

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: P266345

Luminaire Tested: **UTLD-AF24-40-D-U-T3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
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-T3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3227.1 lumens
Efficiency: N/A
Efficacy: 80.7 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



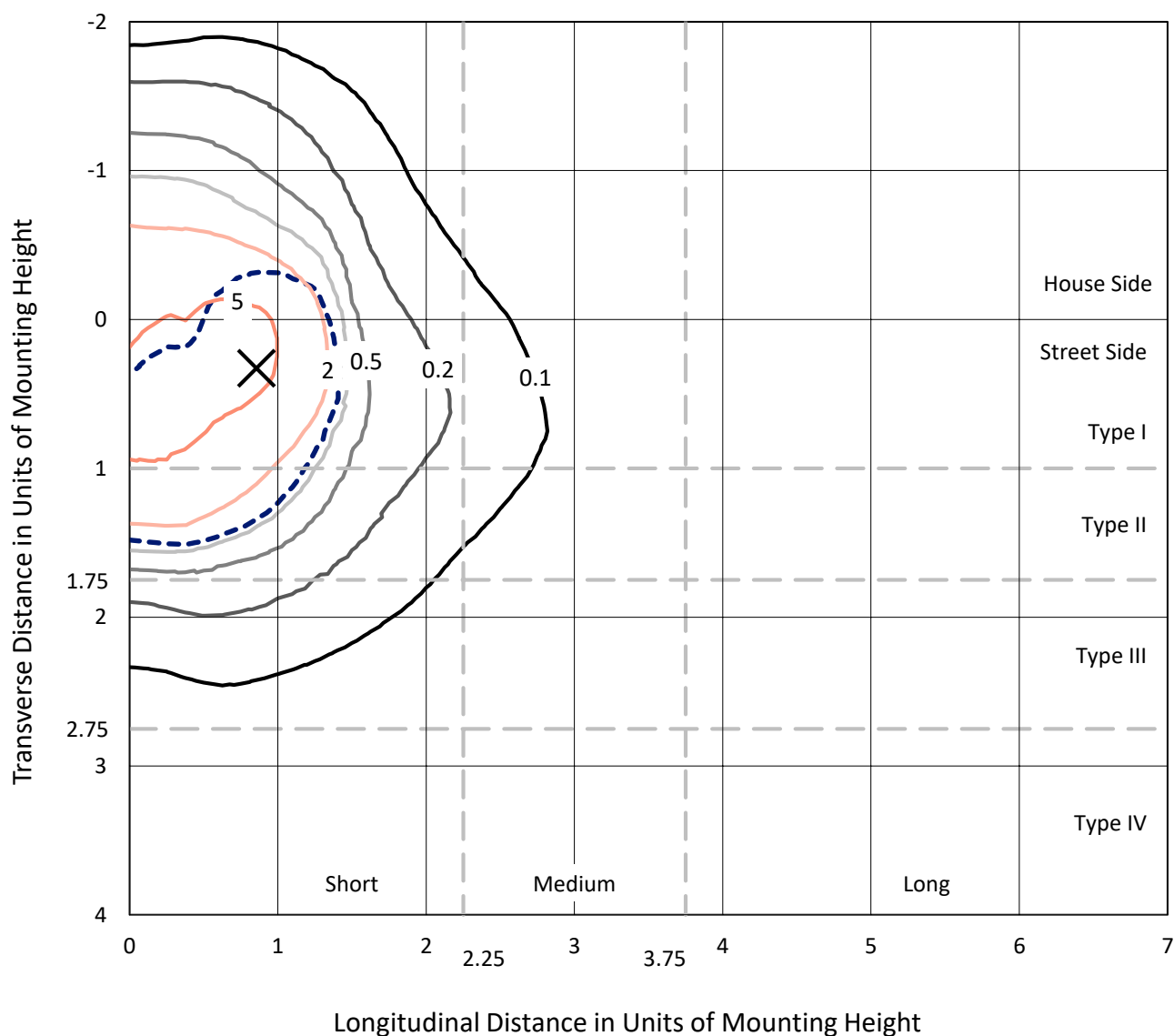
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

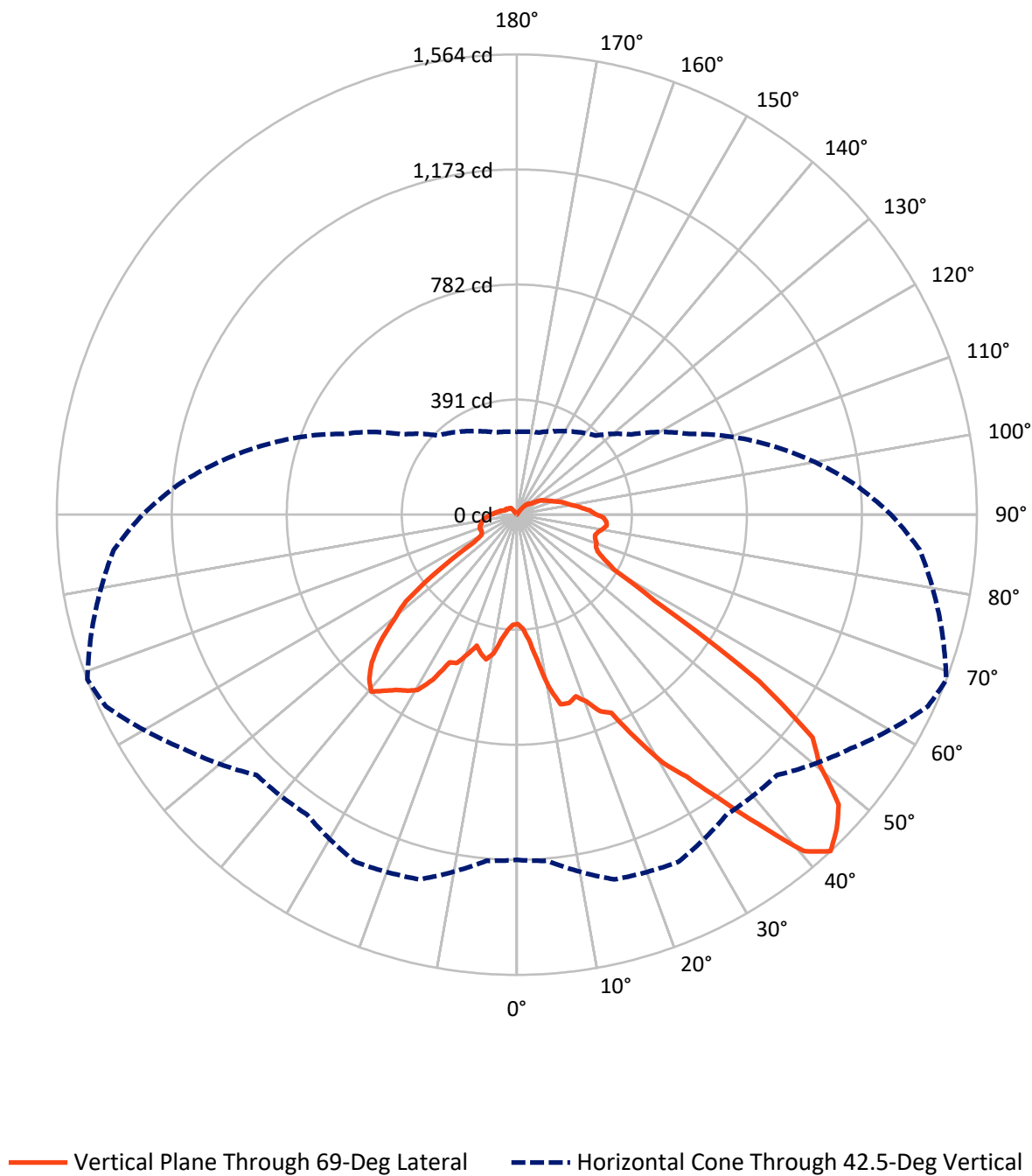


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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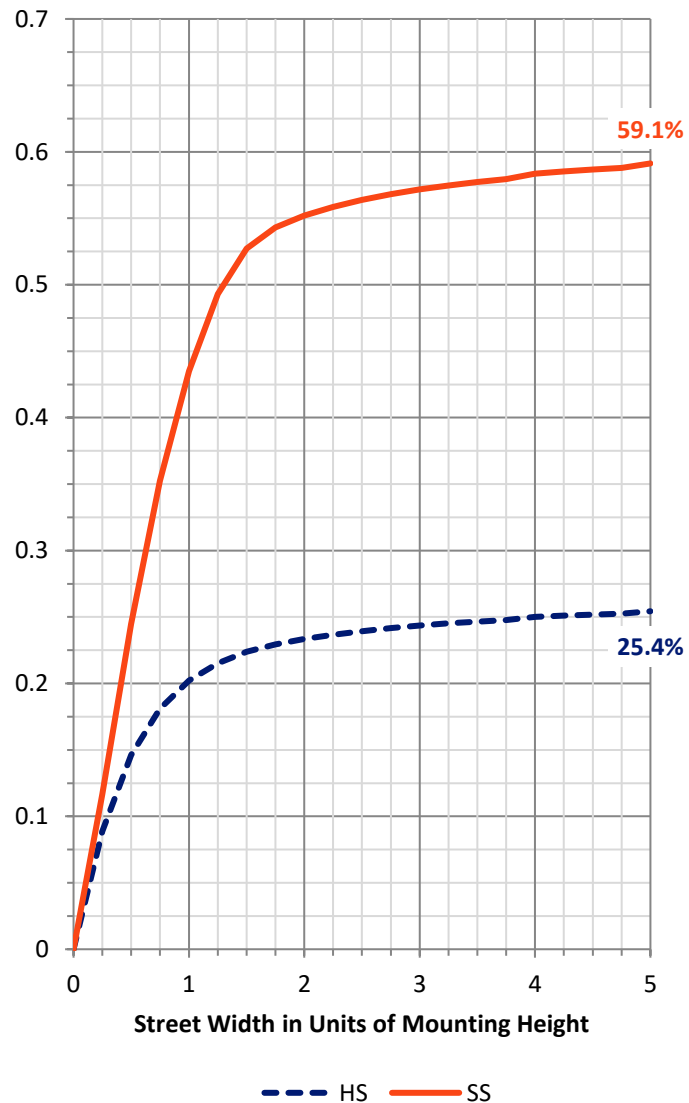
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.3	102.5	952.8
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	1970.3	304.0	2274.4
	% Fixture	61.1	9.4	70.5
Total	Lumens	2820.6	406.5	3227.1
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	1.3
10°-20°	155.2	4.8
20°-30°	317.5	9.8
30°-40°	534.1	16.5
40°-50°	707.0	21.9
50°-60°	509.8	15.8
60°-70°	200.3	6.2
70°-80°	180.5	5.6
80°-90°	175.9	5.4
90°-100°	148.3	4.6
100°-110°	105.4	3.3
110°-120°	71.1	2.2
120°-130°	46.5	1.4
130°-140°	27.8	0.9
140°-150°	7.0	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2820.6	87.4
0°-180°	3227.1	100.0

Coefficient of Utilization



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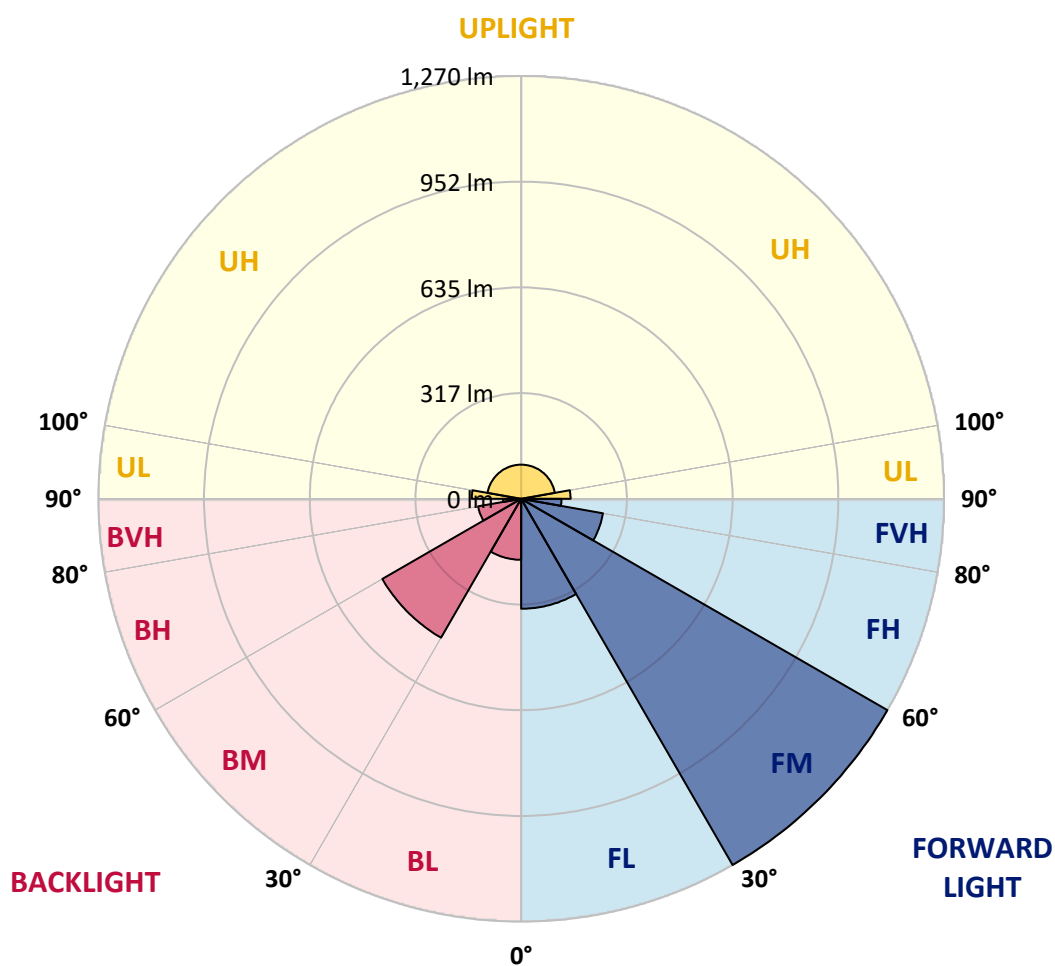
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.1	10.2			
FM	(30°-60°)	1269.5	39.3			
FH	(60°-80°)	249.6	7.7			G0/660
