

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: P266365

Luminaire Tested: **UTLD-AF24-50-D-U-SL3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
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-SL3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3955.3 lumens
Efficiency: N/A
Efficacy: 73.2 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



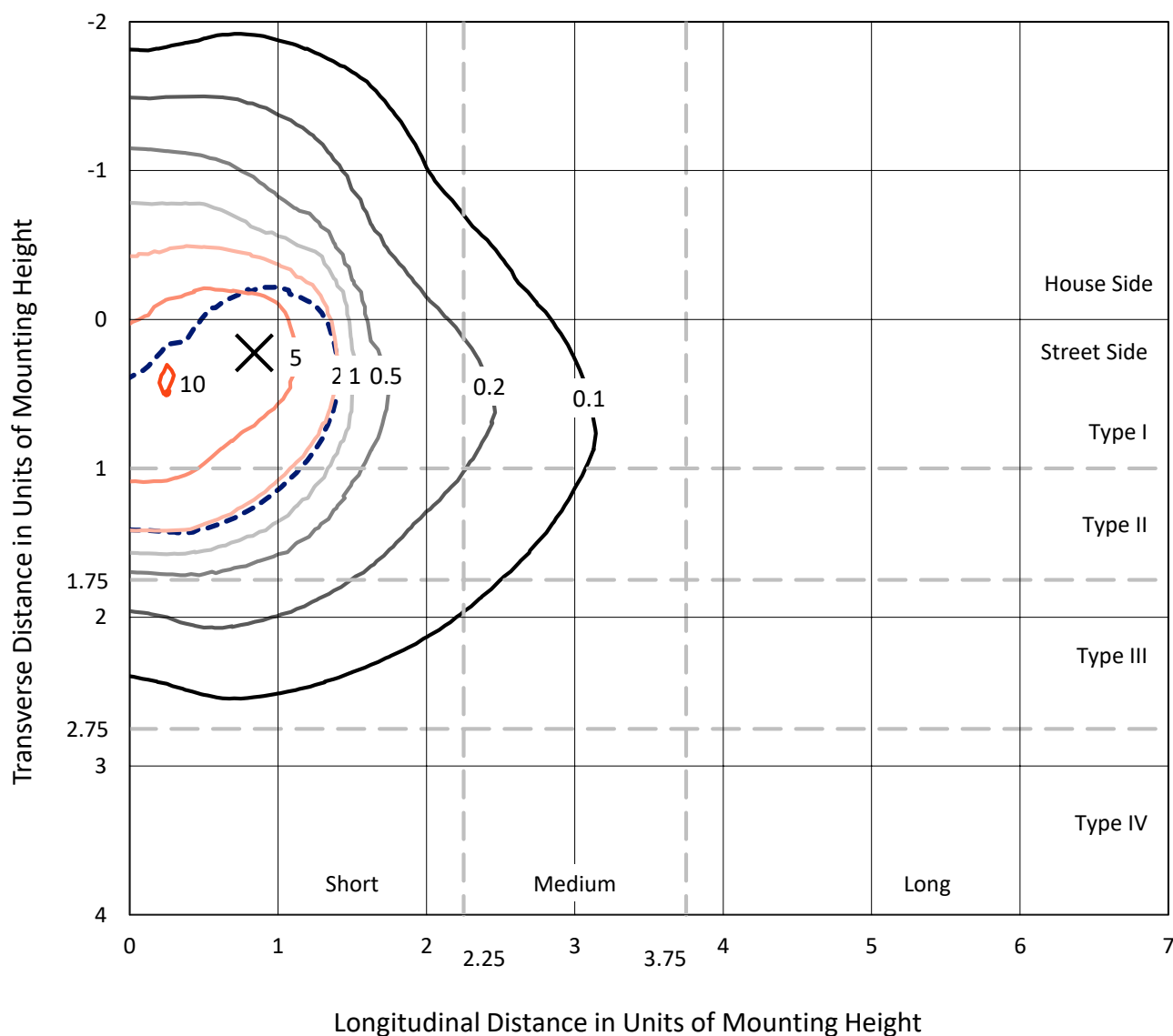
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

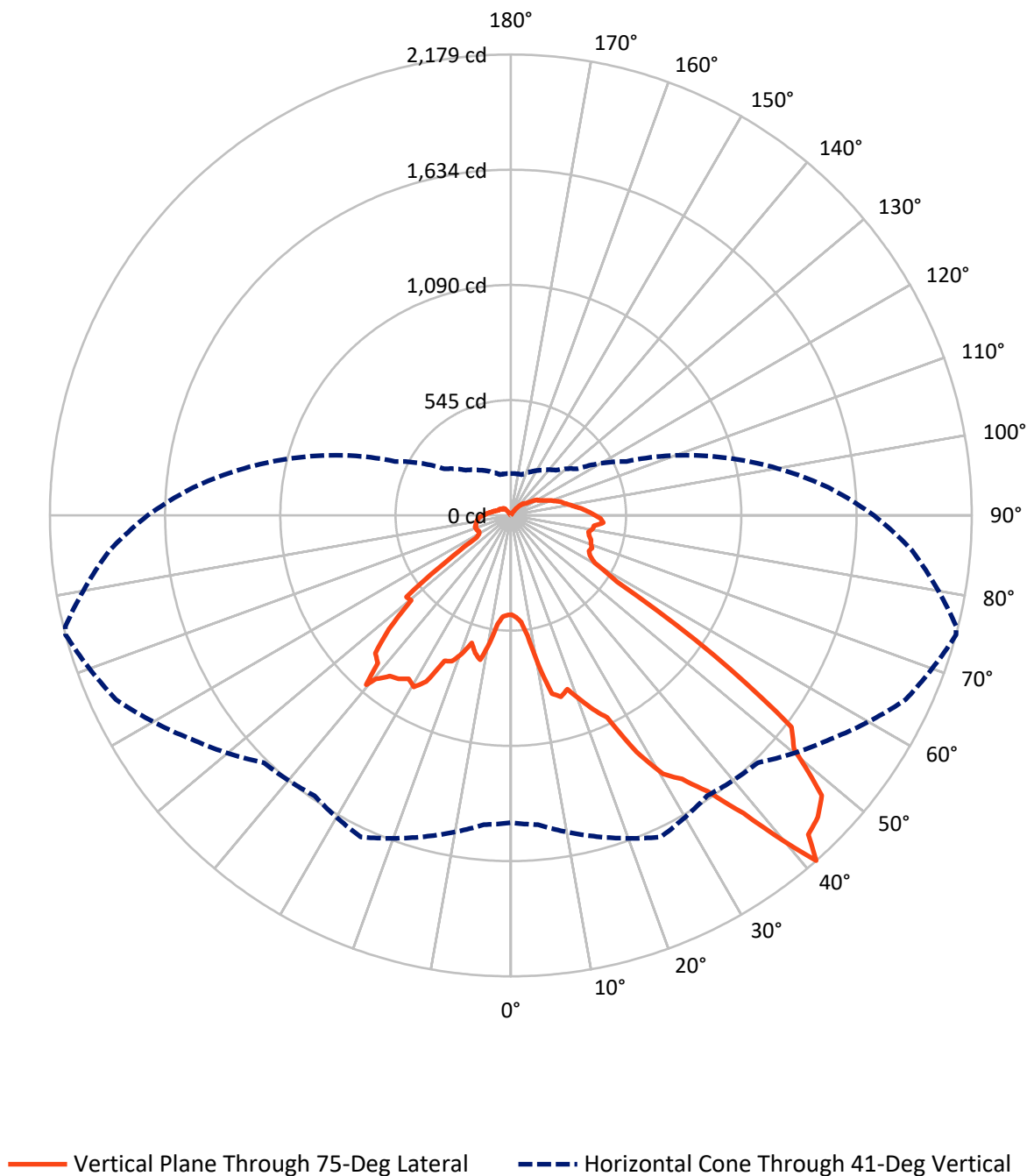


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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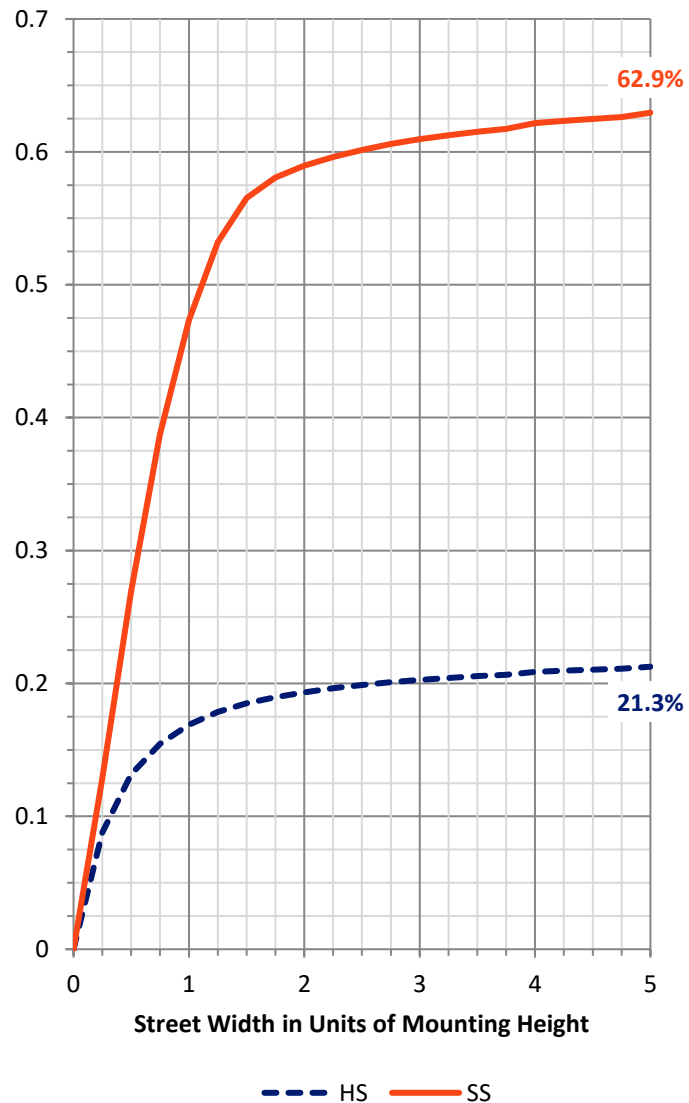
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.5	111.2	983.8
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	2566.1	405.5	2971.6
	% Fixture	64.9	10.3	75.1
Total	Lumens	3438.6	516.7	3955.3
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.2
10°-20°	195.7	4.9
20°-30°	402.1	10.2
30°-40°	654.7	16.6
40°-50°	850.3	21.5
50°-60°	602.9	15.2
60°-70°	245.1	6.2
70°-80°	221.7	5.6
80°-90°	216.6	5.5
90°-100°	185.8	4.7
100°-110°	134.5	3.4
110°-120°	91.8	2.3
