

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: P266504

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
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-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6154.9 lumens
Efficiency: N/A
Efficacy: 65.5 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 - U4 - G3

Input Watts (W): 94
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



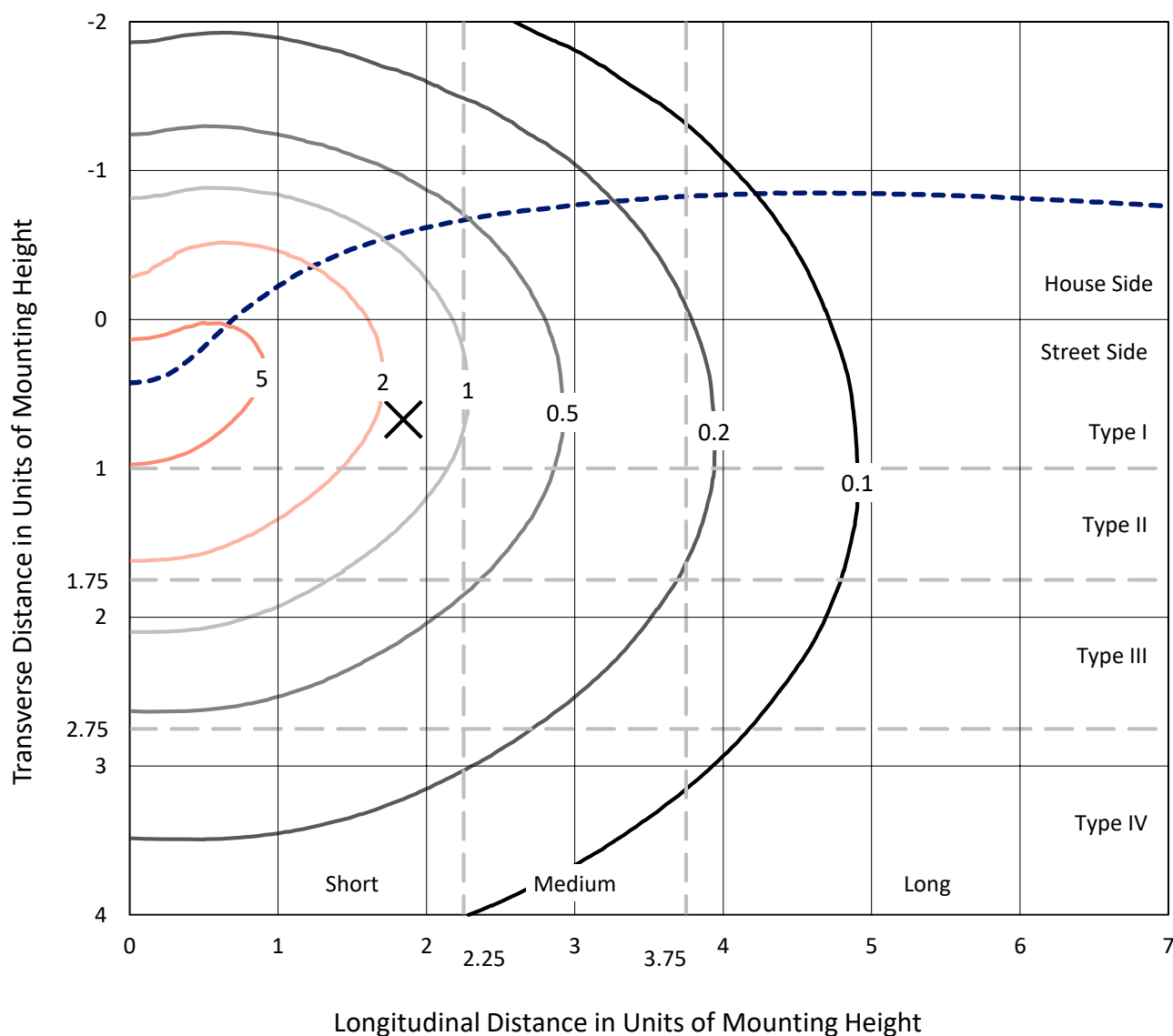
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

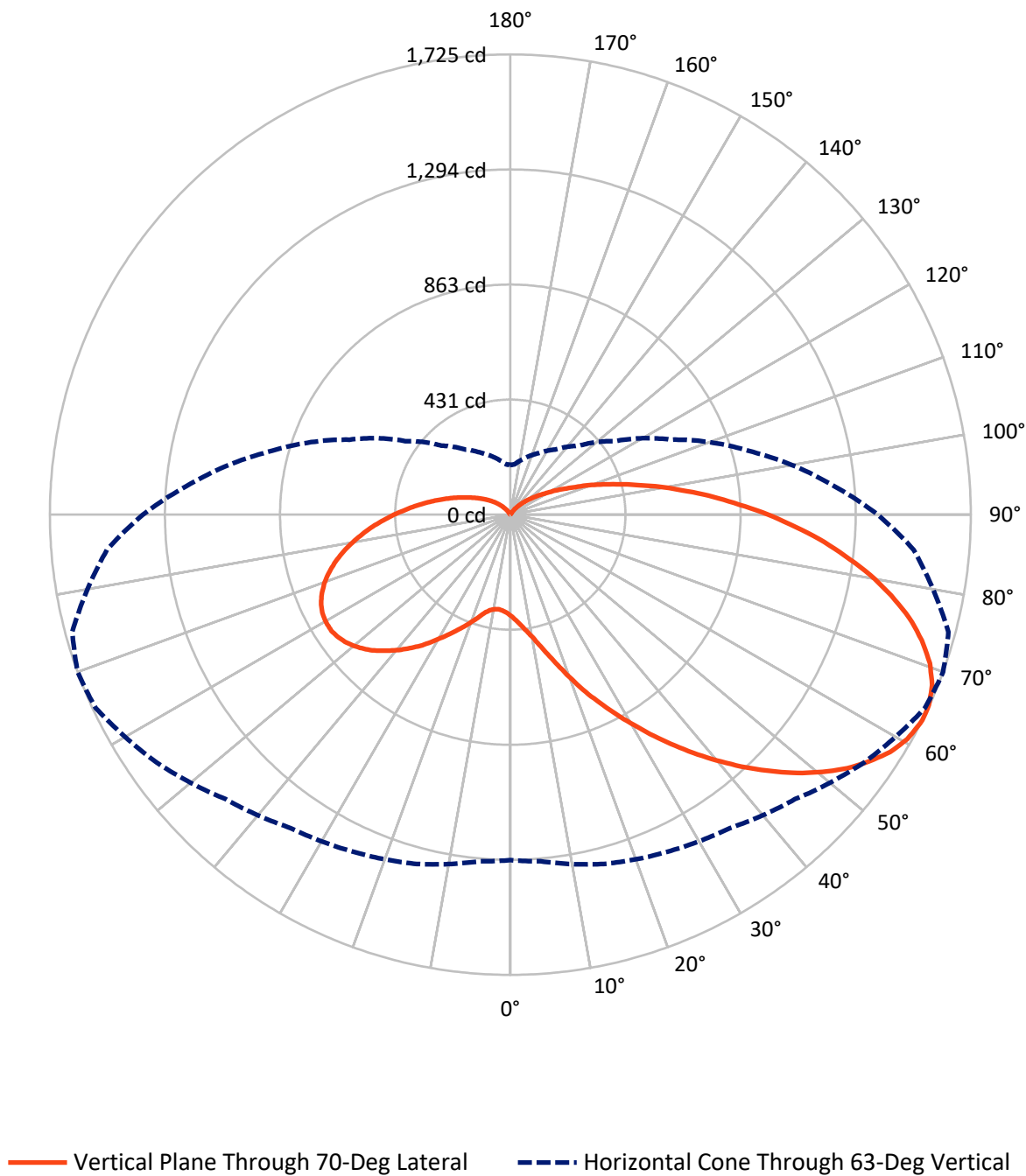


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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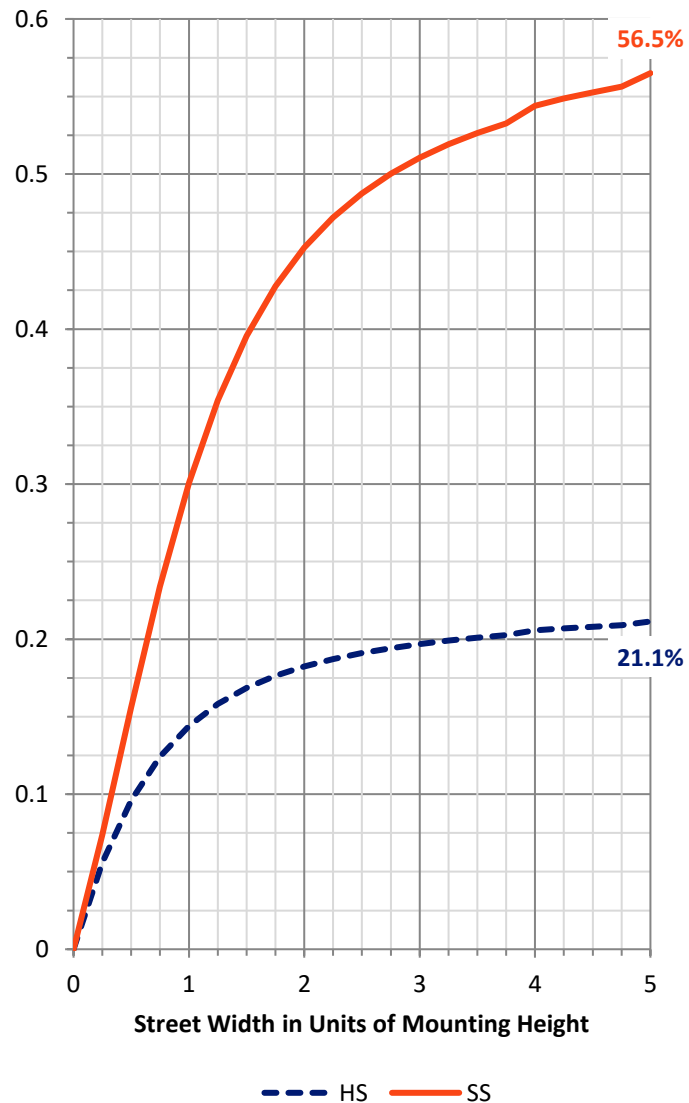
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1382.4	334.5	1716.9
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	3736.7	701.3	4438.0
	% Fixture	60.7	11.4	72.1
Total	Lumens	5119.1	1035.8	6154.9
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	0.6
10°-20°	131.5	2.1
20°-30°	279.4	4.5
30°-40°	481.7	7.8
40°-50°	710.6	11.5
50°-60°	904.4	14.7
60°-70°	981.7	15.9
70°-80°	897.7	14.6
80°-90°	694.5	11.3
90°-100°	468.0	7.6
100°-110°	284.7	4.6
110°-120°	159.5	2.6
120°-130°	81.2	1.3
130°-140°	33.6	0.5
140°-150°	8.3	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5119.1	83.2
0°-180°	6154.9	100.0

Coefficient of Utilization



