

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: P240202

Luminaire Tested: **UTLD-AF24-50-D-U-T4W-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T4W-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4581.2 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 54
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



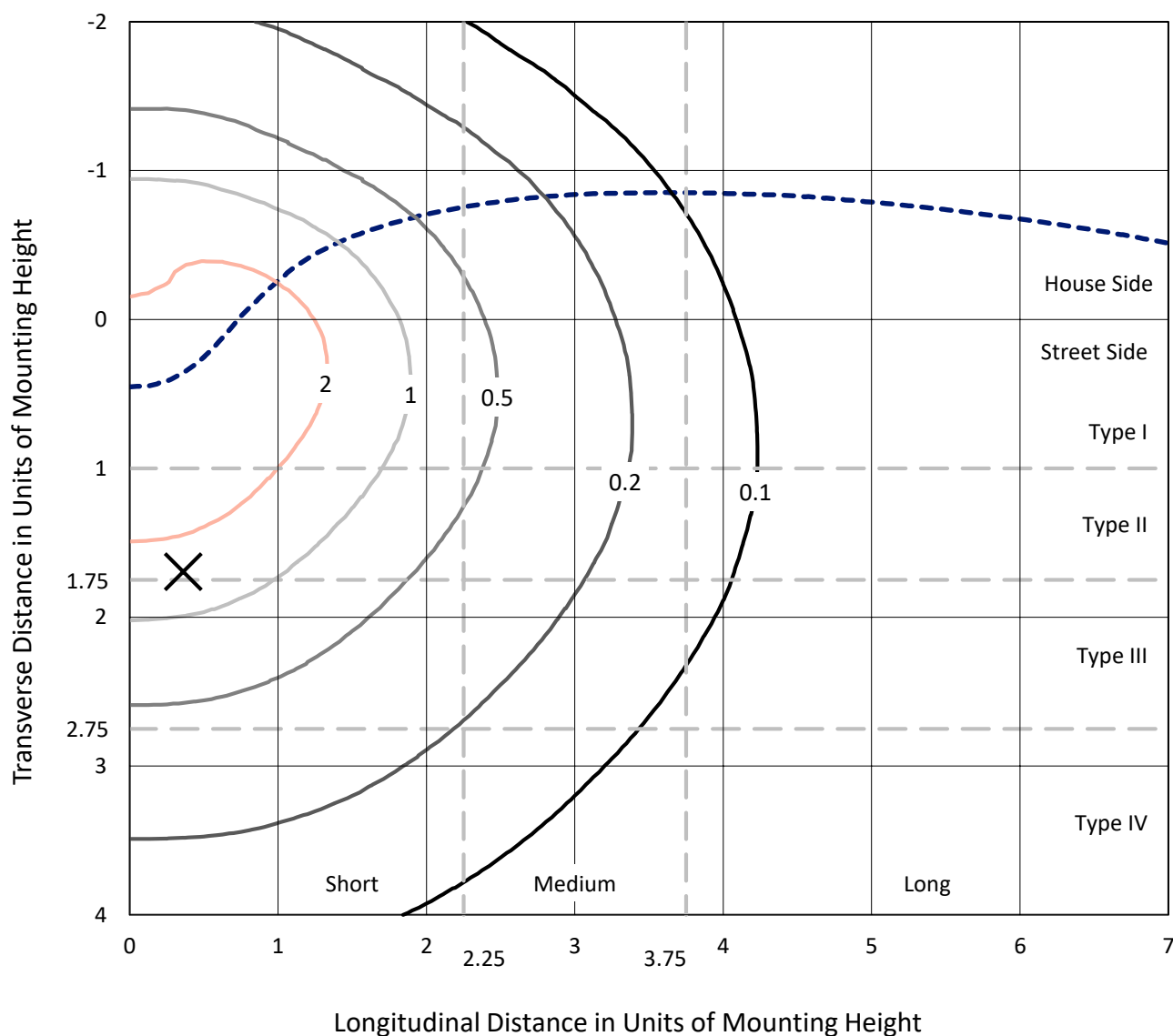
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

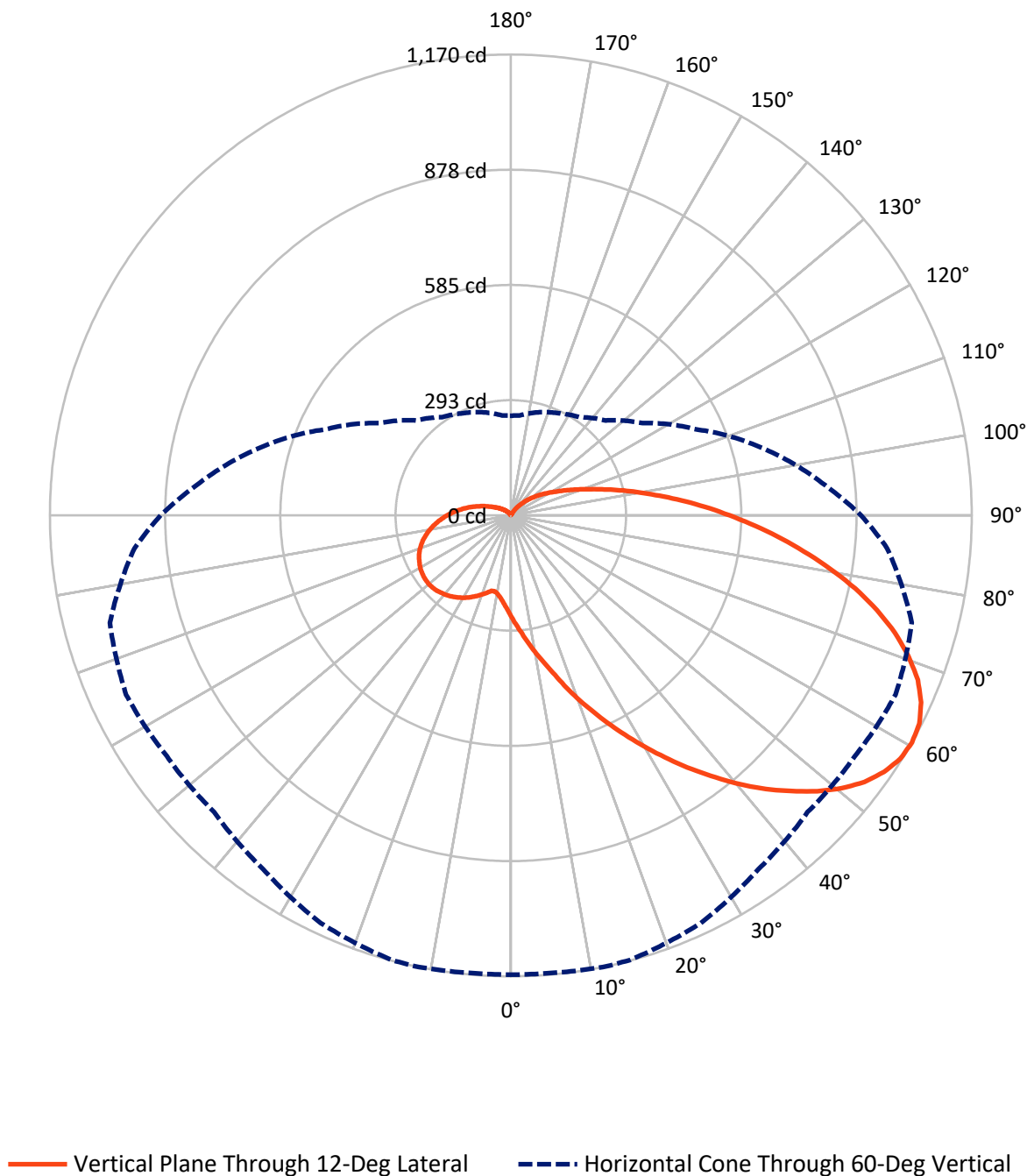


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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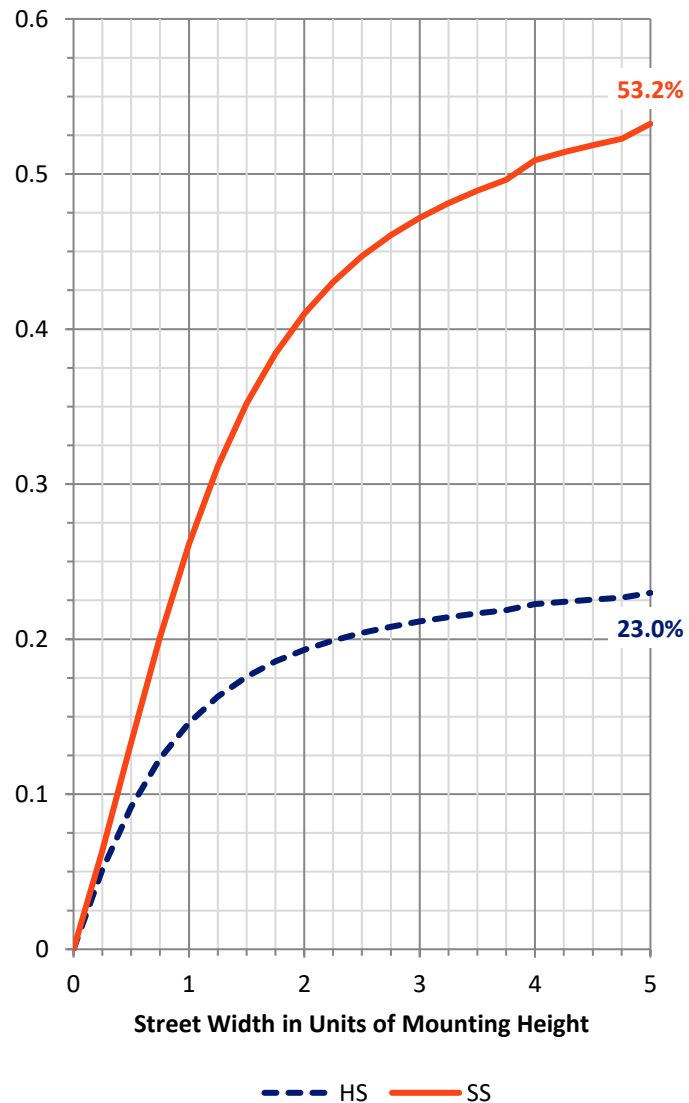
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1126.3	259.4	1385.7
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	2658.0	537.5	3195.5
	% Fixture	58.0	11.7	69.8
Total	Lumens	3784.3	796.9	4581.2
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	0.6
10°-20°	89.8	2.0
20°-30°	192.7	4.2
30°-40°	337.3	7.4
40°-50°	508.0	11.1
50°-60°	663.2	14.5
60°-70°	738.6	16.1
70°-80°	689.5	15.1
80°-90°	539.4	11.8
90°-100°	364.6	8.0
100°-110°	220.3	4.8
110°-120°	121.4	2.6
120°-130°	60.4	1.3
130°-140°	24.2	0.5
140°-150°	5.8	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3784.3	82.6
0°-180°	4581.2	100.0

Coefficient of Utilization



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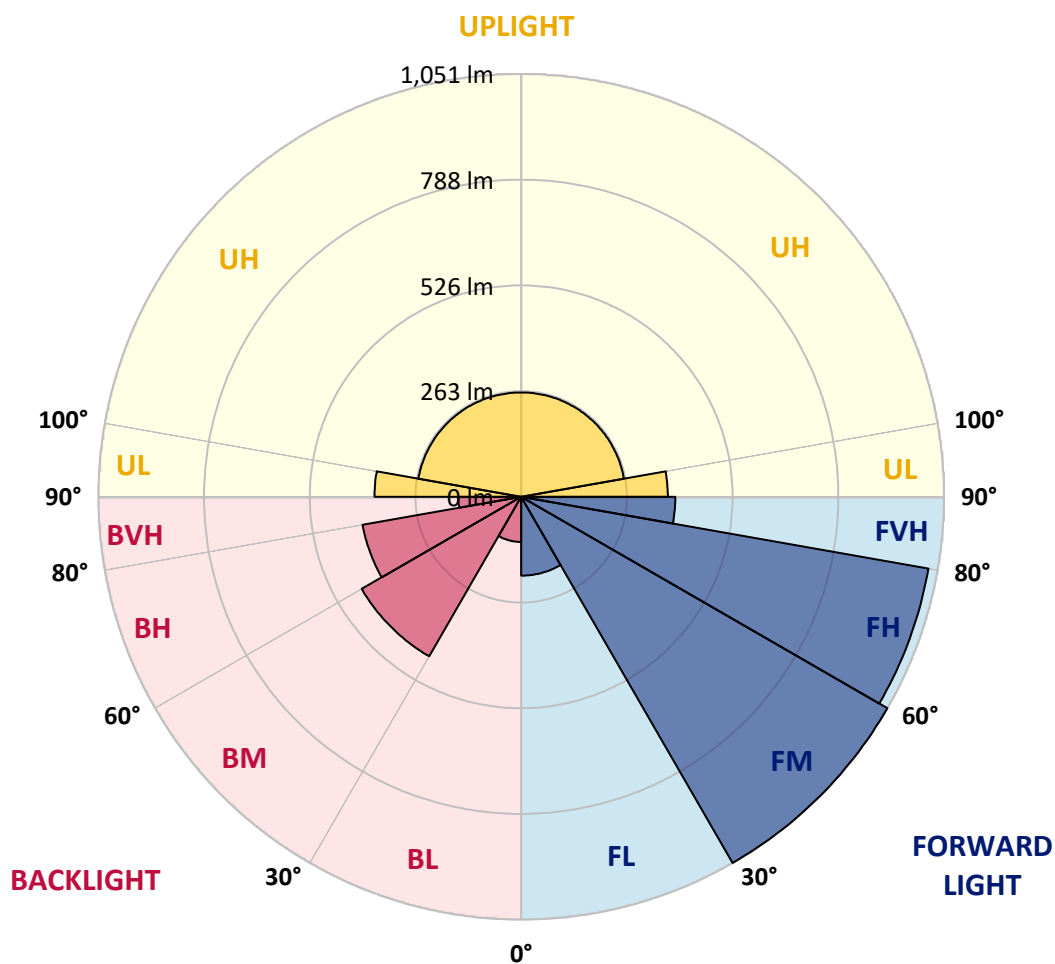
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.9	4.3			
FM	(30°-60°)	1051.0	22.9			
FH	(60°-80°)	1028.0	22.4			G1/1800
