

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: P266386

Luminaire Tested: **UTLD-AF24-50-D-U-T4W-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
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-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.1 lumens
Efficiency: N/A
Efficacy: 75.4 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): 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



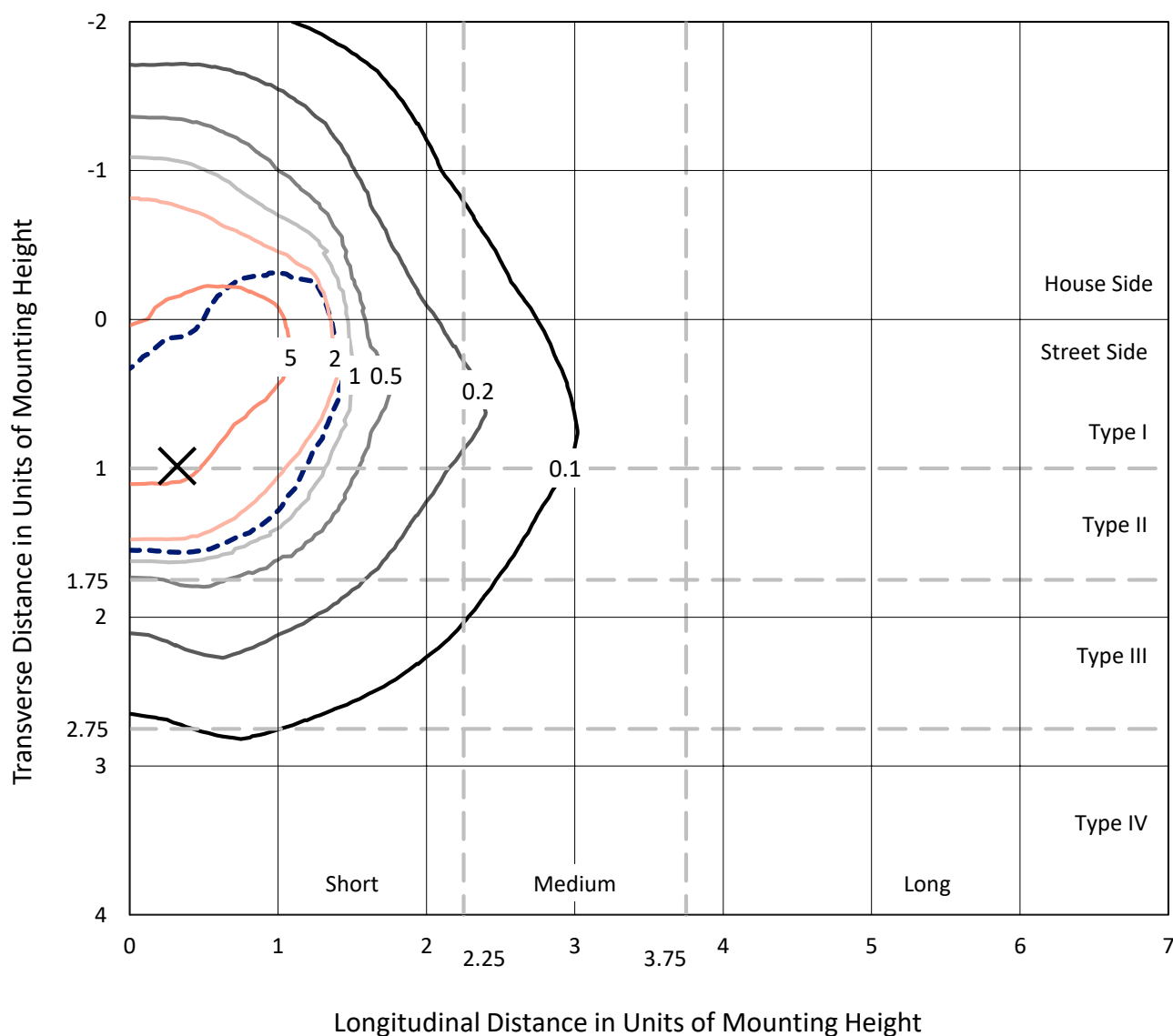
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

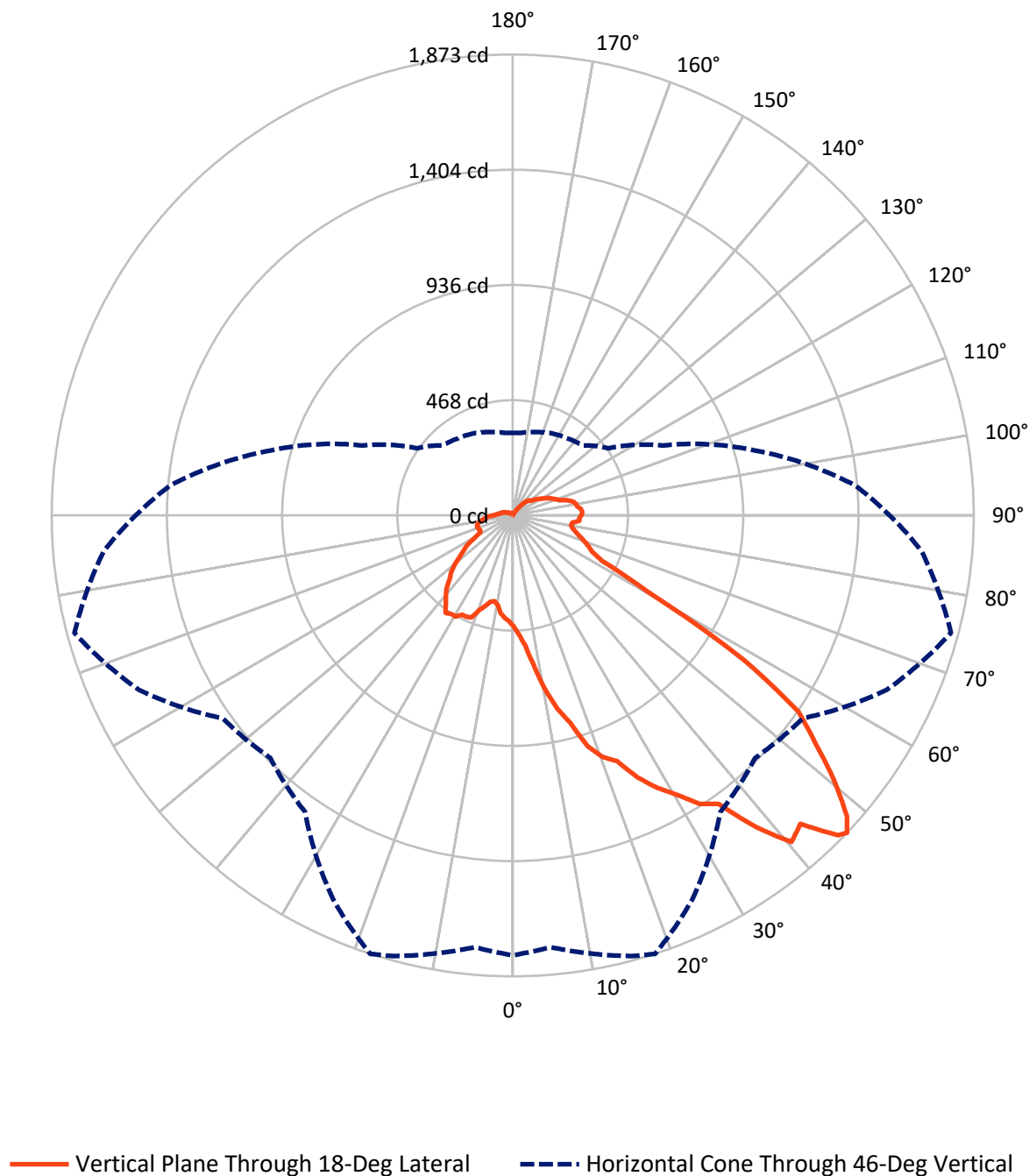


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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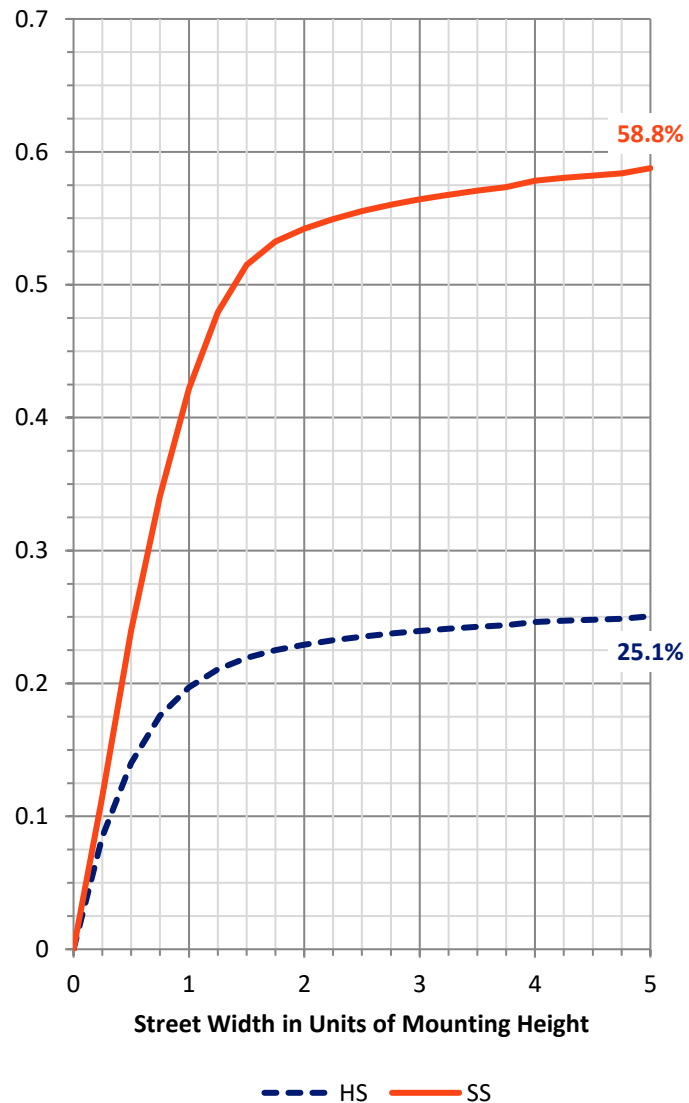
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1059.5	131.9	1191.4
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	2486.3	395.4	2881.7
	% Fixture	61.0	9.7	70.7
Total	Lumens	3545.8	527.3	4073.1
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	1.2
10°-20°	197.2	4.8
20°-30°	401.0	9.8
30°-40°	656.5	16.1
40°-50°	854.5	21.0
50°-60°	639.4	15.7
60°-70°	266.3	6.5
70°-80°	242.3	5.9
80°-90°	240.2	5.9
90°-100°	193.2	4.7
100°-110°	137.3	3.4
110°-120°	92.8	2.3
120°-130°	59.7	1.5
130°-140°	35.4	0.9
140°-150°	8.6	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3545.8	87.1
0°-180°	4073.1	100.0

Coefficient of Utilization



