

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: P266538

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266538
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-AF24-100-D-U-SL3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 6168.6 lumens
Efficiency: N/A
Efficacy: 64.3 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 - G4

Input Watts (W): 96
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

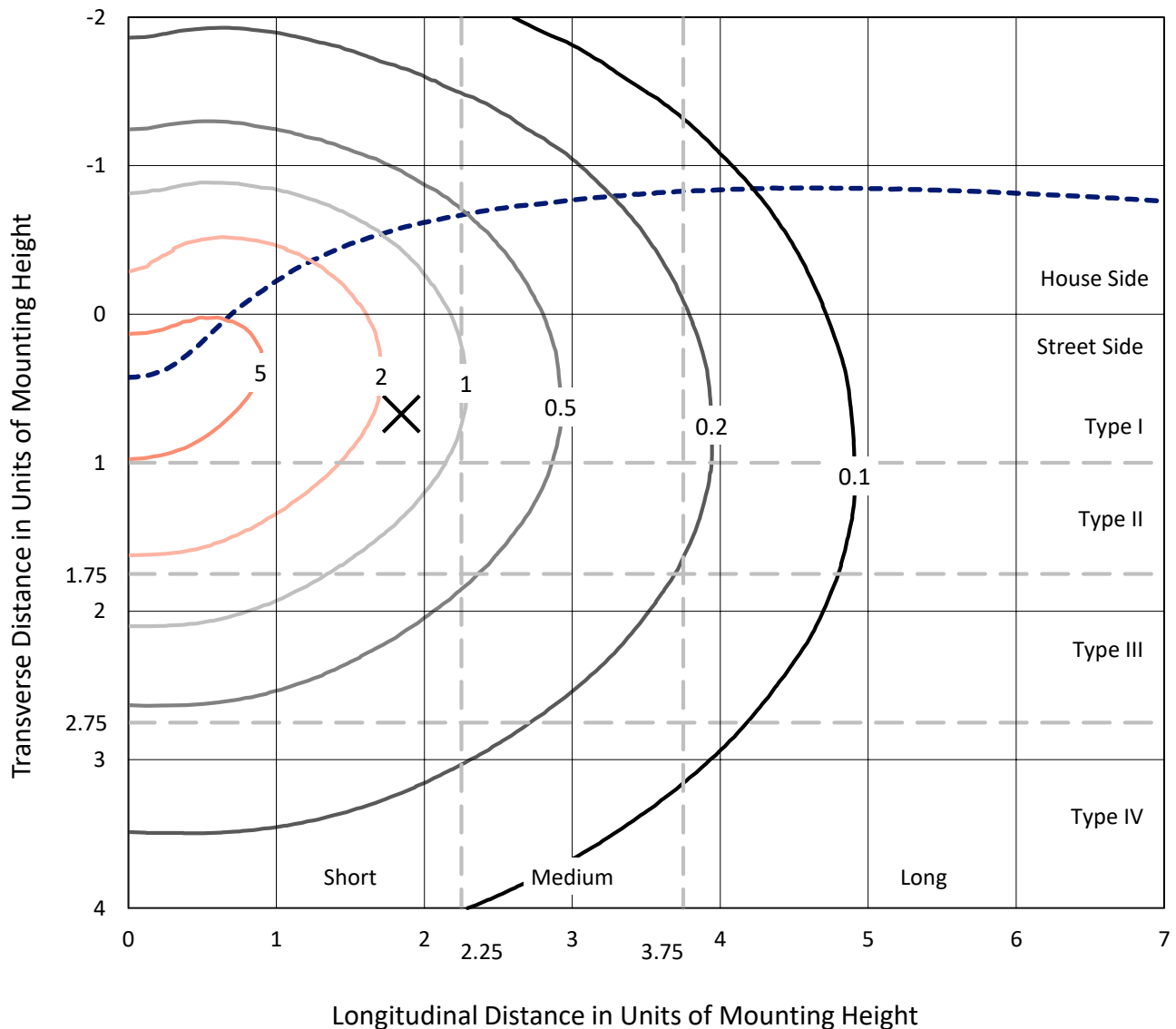


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

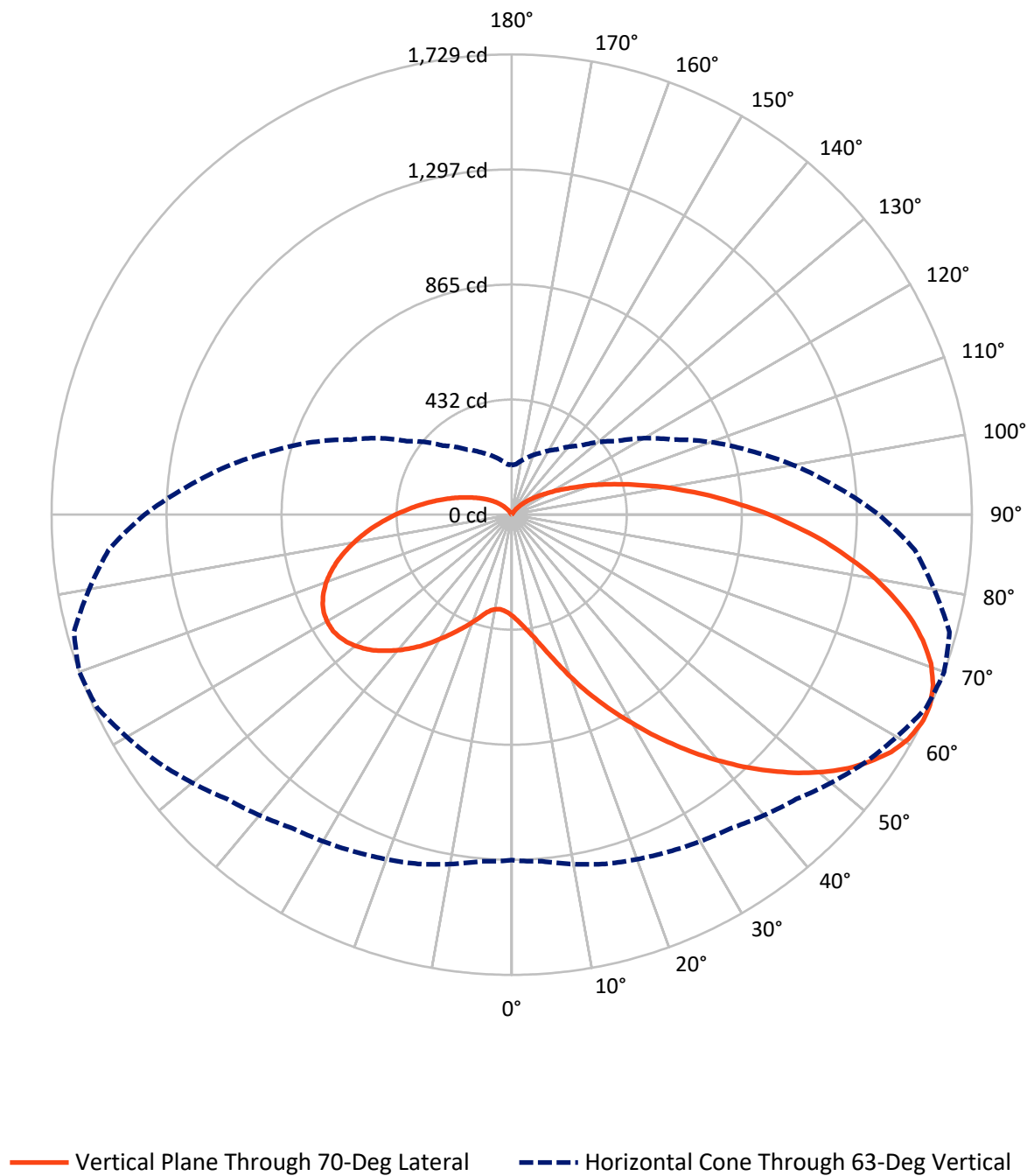


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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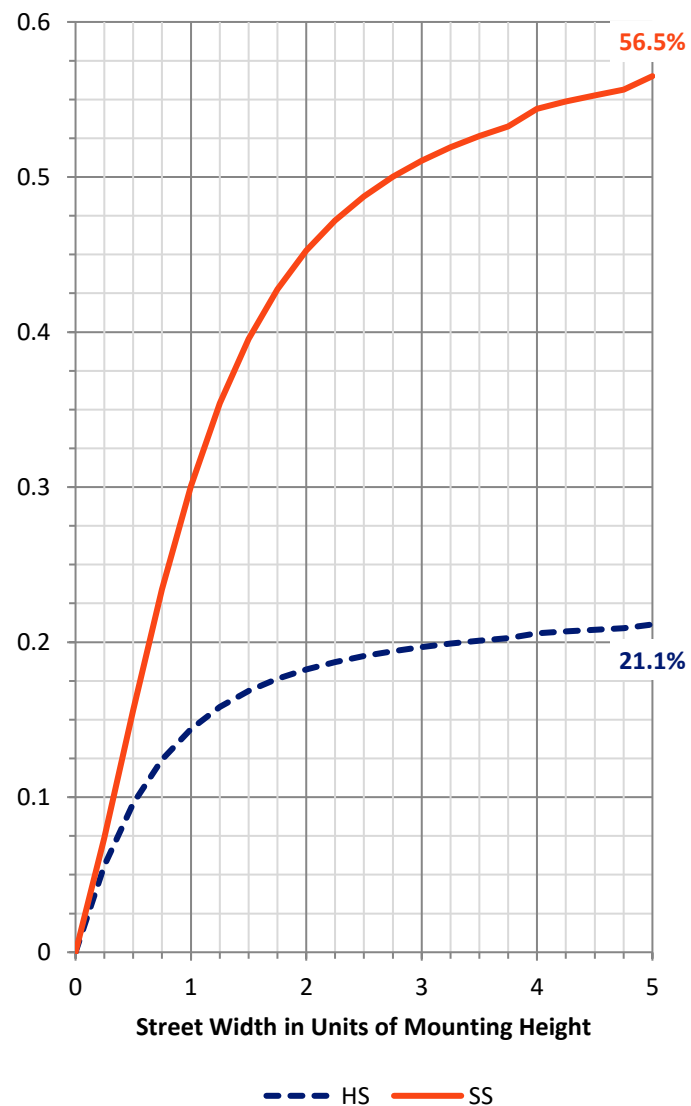
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1385.5	335.3	1720.7
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	3745.0	702.9	4447.9
	% Fixture	60.7	11.4	72.1
Total	Lumens	5130.5	1038.1	6168.6
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	0.6
10°-20°	131.8	2.1
20°-30°	280.0	4.5
30°-40°	482.7	7.8
40°-50°	712.2	11.5
50°-60°	906.4	14.7
60°-70°	983.9	15.9
70°-80°	899.7	14.6
80°-90°	696.0	11.3
90°-100°	469.0	7.6
100°-110°	285.3	4.6
110°-120°	159.8	2.6
120°-130°	81.4	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°	5130.5	83.2
0°-180°	6168.6	100.0

Coefficient of Utilization



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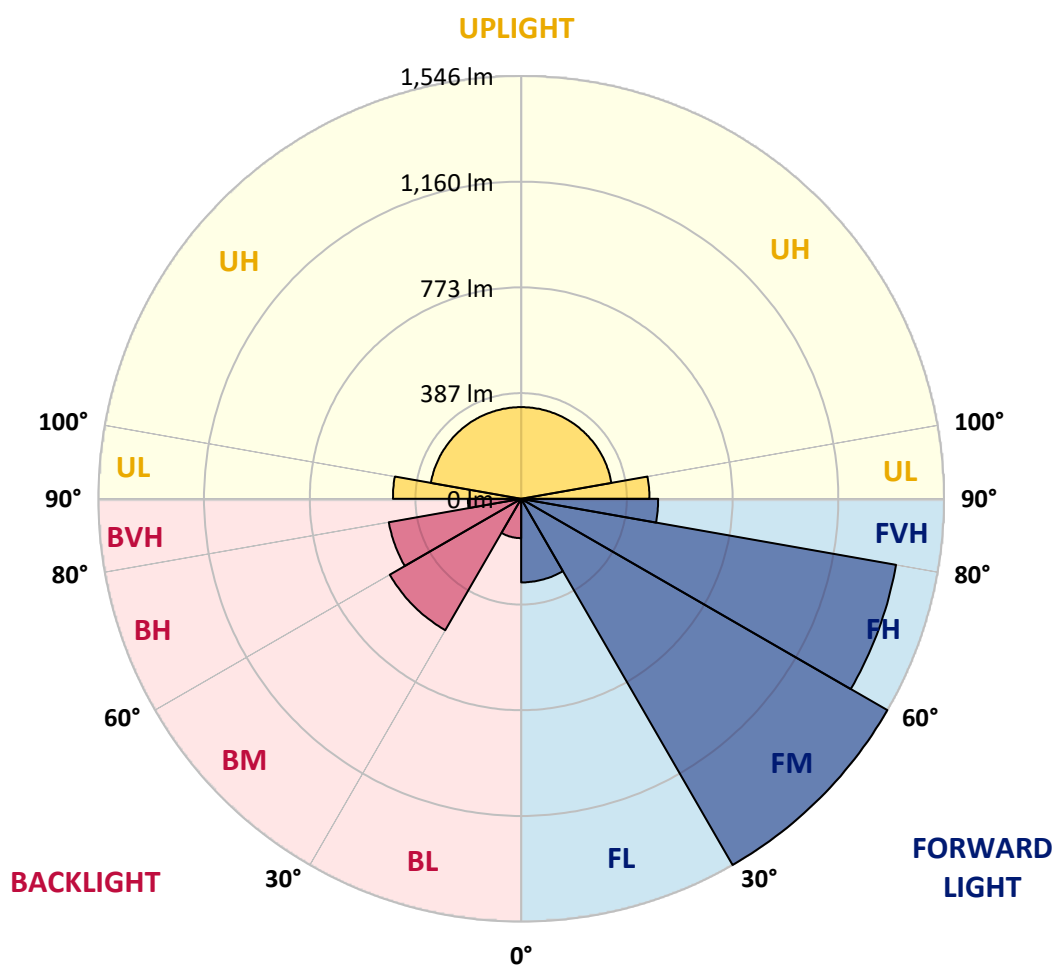
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.6	5.0			
FM	(30°-60°)	1546.3	25.1			
