

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: P241068

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241068
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-AF24-70-D-U-SL3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 6442 lumens
Efficiency: N/A
Efficacy: 87.1 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): 74
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



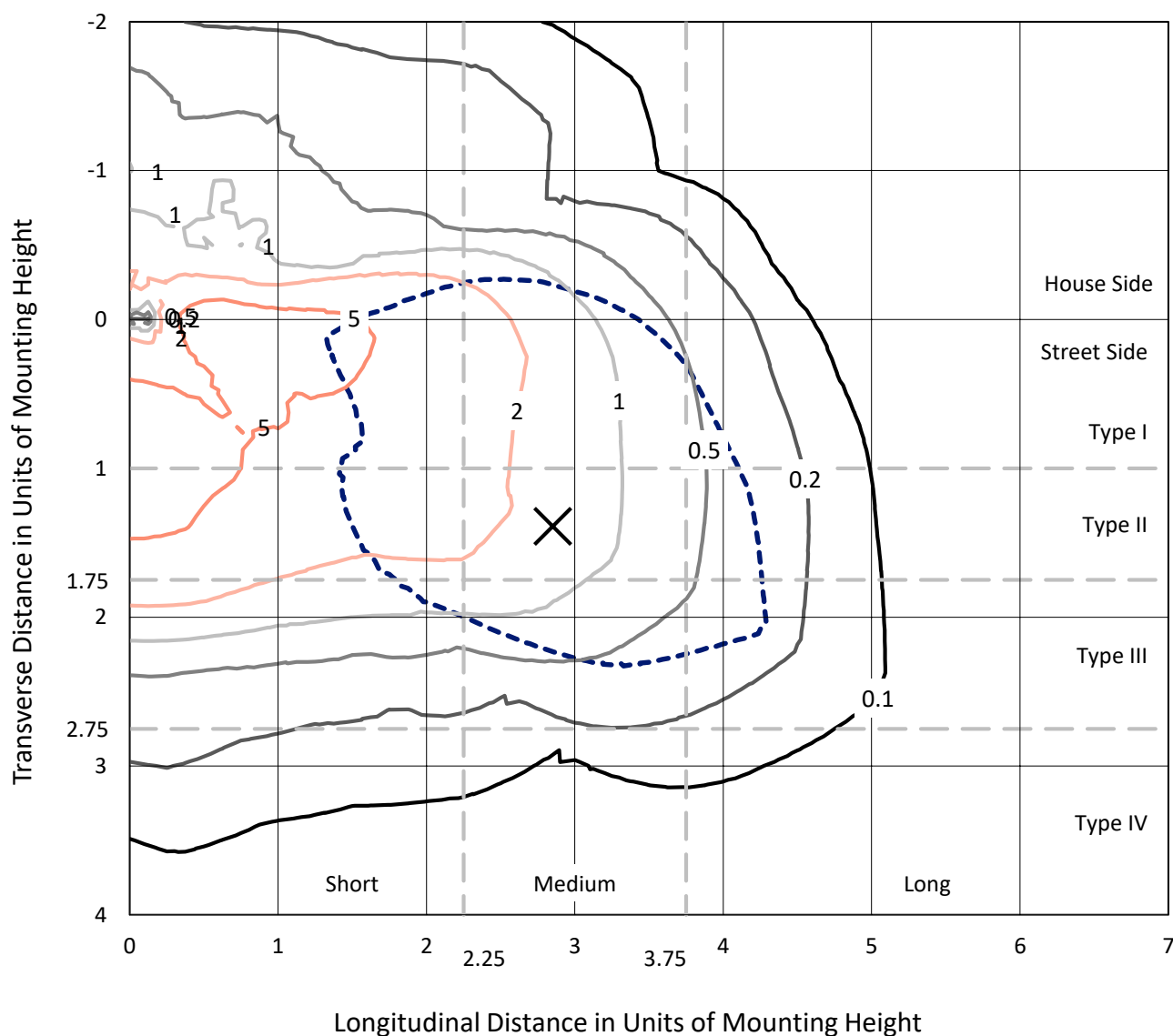
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

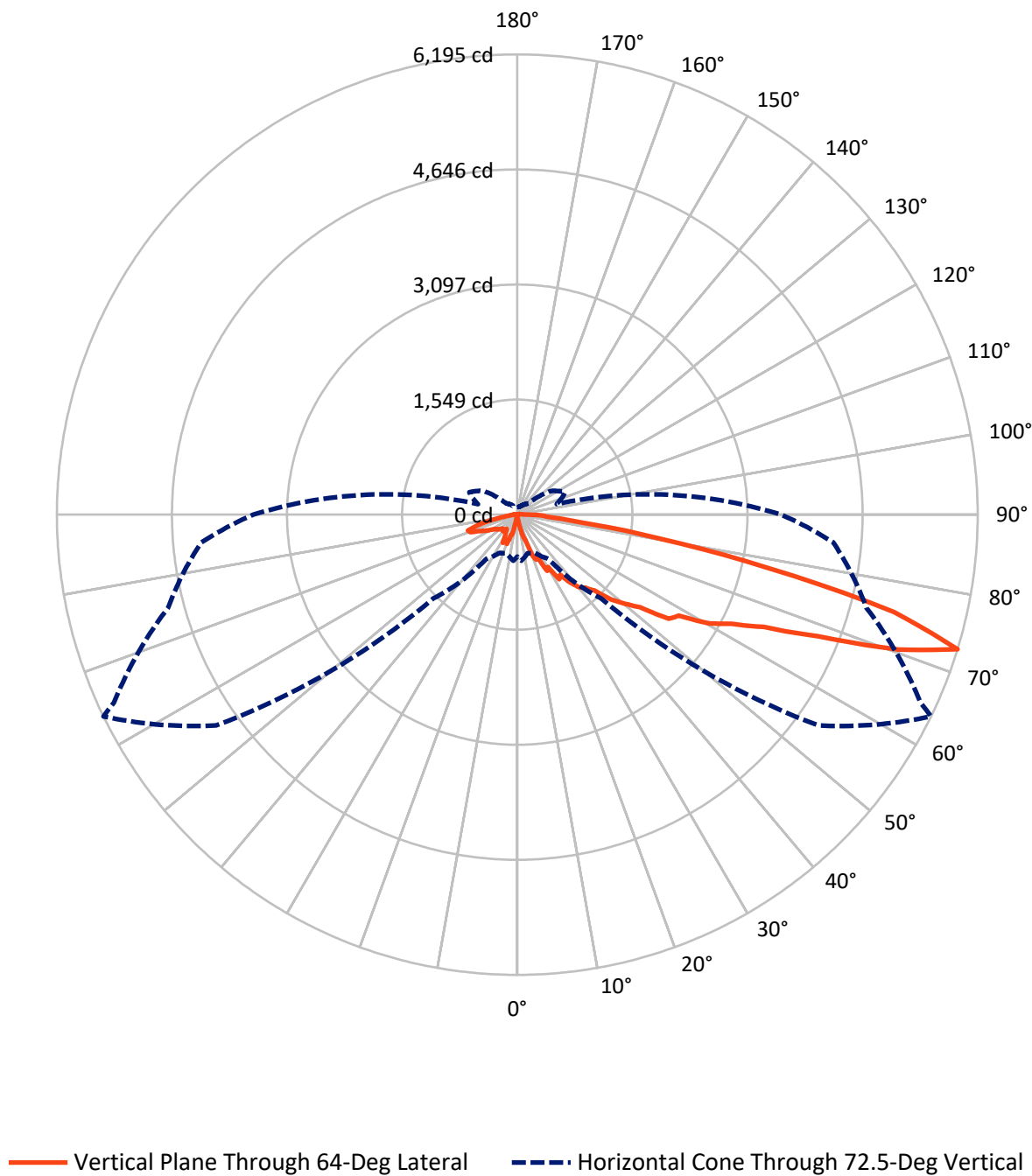


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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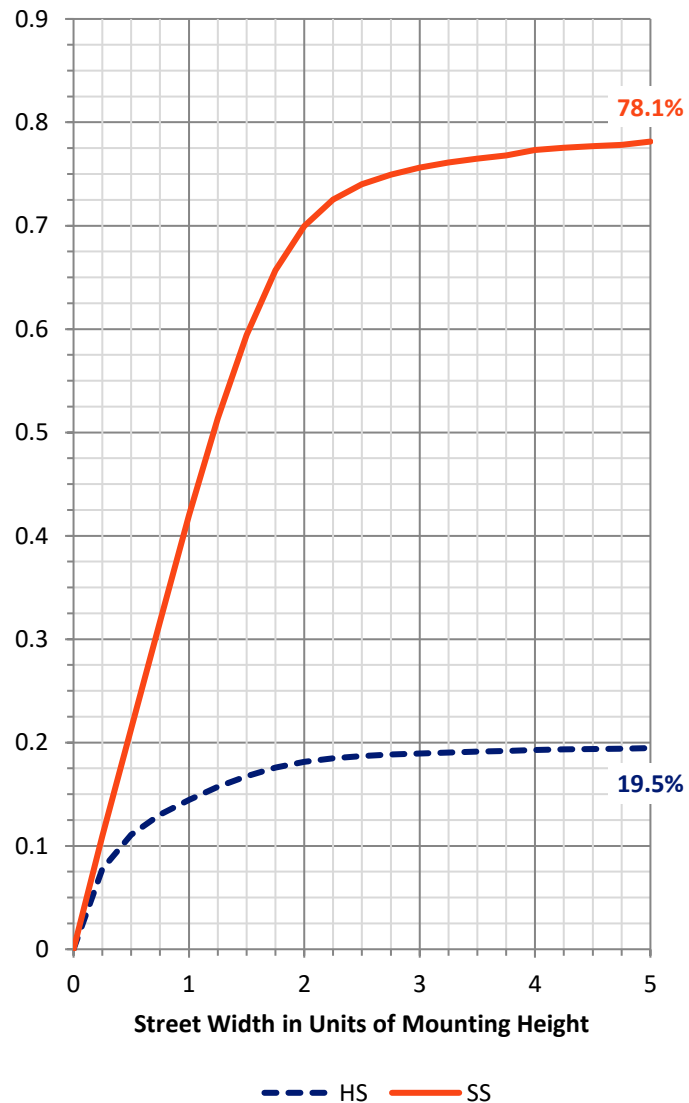
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1275.2	39.7	1314.9
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	5086.0	41.1	5127.0
	% Fixture	79.0	0.6	79.6
Total	Lumens	6361.2	80.8	6442.0
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.1
10°-20°	86.0	1.3
20°-30°	253.1	3.9
30°-40°	502.0	7.8
40°-50°	866.2	13.4
50°-60°	1400.3	21.7
60°-70°	1774.7	27.5
70°-80°	1271.5	19.7
80°-90°	199.4	3.1
90°-100°	40.2	0.6
100°-110°	17.9	0.3
110°-120°	9.2	0.1
120°-130°	6.8	0.1
130°-140°	4.2	0.1
140°-150°	2.1	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6361.2	98.7
0°-180°	6442.0	100.0

Coefficient of Utilization



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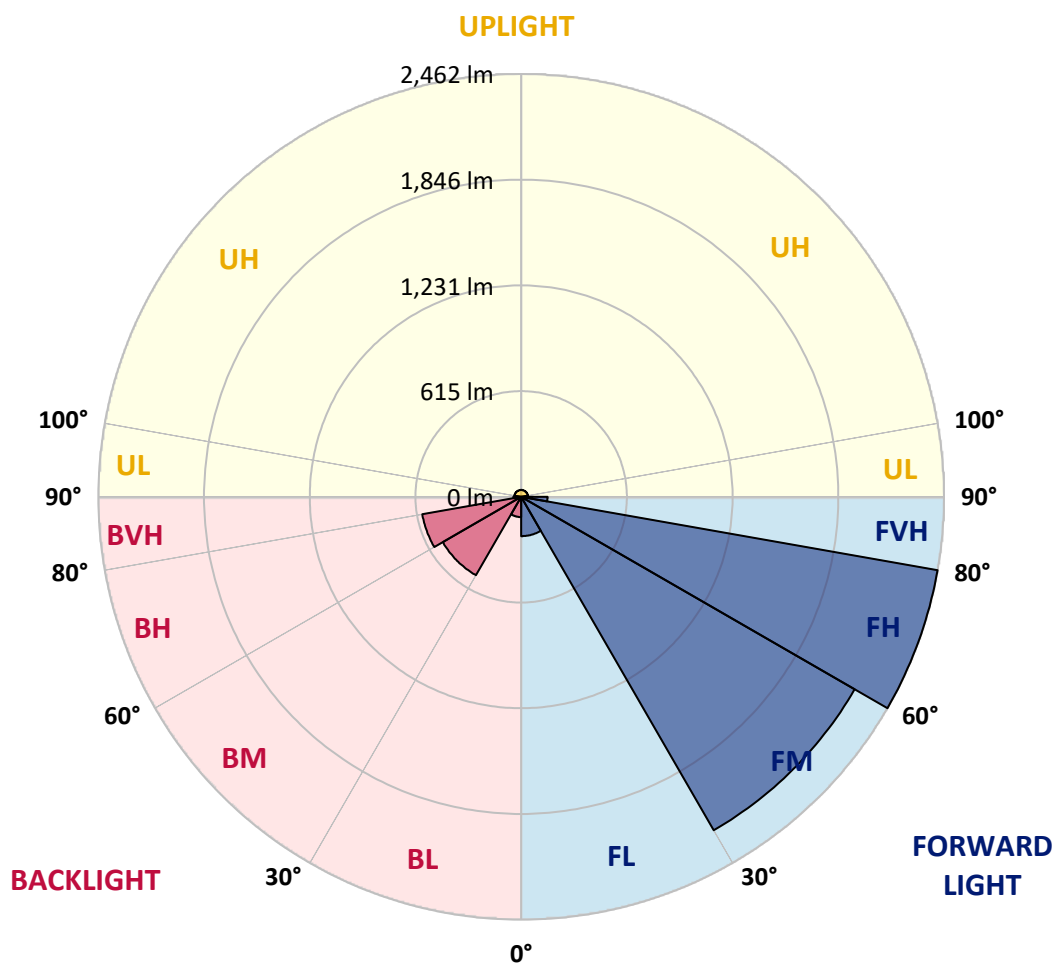
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.1	3.6			