120°-130°	59.6	1.5
130°-140°	35.5	0.9
140°-150°	9.0	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3438.6	86.9
0°-180°	3955.3	100.0

Coefficient of Utilization



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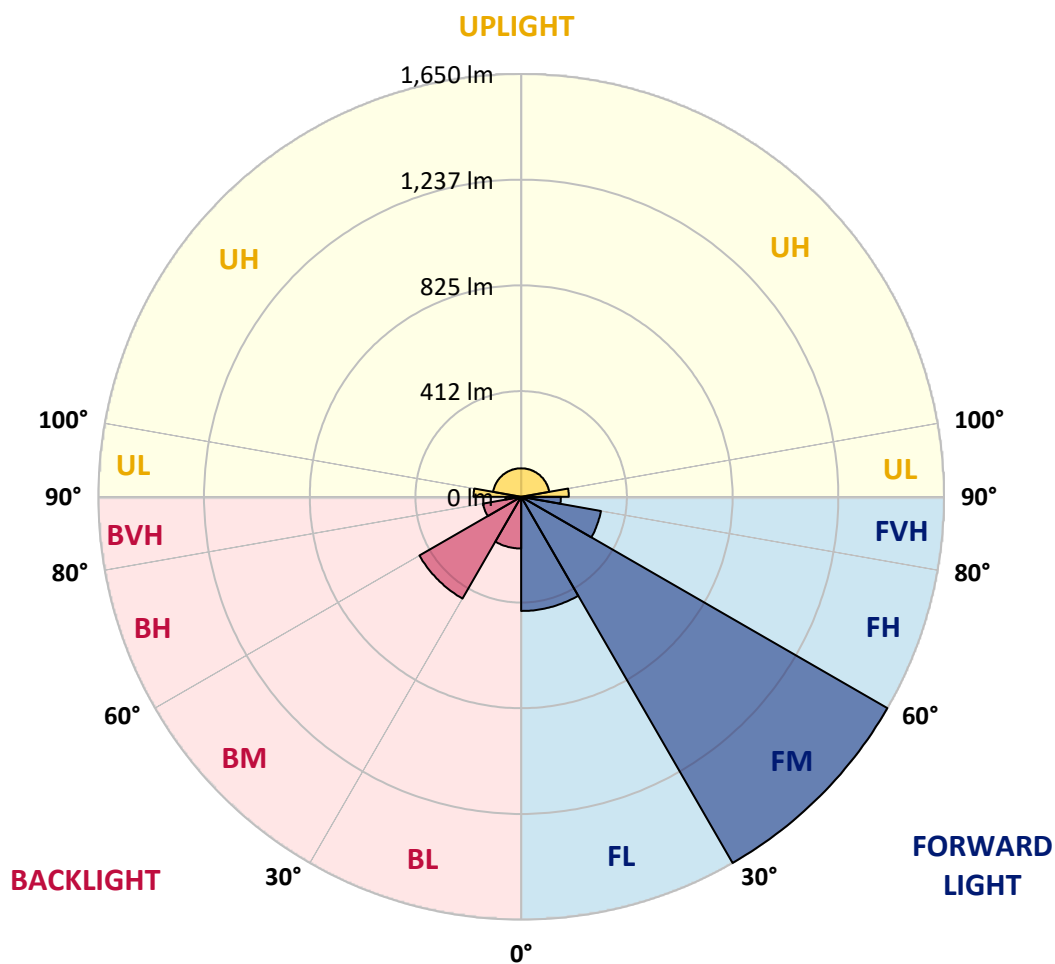
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	445.4	11.3			
FM	(30°-60°)	1649.7	41.7			
FH	(60°-80°)	315.8	8.0			G0/660
FVH	(80°-90°)	155.2	3.9			G2/225
BL	(0°-30°)	201.9	5.1	B1/500		
BM	(30°-60°)	458.3	11.6	B1/1000		
BH	(60°-80°)	151.0	3.8	B1/500		G1/500
BVH	(80°-90°)	61.4	1.6			G1/100
UL	(90°-100°)	185.8	4.7		U3/500	
UH	(100°-180°)	111.2	2.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3
2.5°	501.9	503.1	500.7	499.1	497.9	494.5	491.7	487.8	482.2	481.6	479.3
5°	547.4	547.4	547.4	543.6	539.1	531.7	525.5	516.5	505.8	505.2	496.9
7.5°	621.3	621.3	617.9	612.3	602.1	590.8	589.7	588.6	573.9	572.3	557.0
10°	700.7	698.4	700.1	704.6	709.8	724.9	734.5	735.6	719.8	715.9	693.9
12.5°	731.7	733.9	753.7	789.7	850.5	911.4	943.0	917.0	864.6	857.8	806.0
15°	779.0	781.9	814.6	874.8	976.2	1064.0	1037.0	972.1	889.4	883.3	803.3