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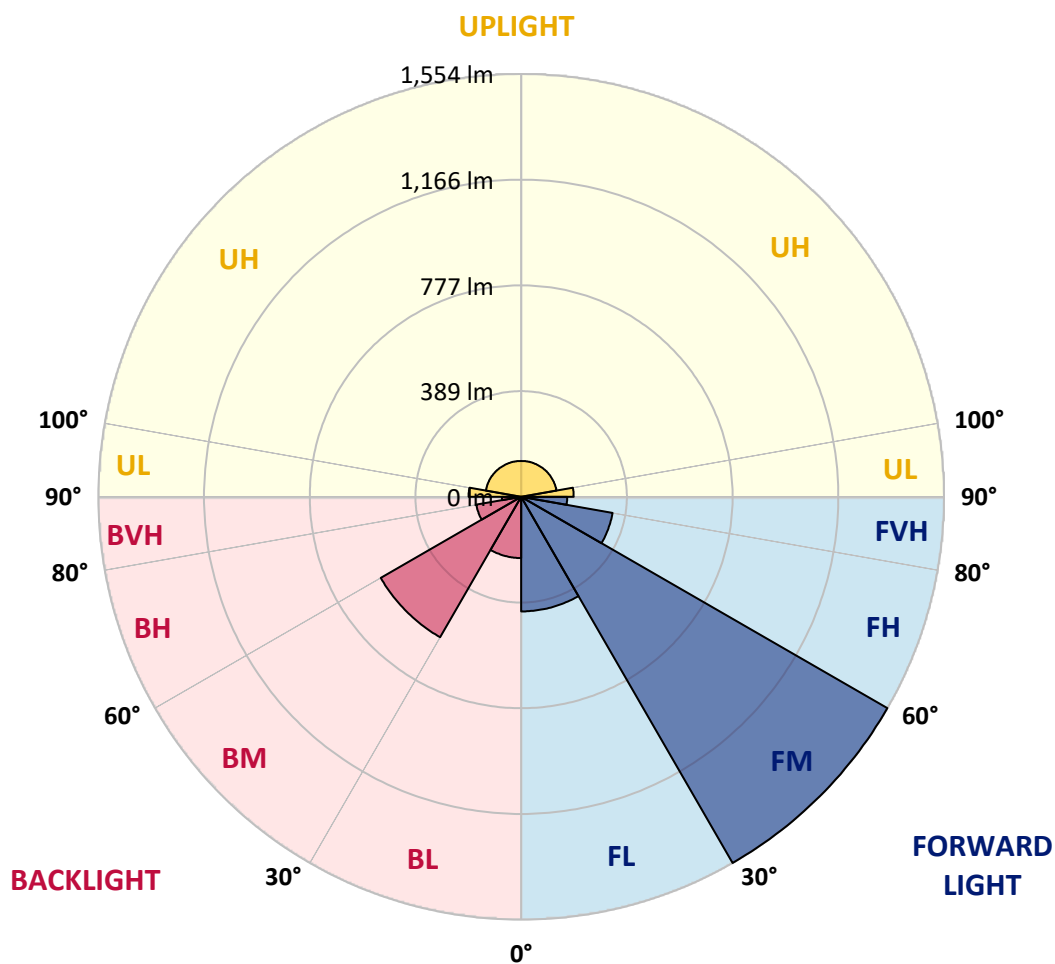
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.3	10.3			
FM	(30°-60°)	1554.5	38.2			
FH	(60°-80°)	341.1	8.4			G0/660
FVH	(80°-90°)	169.4	4.2			G2/225
BL	(0°-30°)	225.2	5.5	B1/500		
BM	(30°-60°)	596.0	14.6	B1/1000		
BH	(60°-80°)	167.5	4.1	B1/500		G1/500
BVH	(80°-90°)	70.8	1.7			G1/100
UL	(90°-100°)	193.2	4.7		U3/500	
UH	(100°-180°)	131.9	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	451.0	451.0	451.0	451.0	451.0	451.0	451.0	451.0	451.0	451.0	451.0
2.5°	484.9	482.7	483.7	483.7	481.0	479.9	477.0	473.6	469.2	464.1	459.7
5°	532.9	531.1	530.5	530.0	529.5	522.2	513.7	506.4	498.4	489.9	478.2
7.5°	621.2	620.6	617.2	613.4	607.8	595.2	580.1	572.8	562.1	549.1	531.1
10°	731.6	723.8	716.4	716.4	705.1	700.7	696.1	685.4	678.7	660.7	634.7
12.5°	794.7	790.8	806.0	804.8	819.4	845.9	854.9	864.0	822.8	770.4	722.1
15°	853.7	853.7	873.1	873.5	916.9	975.5	1019.9	976.5	901.1	816.6	751.9
17.5°	935.0	939.9	967.7	986.2	1044.8	1145.6	1115.2	1035.1	922.6	821.7	749.0
20°	970.3	981.7	1023.9	1048.1	1138.8	1234.0	1204.6	1110.7	980.1	865.1	791.9
22.5°	992.4	1000.3	1049.8	1084.2	1200.2	1280.8	1276.2	1181.0	1057.8	914.0	829.7
25°	1082.5	1087.6	1143.9	1179.4	1302.2	1328.1	1276.9	1210.9	1089.9	940.5	866.2
27.5°	1112.9	1113.4	1200.2	1253.8	1354.6	1345.5	1279.0	1251.5	1190.1	1072.3	1022.2
