

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: P266503

Luminaire Tested: **UTLD-AF24-90-D-U-SL3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
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-SL3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6847.8 lumens
Efficiency: N/A
Efficacy: 72.8 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

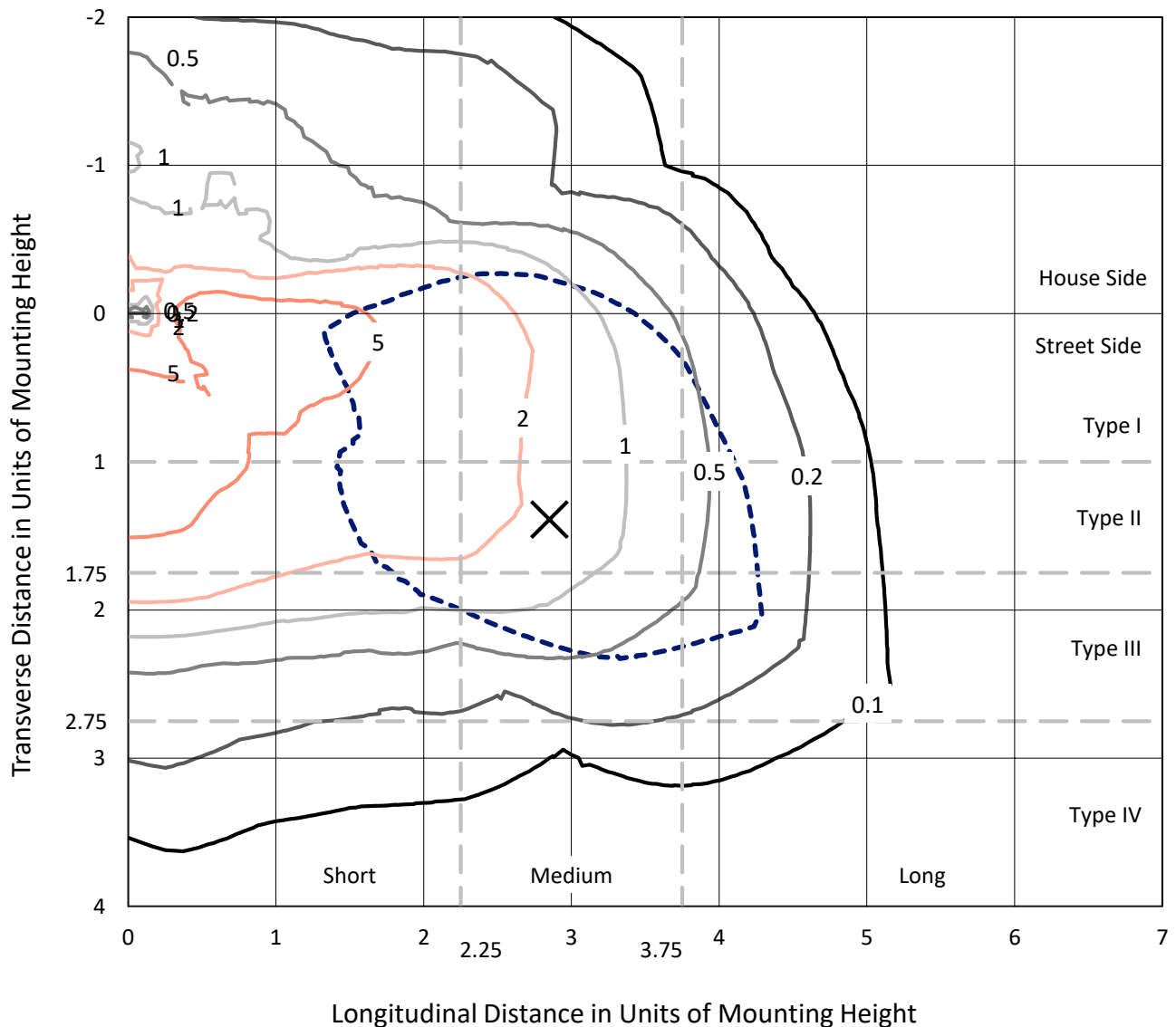
Input Watts (W): 94
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

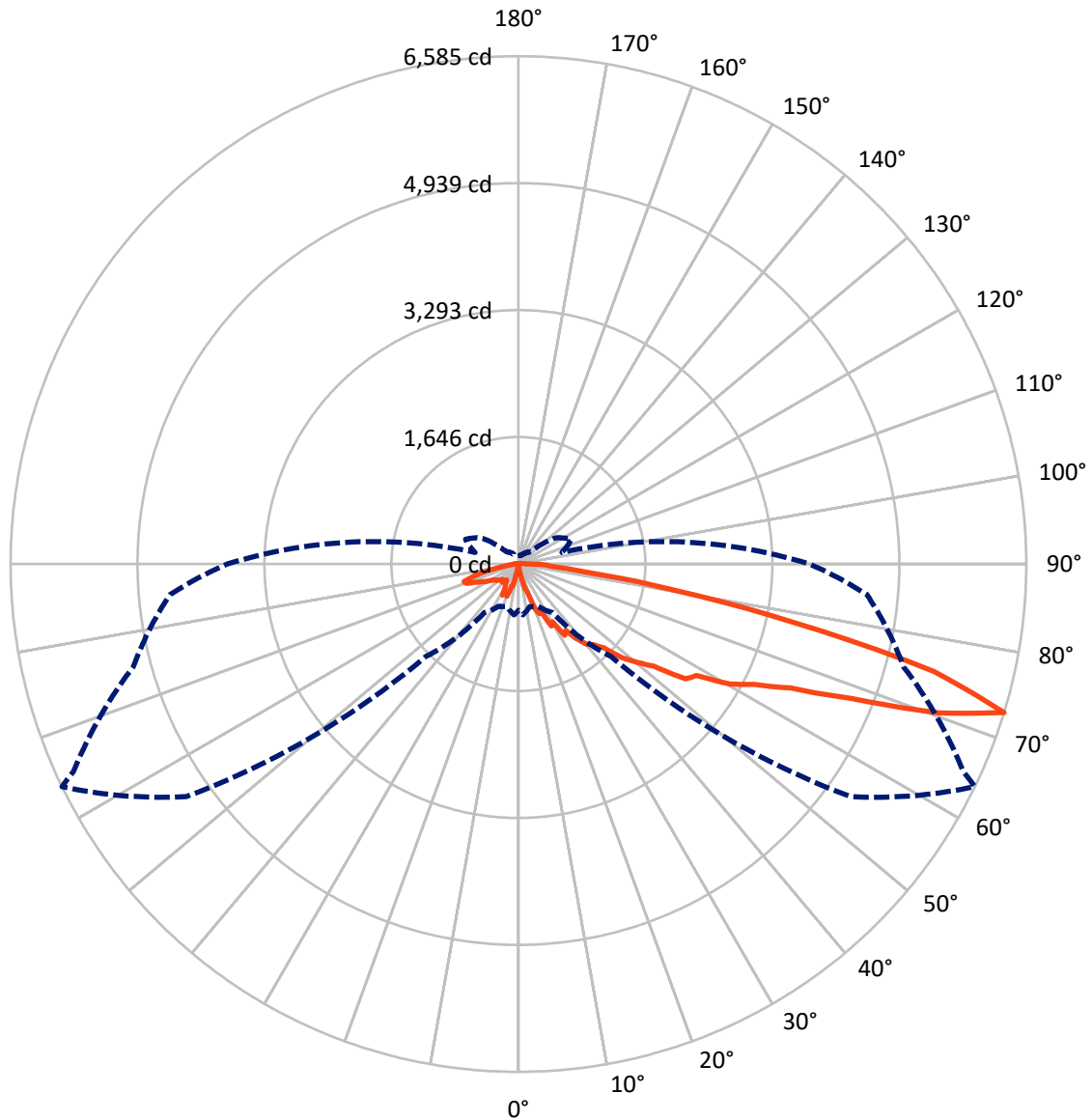
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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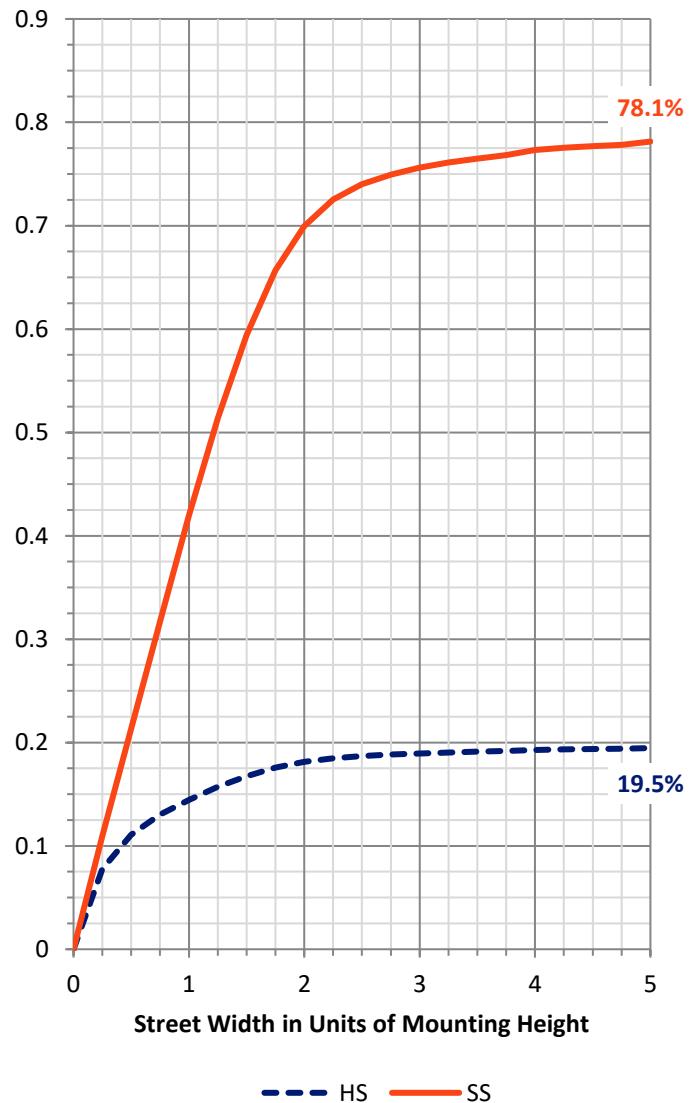
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1355.5	42.2	1397.7
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	5406.4	43.6	5450.0
	% Fixture	79.0	0.6	79.6
Total	Lumens	6761.9	85.8	6847.8
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	91.4	1.3
20°-30°	269.0	3.9
30°-40°	533.6	7.8
40°-50°	920.8	13.4
50°-60°	1488.5	21.7
60°-70°	1886.5	27.5
70°-80°	1351.6	19.7
80°-90°	212.0	3.1
90°-100°	42.7	0.6
100°-110°	19.0	0.3
110°-120°	9.7	0.1
120°-130°	7.2	0.1
130°-140°	4.5	0.1
140°-150°	2.2	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6761.9	98.7
0°-180°	6847.8	100.0

Coefficient of Utilization



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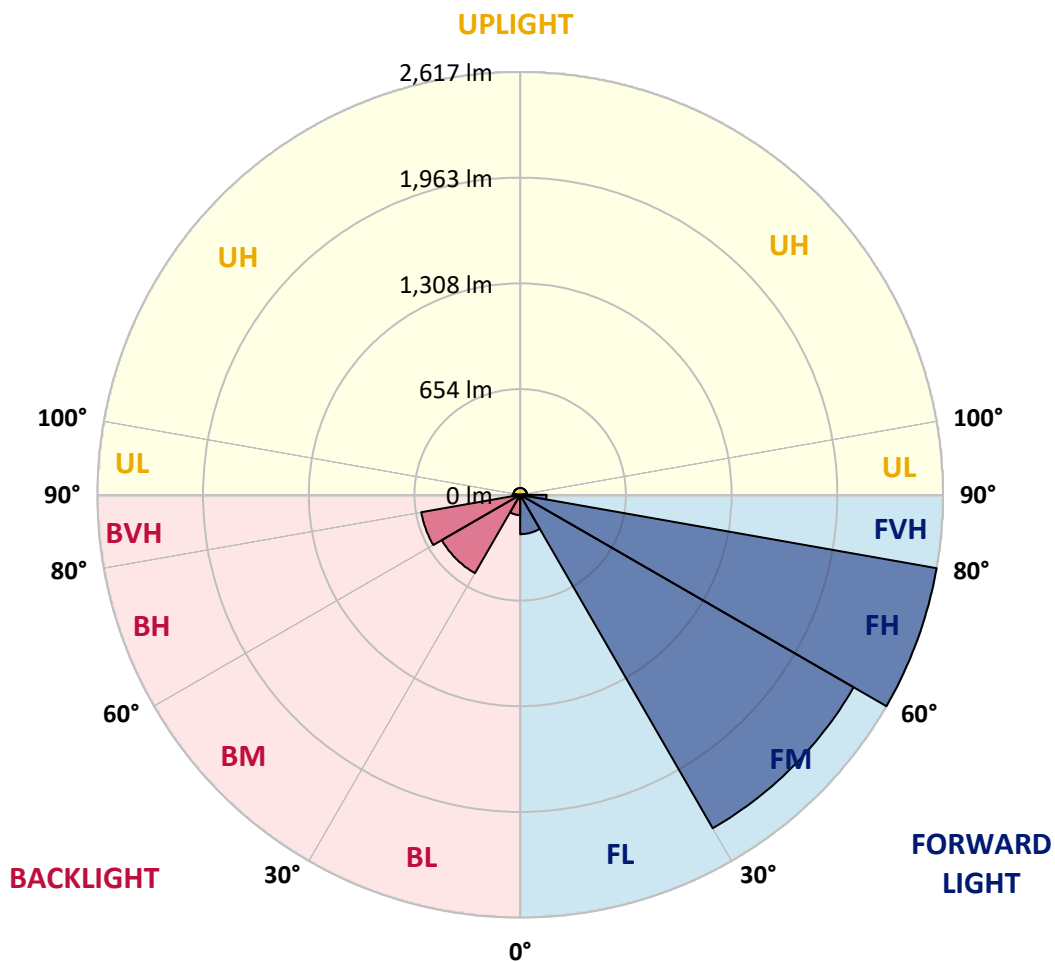
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.5	3.6			
