

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: P240579

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T2U-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3904.9 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 40
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



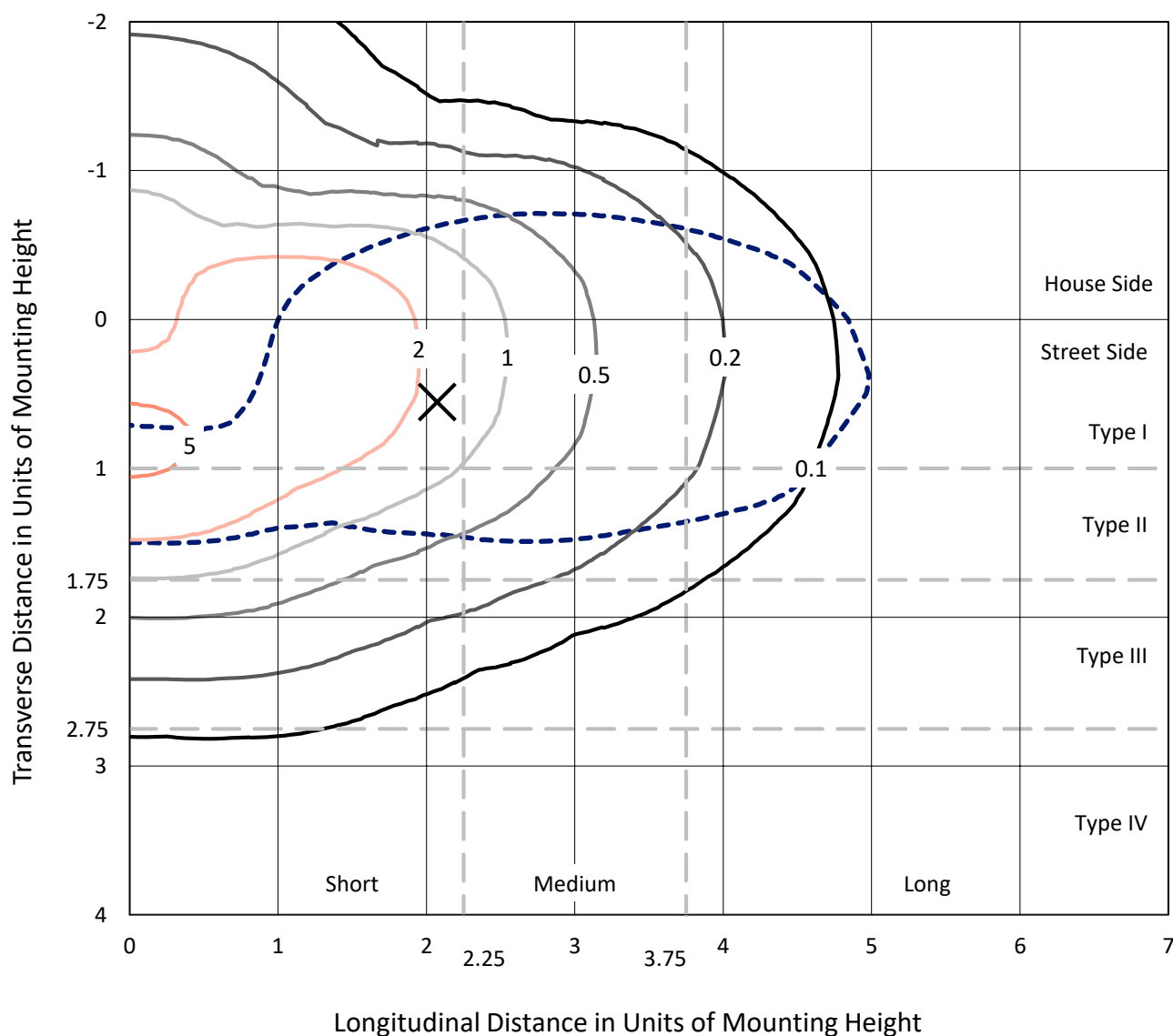
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

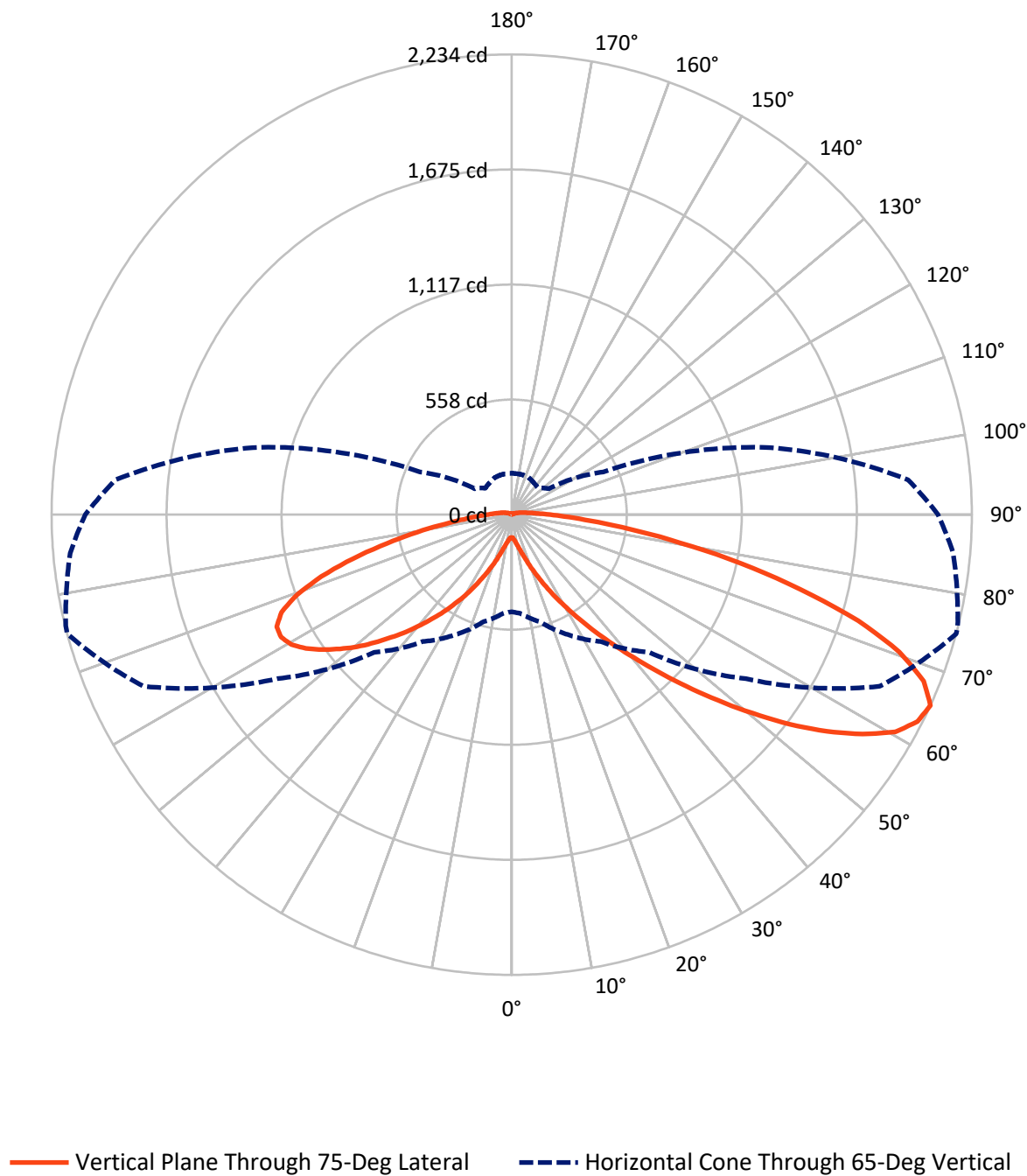


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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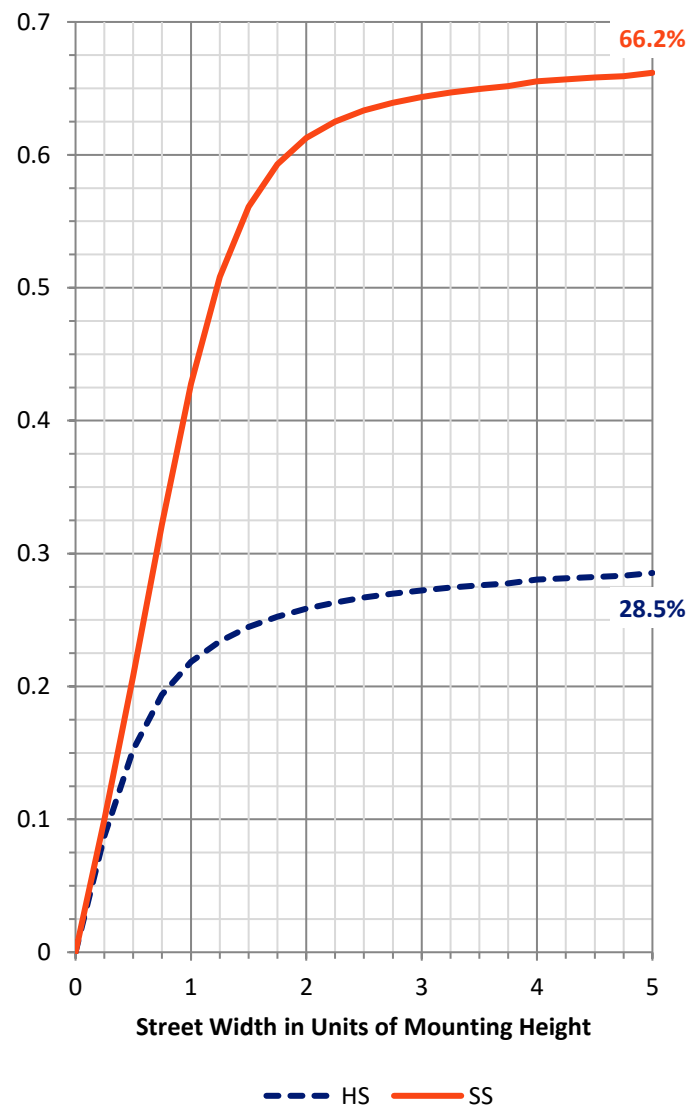
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1153.0	69.1	1222.1
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	2620.6	62.2	2682.8
	% Fixture	67.1	1.6	68.7
Total	Lumens	3773.6	131.3	3904.9
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.3
10°-20°	56.5	1.4
20°-30°	164.7	4.2
30°-40°	369.4	9.5
40°-50°	657.3	16.8
50°-60°	893.2	22.9
60°-70°	867.4	22.2
70°-80°	546.7	14.0
80°-90°	206.2	5.3
90°-100°	70.2	1.8
100°-110°	31.8	0.8
110°-120°	15.3	0.4
120°-130°	8.1	0.2
130°-140°	4.2	0.1
140°-150°	1.5	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3773.6	96.6
0°-180°	3904.9	100.0

Coefficient of Utilization



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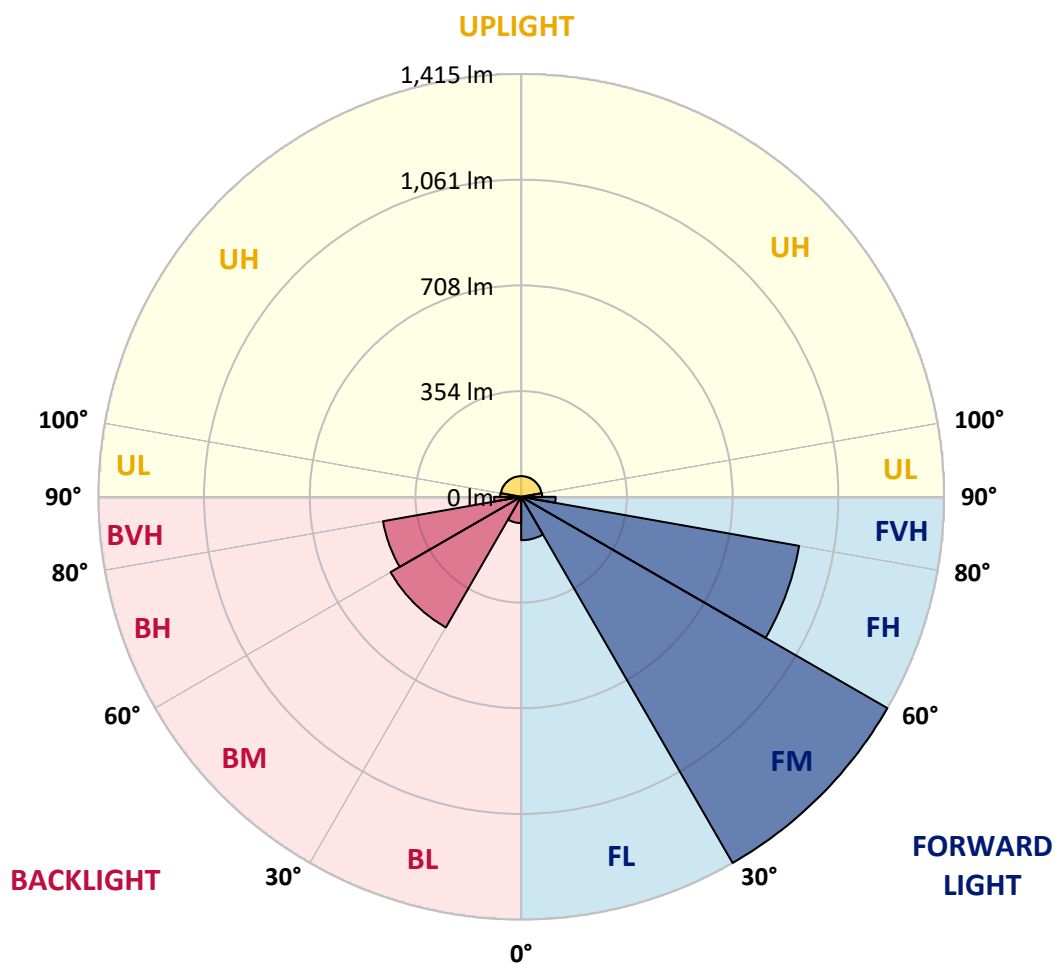
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.4	3.7			
FM	(30°-60°)	1415.2	36.2			
FH	(60°-80°)	944.6	24.2			G1/1800
FVH	(80°-90°)	115.4	3.0			G2/225