FVH	(80°-90°)	121.2	3.8			G2/225
BL	(0°-30°)	183.1	5.7	B1/500		
BM	(30°-60°)	481.3	14.9	B1/1000		
BH	(60°-80°)	131.2	4.1	B1/500		G1/500
BVH	(80°-90°)	54.7	1.7			G1/100
UL	(90°-100°)	148.3	4.6		U3/500	
UH	(100°-180°)	102.5	3.2		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°	69°	75°	85°
0°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	395.6	393.3	392.4	392.4	391.1	390.7	391.5	390.3	388.0	387.6	385.0
5°	423.2	422.4	421.8	425.3	428.4	429.3	428.4	428.4	425.8	425.8	417.4
7.5°	467.6	466.2	469.8	478.5	481.6	490.8	501.9	495.2	497.0	492.2	476.3
10°	519.0	516.7	533.1	544.9	572.1	583.5	597.6	596.4	593.7	585.3	558.9
12.5°	565.6	564.2	585.3	628.5	664.8	701.8	704.9	674.5	661.0	631.0	598.1
15°	623.6	625.0	657.0	718.0	772.2	787.0	749.6	689.9	664.4	633.7	584.8
17.5°	717.1	721.6	776.0	845.5	881.5	821.3	741.3	672.8	648.7	615.2	568.2
20°	771.6	774.2	849.0	943.0	953.6	856.1	773.0	699.2	678.1	651.7	613.1
22.5°	804.3	813.9	899.6	1014.6	1008.4	936.9	821.8	751.9	725.6	689.4	657.9
25°	856.4	863.5	945.6	1056.9	1029.5	963.3	865.2	772.2	746.2	719.8	688.2
27.5°	927.2	933.8	1026.1	1090.3	1061.6	998.5	930.4	870.5	857.0	852.5	838.8
30°	965.0	969.5	1073.1	1127.2	1078.3	1049.0	1030.0	982.1	978.3	969.5	938.2
32.5°	986.6	1003.2	1123.7	1154.9	1091.1	1087.6	1099.0	1069.6	1061.6	1046.7	1010.8
35°	1005.9	1014.2	1127.6	1175.1	1111.8	1110.0	1188.6	1202.3	1184.8	1154.0	1067.8
37.5°	1154.9	1158.9	1236.5	1219.9	1139.1	1148.8	1278.4	1349.1	1333.3	1295.0	1235.7
40°	1235.7	1242.7	1314.8	1280.1	1196.6	1207.6	1343.0	1489.7	1503.8	1502.4	1450.7