30°	1154.1	1153.0	1260.0	1317.4	1378.8	1340.5	1286.9	1311.2	1315.1	1219.4	1128.1
32.5°	1204.6	1200.2	1328.1	1396.8	1416.4	1339.4	1299.8	1341.0	1400.6	1301.6	1203.5
35°	1251.5	1255.4	1392.8	1439.5	1458.2	1346.1	1306.7	1396.8	1517.9	1441.3	1276.9
37.5°	1552.2	1547.7	1591.1	1607.3	1560.6	1369.1	1332.5	1466.0	1643.4	1610.2	1434.0
40°	1620.4	1605.1	1734.6	1744.2	1662.0	1450.9	1403.5	1507.7	1742.6	1801.7	1661.4
42.5°	1563.0	1559.0	1700.3	1713.2	1654.1	1506.1	1450.3	1541.5	1753.9	1802.3	1569.1
45°	1815.8	1795.0	1868.7	1853.6	1689.6	1482.4	1421.6	1503.9	1715.0	1850.7	1665.9
46°	1787.1	1760.6	1853.6	1872.6	1723.5	1470.5	1392.8	1437.3	1676.1	1842.9	1667.2
47.5°	1699.2	1701.5	1825.4	1826.6	1689.1	1472.2	1345.5	1397.4	1589.5	1742.1	1507.7
50°	1483.6	1458.2	1684.6	1691.9	1560.6	1408.6	1297.2	1320.8	1503.9	1597.2	1359.0
52.5°	1428.3	1408.6	1542.1	1541.0	1422.6	1311.7	1208.7	1233.5	1440.2	1546.6	1376.6
55°	1312.2	1305.5	1417.6	1408.1	1325.2	1192.3	1118.5	1133.8	1194.6	1153.0	685.9
57.5°	871.9	897.8	1091.5	1110.0	1110.7	1048.1	955.7	815.5	705.7	600.3	335.6
60°	356.0	385.8	601.5	629.7	670.8	785.7	692.8	545.2	455.6	473.6	290.1
62.5°	268.7	279.9	401.5	406.7	422.5	478.2	472.6	395.3	389.1	428.6	277.7
65°	250.1	260.1	356.0	354.2	346.9	362.1	360.9	343.1	349.8	399.3	276.6
67.5°	236.6	246.7	330.5	331.1	324.9	327.8	330.0	321.1	336.9	388.1	283.9