BL	(0°-30°)	87.9	2.3	B0/110		
BM	(30°-60°)	504.7	12.9	B1/1000		
BH	(60°-80°)	469.6	12.0	B1/500		G1/500
BVH	(80°-90°)	90.8	2.3			G1/100
UL	(90°-100°)	70.2	1.8		U3/500	
UH	(100°-180°)	69.1	1.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0
2.5°	120.8	120.3	120.3	120.3	119.3	118.3	116.9	116.0	114.4	113.9	113.4
5°	133.6	133.6	133.0	132.5	131.5	129.2	126.6	124.7	122.3	121.9	119.8
7.5°	153.5	153.1	152.6	150.1	148.7	145.2	141.4	138.4	134.0	134.0	131.1
10°	180.0	178.9	177.5	175.1	169.7	165.3	160.9	155.4	151.1	150.7	146.2
12.5°	211.3	211.3	209.3	204.5	197.5	191.2	183.9	178.0	172.2	171.6	167.7
15°	254.3	254.8	248.4	241.1	231.3	221.6	212.3	206.8	200.1	201.5	196.1
17.5°	307.6	306.6	301.2	286.6	270.4	257.8	246.9	241.1	235.7	236.2	232.2
20°	374.6	373.6	364.4	344.8	318.4	299.3	286.6	282.7	279.7	278.3	274.3
22.5°	457.2	452.4	433.8	408.4	376.6	349.2	335.5	329.6	328.7	329.1	325.3
25°	549.7	547.7	524.2	483.7	442.6	407.4	386.3	385.3	386.9	384.4	384.4
27.5°	662.2	656.7	629.5	573.2	514.5	472.4	448.0	445.6	452.4	450.3	447.5
30°	793.8	785.5	748.2	676.4	601.0	544.7	516.5	516.5	523.8	523.8	522.8
32.5°	931.1	929.7	872.0	787.9	698.8	624.5	600.1	596.1	603.4	607.4	602.6
35°	1085.7	1074.4	1007.9	912.6	797.6	715.9	685.6	691.1	696.8	697.4	689.5
37.5°	1243.2	1231.9	1155.6	1037.8	903.8	815.7	784.5	788.3	797.6	797.6	787.3
40°	1378.2	1366.0	1291.1	1168.3	1021.1	926.7	893.5	904.7	911.1	913.5	896.9
42.5°	1484.8	1476.0	1409.0	1283.8	1134.1	1038.3	1016.7	1035.3	1041.7	1046.6	1022.5
