

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: P266491

Luminaire Tested: **UTLD-AF24-80-D-U-T4W-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266491
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-AF24-80-D-U-T4W-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 5857.5 lumens
Efficiency: N/A
Efficacy: 70.6 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: B2 - U4 - G3

Input Watts (W): 83
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



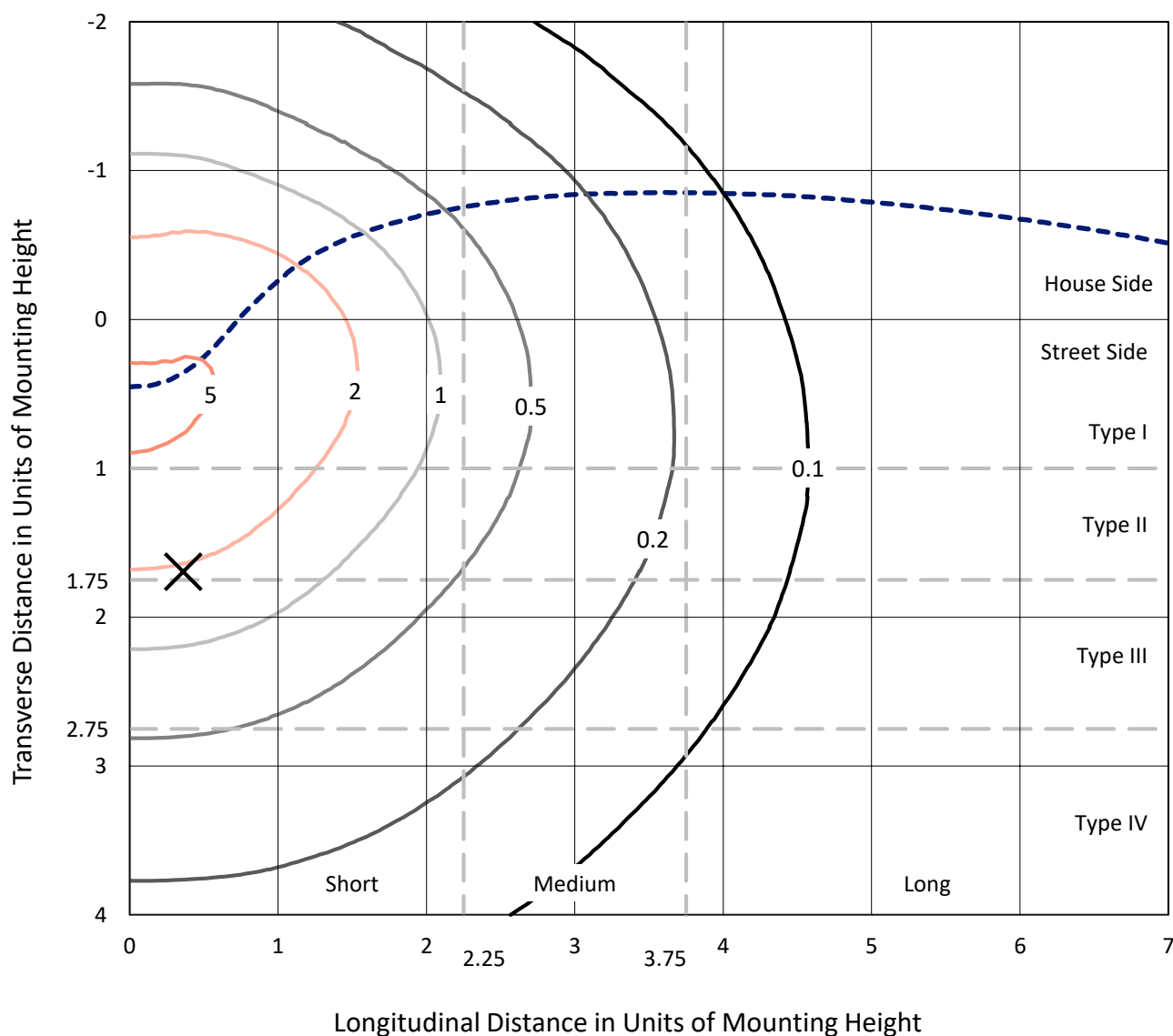
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

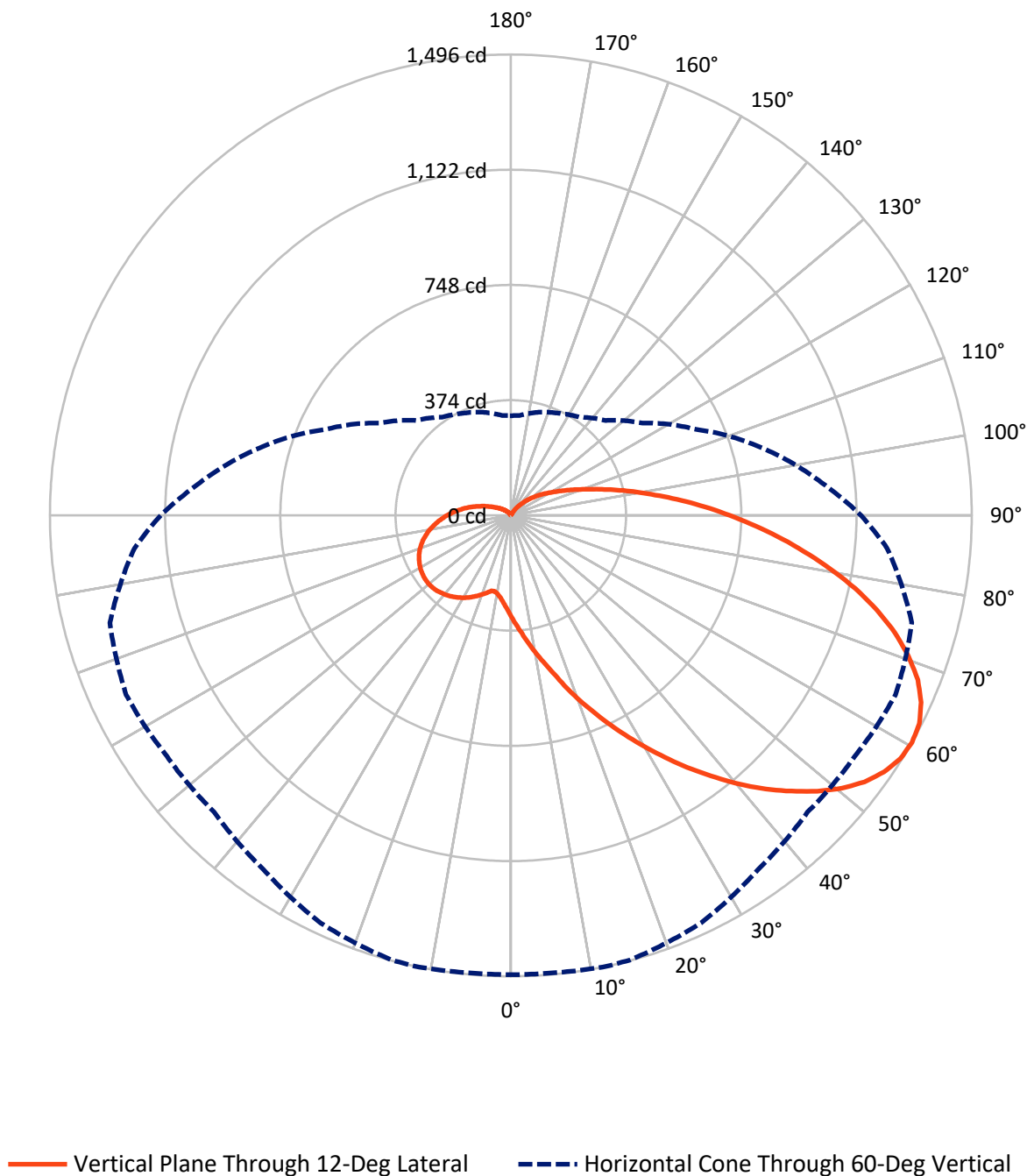


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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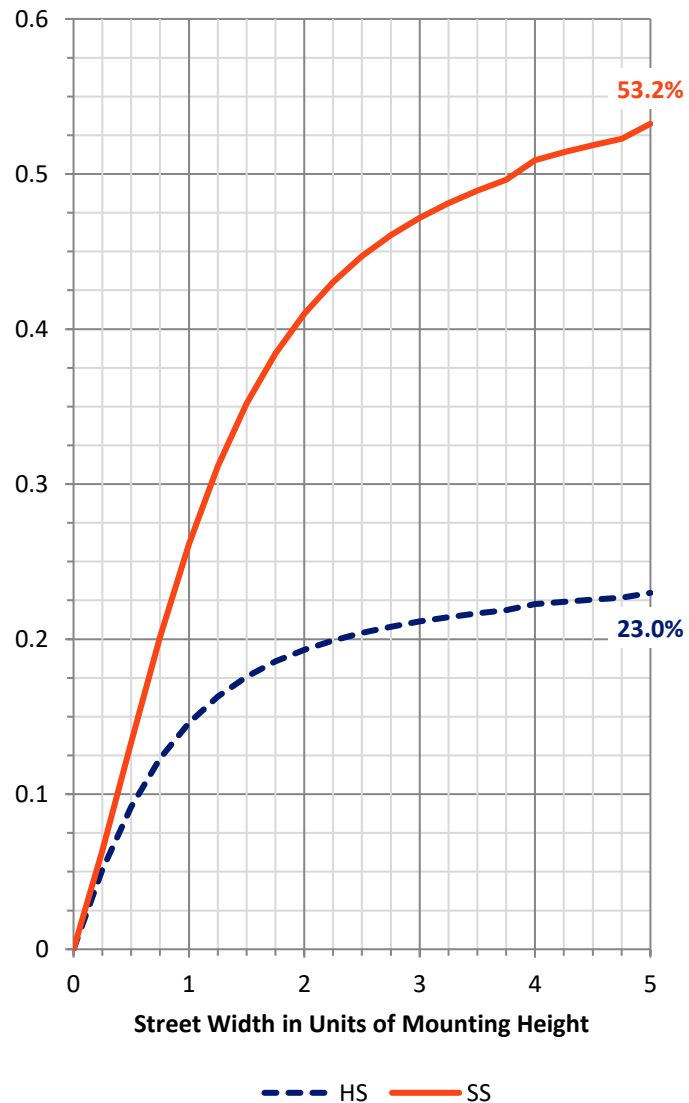
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1440.1	331.6	1771.8
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	3398.5	687.3	4085.7
	% Fixture	58.0	11.7	69.8
Total	Lumens	4838.6	1018.9	5857.5
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	0.6
10°-20°	114.9	2.0
20°-30°	246.4	4.2
30°-40°	431.3	7.4
40°-50°	649.5	11.1
50°-60°	848.0	14.5
60°-70°	944.4	16.1
70°-80°	881.6	15.1
80°-90°	689.7	11.8
90°-100°	466.1	8.0
100°-110°	281.7	4.8
110°-120°	155.2	2.6
120°-130°	77.2	1.3
130°-140°	30.9	0.5
140°-150°	7.4	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4838.6	82.6
0°-180°	5857.5	100.0

Coefficient of Utilization



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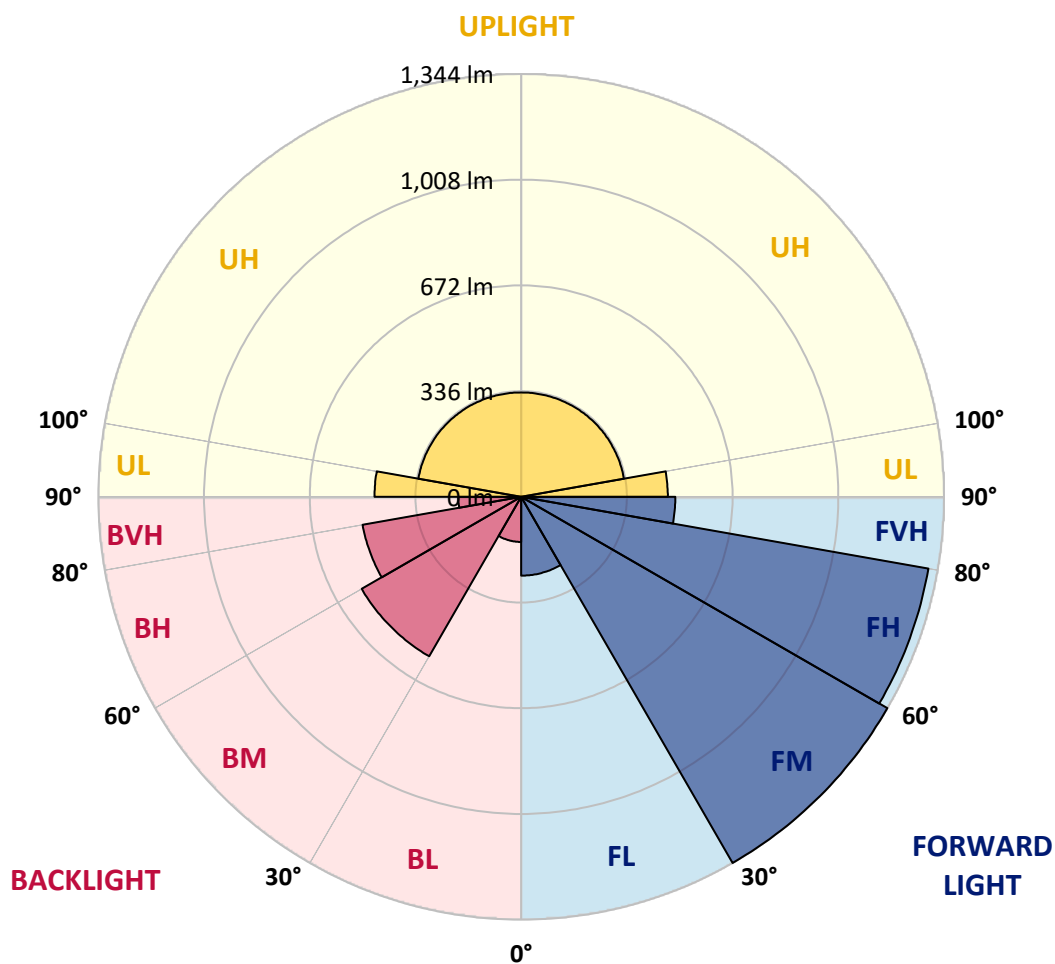
CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.5	4.3			
FM	(30°-60°)	1343.8	22.9			
FH	(60°-80°)	1314.3	22.4			G1/1800
FVH	(80°-90°)	489.8	8.4			G3/500
BL	(0°-30°)	143.5	2.4	B1/500		
BM	(30°-60°)	585.0	10.0	B1/1000		
BH	(60°-80°)	511.7	8.7	B2/1000		G2/1000
BVH	(80°-90°)	199.9	3.4			G2/225
UL	(90°-100°)	466.1	8.0		U3/500	
UH	(100°-180°)	331.6	5.7		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2
2.5°	359.0	357.3	357.3	355.8	355.8	352.8	350.3	346.6	342.7	338.0	334.1
5°	387.6	387.6	386.0	386.0	382.9	377.5	372.1	365.2	358.2	350.3	341.0
7.5°	421.8	420.9	420.9	418.6	414.7	407.0	399.2	389.1	378.2	365.2	352.8
10°	456.6	455.8	455.8	453.5	448.9	439.5	428.0	416.3	402.4	385.3	368.2
12.5°	498.5	495.3	493.8	493.0	485.3	476.7	462.0	448.1	429.5	410.0	389.1
15°	542.7	541.9	537.1	534.9	527.1	514.0	499.9	483.0	464.3	442.7	417.1
17.5°	592.3	592.3	589.2	586.1	577.5	559.7	541.9	525.6	507.0	480.7	451.9
20°	645.7	645.7	641.8	637.2	626.4	610.8	593.1	573.7	551.2	522.5	487.6
22.5°	702.4	700.8	695.4	692.2	679.1	662.1	648.0	625.6	599.2	566.7	526.3
25°	762.0	759.6	754.2	751.2	735.6	722.4	706.2	679.8	649.7	612.5	567.4
27.5°	824.9	818.6	814.8	810.1	795.4	782.2	759.6	735.0	700.0	661.2	611.7
30°	885.3	882.9	878.4	872.1	858.9	843.4	818.6	791.4	757.5	714.7	659.6
32.5°	954.3	951.9	944.2	938.0	920.9	904.7	879.1	850.3	814.0	768.9	709.3
35°	1023.3	1020.1	1011.6	1004.7	990.7	966.7	936.5	909.4	872.9	827.1	762.8
37.5°	1094.6	1088.3	1079.0	1074.5	1057.3	1027.9	996.1	966.7	933.2	886.8	817.1
40°	1162.0	1159.0	1148.0	1142.6	1124.0	1087.6	1052.8	1026.4	996.1	947.4	873.6