17.5°	905.8	918.6	950.2	1045.9	1149.0	1113.5	1022.4	939.0	864.1	856.8	789.7
20°	994.8	1002.1	1062.9	1154.7	1227.4	1173.2	1110.8	1026.9	926.1	926.1	873.6
22.5°	1068.5	1066.3	1115.9	1254.5	1296.7	1261.7	1189.0	1103.5	996.4	991.4	923.2
25°	1184.5	1192.0	1277.5	1430.7	1391.8	1302.8	1207.1	1128.8	1058.5	1052.2	984.1
27.5°	1252.1	1271.3	1369.8	1502.9	1478.0	1358.1	1274.2	1262.3	1267.4	1262.3	1187.9
30°	1269.0	1277.5	1399.2	1531.0	1514.1	1425.2	1425.2	1444.7	1418.9	1411.5	1311.9
32.5°	1311.3	1331.6	1448.2	1550.7	1509.5	1492.7	1501.6	1497.7	1486.4	1476.4	1360.4
35°	1379.9	1397.5	1506.7	1583.9	1509.1	1515.3	1596.3	1643.1	1602.4	1593.6	1420.6
37.5°	1560.8	1577.8	1676.2	1671.7	1548.9	1560.8	1707.9	1793.5	1786.1	1785.0	1613.7
40°	1524.8	1580.6	1700.0	1718.5	1608.7	1621.6	1797.4	1983.3	2068.8	2066.6	1854.3
41°	1452.6	1467.9	1572.0	1677.5	1618.2	1652.6	1844.1	2059.9	2179.3	2170.8	1904.9
42.5°	1478.6	1505.6	1567.6	1602.4	1607.0	1675.7	1880.7	2069.4	2063.2	2059.4	1841.9
45°	1699.4	1710.6	1736.6	1669.5	1556.4	1641.9	1860.5	2035.6	2035.1	2017.1	1919.0
47.5°	1593.0	1625.0	1735.4	1675.7	1551.3	1550.1	1693.8	1930.8	1978.2	1952.2	1708.3