FM	(30°-60°)	2241.7	34.8			
FH	(60°-80°)	2461.8	38.2			G2/5000
FVH	(80°-90°)	153.4	2.4			G2/225
BL	(0°-30°)	118.0	1.8	B1/500		
BM	(30°-60°)	526.8	8.2	B1/1000		
BH	(60°-80°)	584.4	9.1	B2/1000		G2/1000
BVH	(80°-90°)	46.0	0.7			G1/100
UL	(90°-100°)	40.2	0.6		U2/50	
UH	(100°-180°)	39.7	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°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	44.9	40.0	41.6	36.7	31.0	25.2	21.2	18.8	18.8	17.9	16.3
5°	155.8	159.1	178.6	150.1	136.2	177.8	49.7	28.5	26.9	18.8	15.6
7.5°	208.0	217.8	155.8	129.7	121.5	195.8	146.0	80.0	66.1	24.5	17.2
10°	394.0	367.0	247.9	270.8	252.1	160.7	106.8	109.3	100.3	40.0	27.8
12.5°	352.4	356.4	364.6	331.2	340.9	252.8	129.7	212.8	227.6	256.1	240.6
15°	411.1	394.0	331.2	360.5	343.4	399.7	336.1	313.2	344.1	354.0	294.5
17.5°	557.9	545.6	633.7	432.3	314.0	449.4	399.7	366.2	348.3	388.2	469.0
20°	513.1	513.8	550.5	488.6	507.3	413.5	402.1	591.3	709.6	672.9	654.1
22.5°	772.5	748.8	622.3	485.3	535.9	473.8	565.2	659.8	626.4	610.9	659.8
25°	750.4	759.4	721.8	729.2	536.7	633.7	588.9	629.7	669.6	960.8	1083.2
27.5°	922.4	871.9	828.7	755.3	738.9	596.2	569.4	855.6	878.5	963.2	1015.4
30°	1213.7	1188.4	1109.3	862.2	771.6	641.2	778.9	818.9	833.5	1133.8	1402.9
32.5°	1540.8	1447.8	1219.5	1128.0	839.3	791.1	733.2	1035.9	1018.8	1256.9	1417.6
35°	1781.4	1725.9	1510.6	1226.8	1008.9	845.7	986.9	995.9	1083.2	1315.6	1430.6
37.5°	1730.7	1746.3	1657.4	1464.1	1110.1	914.4	1067.7	1159.9	1168.0	1425.0	1516.3