FVH	(80°-90°)	383.1	8.4			G3/500
BL	(0°-30°)	112.2	2.4	B1/500		
BM	(30°-60°)	457.6	10.0	B1/1000		
BH	(60°-80°)	400.2	8.7	B1/500		G1/500
BVH	(80°-90°)	156.4	3.4			G2/225
UL	(90°-100°)	364.6	8.0		U3/500	
UH	(100°-180°)	259.4	5.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3
2.5°	280.7	279.4	279.4	278.3	278.3	275.9	274.0	271.0	268.0	264.3	261.3
5°	303.2	303.2	301.9	301.9	299.5	295.2	291.0	285.6	280.1	274.0	266.8
7.5°	329.9	329.2	329.2	327.4	324.4	318.3	312.3	304.4	295.9	285.6	275.9
10°	357.1	356.5	356.5	354.6	351.0	343.7	334.7	325.6	314.6	301.3	288.0
12.5°	389.8	387.5	386.2	385.5	379.5	372.9	361.3	350.4	335.9	320.6	304.4
15°	424.4	423.8	420.2	418.4	412.2	402.0	391.0	377.7	363.2	346.3	326.1
17.5°	463.3	463.3	460.7	458.4	451.7	437.7	423.8	411.1	396.5	375.9	353.5
20°	505.0	505.0	502.0	498.3	489.9	477.8	463.8	448.6	431.0	408.6	381.4
22.5°	549.3	548.1	543.9	541.4	531.1	517.8	506.9	489.3	468.6	443.1	411.7
25°	596.0	594.2	589.9	587.5	575.4	565.1	552.3	531.8	508.0	479.0	443.8
27.5°	645.0	640.3	637.2	633.6	622.0	611.8	594.2	574.8	547.5	517.2	478.3
30°	692.3	690.5	686.9	682.1	671.7	659.6	640.3	619.1	592.4	559.0	515.9
32.5°	746.4	744.5	738.5	733.5	720.2	707.6	687.6	665.1	636.7	601.5	554.7
35°	800.4	797.9	791.2	785.8	774.8	756.1	732.4	711.2	682.7	647.0	596.5
37.5°	856.0	851.2	843.9	840.3	827.0	803.9	779.1	756.1	730.0	693.6	639.0
40°	908.8	906.5	897.9	893.6	879.1	850.6	823.4	802.7	779.1	740.9	683.3
42.5°	962.8	958.5	950.0	945.8	928.8	896.2	867.6	848.2	828.1	790.6	728.2