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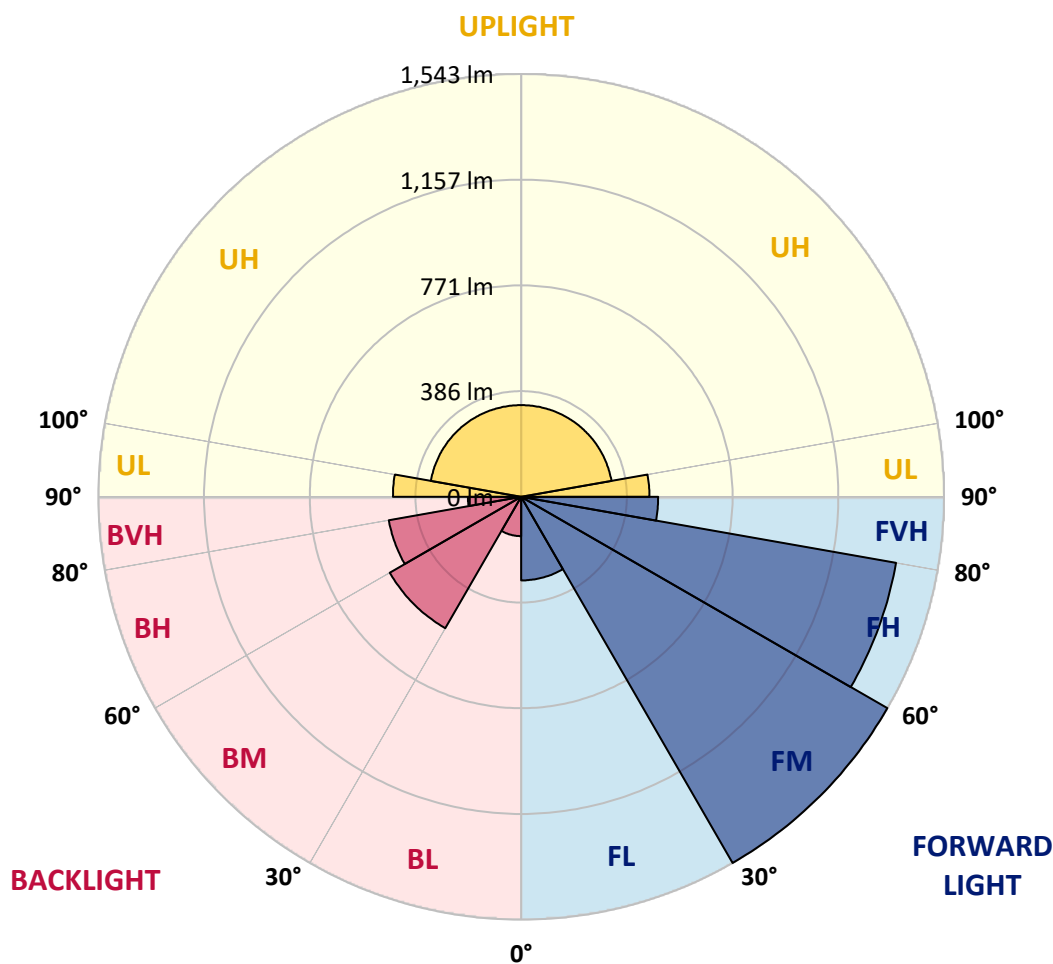
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.0	5.0			
FM	(30°-60°)	1542.9	25.1			
FH	(60°-80°)	1388.9	22.6			G1/1800
FVH	(80°-90°)	499.9	8.1			G3/500
BL	(0°-30°)	143.6	2.3	B1/500		
BM	(30°-60°)	553.8	9.0	B1/1000		
BH	(60°-80°)	490.5	8.0	B1/500		G1/500
BVH	(80°-90°)	194.5	3.2			G2/225
UL	(90°-100°)	468.0	7.6		U3/500	
UH	(100°-180°)	334.5	5.4		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8
2.5°	423.3	422.6	421.7	417.4	415.7	409.8	404.9	398.9	395.7	392.3	385.6
5°	467.7	466.1	463.5	459.4	451.8	443.5	433.4	421.7	415.7	409.1	395.7
7.5°	511.3	510.4	509.7	501.3	493.8	480.4	466.1	449.3	440.9	430.0	409.8
10°	559.1	560.8	555.8	548.2	535.7	521.3	503.1	480.4	469.5	457.6	430.8
12.5°	613.6	612.7	608.6	596.0	582.6	566.7	544.1	519.7	507.2	491.3	456.9
15°	669.0	665.6	660.6	652.2	635.5	617.0	592.6	565.0	550.8	533.1	494.5
17.5°	726.8	724.3	720.9	706.6	692.5	669.7	649.7	619.6	601.9	582.6	538.2
20°	784.6	783.0	778.7	767.8	750.3	730.1	710.9	678.9	658.8	635.5	585.2
22.5°	845.8	844.9	840.8	828.1	814.0	801.4	777.0	741.0	721.8	693.2	634.6
25°	908.6	909.5	902.0	890.2	880.2	868.4	843.2	805.6	782.2	752.8	686.6
27.5°	976.5	973.3	968.3	957.4	948.9	935.6	909.5	870.9	848.3	816.5	742.7
30°	1039.5	1040.2	1029.4	1022.7	1016.8	1004.2	980.0	940.5	915.5	886.1	801.4
32.5°	1107.3	1103.9	1096.4	1089.7	1085.5	1072.1	1049.5	1015.2	990.0	953.1	860.8