FM	(30°-60°)	2382.9	34.8			
FH	(60°-80°)	2616.9	38.2			G2/5000
FVH	(80°-90°)	163.1	2.4			G2/225
BL	(0°-30°)	125.4	1.8	B1/500		
BM	(30°-60°)	560.0	8.2	B1/1000		
BH	(60°-80°)	621.3	9.1	B2/1000		G2/1000
BVH	(80°-90°)	48.9	0.7			G1/100
UL	(90°-100°)	42.7	0.6		U2/50	
UH	(100°-180°)	42.2	0.6		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
2.5°	47.7	42.5	44.2	39.0	33.0	26.9	22.5	19.9	19.9	19.0	17.3
5°	165.6	169.2	189.9	159.4	144.7	189.1	52.9	30.4	28.7	19.9	16.4
7.5°	221.2	231.6	165.6	137.9	129.1	208.0	155.1	85.0	70.2	26.1	18.2
10°	418.8	390.1	263.7	287.8	268.0	170.8	113.5	116.2	106.7	42.5	29.5
12.5°	374.6	378.8	387.6	352.0	362.5	268.9	137.9	226.4	242.0	272.2	255.7
15°	436.9	418.8	352.0	383.2	365.0	424.9	357.3	332.9	365.9	376.3	313.0
17.5°	593.1	580.0	673.6	459.6	333.8	477.7	424.9	389.2	370.2	412.7	498.6
20°	545.5	546.2	585.2	519.4	539.3	439.6	427.5	628.6	754.3	715.3	695.4
22.5°	821.1	796.0	661.5	515.8	569.6	503.8	600.8	701.4	665.9	649.5	701.4
25°	797.7	807.1	767.3	775.1	570.6	673.6	625.9	669.3	711.8	1021.4	1151.4
27.5°	980.6	926.8	880.9	802.8	785.6	633.8	605.2	909.5	933.8	1024.0	1079.5
30°	1290.1	1263.2	1179.1	916.5	820.2	681.5	828.0	870.5	886.1	1205.2	1491.2
32.5°	1637.8	1538.9	1296.3	1199.1	892.1	841.1	779.5	1101.1	1082.9	1336.0	1506.8
35°	1893.5	1834.7	1605.7	1304.0	1072.5	899.2	1049.1	1058.7	1151.4	1398.5	1520.8
37.5°	1839.9	1856.3	1761.8	1556.4	1180.1	972.0	1135.0	1233.0	1241.5	1514.7	1611.7