42.5°	1230.9	1225.6	1214.8	1209.3	1187.6	1145.8	1109.2	1084.6	1058.9	1010.9	931.1
45°	1292.2	1290.0	1276.8	1273.6	1247.2	1202.3	1160.5	1138.7	1116.2	1070.5	983.7
47.5°	1351.9	1346.5	1337.9	1334.2	1303.1	1252.0	1210.8	1192.2	1173.6	1131.8	1040.2
50°	1400.7	1400.0	1392.3	1387.6	1351.9	1296.2	1254.3	1239.5	1229.5	1189.1	1091.5
52.5°	1442.7	1441.9	1437.2	1432.5	1394.6	1336.5	1293.0	1282.2	1279.0	1241.8	1136.4
55°	1472.1	1471.3	1469.7	1465.1	1427.9	1368.2	1325.5	1317.0	1321.0	1286.1	1176.7
57.5°	1489.1	1488.4	1490.6	1486.9	1448.8	1389.9	1348.0	1345.8	1355.1	1323.3	1207.1
60°	1490.6	1490.6	1496.1	1493.8	1459.7	1401.5	1362.0	1362.8	1377.6	1347.3	1226.4
62.5°	1476.8	1476.8	1488.4	1486.1	1456.6	1400.7	1364.3	1370.5	1389.1	1360.5	1233.4
65°	1446.5	1450.5	1463.6	1463.6	1440.3	1389.9	1356.6	1366.0	1388.4	1359.7	1228.7
67.5°	1398.4	1406.1	1424.8	1426.4	1410.1	1366.0	1336.5	1349.7	1374.4	1344.3	1209.3
70°	1338.7	1349.7	1368.9	1374.4	1367.4	1331.0	1306.2	1321.6	1345.8	1315.5	1177.5
72.5°	1268.9	1279.0	1303.9	1310.1	1312.5	1283.7	1264.4	1283.0	1302.4	1269.8	1133.3
75°	1191.5	1200.0	1228.0	1234.1	1244.2	1228.0	1215.4	1230.1	1252.0	1211.6	1076.8
77.5°	1097.6	1112.5	1143.5	1150.4	1169.8	1162.0	1152.7	1170.5	1186.8	1144.3	1010.9
80°	1007.0	1025.5	1051.1	1065.1	1088.3	1087.6	1089.1	1100.8	1114.7	1068.3	939.5
82.5°	914.7	927.9	958.1	971.2	1007.0	1015.5	1015.5	1031.1	1035.7	983.7	862.8
85°	821.7	837.2	867.5	880.6	919.3	938.0	943.4	951.1	951.9	897.6	783.7
87.5°	739.6	748.8	777.6	793.8	835.7	857.3	864.3	873.6	867.5	814.0	702.4