50°	1506.7	1529.9	1594.0	1530.4	1475.7	1474.7	1609.9	1788.3	1734.3	1727.0	1391.8
52.5°	1336.7	1359.1	1404.8	1389.0	1358.1	1354.6	1457.7	1644.7	1661.7	1656.0	1404.8
55°	1016.2	1032.0	1203.6	1208.2	1185.1	1196.5	1279.7	1355.8	1166.4	1136.0	789.7
57.5°	597.1	637.6	804.3	908.5	956.4	965.5	936.8	802.0	592.1	570.7	364.4
60°	294.6	315.5	431.5	541.9	665.7	670.2	579.0	512.6	454.5	441.5	318.8
62.5°	210.2	222.5	298.5	357.2	426.3	437.7	405.6	433.2	420.8	413.0	310.4
65°	190.4	201.1	264.7	295.7	324.5	342.0	349.8	396.0	405.6	400.5	308.1
67.5°	174.0	184.7	241.6	265.3	286.6	314.9	331.7	377.4	413.9	410.6	326.8
70°	153.8	166.1	218.0	246.8	273.2	305.3	328.4	376.3	402.7	398.2	316.6
72.5°	134.7	145.9	188.1	221.9	260.8	297.3	331.7	366.7	396.0	392.0	320.4
75°	117.1	128.4	165.1	200.0	244.5	299.7	334.0	363.9	382.5	376.7	314.9
77.5°	105.3	116.6	148.1	182.4	232.0	303.1	365.0	376.3	375.8	370.1	308.1
80°	95.8	107.0	136.9	170.0	220.9	310.4	390.4	401.6	391.5	384.1	309.7
82.5°	93.0	103.7	131.2	167.9	223.0	314.9	397.7	425.8	397.1	388.1	308.1
85°	103.0	109.9	138.6	179.8	237.7	322.8	394.9	439.4	438.8	429.2	336.2