42.5°	1172.8	1180.4	1282.7	1301.1	1243.7	1251.1	1385.1	1541.1	1563.5	1494.5	1375.0
45°	1377.6	1383.4	1440.9	1306.0	1211.5	1240.1	1352.2	1503.8	1524.0	1503.8	1401.4
47.5°	1377.2	1370.2	1418.1	1319.6	1209.4	1190.1	1280.5	1432.2	1472.1	1426.0	1314.8
50°	1210.6	1210.2	1328.5	1271.7	1185.7	1140.8	1201.9	1321.9	1331.5	1277.5	1128.5
52.5°	1057.2	1056.4	1193.0	1164.1	1107.8	1064.0	1101.7	1221.2	1258.2	1210.6	1086.3
55°	921.5	959.3	1079.3	1017.3	994.1	950.4	988.3	1017.8	998.8	867.0	584.8
57.5°	558.0	599.9	756.3	801.1	806.4	775.1	689.4	588.8	552.7	441.6	263.7
60°	260.1	270.3	396.8	483.0	589.3	538.8	435.9	379.7	379.7	333.5	229.0
62.5°	183.3	190.4	260.6	311.5	352.9	348.1	309.3	317.3	333.1	312.4	220.7
65°	172.2	176.6	232.0	247.5	263.3	266.3	261.0	285.2	301.9	299.2	223.7
67.5°	160.0	165.6	211.8	221.9	234.2	239.9	243.9	271.9	289.7	299.2	232.5
70°	145.4	152.1	195.6	209.7	221.5	234.6	239.5	269.9	287.8	297.5	235.5
72.5°	131.8	137.5	174.0	191.6	212.7	228.1	247.5	265.9	278.1	288.3	237.3
75°	118.7	125.3	155.9	176.2	200.9	229.8	253.1	266.7	275.2	283.0	235.0
77.5°	109.9	116.9	141.0	164.4	193.9	233.7	260.1	277.8	282.5	283.9	232.5
80°	102.0	109.9	135.4	160.0	192.1	235.5	268.6	289.7	296.3	299.2	247.5
82.5°	107.6	114.8	136.6	166.5	197.7	235.0	266.3	299.8	307.2	305.5	252.2
85°	121.7	127.4	154.2	182.4	206.5	231.1	258.4	294.9	305.5	314.6	267.2
87.5°	148.1	150.7	170.0	196.0	215.8	223.7	250.9	285.2	294.9	298.0	260.1
90°	162.1	164.7	187.7	209.1	215.4	218.0	223.7	258.0	265.0	277.2	248.7