45°	1010.6	1008.9	998.5	996.1	975.5	940.4	907.6	890.7	873.1	837.3	769.4
47.5°	1057.4	1053.1	1046.4	1043.4	1019.2	979.2	947.1	932.5	917.9	885.2	813.7
50°	1095.6	1095.0	1088.9	1085.3	1057.4	1013.7	981.0	969.4	961.6	930.1	853.7
52.5°	1128.3	1127.7	1124.1	1120.5	1090.7	1045.3	1011.3	1002.8	1000.4	971.4	888.9
55°	1151.4	1150.7	1149.5	1145.9	1116.8	1070.0	1036.8	1030.1	1033.1	1005.8	920.4
57.5°	1164.7	1164.0	1165.9	1162.8	1133.1	1087.1	1054.4	1052.5	1059.9	1034.9	944.0
60°	1165.9	1165.9	1170.1	1168.3	1141.6	1096.2	1065.3	1065.9	1077.4	1053.7	959.2
62.5°	1155.0	1155.0	1164.0	1162.3	1139.2	1095.6	1067.0	1072.0	1086.5	1064.0	964.6
65°	1131.4	1134.3	1144.7	1144.7	1126.5	1087.1	1061.0	1068.3	1085.9	1063.4	960.9
67.5°	1093.8	1099.8	1114.3	1115.5	1102.9	1068.3	1045.3	1055.6	1075.0	1051.3	945.8
70°	1047.0	1055.6	1070.7	1075.0	1069.5	1041.0	1021.6	1033.7	1052.5	1028.9	920.9
72.5°	992.5	1000.4	1019.8	1024.7	1026.5	1004.0	988.9	1003.4	1018.7	993.0	886.4
75°	931.9	938.5	960.4	965.2	973.1	960.4	950.7	962.1	979.2	947.6	842.2
77.5°	858.6	870.0	894.3	899.7	914.9	908.8	901.6	915.5	928.2	895.0	790.6
80°	787.5	802.2	822.1	833.1	851.2	850.6	851.9	861.0	871.9	835.5	734.9
82.5°	715.4	725.7	749.4	759.7	787.5	794.2	794.2	806.4	810.0	769.4	674.7
85°	642.7	654.8	678.4	688.8	719.0	733.5	737.8	743.9	744.5	702.1	613.0
87.5°	578.4	585.6	608.1	620.8	653.6	670.6	676.0	683.3	678.4	636.7	549.3
90°	514.2	520.8	542.6	553.0	588.7	608.7	620.8	623.9	614.1	569.9	491.1
92.5°	454.1	460.7	481.4	493.6	528.7	549.9	561.4	563.9	553.0	508.0	434.8