35°	1166.9	1166.0	1157.6	1159.4	1148.5	1137.6	1120.7	1088.9	1063.0	1027.8	927.1
37.5°	1228.1	1226.4	1220.5	1222.2	1209.6	1201.3	1190.3	1162.6	1140.8	1104.8	996.0
40°	1286.0	1281.7	1277.5	1280.1	1270.8	1265.0	1259.1	1239.8	1217.2	1179.5	1063.8
42.5°	1332.8	1331.9	1329.5	1333.8	1324.6	1322.8	1326.2	1316.0	1296.0	1257.4	1132.6
45°	1373.1	1373.1	1376.5	1379.0	1370.5	1373.1	1389.9	1387.3	1371.4	1332.8	1203.8
47.5°	1404.9	1404.1	1412.5	1415.9	1411.6	1420.8	1448.5	1460.3	1446.9	1410.8	1269.9
50°	1423.4	1423.4	1438.5	1442.7	1443.4	1461.2	1499.7	1525.6	1516.3	1482.1	1332.8
52.5°	1428.5	1430.1	1451.0	1460.3	1463.6	1491.2	1544.0	1583.5	1580.2	1547.4	1389.9
55°	1420.0	1422.6	1450.3	1464.4	1474.5	1513.0	1579.3	1634.6	1632.1	1601.9	1436.7
57.5°	1396.5	1399.9	1435.1	1456.1	1474.5	1524.9	1605.4	1674.9	1678.3	1649.6	1477.1
60°	1359.7	1363.8	1406.7	1434.2	1462.8	1524.0	1618.7	1700.9	1708.3	1679.0	1503.9
62.5°	1308.6	1313.6	1363.0	1401.5	1440.2	1512.2	1619.6	1713.4	1723.5	1697.4	1516.3
63°	1295.1	1304.3	1355.5	1394.0	1434.2	1508.1	1618.7	1714.2	1725.1	1699.1	1517.2
65°	1243.2	1253.2	1311.9	1357.2	1405.8	1488.9	1607.0	1710.1	1723.5	1698.3	1513.0
67.5°	1170.2	1183.6	1245.7	1300.9	1363.0	1454.4	1580.9	1689.2	1704.3	1679.9	1494.6
70°	1087.3	1105.6	1171.1	1239.8	1308.6	1408.4	1540.8	1653.2	1667.3	1642.2	1457.8