87.5°	122.8	128.4	156.6	198.3	253.5	327.3	429.7	447.7	424.1	419.7	339.6
90°	152.2	156.0	185.3	223.6	269.9	324.9	354.3	377.4	393.2	389.8	322.2
92.5°	180.7	185.9	212.4	240.6	261.3	279.5	308.1	361.6	363.9	361.1	309.7
95°	214.7	218.0	233.2	247.3	251.7	258.0	286.6	310.4	336.2	332.9	298.5
97.5°	233.2	234.8	241.6	239.9	229.2	230.3	262.5	287.8	303.5	299.7	261.3
100°	228.7	230.3	231.6	221.3	206.7	211.2	237.7	268.1	280.5	278.8	242.3
102.5°	214.1	216.9	217.4	207.2	193.8	194.9	220.9	243.9	256.8	254.6	225.8
105°	210.2	211.2	206.2	192.6	176.8	179.1	203.9	228.7	243.9	242.7	213.4
107.5°	189.3	190.4	183.1	170.0	164.5	170.7	193.1	208.9	219.0	219.0	190.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	158.8	158.8	157.2	154.2	155.4	164.5	183.1	193.1	201.7	201.1	174.0
112.5°	153.8	152.6	150.9	148.7	145.3	152.6	165.1	177.4	179.1	178.6	155.4
115°	151.5	149.8	144.2	138.0	134.0	139.6	149.3	160.5	165.1	164.5	148.1
117.5°	134.0	134.0	129.5	125.0	123.3	130.7	142.6	149.8	150.3	151.5	135.7
120°	120.0	120.0	117.1	115.0	116.1	119.5	132.4	138.6	144.2	143.5	130.2
122.5°	109.2	109.9	107.5	103.0	107.0	110.4	117.7	124.0	130.2	129.5	120.0