40°	1979.4	1989.8	1956.9	1727.1	1361.2	1118.5	1275.5	1367.3	1294.5	1657.7	1722.8
42.5°	2060.9	2077.4	2140.8	1975.2	1535.6	1278.8	1495.7	1430.6	1366.4	1780.9	1959.6
45°	2238.7	2230.0	2257.8	2060.9	1793.8	1609.3	1570.1	1550.2	1574.5	2002.1	2187.6
47.5°	2486.7	2521.4	2384.3	2102.6	1988.0	1690.7	1779.2	1817.4	1909.2	2288.2	2419.0
50°	2853.3	2809.2	2645.2	2287.3	2179.7	1798.2	2179.7	2004.6	1956.9	2549.1	2765.0
52.5°	3002.6	2973.8	2741.5	2365.2	2299.4	2002.1	2247.4	2203.2	2186.7	2909.8	3149.9
55°	3061.6	3040.8	2944.5	2379.2	2407.7	2306.3	2577.6	2628.8	2601.1	3138.7	3538.3
57.5°	2905.5	2940.2	2947.1	2435.6	2481.5	2341.8	3097.0	2726.8	2925.4	3425.6	3840.2
60°	2693.8	2695.6	2787.5	2428.6	2550.0	2569.1	3209.7	3159.5	3345.0	3577.4	3923.3
62.5°	2171.1	2232.6	2384.3	2380.0	2645.2	2863.7	3763.8	3439.5	3512.4	3731.6	4184.3
65°	1440.2	1473.1	1657.0	1973.3	2475.4	3098.8	4219.0	3874.7	3978.0	4025.7	4564.1
67.5°	859.1	900.0	926.1	1260.7	2067.0	3145.7	5163.2	4647.3	4553.7	4470.4	4944.7
70°	717.8	744.8	669.3	754.3	1263.2	2856.0	5618.4	5777.9	5473.6	5072.2	5025.3
72.5°	601.8	660.7	570.6	603.4	769.0	1695.0	5259.4	6585.1	6364.0	5172.7	4533.7
75°	446.5	528.9	475.2	541.9	710.1	870.5	3968.4	5564.6	5495.2	4483.4	3365.1
77.5°	348.5	363.3	297.3	409.3	682.4	719.6	2380.9	3668.4	3608.6	2858.5	1560.6
80°	244.5	250.5	234.9	213.3	527.1	674.5	1206.1	2034.0	1907.6	887.9	518.5
82.5°	154.2	164.7	183.9	144.7	255.7	629.4	665.0	895.6	797.7	301.7	257.5