72.5°	1003.3	1023.4	1094.8	1168.5	1245.7	1351.3	1484.5	1598.5	1612.0	1590.2	1406.7
75°	918.7	933.9	1007.5	1093.1	1176.9	1285.0	1422.6	1529.1	1544.0	1518.1	1342.8
77.5°	829.0	849.9	926.3	1012.6	1102.3	1217.2	1348.7	1449.3	1458.6	1432.5	1260.7
80°	741.0	764.5	839.0	932.1	1026.9	1137.6	1263.2	1361.3	1366.4	1338.7	1172.7
82.5°	663.8	685.6	762.0	851.8	947.3	1060.4	1175.3	1259.1	1262.5	1236.4	1081.4
85°	589.3	608.6	681.5	773.7	870.1	974.9	1084.8	1155.9	1160.3	1129.2	985.0
87.5°	522.3	537.4	607.8	700.0	793.8	897.0	988.3	1047.9	1048.7	1018.5	889.4
90°	464.5	473.6	542.3	632.9	721.8	814.0	899.5	951.5	944.7	912.9	790.5
92.5°	408.2	415.7	478.6	566.7	654.7	737.7	812.2	845.8	838.3	810.6	702.5
95°	362.9	366.2	424.2	507.2	586.0	664.7	728.4	752.8	745.2	715.9	615.2
97.5°	316.8	322.0	374.8	450.1	526.4	597.7	649.7	665.6	651.4	622.9	539.1
100°	282.4	284.1	328.6	400.7	472.8	534.9	576.0	586.0	570.9	544.9	469.5
102.5°	250.6	249.8	290.1	357.0	421.7	473.6	508.8	508.0	492.0	469.5	407.4
105°	223.0	222.2	253.1	315.1	373.1	419.1	445.1	441.7	425.8	404.1	354.7
107.5°	197.0	198.6	221.3	275.8	327.7	368.8	388.1	380.6	366.2	346.1	307.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	177.8	177.8	195.3	242.3	290.1	323.6	338.8	327.7	314.3	294.3	265.7
112.5°	160.1	160.1	172.7	211.2	254.8	285.0	295.1	280.8	264.9	251.4	230.5
115°	144.2	144.2	152.5	183.6	222.2	247.4	253.1	238.1	224.7	214.5	201.2
117.5°	130.8	130.8	135.9	157.7	192.0	215.5	218.7	201.9	192.7	182.7	175.2