90°	657.4	666.0	693.9	707.0	752.7	778.3	793.8	797.7	785.3	728.6	627.9
92.5°	580.7	589.2	615.5	631.0	676.0	703.2	717.8	720.9	707.0	649.7	555.8
95°	513.2	513.2	541.9	553.4	603.9	634.2	648.0	648.0	628.6	572.1	486.8
97.5°	449.6	451.2	473.6	488.4	534.9	566.7	581.5	582.2	555.1	501.6	428.8
100°	392.2	394.5	415.5	428.8	473.6	507.0	520.2	517.9	489.9	434.9	370.6
102.5°	344.9	344.9	362.7	373.6	416.3	449.6	462.0	457.3	428.8	376.0	323.3
105°	302.3	303.8	315.6	326.4	366.7	397.7	410.0	403.1	373.6	322.5	282.2
107.5°	268.2	267.4	275.2	283.0	321.0	350.3	361.3	352.8	321.8	276.0	245.0
110°	234.1	234.8	241.0	246.6	281.3	309.2	317.0	310.1	275.2	234.8	212.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	207.0	207.0	211.6	216.3	241.0	268.2	277.5	267.4	234.1	199.2	185.3
115°	183.8	184.5	186.0	188.4	209.3	234.1	241.9	229.4	196.9	170.6	161.2
117.5°	163.6	163.6	164.3	166.6	179.8	202.3	207.8	194.6	166.6	145.7	141.8
120°	146.6	145.7	144.9	145.7	155.0	171.3	176.7	163.6	138.8	126.3	123.2
122.5°	130.3	130.3	128.6	129.4	131.8	144.2	148.1	135.6	117.0	109.4	108.5
125°	114.8	114.8	113.1	112.4	111.6	117.9	119.4	110.1	96.8	94.6	93.9
127.5°	100.0	100.8	98.5	97.6	94.6	95.3	96.1	87.6	79.9	80.6	81.3
130°	87.6	87.6	85.2	83.7	79.1	75.2	73.7	68.2	65.0	68.2	70.5
132.5°	75.9	74.4	72.9	71.3	64.4	58.8	55.9	51.2	52.7	57.3	59.6
135°	63.6	62.8	60.5	59.6	52.7	44.1	38.7	37.2	42.0	47.3	48.9
137.5°	51.9	51.9	49.5	48.1	40.3	31.8	26.4	26.4	31.8	37.2	40.3
140°	41.1	41.1	38.7	37.2	30.3	21.6	16.3	17.1	23.3	28.7	31.0
142.5°	31.0	31.0	28.7	27.8	21.6	14.0	9.3	10.9	16.3	20.9	23.3