40°	1862.1	1871.9	1840.9	1624.8	1280.5	1052.1	1199.7	1286.3	1217.8	1559.5	1620.7
42.5°	1938.8	1954.3	2013.8	1858.1	1444.5	1203.1	1407.0	1345.8	1285.4	1675.4	1843.3
45°	2106.0	2097.9	2123.9	1938.8	1687.6	1513.8	1477.1	1458.4	1481.2	1883.3	2057.9
47.5°	2339.2	2371.9	2243.0	1977.9	1870.3	1590.5	1673.8	1709.6	1796.0	2152.5	2275.7
50°	2684.3	2642.7	2488.5	2151.7	2050.6	1691.7	2050.6	1885.9	1840.9	2398.0	2601.1
52.5°	2824.6	2797.7	2579.1	2225.1	2163.2	1883.3	2114.1	2072.5	2057.1	2737.3	2963.2
55°	2880.1	2860.5	2769.9	2238.1	2265.1	2169.7	2424.9	2473.1	2447.0	2952.6	3328.7
57.5°	2733.2	2765.9	2772.4	2291.1	2334.4	2203.1	2913.5	2565.2	2752.0	3222.6	3612.4
60°	2534.2	2535.8	2622.3	2284.6	2398.8	2416.7	3019.5	2972.2	3146.7	3365.4	3690.8
62.5°	2042.4	2100.3	2243.0	2238.9	2488.5	2694.2	3540.8	3235.7	3304.2	3510.5	3936.3
65°	1354.9	1385.7	1558.7	1856.5	2328.7	2915.1	3969.0	3645.1	3742.1	3787.0	4293.6
67.5°	808.3	846.6	871.2	1185.9	1944.5	2959.2	4857.1	4371.9	4283.7	4205.5	4651.6
70°	675.3	700.7	629.7	709.6	1188.4	2686.6	5285.4	5435.4	5149.2	4771.6	4727.4
72.5°	566.1	621.5	536.7	567.7	723.6	1594.6	4947.7	6194.8	5986.9	4866.2	4265.1
75°	420.1	497.5	447.0	509.8	668.0	818.9	3733.2	5234.8	5169.6	4217.7	3165.6
77.5°	327.9	341.8	279.8	385.0	641.9	677.0	2239.9	3451.0	3394.6	2689.2	1468.1
80°	230.0	235.7	221.0	200.6	495.9	634.6	1134.5	1913.4	1794.4	835.2	487.8
82.5°	145.2	154.9	172.9	136.2	240.6	592.1	625.6	842.6	750.4	283.8	242.2