120°	118.1	119.0	120.7	134.9	163.4	183.6	185.3	169.3	161.8	156.8	152.5
122.5°	107.3	107.3	108.2	116.5	139.1	155.9	155.9	142.6	137.5	135.9	132.4
125°	97.2	97.2	97.2	100.6	115.7	129.0	127.4	119.0	116.5	116.5	114.9
127.5°	88.0	87.1	86.3	87.1	94.7	103.9	103.9	98.1	98.1	99.0	99.7
130°	78.8	78.0	76.3	74.6	75.5	82.1	81.2	79.6	81.2	83.8	85.5
132.5°	69.6	69.6	67.1	62.9	60.4	62.1	62.9	63.7	66.3	69.6	72.1
135°	60.4	60.4	57.9	52.0	46.9	46.2	45.3	49.4	53.7	57.0	59.5
137.5°	51.2	51.2	48.6	42.0	35.3	31.9	31.0	37.6	42.0	45.3	47.8
140°	42.8	42.0	39.3	32.7	25.2	20.1	20.1	26.8	31.0	34.3	37.6
142.5°	33.5	33.5	31.0	25.2	16.8	11.8	12.5	18.4	21.7	24.3	26.8
145°	25.2	25.2	22.6	16.8	10.1	5.8	6.6	11.8	14.3	16.8	19.3
147.5°	17.5	17.5	15.1	10.9	5.0	1.6	3.4	6.6	8.4	10.1	11.8
150°	10.9	10.9	9.3	5.8	2.5	0.0	0.9	3.4	4.2	5.0	6.6
152.5°	5.8	5.8	4.2	2.5	0.9	0.0	0.0	0.9	1.6	2.5	3.4
155°	2.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9
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°	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8
2.5°	382.3	378.8	371.4	364.6	358.8	352.9	347.9	343.7	342.9	340.4	341.1
5°	388.1	381.4	367.1	354.7	341.1	330.2	322.0	314.3	308.5	306.0	305.2
7.5°	399.8	389.0	367.1	347.0	328.6	311.8	297.6	286.6	280.0	275.8	276.6
10°	416.6	402.4	373.1	345.4	319.3	296.7	278.4	264.9	254.8	250.6	250.6