70°	223.0	233.6	304.2	305.9	310.4	320.4	324.4	317.6	331.7	374.0	283.2
72.5°	206.7	218.6	279.4	282.2	291.2	314.2	327.8	326.2	327.8	353.2	282.2
75°	201.1	212.9	258.5	263.7	276.6	311.4	346.3	335.1	323.8	339.6	275.4
77.5°	176.2	189.8	236.6	247.8	276.6	320.4	358.8	354.8	334.0	330.5	268.1
80°	169.5	182.4	227.5	239.9	270.8	328.3	371.2	371.7	360.9	343.1	275.4
82.5°	170.7	183.1	229.7	243.9	279.4	334.0	360.9	375.1	376.2	353.8	283.9
85°	200.5	212.3	256.8	271.5	302.5	332.4	353.2	363.3	373.4	373.4	311.4
87.5°	214.1	224.8	258.5	271.5	301.3	336.2	332.8	349.8	360.0	372.8	321.1
90°	226.5	233.2	268.1	280.5	296.3	324.4	315.5	310.4	318.8	332.4	300.8
92.5°	235.4	241.6	272.5	283.2	296.8	303.0	289.6	274.8	295.7	306.4	279.9
95°	251.7	257.4	273.8	277.7	276.0	281.6	260.8	255.1	264.1	276.0	259.2
97.5°	240.4	244.3	260.1	264.7	263.7	255.1	234.3	231.0	238.8	247.8	229.2
100°	240.4	245.5	257.4	260.1	253.4	232.0	210.7	209.6	214.5	219.0	201.6
102.5°	245.5	247.8	250.1	251.7	239.4	215.8	200.0	196.0	197.6	200.0	184.2
105°	232.7	233.2	234.3	229.2	219.0	201.1	185.3	178.6	184.2	190.9	178.0
107.5°	201.1	200.5	201.1	199.3	198.3	187.6	176.2	167.9	167.9	170.0	157.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	187.6	188.1	187.6	187.6	182.4	175.2	164.5	155.4	150.9	152.1	140.9
112.5°	171.8	171.8	172.4	173.0	170.0	163.3	152.6	143.5	138.0	136.8	126.1
115°	171.8	170.0	165.0	164.5	158.8	149.3	141.4	130.2	126.1	126.1	119.5