92.5°	178.5	178.5	202.2	214.9	214.9	203.8	207.9	238.6	250.4	257.5	231.1
95°	194.3	193.3	206.5	213.9	202.6	187.1	193.9	218.0	225.5	232.9	214.9
97.5°	199.1	198.6	206.5	202.2	183.3	168.7	177.1	197.7	205.6	213.5	195.1
100°	193.9	191.6	193.9	184.2	166.5	155.5	160.3	177.5	185.9	192.4	175.8
102.5°	182.4	181.1	181.9	172.2	153.8	140.7	147.2	165.2	171.3	176.6	161.8
105°	177.1	174.9	170.9	156.8	138.9	129.6	135.4	153.4	159.1	169.6	157.4
107.5°	150.7	148.9	145.9	138.3	129.1	122.2	127.0	139.7	143.3	148.5	137.1
110°	130.1	129.1	128.3	126.5	120.8	116.1	118.7	125.8	130.1	134.0	122.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	125.8	124.3	123.4	120.5	112.9	107.6	109.5	117.3	120.0	121.4	109.0
115°	120.0	118.7	113.8	109.5	104.2	101.5	102.0	108.5	110.3	111.2	103.8
117.5°	106.4	105.0	102.0	100.3	97.0	95.8	97.9	101.5	102.0	102.3	95.8
120°	98.5	97.9	96.3	93.2	91.0	87.9	91.4	95.0	96.3	97.6	93.2
122.5°	89.7	88.8	87.0	83.1	83.1	81.2	80.8	83.1	83.5	87.0	84.8
125°	79.1	78.2	76.4	72.9	77.3	77.3	74.3	69.3	70.7	73.8	72.0
127.5°	70.7	69.9	68.1	66.4	72.6	74.6	69.3	60.6	61.5	62.4	61.1
130°	69.3	68.5	66.4	63.3	65.0	71.7	62.4	55.3	56.8	57.6	56.8
132.5°	68.1	67.7	64.6	60.6	58.4	64.6	54.1	52.3	53.5	54.9	54.1
135°	63.7	63.3	60.6	54.9	48.8	51.8	43.1	45.8	47.9	49.6	48.8
137.5°	56.8	56.2	54.1	48.4	40.0	37.4	33.0	39.0	40.9	43.1	43.1
140°	45.8	45.3	43.1	37.4	28.1	19.8	21.1	29.9	31.6	34.2	34.8
142.5°	33.3	32.5	30.4	25.1	15.8	6.6	11.9	18.1	20.2	22.8	24.7
145°	22.8	22.4	19.4	14.9	7.5	0.9	5.3	11.0	12.2	14.1	15.8
147.5°	14.6	14.6	12.2	8.4	2.2	0.9	1.3	5.7	7.0	8.9	10.2