12.5°	438.5	421.7	383.9	347.9	315.1	286.6	263.3	246.4	237.2	231.4	231.4
15°	473.6	449.3	402.4	356.3	315.1	280.8	254.8	236.4	228.0	223.8	223.0
17.5°	511.3	484.5	428.3	373.1	322.8	280.0	254.0	238.1	228.0	223.0	223.0
20°	552.4	520.6	456.0	392.3	335.2	290.1	260.7	241.5	228.9	222.2	221.3
22.5°	596.8	561.6	485.4	412.4	350.3	306.9	269.1	243.9	228.9	222.2	221.3
25°	646.3	603.5	515.5	435.0	370.6	322.0	279.2	247.4	228.9	220.4	219.6
27.5°	696.5	648.8	549.0	456.9	391.5	336.1	288.4	249.8	228.9	219.6	218.7
30°	751.2	694.1	581.7	482.0	410.7	348.7	295.9	252.3	228.9	218.7	218.0
32.5°	804.7	743.5	617.0	510.4	429.2	358.8	302.5	257.4	229.6	218.0	216.3
35°	864.3	796.3	654.7	539.1	446.0	367.9	308.5	260.7	228.9	216.3	215.5
37.5°	926.3	848.3	689.1	564.1	459.4	374.8	311.8	263.3	228.9	215.5	213.7
40°	988.3	901.1	725.9	589.3	472.0	380.6	315.1	265.7	228.0	213.7	212.1
42.5°	1048.7	953.1	762.0	610.3	482.0	384.7	316.8	267.4	228.0	212.1	210.5
45°	1110.8	1005.9	799.8	630.4	489.5	386.5	316.8	267.4	228.9	210.5	208.8
47.5°	1170.2	1055.4	834.0	646.3	495.4	387.3	316.8	267.4	228.9	208.8	206.3
50°	1223.0	1100.7	862.6	659.7	498.7	387.3	316.1	267.4	228.9	206.3	203.6
52.5°	1274.2	1140.0	889.4	669.0	500.4	385.6	314.3	265.7	228.9	203.6	201.2
55°	1315.3	1175.3	907.8	674.7	498.7	383.0	311.1	264.0	228.0	201.2	197.8
57.5°	1347.9	1200.5	922.1	676.5	495.4	378.8	307.7	261.5	226.4	197.8	195.3
60°	1368.8	1214.7	926.3	673.1	490.4	373.1	303.4	259.0	223.8	194.5	191.1