85°	87.3	95.4	106.8	95.4	112.5	452.7	484.4	433.1	395.6	172.9	153.3
87.5°	50.6	53.0	64.5	66.1	84.0	263.5	386.7	322.2	283.0	115.0	99.5
90°	35.1	32.7	32.7	34.3	43.2	115.0	189.2	112.5	113.4	60.3	52.2
92.5°	26.9	26.9	29.4	29.4	41.6	101.2	87.3	60.3	57.2	50.6	41.6
95°	20.4	22.1	22.1	23.6	28.5	31.0	43.2	44.9	44.9	45.7	36.7
97.5°	17.2	18.8	18.8	19.5	22.8	23.6	30.1	39.2	39.2	38.4	30.1
100°	16.3	17.2	16.3	16.3	18.8	17.9	24.5	33.5	35.1	33.5	26.1
102.5°	15.6	16.3	14.6	13.0	16.3	13.0	20.4	30.1	31.0	24.5	20.4
105°	15.6	15.6	13.0	10.6	13.0	10.6	17.2	21.2	21.2	17.2	19.5
107.5°	15.6	14.6	11.5	9.0	9.9	9.0	13.8	13.8	13.8	13.0	18.8
110°	13.8	13.0	10.6	8.2	7.3	7.3	9.9	9.9	9.9	11.5	18.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	12.2	11.5	9.0	6.5	5.7	5.7	6.5	7.3	7.3	10.6	17.9
115°	10.6	10.6	8.2	6.5	4.9	4.9	5.7	6.5	6.5	9.9	17.2
117.5°	10.6	10.6	7.3	5.7	4.1	4.1	4.9	5.7	5.7	9.9	17.9
120°	10.6	10.6	7.3	4.9	4.1	3.3	4.1	4.9	4.9	10.6	18.8
122.5°	9.9	9.9	7.3	4.9	3.3	3.3	3.3	4.9	4.9	9.9	17.2
125°	9.9	9.9	6.5	4.9	3.3	3.3	3.3	4.1	4.9	10.6	17.2
127.5°	9.0	9.0	7.3	4.9	3.3	2.4	3.3	4.1	4.1	9.9	16.3
130°	9.0	9.0	6.5	4.1	2.4	2.4	2.4	3.3	4.1	9.0	14.6
132.5°	8.2	8.2	5.7	4.1	2.4	1.6	2.4	3.3	3.3	8.2	13.0
135°	8.2	8.2	6.5	4.1	2.4	1.6	2.4	3.3	3.3	7.3	11.5
137.5°	7.3	7.3	5.7	4.1	2.4	1.6	1.6	2.4	3.3	7.3	10.6
140°	7.3	7.3	6.5	4.9	2.4	1.6	1.6	2.4	2.4	5.7	8.2
142.5°	8.2	8.2	6.5	4.1	2.4	1.6	1.6	1.6	2.4	4.1	6.5
145°	7.3	7.3	5.7	4.1	2.4	0.8	0.8	1.6	2.4	4.1	5.7