95°	401.4	401.4	423.8	432.8	472.3	495.9	506.9	506.9	491.6	447.4	380.8
97.5°	351.6	352.9	370.5	382.0	418.4	443.1	454.7	455.3	434.1	392.2	335.3
100°	306.8	308.6	324.9	335.3	370.5	396.5	406.8	405.1	383.2	340.2	289.7
102.5°	269.8	269.8	283.7	292.3	325.6	351.6	361.3	357.8	335.3	294.0	252.8
105°	236.4	237.6	246.7	255.2	286.8	311.1	320.6	315.3	292.3	252.2	220.7
107.5°	209.8	209.1	215.2	221.2	251.0	274.0	282.6	275.9	251.7	215.8	191.6
110°	183.1	183.7	188.6	192.9	220.0	241.9	248.0	242.5	215.2	183.7	166.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	161.9	161.9	165.5	169.2	188.6	209.8	217.1	209.1	183.1	155.8	144.9
115°	143.6	144.3	145.6	147.3	163.7	183.1	189.1	179.5	153.9	133.4	126.0
117.5°	128.0	128.0	128.5	130.3	140.6	158.2	162.5	152.2	130.3	113.9	110.9
120°	114.6	113.9	113.4	113.9	121.3	134.0	138.2	128.0	108.5	98.9	96.3
122.5°	101.8	101.8	100.6	101.3	103.0	112.7	115.9	106.1	91.6	85.4	84.9
125°	89.7	89.7	88.5	88.0	87.3	92.1	93.4	86.1	75.8	74.0	73.3
127.5°	78.2	78.7	77.0	76.4	74.0	74.7	75.2	68.5	62.5	63.1	63.7
130°	68.5	68.5	66.6	65.4	61.8	58.8	57.6	53.3	51.0	53.3	55.1
132.5°	59.4	58.2	57.1	55.8	50.4	46.1	43.7	40.0	41.2	44.9	46.7
135°	49.7	49.0	47.3	46.7	41.2	34.5	30.3	29.1	32.8	36.9	38.2
137.5°	40.7	40.7	38.8	37.5	31.5	24.9	20.6	20.6	24.9	29.1	31.5
140°	32.1	32.1	30.3	29.1	23.6	16.9	12.8	13.3	18.1	22.4	24.2
142.5°	24.2	24.2	22.4	21.9	16.9	10.9	7.3	8.5	12.8	16.4	18.1
145°	17.6	16.9	15.8	15.2	10.9	6.7	3.6	4.8	7.8	10.9	12.8
147.5°	11.5	11.5	10.3	9.8	6.7	3.6	1.2	2.4	4.8	6.7	8.5