FH	(60°-80°)	1392.0	22.6			G1/1800
FVH	(80°-90°)	501.1	8.1			G4/750
BL	(0°-30°)	143.9	2.3	B1/500		
BM	(30°-60°)	555.0	9.0	B1/1000		
BH	(60°-80°)	491.6	8.0	B1/500		G1/500
BVH	(80°-90°)	195.0	3.2			G2/225
UL	(90°-100°)	469.0	7.6		U3/500	
UH	(100°-180°)	335.3	5.4		U3/500	

BUG Rating: B1-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6
2.5°	424.3	423.5	422.7	418.4	416.8	410.9	405.8	399.9	396.5	393.2	386.5
5°	468.7	467.1	464.7	460.4	452.8	444.4	434.3	422.7	416.8	409.9	396.5
7.5°	512.6	511.7	510.7	502.4	494.8	481.4	467.1	450.3	442.0	430.9	410.9
10°	560.4	562.1	556.9	549.5	536.8	522.5	504.0	481.4	470.5	458.8	431.8
12.5°	615.0	614.1	609.9	597.4	583.9	568.0	545.2	520.8	508.4	492.4	457.9
15°	670.5	667.1	662.1	653.6	636.8	618.4	594.0	566.2	552.0	534.3	495.7
17.5°	728.3	725.9	722.5	708.3	694.0	671.3	651.1	620.9	603.2	583.9	539.3
20°	786.3	784.7	780.4	769.6	751.9	731.8	712.4	680.6	660.3	636.8	586.5
22.5°	847.7	846.8	842.7	830.0	815.8	803.2	778.8	742.7	723.3	694.7	636.0
25°	910.7	911.6	904.0	892.2	882.1	870.4	845.1	807.3	783.9	754.4	688.1
27.5°	978.8	975.4	970.3	959.4	951.0	937.7	911.6	873.0	850.2	818.3	744.3
30°	1041.8	1042.7	1031.8	1025.0	1019.0	1006.6	982.1	942.6	917.3	888.1	803.2
32.5°	1109.9	1106.4	1098.8	1092.2	1087.9	1074.6	1051.8	1017.4	992.2	955.3	862.8
35°	1169.5	1168.7	1160.3	1161.9	1151.0	1140.0	1123.3	1091.4	1065.3	1029.9	929.1
37.5°	1230.8	1229.2	1223.2	1224.8	1212.4	1203.9	1192.9	1165.3	1143.5	1107.3	998.0
40°	1288.8	1284.5	1280.4	1282.9	1273.6	1267.8	1261.8	1242.5	1219.9	1182.1	1066.2