62.5°	1376.5	1219.7	924.6	666.5	482.8	367.1	299.2	255.7	221.3	190.4	186.9
63°	1376.5	1218.8	923.7	664.7	480.4	365.5	298.4	254.8	220.4	189.5	186.0
65°	1371.4	1212.2	915.5	654.7	472.8	359.6	294.3	251.4	218.7	186.9	182.7
67.5°	1350.4	1194.6	896.1	639.7	460.2	351.2	287.5	246.4	214.5	182.7	178.6
70°	1316.9	1164.4	870.1	619.6	446.7	342.1	280.8	241.5	210.5	178.6	173.6
72.5°	1267.5	1122.4	837.4	596.0	430.8	332.0	273.3	235.5	204.5	173.6	167.7
75°	1206.2	1071.3	798.9	569.2	414.9	320.2	265.7	228.9	198.6	168.5	160.9
77.5°	1134.2	1011.9	754.4	541.5	396.5	308.5	256.6	221.3	192.7	163.4	154.2
80°	1053.7	941.3	706.6	510.4	377.2	295.9	247.4	213.7	184.4	156.8	147.5
82.5°	973.3	870.9	656.4	478.6	358.0	283.3	237.2	205.4	176.8	150.0	140.9
85°	886.1	797.2	607.0	446.0	337.9	269.1	227.2	196.2	169.3	143.3	133.3
87.5°	802.2	722.5	552.4	414.1	318.5	256.6	217.1	186.9	160.1	134.9	127.4
90°	720.9	651.4	505.4	381.4	297.6	242.3	206.3	176.8	150.8	126.7	120.7
92.5°	642.1	579.2	454.4	351.2	278.4	228.9	194.5	166.8	141.7	119.0	114.1
95°	568.4	516.3	411.7	321.1	259.9	215.5	183.6	157.7	131.6	109.9	106.4
97.5°	498.7	456.9	369.7	295.1	239.8	201.9	171.8	146.8	121.5	101.4	99.7
100°	440.1	404.1	330.2	268.2	222.2	188.6	160.9	135.9	111.5	93.1	93.1
102.5°	384.7	352.9	293.3	243.1	204.5	174.5	148.4	125.0	101.4	85.5	85.5
105°	336.1	310.2	262.3	220.4	187.7	160.9	136.6	114.1	90.5	78.0	78.0