150°	6.7	6.7	6.0	5.5	3.6	1.2	0.0	1.2	2.4	3.6	4.8
152.5°	3.6	3.6	3.1	3.1	1.2	0.6	0.0	0.0	0.6	1.8	1.8
155°	1.2	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3
2.5°	259.5	257.7	254.0	251.0	248.0	244.3	242.5	240.7	239.5	238.3	238.3
5°	263.1	259.5	252.8	246.2	240.1	234.7	229.8	226.1	224.3	223.1	222.6
7.5°	271.0	265.6	254.7	244.3	235.2	226.7	220.0	214.5	211.6	209.8	209.1
10°	281.4	273.4	259.5	245.5	233.4	222.6	213.4	206.7	202.4	200.7	199.5
12.5°	295.2	285.6	267.3	249.7	234.1	220.7	209.1	201.9	197.6	195.2	195.2
15°	316.6	303.7	281.4	257.7	238.3	221.9	209.1	201.2	198.3	197.0	196.4
17.5°	340.8	326.1	299.0	271.6	246.7	226.1	214.5	209.8	205.5	203.8	203.8
20°	367.4	349.8	318.3	287.4	259.5	238.3	225.5	217.7	212.8	211.0	210.5
22.5°	394.1	375.9	338.9	303.7	272.8	254.0	235.9	226.1	220.0	217.7	217.1
25°	424.4	404.4	360.8	321.3	291.6	270.4	249.2	235.2	227.4	224.3	223.8
27.5°	457.1	433.5	385.0	340.2	309.9	284.9	261.3	242.5	234.7	231.0	230.4
30°	491.1	465.0	409.2	359.6	327.4	297.7	272.8	251.7	241.4	237.1	236.4
32.5°	526.8	495.9	435.3	382.6	343.7	309.2	282.6	260.1	247.4	242.5	242.5
35°	566.8	531.1	460.7	403.8	358.9	320.6	291.0	268.0	252.8	248.0	248.0
37.5°	605.1	566.3	488.1	426.8	372.9	329.9	297.7	275.3	258.3	252.2	252.2
40°	645.7	601.5	514.2	445.7	385.0	337.1	303.7	280.7	262.6	257.1	255.8
42.5°	685.2	636.7	542.0	465.0	395.3	343.2	308.6	285.6	266.1	259.5	258.8
45°	726.3	671.7	568.7	480.7	403.8	347.5	311.1	288.6	270.4	261.9	260.7