42.5°	1335.8	1335.1	1332.5	1336.7	1327.4	1325.8	1329.1	1319.0	1298.9	1260.2	1135.0
45°	1376.2	1376.2	1379.4	1382.0	1373.7	1376.2	1392.9	1390.4	1374.4	1335.8	1206.5
47.5°	1408.1	1407.3	1415.6	1419.1	1414.8	1424.1	1451.8	1463.5	1450.0	1413.9	1272.8
50°	1426.6	1426.6	1441.7	1445.9	1446.7	1464.3	1503.0	1529.1	1519.8	1485.3	1335.8
52.5°	1431.5	1433.2	1454.3	1463.5	1466.9	1494.6	1547.5	1587.0	1583.6	1551.0	1392.9
55°	1423.3	1425.7	1453.5	1467.7	1477.8	1516.5	1582.9	1638.2	1635.8	1605.5	1440.1
57.5°	1399.6	1403.1	1438.4	1459.3	1477.8	1528.2	1608.9	1678.7	1681.9	1653.4	1480.3
60°	1362.6	1367.0	1409.8	1437.5	1466.0	1527.4	1622.2	1704.7	1712.2	1682.9	1507.3
62.5°	1311.4	1316.5	1366.1	1404.7	1443.3	1515.6	1623.1	1717.3	1727.4	1701.3	1519.8
63°	1298.1	1307.3	1358.4	1397.1	1437.5	1511.4	1622.2	1718.1	1729.0	1702.9	1520.7
65°	1245.9	1256.0	1314.8	1360.3	1408.9	1492.1	1610.5	1713.8	1727.4	1702.1	1516.5
67.5°	1172.8	1186.3	1248.5	1303.9	1366.1	1457.6	1584.5	1692.9	1707.9	1683.7	1498.0
70°	1089.6	1108.1	1173.6	1242.5	1311.4	1411.4	1544.1	1656.7	1671.0	1645.9	1461.1
72.5°	1005.7	1025.9	1097.2	1171.2	1248.5	1354.4	1488.0	1602.1	1615.6	1593.8	1409.8
75°	920.9	935.9	1009.9	1095.6	1179.6	1287.9	1425.7	1532.4	1547.5	1521.5	1345.9
77.5°	830.9	852.0	928.4	1014.8	1104.7	1219.9	1351.8	1452.6	1461.8	1435.9	1263.6
80°	742.7	766.3	841.1	934.2	1029.2	1140.0	1266.2	1364.3	1369.5	1341.7	1175.3
82.5°	665.4	687.3	763.6	853.6	949.4	1062.8	1177.9	1261.8	1265.3	1239.2	1083.7