45°	1544.4	1537.1	1490.7	1377.6	1228.9	1149.7	1153.7	1176.1	1188.4	1183.1	1157.0
47.5°	1553.6	1547.8	1522.0	1435.8	1316.0	1256.8	1294.0	1327.8	1346.4	1346.8	1302.8
50°	1496.0	1498.5	1498.9	1449.6	1364.9	1343.9	1425.1	1500.9	1515.1	1507.2	1455.5
52.5°	1384.0	1382.5	1410.9	1410.9	1373.7	1397.8	1535.1	1670.6	1690.1	1688.2	1616.3
55°	1217.7	1219.3	1272.0	1313.7	1327.3	1409.0	1625.1	1824.2	1856.5	1853.5	1774.3
57.5°	1010.8	1025.1	1090.1	1169.8	1231.9	1361.1	1666.6	1956.2	2009.1	2009.5	1913.6
60°	809.8	824.6	900.3	1002.6	1092.6	1268.6	1638.8	2024.7	2140.6	2135.3	2033.5
62.5°	618.6	633.8	706.7	823.0	927.7	1120.9	1544.0	2038.9	2210.6	2207.1	2119.5
65°	470.9	480.7	539.4	641.7	751.7	944.3	1387.9	1971.4	2233.5	2231.1	2151.4
67.5°	352.2	356.5	412.2	495.0	590.3	763.9	1172.3	1809.0	2157.3	2159.6	2115.2
70°	271.0	273.9	314.4	386.3	457.2	597.1	949.8	1574.8	1996.8	2003.2	2001.7
72.5°	215.1	219.6	251.9	304.2	355.5	452.4	734.6	1274.0	1759.1	1772.3	1811.9
75°	177.5	182.5	206.8	245.5	282.7	344.2	534.1	977.7	1446.1	1474.0	1562.1
77.5°	146.7	151.7	172.2	202.4	225.4	263.1	391.2	722.9	1136.1	1147.8	1264.2
80°	120.3	124.7	143.2	166.7	183.4	205.4	285.1	507.6	828.4	843.2	956.6
82.5°	95.8	99.8	116.9	135.9	149.6	164.8	211.3	347.7	577.1	587.9	662.6
85°	73.9	77.8	92.5	109.0	120.8	133.0	161.9	242.1	382.0	394.7	449.5
87.5°	55.2	58.7	70.9	85.1	97.4	107.6	124.7	167.2	254.8	265.6	291.5
90°	40.7	43.0	53.7	64.6	75.8	87.1	97.8	122.3	169.7	174.0	192.2