117.5°	153.3	152.1	148.1	147.1	143.5	135.7	131.2	122.2	119.5	117.7	111.5
120°	135.7	135.7	134.0	133.5	130.2	125.7	116.1	112.6	110.4	112.6	108.8
122.5°	126.1	126.1	123.3	122.2	118.2	115.0	106.4	100.3	96.3	100.8	98.5
125°	116.1	115.4	111.5	110.9	104.3	104.3	99.7	91.7	81.0	85.6	84.5
127.5°	102.0	101.4	96.3	95.8	91.7	96.3	95.2	85.0	70.3	73.2	73.2
130°	97.9	96.8	92.3	91.3	87.2	86.1	90.6	74.3	65.8	68.7	68.1
132.5°	97.9	96.8	91.3	89.6	83.4	77.2	81.7	64.8	63.2	66.5	65.8
135°	88.5	88.5	83.4	79.9	73.8	62.5	63.6	50.1	55.2	60.2	60.2
137.5°	74.9	74.9	69.9	68.7	61.4	50.1	45.0	38.3	46.7	52.5	52.9
140°	58.6	58.6	54.6	52.5	47.3	33.2	20.8	23.6	35.6	40.6	42.2
142.5°	42.2	41.7	38.3	35.6	30.5	18.1	6.7	13.6	20.8	27.6	29.9
145°	29.3	28.7	24.8	23.0	18.5	8.4	1.6	5.6	12.3	16.3	19.1
147.5°	17.4	17.4	14.6	14.1	9.6	2.2	1.1	1.6	6.2	10.2	11.9
150°	10.2	10.2	7.4	5.6	2.2	0.5	0.5	0.5	1.6	4.5	5.6
152.5°	2.2	2.2	1.6	1.1	1.1	0.5	0.0	0.5	0.5	0.5	1.1
155°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
162.5°	0.5	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.5	0.5	0.5
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°	451.0	451.0	451.0	451.0	451.0	451.0	451.0	451.0	451.0	451.0	451.0
2.5°	457.3	455.1	450.1	443.9	439.4	435.4	432.5	430.8	429.7	427.0	428.0
5°	474.2	469.8	457.9	448.3	438.2	429.2	422.5	417.9	416.3	413.9	413.9