150°	8.9	8.9	6.6	2.6	0.4	0.4	0.4	0.9	2.2	4.0	5.3
152.5°	2.2	2.2	1.3	0.9	0.4	0.0	0.4	0.4	0.4	0.4	0.9
155°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.4	0.4	0.4	0.0	0.4	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°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	383.7	381.1	377.5	372.6	367.9	362.9	358.2	355.5	354.2	353.4	352.9
5°	415.2	409.5	400.4	387.6	371.8	362.6	356.0	348.1	342.8	340.9	339.6
7.5°	471.2	461.9	443.5	416.2	396.8	369.6	346.2	331.4	320.3	314.1	314.1
10°	545.8	532.6	500.5	463.2	413.5	365.6	329.6	302.3	289.7	284.4	283.0
12.5°	578.8	566.0	528.3	484.6	431.9	376.2	330.4	298.0	282.5	276.4	277.2
15°	562.1	544.5	511.9	471.2	429.7	394.6	356.4	315.9	289.7	282.5	284.8
17.5°	545.4	527.3	492.6	447.4	406.9	383.7	356.8	329.6	304.5	294.5	292.7
20°	594.0	580.9	534.0	482.5	421.8	362.9	344.1	331.7	323.4	323.8	319.8
22.5°	640.8	622.6	579.6	519.4	454.0	402.5	371.8	355.5	346.2	350.2	350.7
25°	671.9	658.3	594.6	522.5	467.9	429.7	385.5	362.6	347.1	347.1	345.4
27.5°	830.6	796.6	695.6	585.3	504.0	440.8	387.2	360.8	341.4	335.7	336.7
30°	913.5	880.2	764.6	630.6	545.4	467.1	392.0	351.1	346.2	342.3	343.6
32.5°	984.8	935.6	799.0	642.5	537.8	471.2	402.5	353.4	329.9	326.1	327.8
35°	1019.9	965.0	826.1	653.0	541.4	454.5	389.8	344.1	329.1	325.1	326.5
37.5°	1182.1	1100.0	869.2	668.9	540.5	432.4	372.6	335.7	308.1	296.3	296.3
40°	1368.4	1247.6	944.4	668.0	507.2	413.5	353.8	319.4	297.5	288.3	287.8
42.5°	1271.7	1156.6	900.5	648.1	474.7	379.3	343.2	312.4	288.7	282.5	281.2