85°	590.6	609.9	683.0	775.4	872.1	977.0	1087.2	1158.5	1162.8	1131.7	987.1
87.5°	523.4	538.5	609.1	701.5	795.5	898.9	990.6	1050.2	1050.9	1020.7	891.4
90°	465.4	474.7	543.6	634.4	723.3	815.8	901.4	953.6	946.9	915.0	792.2
92.5°	409.2	416.8	479.8	568.0	656.1	739.3	814.1	847.7	840.2	812.3	704.0
95°	363.8	367.1	425.1	508.4	587.2	666.3	730.1	754.4	746.9	717.4	616.6
97.5°	317.6	322.6	375.5	451.2	527.7	599.0	651.1	667.1	652.8	624.2	540.2
100°	283.1	284.9	329.3	401.6	473.9	536.0	577.3	587.2	572.1	546.1	470.5
102.5°	251.2	250.4	290.7	358.0	422.7	474.7	510.0	509.1	493.2	470.5	408.3
105°	223.5	222.6	253.7	315.9	373.9	420.0	446.1	442.8	426.8	405.0	355.4
107.5°	197.4	199.2	221.8	276.4	328.5	369.7	389.0	381.4	367.1	346.9	308.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	178.1	178.1	195.7	242.8	290.7	324.3	339.4	328.5	315.0	295.0	266.3
112.5°	160.4	160.4	173.1	211.7	255.4	285.7	295.7	281.4	265.4	252.1	231.0
115°	144.4	144.4	152.9	184.1	222.6	247.8	253.7	238.6	225.1	215.1	201.6
117.5°	131.1	131.1	136.2	157.9	192.3	216.0	219.2	202.5	193.2	183.2	175.6
120°	118.4	119.4	121.0	135.3	163.9	184.1	185.7	169.7	162.1	157.2	152.9
122.5°	107.5	107.5	108.3	116.8	139.4	156.2	156.2	142.8	137.8	136.2	132.7
125°	97.5	97.5	97.5	100.8	115.9	129.4	127.6	119.4	116.8	116.8	115.2
127.5°	88.3	87.3	86.5	87.3	95.0	104.2	104.2	98.4	98.4	99.2	100.0
130°	79.1	78.2	76.4	74.7	75.5	82.4	81.4	79.8	81.4	84.0	85.7
132.5°	69.7	69.7	67.3	63.1	60.5	62.2	63.1	63.9	66.4	69.7	72.3
135°	60.5	60.5	58.0	52.1	47.0	46.3	45.4	49.5	53.8	57.1	59.6