7.5°	522.6	511.9	494.0	471.4	450.6	432.5	415.6	406.0	397.6	393.1	392.0
10°	617.9	603.8	564.9	518.7	473.0	432.5	399.8	376.2	364.9	360.9	360.9
12.5°	696.6	674.7	624.1	572.2	511.3	447.7	399.3	367.1	352.0	346.9	346.9
15°	720.4	691.6	631.9	581.3	526.5	473.0	428.0	381.9	354.2	345.8	343.1
17.5°	713.1	684.9	630.8	569.4	508.0	468.0	428.0	403.2	377.8	363.3	360.9
20°	759.7	733.8	677.5	608.8	533.4	443.9	418.5	412.9	406.7	397.1	397.1
22.5°	798.7	774.3	718.0	644.4	553.6	495.1	457.3	451.7	444.9	443.3	442.1
25°	828.4	802.5	725.4	640.4	574.5	531.6	483.3	464.1	447.7	442.7	441.0
27.5°	987.9	947.9	823.9	703.5	608.8	544.1	488.3	463.5	448.3	442.1	446.1
30°	1081.4	1038.0	902.3	743.9	650.0	571.1	498.4	469.2	473.0	478.2	482.1
32.5°	1153.0	1096.0	936.7	749.0	643.1	576.2	514.8	479.9	468.6	475.4	476.6
35°	1223.3	1154.1	981.0	781.2	652.2	557.6	503.5	483.3	479.9	488.9	487.2
37.5°	1366.3	1275.7	1036.4	790.1	643.7	535.6	484.4	462.9	445.5	443.3	446.1
40°	1553.3	1431.7	1091.5	786.2	604.3	509.2	460.1	435.9	422.5	413.9	408.9
42.5°	1459.8	1337.7	1020.6	754.7	556.5	461.8	435.4	413.9	396.5	385.8	382.9
45°	1562.3	1442.9	1038.6	691.1	501.9	419.6	398.2	383.5	359.3	349.3	347.6
46°	1531.4	1396.2	1018.3	671.4	475.4	401.5	383.5	368.3	350.2	336.2	335.1
47.5°	1418.8	1261.0	958.6	618.5	457.3	371.7	359.3	350.2	340.7	324.4	322.1
50°	1266.2	1145.6	851.1	549.8	385.3	331.7	321.1	318.2	307.5	287.7	289.6