147.5°	7.3	7.3	6.5	4.1	1.6	0.8	0.8	1.6	1.6	3.3	4.9
150°	6.5	6.5	4.9	2.4	0.8	0.0	0.8	1.6	1.6	2.4	4.1
152.5°	4.9	4.9	3.3	1.6	0.0	0.0	0.0	0.8	0.8	1.6	2.4
155°	2.4	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6
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°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	16.3	16.3	16.3	16.3	15.6	15.6	14.6	14.6	14.6	14.6	14.6
5°	15.6	15.6	15.6	14.6	13.8	13.0	13.8	13.0	13.0	13.0	13.0
7.5°	16.3	16.3	14.6	13.8	13.8	13.8	17.9	108.5	239.9	205.5	213.7
10°	30.1	28.5	24.5	20.4	18.8	107.6	205.5	188.4	143.5	119.8	123.1
12.5°	299.4	269.3	173.7	120.7	138.6	142.7	128.9	141.1	230.0	210.5	211.2
15°	299.4	306.7	251.2	283.0	244.7	114.1	220.2	262.7	255.3	234.9	246.3
17.5°	505.7	502.5	313.2	287.9	236.5	239.0	207.1	180.3	167.1	164.8	167.1
20°	749.6	624.8	597.1	434.8	265.9	243.8	171.3	145.2	185.2	228.4	234.2
22.5°	659.8	659.8	535.9	388.2	328.7	208.8	186.9	185.2	221.9	219.4	230.0
25°	1114.1	968.1	694.2	374.4	287.2	212.1	189.2	172.1	193.3	222.7	220.2
27.5°	1027.7	953.5	685.9	450.2	225.1	230.9	174.6	169.7	217.8	234.2	235.7
30°	1296.9	1195.0	693.2	338.4	226.7	177.8	161.4	172.9	181.9	197.4	199.1
32.5°	1343.4	1216.2	665.6	305.1	239.0	171.3	164.0	163.2	185.2	212.8	215.3
35°	1314.8	1167.2	627.2	257.0	239.9	172.9	168.0	186.0	169.7	198.2	202.2
37.5°	1510.6	1191.7	566.1	239.9	220.2	177.8	220.2	177.8	177.0	186.0	187.6
40°	1508.1	1246.3	496.7	292.9	220.2	292.9	230.0	185.2	159.1	174.6	175.4