92.5°	30.4	31.8	40.7	49.9	60.6	70.5	77.2	90.0	119.3	119.8	132.5
95°	22.5	23.9	31.2	39.2	48.4	57.7	63.6	69.9	87.5	89.0	96.8
97.5°	18.1	18.6	24.9	31.8	39.7	47.4	52.3	55.7	66.9	68.5	73.9
100°	15.2	15.7	21.0	26.9	33.8	40.7	44.0	45.5	52.8	54.3	58.2
102.5°	13.2	13.2	18.1	23.5	29.4	34.2	36.7	37.7	42.5	42.5	45.5
105°	11.7	11.7	15.7	20.5	25.4	29.8	31.2	31.2	33.3	33.8	35.2
107.5°	10.7	10.7	14.2	18.6	22.5	25.9	26.9	25.9	26.4	26.4	27.5
110°	9.9	9.9	12.2	16.6	20.1	22.5	23.0	22.0	20.5	20.5	21.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	8.8	9.3	11.3	14.6	17.6	20.1	20.1	18.6	16.2	16.2	17.2
115°	8.3	8.3	10.3	13.2	15.7	17.6	17.6	15.7	13.2	12.7	13.6
117.5°	7.8	7.8	8.8	11.7	14.2	15.7	15.7	13.2	10.7	10.7	11.7
120°	7.3	7.3	8.3	10.7	12.7	14.2	13.6	11.7	9.3	9.3	10.3
122.5°	7.3	7.3	7.8	9.9	11.3	12.2	11.7	9.9	7.8	7.8	8.8
125°	6.9	6.9	7.3	8.8	10.3	11.3	10.3	8.3	7.3	7.3	7.8
127.5°	6.9	6.9	6.9	7.8	9.3	9.9	9.3	7.3	6.3	6.3	7.3
130°	6.3	6.3	6.9	7.3	8.3	8.8	7.8	6.3	5.9	5.9	6.9
132.5°	6.3	6.3	6.3	6.3	6.9	7.3	6.3	4.9	5.4	5.4	5.9
135°	5.9	5.9	5.9	5.9	6.3	6.3	5.4	4.4	4.9	4.9	5.4
137.5°	5.4	5.4	5.4	5.4	5.4	4.9	4.4	4.0	4.4	4.4	4.9
140°	4.9	4.9	4.9	4.4	4.0	4.0	3.4	2.9	3.4	3.4	4.0
142.5°	4.4	4.4	4.4	4.0	3.4	2.9	2.4	2.4	2.9	2.9	3.4
145°	4.0	4.0	3.4	2.9	2.4	1.9	1.4	1.9	2.4	2.4	2.9
147.5°	2.9	2.9	2.9	2.4	1.4	1.0	1.0	1.4	1.9	1.9	1.9
150°	2.4	2.4	2.4	1.9	1.0	0.4	0.4	1.0	1.0	1.0	1.4
152.5°	1.4	1.4	1.4	1.4	0.4	0.0	0.0	0.4	1.0	1.0	1.0
155°	1.0	1.0	1.0	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.4