52.5°	1254.3	1137.8	792.5	505.7	341.9	290.6	287.3	278.8	269.9	252.3	251.7
55°	604.9	514.2	439.9	396.0	286.1	257.4	255.7	251.7	240.4	224.8	227.5
57.5°	286.6	249.5	215.8	228.7	224.8	225.8	227.0	226.5	213.4	192.1	196.5
60°	251.2	218.0	186.4	176.8	185.9	200.0	200.0	191.5	173.5	148.1	145.9
62.5°	242.3	208.9	180.2	167.3	171.8	180.2	175.7	162.2	144.2	121.1	120.0
65°	243.4	207.8	179.8	163.3	167.3	170.7	162.2	151.5	141.9	125.7	125.7
67.5°	248.4	212.3	181.9	161.7	164.5	166.7	158.8	150.9	145.3	132.9	134.0
70°	249.5	215.1	184.2	162.2	161.7	163.9	158.2	150.9	148.1	139.6	139.1
72.5°	249.5	217.4	181.9	158.2	157.2	158.2	154.9	150.9	150.3	145.3	144.2
75°	241.0	212.3	174.0	150.3	149.3	150.3	149.3	148.7	150.9	148.7	146.5
77.5°	232.7	207.2	168.4	144.2	142.6	141.9	141.4	141.9	145.3	143.5	140.2
80°	236.6	209.6	167.3	139.1	134.0	131.8	131.8	132.4	132.4	127.3	122.2
82.5°	243.4	213.4	161.7	129.5	121.1	117.1	118.2	122.2	123.8	120.0	116.1
85°	268.1	231.5	162.8	122.8	110.4	105.9	107.5	112.6	109.2	103.7	99.2
87.5°	278.8	237.7	159.4	112.6	102.4	100.8	100.8	103.7	101.4	92.3	88.5
90°	266.3	227.5	144.2	95.8	89.0	90.6	91.3	88.5	78.8	68.7	65.3
92.5°	249.5	212.9	133.5	87.9	78.8	78.3	77.8	76.0	68.7	57.4	55.2
95°	235.4	200.5	123.3	80.6	72.1	70.3	69.9	67.6	60.8	52.5	51.3
97.5°	205.1	175.2	112.1	74.3	64.8	63.6	63.2	60.2	54.1	47.9	47.3
100°	184.2	156.0	100.3	67.1	58.6	57.0	56.4	54.6	49.5	45.0	44.5