42.5°	1629.7	1277.4	435.5	301.8	237.3	339.4	214.4	180.3	189.2	199.1	208.8
45°	1770.0	1375.1	407.9	271.6	267.5	262.7	223.4	234.9	171.3	274.9	286.3
47.5°	1961.6	1500.7	370.3	265.9	363.0	264.3	425.8	218.6	188.4	325.5	331.9
50°	2247.9	1721.8	373.5	292.0	332.8	283.0	286.3	237.3	254.5	338.4	340.2
52.5°	2553.0	1907.0	351.6	322.2	327.1	347.5	305.1	354.8	250.4	325.5	325.5
55°	2822.9	2180.3	362.2	339.4	341.8	302.6	429.8	261.7	249.5	327.1	335.2
57.5°	3175.3	2472.2	434.8	354.8	350.7	323.0	331.9	324.6	293.6	332.8	337.7
60°	3362.1	2685.1	544.8	398.8	367.0	372.8	393.2	312.4	266.7	389.1	404.6
62.5°	3658.2	2991.7	690.1	451.9	465.8	381.8	335.2	340.2	283.8	310.0	313.2
65°	3999.9	3310.7	761.9	504.1	501.6	424.2	380.1	264.3	184.3	170.5	169.7
67.5°	4256.8	3433.9	697.4	563.6	625.6	407.0	261.0	187.6	141.9	133.8	136.2
70°	4091.3	3152.4	597.1	676.2	632.9	315.6	225.1	149.2	121.5	114.1	118.2
72.5°	3549.8	2547.3	548.2	713.7	555.5	212.8	168.0	131.3	109.3	101.9	103.6
75°	2508.9	1637.0	562.8	604.4	394.8	154.2	145.2	109.3	97.0	87.3	87.3
77.5°	1102.0	701.5	441.3	435.5	252.8	122.4	123.1	90.5	84.0	75.1	75.1
80°	443.7	371.2	259.4	252.1	168.8	96.2	97.9	75.1	75.8	63.6	59.5
82.5°	234.9	212.1	144.3	135.4	120.7	74.2	69.4	64.5	63.6	52.2	45.7
85°	154.2	139.6	94.6	88.1	89.7	54.6	57.9	61.1	56.3	43.2	30.1
87.5°	95.4	94.6	66.8	63.6	66.8	39.2	47.3	49.7	47.3	32.7	19.5
90°	44.9	48.9	44.9	44.0	44.0	18.8	36.7	39.2	38.4	26.1	15.6
92.5°	35.1	40.0	41.6	42.4	42.4	19.5	38.4	40.8	39.2	26.9	17.2