85°	92.7	101.5	113.5	101.5	119.7	481.2	515.0	460.4	420.4	183.9	163.0
87.5°	53.8	56.4	68.5	70.2	89.3	280.0	411.0	342.4	300.8	122.3	105.8
90°	37.3	34.7	34.7	36.4	46.0	122.3	201.1	119.7	120.6	64.1	55.4
92.5°	28.7	28.7	31.3	31.3	44.2	107.4	92.7	64.1	60.6	53.8	44.2
95°	21.6	23.4	23.4	25.2	30.4	33.0	46.0	47.7	47.7	48.6	39.0
97.5°	18.2	19.9	19.9	20.8	24.3	25.2	32.1	41.6	41.6	40.8	32.1
100°	17.3	18.2	17.3	17.3	19.9	19.0	26.1	35.6	37.3	35.6	27.8
102.5°	16.4	17.3	15.6	13.8	17.3	13.8	21.6	32.1	33.0	26.1	21.6
105°	16.4	16.4	13.8	11.3	13.8	11.3	18.2	22.5	22.5	18.2	20.8
107.5°	16.4	15.6	12.1	9.5	10.4	9.5	14.7	14.7	14.7	13.8	19.9
110°	14.7	13.8	11.3	8.7	7.8	7.8	10.4	10.4	10.4	12.1	19.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	13.0	12.1	9.5	6.9	6.1	6.1	6.9	7.8	7.8	11.3	19.0
115°	11.3	11.3	8.7	6.9	5.2	5.2	6.1	6.9	6.9	10.4	18.2
117.5°	11.3	11.3	7.8	6.1	4.3	4.3	5.2	6.1	6.1	10.4	19.0
120°	11.3	11.3	7.8	5.2	4.3	3.5	4.3	5.2	5.2	11.3	19.9
122.5°	10.4	10.4	7.8	5.2	3.5	3.5	3.5	5.2	5.2	10.4	18.2
125°	10.4	10.4	6.9	5.2	3.5	3.5	3.5	4.3	5.2	11.3	18.2
127.5°	9.5	9.5	7.8	5.2	3.5	2.6	3.5	4.3	4.3	10.4	17.3
130°	9.5	9.5	6.9	4.3	2.6	2.6	2.6	3.5	4.3	9.5	15.6
132.5°	8.7	8.7	6.1	4.3	2.6	1.7	2.6	3.5	3.5	8.7	13.8
135°	8.7	8.7	6.9	4.3	2.6	1.7	2.6	3.5	3.5	7.8	12.1
137.5°	7.8	7.8	6.1	4.3	2.6	1.7	1.7	2.6	3.5	7.8	11.3
140°	7.8	7.8	6.9	5.2	2.6	1.7	1.7	2.6	2.6	6.1	8.7
142.5°	8.7	8.7	6.9	4.3	2.6	1.7	1.7	1.7	2.6	4.3	6.9
145°	7.8	7.8	6.1	4.3	2.6	0.9	0.9	1.7	2.6	4.3	6.1