47.5°	762.1	705.2	594.8	494.7	410.5	349.8	312.8	291.0	272.8	263.1	261.9
50°	797.9	734.9	616.6	506.3	414.1	351.0	313.5	291.6	274.7	263.1	261.9
52.5°	830.1	762.7	635.4	514.2	415.9	350.4	312.8	291.6	275.3	261.9	260.7
55°	856.7	785.1	648.8	519.0	415.9	348.6	311.1	290.4	274.7	260.7	258.8
57.5°	876.7	800.4	657.8	520.2	412.9	344.9	308.0	288.6	272.8	258.3	255.8
60°	888.9	808.8	660.9	517.2	408.1	340.8	304.4	286.2	271.0	254.7	252.8
62.5°	892.4	810.0	657.8	511.2	401.4	334.7	299.0	281.9	267.3	250.4	248.6
65°	886.4	803.4	649.3	501.4	392.2	327.4	293.5	277.1	263.1	245.5	243.7
67.5°	870.0	788.8	634.1	488.1	382.0	318.9	287.4	271.6	258.3	240.1	236.4
70°	845.7	767.0	614.8	471.7	369.9	309.9	280.1	265.0	251.7	234.1	230.4
72.5°	810.6	737.3	589.4	451.7	355.8	300.1	271.0	257.1	244.3	226.7	221.9
75°	768.2	699.0	559.0	431.0	341.3	288.6	261.9	248.6	235.9	218.3	214.0
77.5°	720.9	659.1	526.3	407.4	324.4	277.1	252.2	239.5	226.1	209.1	203.1
80°	669.3	612.4	490.5	383.2	308.6	264.3	241.4	229.2	215.8	199.5	192.9
82.5°	613.6	563.9	454.7	358.9	291.0	251.7	230.4	218.3	204.4	188.6	181.9
85°	559.0	514.2	417.2	332.8	274.0	238.3	218.3	206.2	193.4	177.0	171.0
87.5°	502.6	463.8	380.1	307.3	257.1	225.5	206.7	194.1	180.8	165.5	160.7
90°	453.5	416.5	345.6	283.1	239.5	211.6	194.6	181.3	168.6	153.9	149.8
92.5°	401.4	371.1	311.6	260.1	223.1	198.3	182.5	169.8	155.8	141.8	138.9
95°	356.5	331.6	280.7	237.1	205.5	185.5	170.3	157.0	143.1	129.8	128.0
97.5°	313.5	292.9	250.4	215.8	190.3	172.2	157.7	144.9	130.3	118.2	117.0