45°	1312.2	1189.1	868.8	592.8	425.8	352.0	318.2	296.6	269.4	255.3	254.8
47.5°	1183.8	1085.1	804.3	522.5	383.7	309.3	288.3	274.3	257.1	245.1	243.9
50°	1027.0	927.2	676.8	463.2	327.0	274.3	259.7	252.7	235.5	221.9	222.8
52.5°	981.3	860.4	589.7	404.2	281.2	239.0	232.0	224.0	207.0	191.2	193.0
55°	486.4	403.0	358.7	314.1	236.0	207.9	204.8	200.0	182.8	169.2	169.6
57.5°	226.7	195.6	171.3	182.4	178.0	180.6	179.3	176.2	160.0	140.7	139.2
60°	203.0	174.0	145.4	138.0	146.3	157.7	156.8	147.2	126.5	103.8	101.1
62.5°	196.0	166.5	141.0	130.1	133.6	141.0	135.7	123.4	106.8	85.7	85.2
65°	199.6	168.3	140.7	127.0	129.6	132.7	125.3	116.4	106.4	91.8	91.8
67.5°	207.0	174.9	143.6	125.8	127.0	130.1	123.1	116.9	111.6	102.0	102.0
70°	209.1	178.0	145.4	126.1	124.9	127.4	122.6	116.9	113.8	105.9	105.6
72.5°	210.1	179.8	144.5	124.0	120.8	123.1	119.6	116.9	115.6	109.5	108.5
75°	206.2	178.0	140.1	119.0	116.1	116.9	116.1	115.6	117.3	113.4	112.1
77.5°	201.3	175.3	136.6	113.8	110.3	110.8	109.9	111.2	112.9	110.3	108.1
80°	211.5	182.8	137.1	109.9	103.2	101.1	101.5	102.9	105.0	99.4	96.3
82.5°	214.9	183.3	131.0	101.1	92.7	89.7	90.5	94.1	95.8	90.5	87.5
85°	228.1	191.6	126.5	93.2	83.5	80.4	81.2	83.5	82.6	76.4	73.8
87.5°	222.8	185.9	118.7	83.9	76.0	73.4	73.8	74.6	71.7	63.7	61.5
90°	215.4	179.3	109.9	73.8	67.3	66.4	65.4	64.1	58.8	50.6	48.4
92.5°	201.7	167.4	102.0	66.8	59.7	59.3	58.0	55.3	50.6	42.2	40.0
95°	190.4	156.8	94.5	61.1	53.5	51.8	51.8	49.1	43.9	36.9	36.0
97.5°	171.3	142.8	87.0	56.2	47.9	46.2	45.8	43.9	40.0	34.8	34.2
