	14.7	12.1	10.4	9.5	9.5	8.8	12.1	20.0	20.8
120°	20.0	20.0	14.7	11.3	10.4	9.5	8.8	8.8	12.1	19.1	20.8
122.5°	19.1	18.2	14.0	10.4	9.5	8.8	8.8	8.8	12.1	20.0	20.8
125°	18.2	17.3	14.0	10.4	8.8	8.8	7.8	7.8	12.1	19.1	20.0
127.5°	17.3	17.3	13.0	9.5	8.8	7.8	7.8	7.8	12.1	20.0	20.0
130°	16.4	15.6	12.1	8.8	7.8	6.9	6.9	7.8	13.0	18.2	19.1
132.5°	14.7	14.0	11.3	7.8	6.9	6.9	6.9	6.9	12.1	18.2	18.2
135°	12.1	12.1	9.5	6.9	6.1	6.1	6.1	6.9	11.3	15.6	16.4
137.5°	11.3	10.4	8.8	6.9	5.2	6.1	6.1	6.9	11.3	14.7	15.6
140°	9.5	8.8	6.9	5.2	5.2	5.2	5.2	6.1	9.5	13.0	14.0
142.5°	6.9	6.9	6.1	4.3	4.3	4.3	4.3	6.1	8.8	11.3	11.3
145°	6.1	6.1	5.2	4.3	3.5	2.6	2.6	4.3	6.9	9.5	9.5
147.5°	4.3	4.3	4.3	3.5	2.6	2.6	2.6	3.5	5.2	6.9	6.9
150°	3.5	3.5	3.5	2.6	2.6	1.7	1.7	2.6	4.3	5.2	5.2
152.5°	2.6	2.6	2.6	2.6	1.7	1.7	1.7	1.7	2.6	3.5	3.5
155°	1.7	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	1.7	1.7
157.5°	0.9	0.9	0.9	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0
160°	0.9	0.9	0.9	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	1.7	1.7	0.9	0.9	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)