95°	30.1	35.1	40.8	40.8	40.0	15.6	35.8	40.0	37.4	25.2	16.3
97.5°	25.2	29.4	35.1	35.1	38.4	13.0	33.5	38.4	37.4	26.9	17.2
100°	23.6	27.8	31.0	31.8	35.1	12.2	30.1	34.3	33.5	22.1	17.9
102.5°	22.1	23.6	24.5	25.2	26.1	11.5	23.6	26.1	25.2	16.3	16.3
105°	20.4	20.4	17.9	17.2	17.2	10.6	14.6	17.9	14.6	13.0	14.6
107.5°	20.4	19.5	14.6	13.0	13.0	9.9	11.5	11.5	9.9	13.0	13.8
110°	20.4	18.8	13.0	11.5	10.6	9.0	9.0	8.2	8.2	13.0	13.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.5	17.9	11.5	9.9	9.9	8.2	7.3	6.5	7.3	13.0	14.6
115°	18.8	17.2	10.6	9.9	9.0	7.3	6.5	4.9	7.3	13.8	15.6
117.5°	18.8	17.2	10.6	9.0	8.2	6.5	5.7	4.9	7.3	13.8	15.6
120°	19.5	17.2	10.6	8.2	7.3	5.7	4.9	4.9	7.3	13.8	15.6
122.5°	18.8	16.3	9.9	7.3	6.5	5.7	4.9	4.9	7.3	13.8	14.6
125°	17.9	16.3	9.9	6.5	5.7	4.9	4.1	4.1	8.2	13.8	14.6
127.5°	17.2	15.6	9.0	5.7	4.9	4.9	4.1	4.1	8.2	13.0	13.8
130°	15.6	13.8	9.0	5.7	4.1	4.1	3.3	3.3	8.2	13.0	13.8
132.5°	13.8	13.0	8.2	4.9	3.3	3.3	3.3	3.3	7.3	11.5	12.2
135°	12.2	10.6	7.3	4.1	3.3	2.4	2.4	2.4	6.5	9.9	10.6
137.5°	10.6	9.9	6.5	4.1	2.4	2.4	1.6	1.6	5.7	9.0	9.9
140°	9.0	8.2	5.7	3.3	2.4	2.4	1.6	1.6	4.1	6.5	7.3
142.5°	6.5	6.5	4.9	3.3	2.4	1.6	1.6	1.6	4.1	5.7	6.5
145°	5.7	5.7	4.9	3.3	2.4	1.6	0.8	0.8	2.4	4.1	4.1
147.5°	4.9	4.9	4.1	3.3	1.6	0.8	0.8	0.8	1.6	2.4	2.4
150°	4.1	4.1	3.3	2.4	1.6	0.8	0.0	0.0	0.8	1.6	1.6
152.5°	2.4	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	1.6	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.8	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)