107.5°	291.7	271.6	233.0	199.6	170.9	146.8	125.0	102.2	79.6	70.3	71.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	255.7	239.8	207.1	178.6	155.0	134.9	114.1	91.4	69.6	63.7	63.7
112.5°	221.3	208.8	182.7	160.9	140.9	122.3	102.2	80.5	61.2	57.9	57.9
115°	193.7	183.6	161.8	143.3	126.7	109.9	90.5	69.6	52.8	51.2	52.0
117.5°	169.3	160.9	144.2	129.0	114.1	98.1	80.5	59.5	46.2	46.2	46.2
120°	147.5	141.7	126.7	114.1	101.4	86.3	69.6	50.2	40.2	40.2	41.1
122.5°	130.0	124.1	113.1	100.6	88.8	75.5	59.5	42.0	35.3	36.0	36.9
125°	112.3	109.0	99.0	88.0	77.2	63.7	49.4	34.3	31.0	31.9	32.7
127.5°	98.1	95.6	85.5	76.3	66.3	53.7	40.2	27.7	26.1	27.7	28.4
130°	83.8	82.1	74.6	65.3	55.3	44.5	31.9	22.6	22.6	24.3	24.3
132.5°	71.2	69.6	62.9	53.7	45.3	34.3	24.3	18.4	19.3	21.0	21.0
135°	59.5	57.9	52.0	44.5	35.3	26.1	18.4	15.1	16.8	17.5	17.5
137.5°	48.6	46.9	42.0	34.3	26.1	18.4	13.5	11.8	13.5	15.1	15.1
140°	36.9	36.9	32.7	26.1	18.4	12.5	9.3	9.3	10.9	11.8	11.8
142.5°	27.7	26.8	24.3	18.4	11.8	7.5	5.8	6.6	8.4	9.3	9.3
145°	19.3	18.4	16.8	12.5	6.6	4.2	3.4	5.0	5.8	6.6	6.6
147.5°	12.5	11.8	10.9	7.5	3.4	1.6	1.6	3.4	4.2	5.0	5.0
150°	6.6	6.6	5.8	3.4	1.6	0.0	0.9	1.6	2.5	2.5	2.5
152.5°	3.4	3.4	2.5	1.6	0.9	0.0	0.0	0.0	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.9	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	0.9	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)