147.5°	7.8	7.8	6.9	4.3	1.7	0.9	0.9	1.7	1.7	3.5	5.2
150°	6.9	6.9	5.2	2.6	0.9	0.0	0.9	1.7	1.7	2.6	4.3
152.5°	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.9	0.9	1.7	2.6
155°	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7
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°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
2.5°	17.3	17.3	17.3	17.3	16.4	16.4	15.6	15.6	15.6	15.6	15.6
5°	16.4	16.4	16.4	15.6	14.7	13.8	14.7	13.8	13.8	13.8	13.8
7.5°	17.3	17.3	15.6	14.7	14.7	14.7	19.0	115.3	254.8	218.5	227.1
10°	32.1	30.4	26.1	21.6	19.9	114.4	218.5	200.3	152.6	127.5	131.0
12.5°	318.2	286.1	184.7	128.3	147.4	151.8	137.0	149.9	244.5	223.7	224.5
15°	318.2	326.1	267.1	300.8	260.1	121.5	234.1	279.3	271.4	249.6	261.9
17.5°	537.5	534.1	332.9	306.1	251.4	254.0	220.3	191.6	177.8	175.1	177.8
20°	796.7	664.1	634.7	462.1	282.6	259.3	182.0	154.2	196.8	242.8	248.8
22.5°	701.4	701.4	569.6	412.7	349.4	221.9	198.5	196.8	235.9	233.2	244.5
25°	1184.3	1029.2	737.9	397.9	305.2	225.5	201.1	183.0	205.5	236.8	234.1
27.5°	1092.5	1013.6	729.2	478.5	239.3	245.3	185.5	180.3	231.6	248.8	250.5
30°	1378.5	1270.3	737.0	359.9	241.0	189.1	171.7	183.9	193.3	209.8	211.6
32.5°	1427.9	1292.8	707.4	324.3	254.0	182.0	174.4	173.5	196.8	226.4	228.9
35°	1397.7	1240.6	666.7	273.2	254.8	183.9	178.7	197.6	180.3	210.7	215.1
37.5°	1605.7	1266.7	601.8	254.8	234.1	189.1	234.1	189.1	188.1	197.6	199.5
40°	1603.1	1324.8	528.1	311.3	234.1	311.3	244.5	196.8	169.2	185.5	186.4