102.5°	167.3	143.1	93.0	61.4	52.5	50.1	50.1	49.0	46.3	43.4	43.4
105°	162.8	140.2	90.1	56.4	46.7	45.6	45.0	45.0	42.8	41.1	41.1
107.5°	143.1	122.8	77.8	50.1	42.2	41.1	41.1	41.1	40.6	40.0	40.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	128.9	110.9	71.5	46.7	39.4	37.6	37.6	37.6	37.6	38.8	38.8
112.5°	115.0	99.7	65.8	44.5	36.7	34.9	33.7	33.2	32.7	34.9	35.6
115°	108.8	95.2	63.2	42.2	34.9	33.2	31.0	29.9	28.1	29.9	30.5
117.5°	102.4	90.1	62.0	41.7	33.7	31.0	28.7	27.6	25.3	26.9	26.9
120°	100.8	89.6	63.2	42.2	32.7	28.7	26.9	24.3	23.0	24.3	24.8
122.5°	93.0	82.9	59.2	39.4	31.0	27.6	25.3	20.8	20.3	22.0	22.0
125°	78.8	71.0	51.3	35.6	29.3	26.9	24.8	18.5	19.1	20.3	20.8
127.5°	69.3	62.5	46.7	34.3	29.3	27.6	23.0	16.3	18.1	19.8	20.3
130°	64.8	59.6	46.7	35.6	30.5	28.1	19.1	15.2	16.9	18.5	18.5
132.5°	63.2	59.2	47.9	37.6	31.5	26.9	15.8	14.1	15.8	16.9	16.9
135°	58.0	54.6	45.6	36.7	28.7	21.4	12.3	12.3	14.6	15.8	15.8
137.5°	51.3	48.5	41.1	33.7	25.3	16.3	9.1	10.7	12.3	13.6	13.6
140°	41.1	39.4	33.7	26.5	18.1	9.1	6.7	8.4	10.2	11.3	11.3
142.5°	29.3	28.1	23.6	16.9	10.7	4.0	4.5	6.2	7.8	9.1	9.1
145°	19.1	18.1	14.6	10.7	4.5	1.1	2.9	4.5	6.2	6.7	6.7
147.5°	11.9	11.3	9.1	5.1	1.6	1.1	1.1	3.4	4.5	5.1	5.1
150°	6.2	5.6	4.0	1.6	0.5	0.5	0.5	1.1	2.9	3.4	4.0
152.5°	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.5	0.0	0.5	0.5	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)