100°	155.0	129.1	79.1	50.9	43.1	41.3	40.5	39.5	36.6	33.3	33.3
102.5°	143.6	119.6	73.8	46.6	38.6	36.9	36.9	36.0	34.2	32.1	32.1
105°	140.7	117.3	71.7	42.6	34.2	33.3	33.9	33.9	32.5	31.3	31.3
107.5°	122.2	101.1	61.5	37.8	31.3	30.4	30.7	31.3	30.7	30.4	30.4
110°	109.0	91.8	57.1	35.7	29.5	28.1	28.1	28.1	28.1	28.6	29.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	97.6	81.7	52.3	33.9	27.7	26.4	26.0	25.5	25.1	26.8	26.8
115°	93.2	79.5	50.9	33.0	26.4	25.1	23.7	22.8	22.0	23.3	23.7
117.5°	86.5	74.6	49.6	33.0	26.0	23.7	22.4	21.1	19.8	21.1	21.1
120°	84.8	74.3	50.6	33.3	25.1	22.0	20.7	19.0	18.1	19.4	19.8
122.5°	78.2	69.3	47.9	31.6	24.2	21.1	19.8	16.3	16.3	17.2	17.5
125°	66.4	58.8	41.3	28.6	22.8	21.1	19.4	14.6	14.9	15.8	15.8
127.5°	56.8	50.9	37.8	27.7	23.3	21.5	18.1	13.7	14.6	15.8	15.8
130°	53.5	48.8	38.3	29.0	24.2	22.0	14.9	11.9	14.1	15.5	15.5
132.5°	51.5	47.5	38.3	30.4	25.1	20.2	11.9	10.5	11.9	12.8	12.8
135°	46.6	43.9	36.6	29.0	22.8	15.8	9.7	9.3	11.0	11.9	11.9
137.5°	41.7	39.0	33.3	26.8	20.2	12.8	7.0	8.4	9.3	10.2	10.2
140°	34.2	32.5	27.7	22.0	14.9	7.0	5.3	6.6	7.9	8.9	8.9
142.5°	24.2	23.3	19.4	14.1	8.4	2.6	3.6	4.9	5.7	6.6	6.6
145°	15.8	14.9	12.2	8.9	3.6	0.9	2.2	3.1	4.4	4.9	4.9
147.5°	10.2	9.7	7.5	4.4	1.3	0.9	0.9	2.2	3.6	4.0	4.0
150°	4.9	4.4	3.1	1.3	0.9	0.4	0.4	0.9	2.2	2.6	2.6
152.5°	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.4	0.4	0.9	0.9
155°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.4	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	0.4	0.4	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)