42.5°	1732.3	1357.8	462.9	320.9	252.3	360.7	228.0	191.6	201.1	211.6	221.9
45°	1881.5	1461.8	433.5	288.7	284.5	279.3	237.5	249.6	182.0	292.2	304.3
47.5°	2085.2	1595.3	393.6	282.6	385.8	280.9	452.6	232.3	200.3	345.9	352.9
50°	2389.5	1830.2	397.1	310.5	353.8	300.8	304.3	252.3	270.5	359.9	361.6
52.5°	2713.8	2027.1	373.6	342.4	347.6	369.4	324.3	377.2	266.2	345.9	345.9
55°	3000.8	2317.5	385.0	360.7	363.3	321.7	456.9	278.4	265.3	347.6	356.4
57.5°	3375.4	2628.0	462.1	377.2	372.8	343.3	352.9	345.0	312.2	353.8	359.0
60°	3573.8	2854.3	579.1	424.0	390.1	396.2	417.9	332.1	283.5	413.6	430.1
62.5°	3888.7	3180.3	733.6	480.4	495.1	405.8	356.4	361.6	301.7	329.5	332.9
65°	4251.9	3519.3	809.8	535.7	533.2	450.9	404.1	280.9	195.9	181.2	180.3
67.5°	4525.0	3650.3	741.3	599.1	665.0	432.7	277.4	199.5	150.8	142.2	144.7
70°	4349.1	3351.0	634.7	718.7	672.8	335.5	239.3	158.7	129.1	121.5	125.8
72.5°	3773.3	2707.8	582.6	758.7	590.5	226.4	178.7	139.5	116.2	108.3	110.1
75°	2667.0	1740.1	598.2	642.5	419.7	163.9	154.2	116.2	103.1	92.7	92.7
77.5°	1171.4	745.7	469.0	462.9	268.9	130.1	131.0	96.3	89.3	79.8	79.8
80°	471.7	394.4	275.7	268.0	179.5	102.2	104.1	79.8	80.7	67.6	63.3
82.5°	249.6	225.5	153.5	143.9	128.3	79.0	73.8	68.5	67.6	55.4	48.6
85°	163.9	148.3	100.6	93.7	95.4	58.1	61.5	65.0	59.8	46.0	32.1
87.5°	101.5	100.6	71.1	67.6	71.1	41.6	50.2	52.9	50.2	34.7	20.8
90°	47.7	52.0	47.7	46.8	46.8	19.9	39.0	41.6	40.8	27.8	16.4
92.5°	37.3	42.5	44.2	45.0	45.0	20.8	40.8	43.4	41.6	28.7	18.2