160°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.0
162.5°	0.0	0.0	0.0	0.4	0.4	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°	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0
2.5°	113.0	112.4	111.6	110.6	109.6	108.6	107.6	107.1	106.1	106.1	106.1
5°	118.9	117.4	115.4	113.4	111.6	110.1	108.6	107.1	106.1	105.7	105.1
7.5°	129.6	127.7	124.2	121.3	117.9	114.9	112.4	110.6	109.6	109.0	109.0
10°	144.2	141.8	137.4	131.5	127.7	123.3	119.3	116.9	114.9	114.4	113.9
12.5°	163.8	161.3	154.0	147.7	140.4	133.6	129.2	126.2	124.7	124.2	124.2
15°	191.7	188.8	177.0	166.3	154.5	146.2	140.4	137.8	138.4	139.9	138.4
17.5°	226.3	222.1	208.3	190.7	173.1	160.4	155.0	155.4	157.5	159.0	158.4
20°	269.5	263.1	244.0	219.1	195.1	178.0	172.6	173.1	175.6	180.0	179.5
22.5°	319.8	310.1	285.6	251.9	218.1	198.6	188.8	190.2	195.6	200.1	200.1
25°	375.1	366.3	331.6	286.6	244.5	215.7	203.4	205.4	213.3	218.1	219.6
27.5°	440.7	426.9	383.9	325.3	269.5	230.9	215.7	216.7	226.3	232.8	233.9
30°	510.6	494.4	440.7	363.9	291.5	242.5	223.0	225.0	235.7	243.1	244.5
32.5°	589.4	570.3	499.9	404.5	312.1	249.4	226.9	228.9	240.2	248.4	249.4
35°	676.9	649.0	563.3	441.6	325.7	251.9	226.9	229.3	240.2	248.4	249.8
37.5°	765.9	734.6	625.5	477.4	334.0	249.8	223.6	226.3	236.2	244.0	245.5
40°	869.4	829.4	693.5	506.6	336.9	244.5	217.7	221.0	229.3	235.7	236.6
42.5°	987.9	931.1	765.0	531.5	332.5	237.6	211.8	215.7	222.6	226.9	227.4
45°	1110.6	1042.3	834.3	551.2	326.2	229.3	205.9	210.4	216.2	217.1	218.1