145°	22.5	21.6	20.1	19.4	14.0	8.5	4.6	6.2	10.2	14.0	16.3
147.5°	14.7	14.7	13.1	12.3	8.5	4.6	1.5	3.1	6.2	8.5	10.9
150°	8.5	8.5	7.7	6.9	4.6	1.5	0.0	1.5	3.1	4.6	6.2
152.5°	4.6	4.6	3.9	3.9	1.5	0.8	0.0	0.0	0.8	2.3	2.3
155°	1.5	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2	330.2
2.5°	331.7	329.5	324.7	321.0	317.0	312.4	310.1	307.8	306.2	304.6	304.6
5°	336.4	331.7	323.3	314.8	307.0	300.0	293.7	289.2	286.7	285.3	284.6
7.5°	346.6	339.5	325.5	312.4	300.8	290.0	281.3	274.4	270.5	268.2	267.4
10°	359.7	349.6	331.7	314.0	298.4	284.6	272.8	264.3	258.9	256.6	255.1
12.5°	377.5	365.2	341.9	319.3	299.2	282.2	267.4	258.2	252.8	249.5	249.5
15°	404.6	388.3	359.7	329.5	304.6	283.8	267.4	257.4	253.5	252.0	251.2
17.5°	435.7	417.1	382.1	347.3	315.6	289.2	274.4	268.2	262.8	260.5	260.5
20°	469.8	447.3	407.0	367.4	331.7	304.6	288.4	278.3	272.0	269.9	269.0
22.5°	503.9	480.7	433.3	388.3	348.8	324.7	301.6	289.2	281.3	278.3	277.5
25°	542.7	517.1	461.2	410.9	372.8	345.8	318.5	300.8	290.7	286.7	286.0
27.5°	584.4	554.3	492.2	434.9	396.2	364.4	334.1	310.1	300.0	295.4	294.6
30°	627.9	594.6	523.3	459.8	418.6	380.6	348.8	321.8	308.5	303.1	302.3
32.5°	673.6	634.2	556.6	489.1	439.5	395.3	361.3	332.6	316.3	310.1	310.1
35°	724.8	679.1	589.2	516.3	458.9	410.0	372.1	342.7	323.3	317.0	317.0
37.5°	773.6	724.0	624.1	545.7	476.7	421.8	380.6	352.0	330.2	322.5	322.5
40°	825.6	768.9	657.4	569.7	492.2	430.9	388.3	359.0	335.6	328.7	327.2
42.5°	875.9	814.0	693.0	594.6	505.4	438.7	394.5	365.2	340.3	331.7	331.0
45°	928.7	858.9	727.2	614.7	516.3	444.2	397.7	369.1	345.8	334.9	333.4