137.5°	51.3	51.3	48.7	42.0	35.4	31.9	31.1	37.8	42.0	45.4	47.9
140°	42.8	42.0	39.4	32.8	25.2	20.1	20.1	26.9	31.1	34.5	37.8
142.5°	33.5	33.5	31.1	25.2	16.8	11.8	12.5	18.4	21.9	24.3	26.9
145°	25.2	25.2	22.6	16.8	10.2	5.8	6.6	11.8	14.4	16.8	19.4
147.5°	17.6	17.6	15.1	10.9	5.0	1.6	3.4	6.6	8.4	10.2	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°	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6
2.5°	383.0	379.8	372.2	365.5	359.6	353.8	348.6	344.5	343.6	341.0	342.0
5°	389.0	382.3	367.9	355.4	342.0	331.0	322.6	315.0	309.1	306.6	305.9
7.5°	400.7	389.9	367.9	347.9	329.3	312.5	298.2	287.3	280.6	276.4	277.2
10°	417.5	403.2	373.9	346.1	320.1	297.3	279.0	265.4	255.4	251.2	251.2
12.5°	439.5	422.7	384.7	348.6	315.9	287.3	263.8	247.0	237.7	231.9	231.9
15°	474.7	450.3	403.2	357.0	315.9	281.4	255.4	237.0	228.4	224.3	223.5
17.5°	512.6	485.7	429.3	373.9	323.5	280.6	254.6	238.6	228.4	223.5	223.5
20°	553.6	521.7	457.1	393.2	336.1	290.7	261.2	242.0	229.3	222.6	221.8
22.5°	598.2	562.9	486.4	413.3	351.1	307.5	269.8	244.5	229.3	222.6	221.8
25°	647.8	604.9	516.6	436.0	371.3	322.6	279.7	247.8	229.3	221.0	220.2
27.5°	698.2	650.3	550.3	457.9	392.3	337.0	289.1	250.4	229.3	220.2	219.2
30°	752.8	695.6	583.1	483.1	411.7	349.5	296.6	253.0	229.3	219.2	218.5
32.5°	806.6	745.2	618.4	511.7	430.2	359.6	303.3	258.0	230.1	218.5	216.8
35°	866.1	798.1	656.1	540.2	446.9	368.8	309.1	261.2	229.3	216.8	216.0
37.5°	928.4	850.2	690.5	565.5	460.4	375.5	312.5	263.8	229.3	216.0	214.2
40°	990.6	903.2	727.5	590.6	473.0	381.4	315.9	266.3	228.4	214.2	212.5