47.5°	1243.2	1166.9	910.1	562.9	315.0	220.6	201.5	205.9	209.8	209.3	209.8
50°	1389.9	1296.1	987.3	567.8	302.2	213.3	198.1	203.0	205.9	203.4	203.4
52.5°	1533.1	1437.3	1057.8	569.8	288.0	206.4	195.6	201.5	203.0	200.5	200.5
55°	1685.8	1567.9	1128.2	564.4	273.9	201.0	194.6	201.0	202.0	198.6	198.6
57.5°	1826.6	1707.2	1191.8	556.0	260.7	196.1	193.2	200.5	201.5	198.6	199.1
60°	1956.2	1825.6	1241.1	542.4	246.5	191.2	192.2	200.5	201.5	199.5	200.5
62.5°	2035.4	1903.9	1267.1	520.8	232.8	186.9	190.7	199.5	201.5	200.1	201.0
65°	2069.7	1931.7	1263.7	490.0	219.6	181.5	187.8	197.5	200.1	200.1	201.0
67.5°	2043.7	1906.3	1213.9	450.3	207.4	176.0	183.9	193.7	197.1	198.1	199.5
70°	1947.4	1801.1	1113.6	400.6	194.2	170.2	178.9	188.3	192.2	194.2	195.1
72.5°	1755.2	1624.6	971.2	350.6	180.5	162.9	171.6	180.5	184.8	187.3	187.3
75°	1511.2	1380.6	799.6	297.8	167.7	154.5	162.9	170.2	175.1	177.5	176.6
77.5°	1215.8	1094.0	621.1	244.0	154.0	144.8	152.6	159.0	162.9	164.8	162.4
80°	900.9	823.0	466.5	201.5	140.4	133.6	139.9	145.2	149.6	149.1	147.2
82.5°	638.7	565.3	326.6	167.2	126.6	121.3	126.2	129.6	132.5	131.5	128.2
85°	425.4	377.6	230.9	136.5	112.4	108.0	111.0	113.0	114.4	112.0	109.6
87.5°	276.8	246.5	166.3	112.4	97.4	94.4	95.8	96.3	96.8	94.4	91.4
90°	181.0	168.3	123.7	92.9	83.6	81.7	81.7	79.8	80.2	77.2	74.3
92.5°	127.7	119.8	96.3	76.3	71.4	69.9	69.5	66.9	66.5	63.6	61.6
95°	95.4	92.0	77.8	64.6	60.6	60.2	59.2	56.7	54.7	51.8	51.0