100°	275.3	257.1	223.1	196.4	174.0	159.4	146.1	132.8	118.2	106.7	106.7
102.5°	240.1	226.1	198.9	176.5	159.4	145.6	133.4	120.0	105.6	95.8	96.3
105°	211.6	198.3	175.8	158.9	144.9	132.2	120.6	107.3	93.4	85.4	86.1
107.5°	184.3	174.0	155.8	141.3	130.3	120.0	107.9	95.2	81.3	76.4	77.0
110°	160.7	152.8	138.2	126.0	117.7	107.9	97.0	83.7	70.9	68.0	68.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	140.1	133.4	122.5	112.7	104.3	96.3	84.9	72.7	60.6	59.4	59.4
115°	122.5	117.7	107.3	99.4	93.4	85.4	75.2	62.5	52.8	52.1	52.8
117.5°	107.3	103.0	94.6	88.0	82.5	75.2	65.4	53.3	44.9	45.5	46.1
120°	94.0	90.9	83.7	78.2	72.7	66.1	55.8	44.9	39.5	40.0	40.0
122.5°	83.0	80.0	74.0	68.5	63.7	57.1	47.8	37.5	34.0	35.2	35.2
125°	72.1	70.4	64.3	59.4	54.5	47.8	39.5	30.9	29.1	30.3	30.3
127.5°	62.5	61.1	56.4	51.0	46.1	40.0	32.1	25.4	24.9	26.1	26.1
130°	54.0	52.8	48.5	43.7	38.2	32.8	24.9	20.6	21.2	22.4	23.1
132.5°	46.1	45.5	41.2	35.7	30.9	25.4	19.4	16.9	18.1	19.4	19.4
135°	38.2	37.5	34.5	29.7	24.2	19.4	14.5	13.3	15.2	16.4	16.4
137.5°	31.5	30.3	27.9	23.1	18.1	13.9	10.3	10.9	12.1	13.3	13.3
140°	24.9	24.2	21.9	17.6	12.8	9.1	7.3	8.5	10.3	10.9	10.9
142.5°	18.1	18.1	15.8	12.1	7.8	5.5	4.8	6.0	7.8	8.5	8.5
145°	12.8	12.8	10.9	7.8	4.8	2.4	2.4	4.3	5.5	6.0	6.7
147.5°	8.5	7.8	6.7	4.8	2.4	0.6	1.2	3.1	3.6	4.3	4.3
150°	4.8	4.8	3.6	2.4	1.2	0.0	0.6	1.2	1.8	2.4	3.1
152.5°	1.8	1.8	1.2	0.6	0.6	0.0	0.0	0.0	0.6	1.2	1.2
155°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.0	0.6	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

(END OF REPORT)