47.5°	974.4	901.5	760.4	632.5	524.8	447.3	399.9	372.1	348.8	336.4	334.9
50°	1020.1	939.5	788.4	647.3	529.5	448.9	400.7	372.8	351.1	336.4	334.9
52.5°	1061.3	975.2	812.3	657.4	531.7	448.1	399.9	372.8	352.0	334.9	333.4
55°	1095.4	1003.9	829.5	663.6	531.7	445.6	397.7	371.3	351.1	333.4	331.0
57.5°	1120.9	1023.3	841.2	665.1	527.9	441.1	393.7	369.1	348.8	330.2	327.2
60°	1136.4	1034.0	844.9	661.2	521.7	435.7	389.1	365.9	346.6	325.5	323.3
62.5°	1141.0	1035.7	841.2	653.4	513.2	428.0	382.1	360.5	341.9	320.2	317.8
65°	1133.3	1027.1	830.3	641.1	501.6	418.6	375.2	354.2	336.4	314.0	311.6
67.5°	1112.5	1008.5	810.9	624.1	488.4	407.7	367.4	347.3	330.2	307.0	302.3
70°	1081.4	980.6	786.0	603.1	472.9	396.2	358.2	338.8	321.8	299.2	294.6
72.5°	1036.5	942.6	753.5	577.5	455.0	383.8	346.6	328.7	312.4	290.0	283.8
75°	982.1	893.9	714.7	551.2	436.4	369.1	334.9	317.8	301.6	279.1	273.7
77.5°	921.8	842.6	672.9	520.9	414.7	354.2	322.5	306.2	289.2	267.4	259.7
80°	855.8	783.0	627.1	489.9	394.5	338.0	308.5	293.0	276.0	255.1	246.6
82.5°	784.5	720.9	581.5	458.9	372.1	321.8	294.6	279.1	261.2	241.0	232.5
85°	714.7	657.4	533.4	425.5	350.3	304.6	279.1	263.6	247.4	226.4	218.6
87.5°	642.6	593.1	486.1	393.0	328.7	288.4	264.3	248.0	231.0	211.6	205.4
90°	579.9	532.5	441.8	361.9	306.2	270.5	248.8	231.9	215.6	196.9	191.5
92.5°	513.2	474.5	398.5	332.6	285.3	253.5	233.3	217.1	199.2	181.4	177.5
95°	455.8	424.0	359.0	303.1	262.8	237.2	217.7	200.9	183.0	165.8	163.6
97.5°	400.7	374.5	320.2	276.0	243.4	220.2	201.6	185.3	166.6	151.2	149.6