97.5°	74.3	72.8	64.0	55.2	52.3	51.4	51.0	48.0	46.4	43.4	42.5
100°	59.2	59.2	53.7	47.4	45.1	44.5	44.0	41.1	39.7	36.7	36.2
102.5°	47.4	48.0	45.1	41.1	39.2	38.1	37.1	35.2	32.8	30.8	30.8
105°	37.1	38.1	37.1	34.8	33.8	32.8	31.8	29.8	27.5	25.4	25.4
107.5°	29.4	30.4	30.4	29.8	28.4	27.9	27.5	24.9	23.0	21.0	21.0
110°	22.5	23.9	24.9	24.9	24.9	23.9	23.0	21.6	19.1	17.6	17.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	18.1	19.1	20.5	21.0	21.0	21.0	20.1	17.6	15.7	14.6	15.2
115°	14.6	15.7	17.2	18.1	18.1	18.1	16.6	15.2	13.2	12.7	12.7
117.5°	12.2	13.2	14.2	15.7	15.7	15.7	14.6	12.7	10.7	10.7	10.7
120°	10.7	11.3	12.7	13.2	13.6	13.6	12.7	10.7	9.3	9.3	9.9
122.5°	9.3	9.9	10.7	11.7	12.2	11.7	10.7	8.8	7.8	8.3	8.3
125°	8.3	8.8	9.3	10.3	10.7	10.3	9.3	7.3	6.9	7.3	7.3
127.5°	7.8	7.8	8.3	8.8	9.3	8.8	7.8	6.3	5.9	6.9	6.9
130°	6.9	7.3	7.3	7.8	7.8	7.8	6.9	5.4	5.4	5.9	5.9
132.5°	6.3	6.3	6.3	6.9	6.9	6.3	5.4	4.4	4.9	5.4	5.4
135°	5.4	5.9	5.9	5.9	5.9	5.4	4.4	4.0	4.4	4.9	4.9
137.5°	4.9	4.9	4.9	4.9	4.9	4.4	4.0	3.4	4.0	4.0	4.0
140°	4.0	4.4	4.4	4.0	4.0	3.4	2.9	2.4	2.9	3.4	3.4
142.5°	3.4	3.4	3.4	3.4	2.9	2.4	1.9	1.9	2.4	2.4	2.4
145°	2.9	2.9	2.9	2.4	1.9	1.9	1.4	1.4	1.9	1.9	2.4
147.5°	1.9	1.9	1.9	1.9	1.4	1.4	1.0	1.0	1.4	1.4	1.4
150°	1.4	1.4	1.4	1.4	1.0	1.0	1.0	0.4	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	1.0	1.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
162.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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)