95°	32.1	37.3	43.4	43.4	42.5	16.4	38.2	42.5	39.9	26.9	17.3
97.5°	26.9	31.3	37.3	37.3	40.8	13.8	35.6	40.8	39.9	28.7	18.2
100°	25.2	29.5	33.0	33.9	37.3	13.0	32.1	36.4	35.6	23.4	19.0
102.5°	23.4	25.2	26.1	26.9	27.8	12.1	25.2	27.8	26.9	17.3	17.3
105°	21.6	21.6	19.0	18.2	18.2	11.3	15.6	19.0	15.6	13.8	15.6
107.5°	21.6	20.8	15.6	13.8	13.8	10.4	12.1	12.1	10.4	13.8	14.7
110°	21.6	19.9	13.8	12.1	11.3	9.5	9.5	8.7	8.7	13.8	14.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.8	19.0	12.1	10.4	10.4	8.7	7.8	6.9	7.8	13.8	15.6
115°	19.9	18.2	11.3	10.4	9.5	7.8	6.9	5.2	7.8	14.7	16.4
117.5°	19.9	18.2	11.3	9.5	8.7	6.9	6.1	5.2	7.8	14.7	16.4
120°	20.8	18.2	11.3	8.7	7.8	6.1	5.2	5.2	7.8	14.7	16.4
122.5°	19.9	17.3	10.4	7.8	6.9	6.1	5.2	5.2	7.8	14.7	15.6
125°	19.0	17.3	10.4	6.9	6.1	5.2	4.3	4.3	8.7	14.7	15.6
127.5°	18.2	16.4	9.5	6.1	5.2	5.2	4.3	4.3	8.7	13.8	14.7
130°	16.4	14.7	9.5	6.1	4.3	4.3	3.5	3.5	8.7	13.8	14.7
132.5°	14.7	13.8	8.7	5.2	3.5	3.5	3.5	3.5	7.8	12.1	13.0
135°	13.0	11.3	7.8	4.3	3.5	2.6	2.6	2.6	6.9	10.4	11.3
137.5°	11.3	10.4	6.9	4.3	2.6	2.6	1.7	1.7	6.1	9.5	10.4
140°	9.5	8.7	6.1	3.5	2.6	2.6	1.7	1.7	4.3	6.9	7.8
142.5°	6.9	6.9	5.2	3.5	2.6	1.7	1.7	1.7	4.3	6.1	6.9
145°	6.1	6.1	5.2	3.5	2.6	1.7	0.9	0.9	2.6	4.3	4.3
147.5°	5.2	5.2	4.3	3.5	1.7	0.9	0.9	0.9	1.7	2.6	2.6
150°	4.3	4.3	3.5	2.6	1.7	0.9	0.0	0.0	0.9	1.7	1.7
152.5°	2.6	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.9	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)