100°	352.0	328.7	285.3	251.2	222.5	203.8	186.8	169.8	151.2	136.5	136.5
102.5°	307.0	289.2	254.3	225.6	203.8	186.0	170.6	153.5	134.8	122.4	123.2
105°	270.5	253.5	224.8	203.0	185.3	169.1	154.2	137.3	119.4	109.4	110.1
107.5°	235.6	222.5	199.2	180.6	166.6	153.5	138.0	121.7	103.8	97.6	98.5
110°	205.4	195.3	176.7	161.2	150.3	138.0	124.1	107.0	90.6	86.9	86.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	179.0	170.6	156.6	144.2	133.3	123.2	108.5	93.1	77.6	75.9	75.9
115°	156.6	150.3	137.3	127.1	119.4	109.4	96.1	79.9	67.5	66.7	67.5
117.5°	137.3	131.8	120.9	112.4	105.5	96.1	83.7	68.2	57.3	58.1	58.8
120°	120.2	116.3	107.0	100.0	93.1	84.5	71.3	57.3	50.3	51.2	51.2
122.5°	106.2	102.3	94.6	87.6	81.3	72.9	61.3	48.1	43.4	44.9	44.9
125°	92.3	89.9	82.1	75.9	69.8	61.3	50.3	39.5	37.2	38.7	38.7
127.5°	79.9	78.3	72.1	65.0	58.8	51.2	41.1	32.6	31.8	33.3	33.3
130°	69.0	67.5	62.1	55.9	48.9	42.0	31.8	26.4	27.0	28.7	29.5
132.5°	58.8	58.1	52.7	45.8	39.5	32.6	24.9	21.6	23.3	24.9	24.9
135°	48.9	48.1	44.1	38.0	31.0	24.9	18.7	17.1	19.4	20.9	20.9
137.5°	40.3	38.7	35.7	29.5	23.3	17.8	13.1	14.0	15.5	17.1	17.1
140°	31.8	31.0	27.8	22.5	16.3	11.6	9.3	10.9	13.1	14.0	14.0
142.5°	23.3	23.3	20.1	15.5	10.2	6.9	6.2	7.7	10.2	10.9	10.9
145°	16.3	16.3	14.0	10.2	6.2	3.1	3.1	5.4	6.9	7.7	8.5
147.5°	10.9	10.2	8.5	6.2	3.1	0.8	1.5	3.9	4.6	5.4	5.4
150°	6.2	6.2	4.6	3.1	1.5	0.0	0.8	1.5	2.3	3.1	3.9
152.5°	2.3	2.3	1.5	0.8	0.8	0.0	0.0	0.0	0.8	1.5	1.5
155°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.0	0.8	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)