42.5°	1050.9	955.3	763.6	611.7	483.1	385.6	317.6	268.1	228.4	212.5	210.9
45°	1113.2	1008.2	801.5	631.8	490.7	387.3	317.6	268.1	229.3	210.9	209.1
47.5°	1172.8	1057.8	836.0	647.8	496.6	388.2	317.6	268.1	229.3	209.1	206.7
50°	1225.7	1103.1	864.4	661.2	499.8	388.2	316.7	268.1	229.3	206.7	204.2
52.5°	1277.0	1142.6	891.4	670.5	501.6	386.5	315.0	266.3	229.3	204.2	201.6
55°	1318.3	1177.9	909.9	676.3	499.8	383.9	311.7	264.6	228.4	201.6	198.3
57.5°	1351.0	1203.1	924.1	678.0	496.6	379.8	308.3	262.1	226.8	198.3	195.7
60°	1371.9	1217.4	928.4	674.6	491.6	373.9	304.2	259.6	224.3	194.9	191.6
62.5°	1379.4	1222.5	926.7	667.9	483.9	367.9	299.9	256.2	221.8	190.7	187.3
63°	1379.4	1221.5	925.9	666.3	481.4	366.2	299.0	255.4	221.0	189.9	186.5
65°	1374.4	1214.9	917.3	656.1	473.9	360.4	295.0	252.1	219.2	187.3	183.2
67.5°	1353.4	1197.3	898.1	641.0	461.2	352.0	288.1	247.0	215.1	183.2	178.9
70°	1319.9	1167.0	872.1	620.9	447.7	342.8	281.4	242.0	210.9	178.9	173.9
72.5°	1270.4	1124.9	839.2	597.4	431.8	332.7	274.0	236.1	205.1	173.9	168.1
75°	1208.9	1073.7	800.7	570.5	415.8	321.0	266.3	229.3	199.2	168.9	161.3
77.5°	1136.7	1014.0	756.2	542.8	397.4	309.1	257.1	221.8	193.2	163.9	154.6
80°	1056.0	943.5	708.3	511.7	378.0	296.6	247.8	214.2	184.8	157.2	148.0
82.5°	975.4	873.0	657.7	479.8	358.8	284.0	237.7	205.8	177.2	150.3	141.2
85°	888.1	799.0	608.2	446.9	338.7	269.8	227.7	196.5	169.7	143.6	133.6
87.5°	804.1	724.3	553.6	415.0	319.3	257.1	217.6	187.3	160.4	135.3	127.6
90°	722.5	652.8	506.6	382.3	298.2	242.8	206.7	177.2	151.3	126.9	121.0
92.5°	643.5	580.6	455.4	352.0	279.0	229.3	194.9	167.2	142.0	119.4	114.3
95°	569.6	517.6	412.5	321.8	260.5	216.0	184.1	157.9	132.0	110.0	106.7
97.5°	499.8	457.9	370.6	295.7	240.2	202.5	172.2	147.1	121.8	101.7	100.0
100°	441.1	405.0	331.0	268.9	222.6	189.1	161.3	136.2	111.7	93.2	93.2
102.5°	385.6	353.8	294.0	243.6	205.1	174.7	148.7	125.1	101.7	85.7	85.7
105°	337.0	310.9	262.9	221.0	188.1	161.3	136.9	114.3	90.6	78.2	78.2
107.5°	292.4	272.1	233.6	200.0	171.3	147.1	125.1	102.4	79.8	70.5	71.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	256.2	240.2	207.5	178.9	155.4	135.3	114.3	91.5	69.7	63.9	63.9
112.5°	221.8	209.1	183.2	161.3	141.2	122.7	102.4	80.7	61.4	58.0	58.0
115°	194.0	184.1	162.1	143.6	126.9	110.0	90.6	69.7	52.9	51.3	52.1
117.5°	169.7	161.3	144.4	129.4	114.3	98.4	80.7	59.6	46.3	46.3	46.3
120°	148.0	142.0	126.9	114.3	101.7	86.5	69.7	50.5	40.3	40.3	41.1
122.5°	130.3	124.3	113.5	100.8	89.0	75.5	59.6	42.0	35.4	36.1	37.0
125°	112.6	109.2	99.2	88.3	77.3	63.9	49.5	34.5	31.1	31.9	32.8
127.5°	98.4	95.8	85.7	76.4	66.4	53.8	40.3	27.7	26.1	27.7	28.6
130°	84.0	82.4	74.7	65.5	55.4	44.6	31.9	22.6	22.6	24.3	24.3
132.5°	71.4	69.7	63.1	53.8	45.4	34.5	24.3	18.4	19.4	21.0	21.0
135°	59.6	58.0	52.1	44.6	35.4	26.1	18.4	15.1	16.8	17.6	17.6
137.5°	48.7	47.0	42.0	34.5	26.1	18.4	13.5	11.8	13.5	15.1	15.1
140°	37.0	37.0	32.8	26.1	18.4	12.5	9.3	9.3	10.9	11.8	11.8
142.5°	27.7	26.9	24.3	18.4	11.8	7.5	5.8	6.6	8.4	9.3	9.3
145°	19.4	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)