125°	98.5	98.1	95.8	90.6	99.7	104.3	104.7	104.3	110.4	110.4	102.0
127.5°	87.3	86.7	84.5	81.7	93.6	99.7	98.5	89.6	93.6	93.0	89.0
130°	86.1	85.6	81.7	78.3	83.9	94.6	89.6	83.4	86.7	87.3	83.4
132.5°	85.6	85.1	81.0	75.5	73.8	85.1	76.0	77.2	81.0	81.0	77.8
135°	79.9	79.4	76.0	68.1	60.2	70.3	60.2	66.5	71.5	71.5	68.7
137.5°	70.3	69.9	66.5	59.6	48.5	50.1	45.6	55.8	61.4	62.0	59.6
140°	55.8	56.4	52.9	46.3	34.9	26.5	29.9	43.4	49.0	49.0	48.5
142.5°	41.7	41.7	38.3	31.5	20.3	9.6	16.9	26.5	33.2	33.7	34.9
145°	29.3	29.3	26.0	20.3	10.2	1.6	7.8	15.8	20.8	20.8	22.5
147.5°	19.1	19.1	16.3	11.3	2.9	0.5	2.2	7.8	12.3	12.3	13.6
150°	11.9	11.9	9.1	3.4	0.5	0.0	0.5	1.6	5.6	5.6	7.4
152.5°	4.0	3.4	1.6	1.1	0.5	0.0	0.0	0.5	0.5	0.5	1.6
155°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3
2.5°	476.6	475.5	471.5	466.4	460.2	452.2	447.3	445.0	442.1	439.9	441.1
5°	492.4	488.4	479.3	462.9	447.7	436.5	427.6	419.7	415.6	412.3	412.3
7.5°	549.8	542.9	517.7	490.0	455.7	424.7	402.7	391.5	378.5	375.1	374.6
10°	674.7	666.4	612.9	546.3	481.6	420.8	365.6	335.6	321.7	314.2	316.1
12.5°	778.4	759.2	698.4	623.0	533.5	435.4	358.9	305.3	281.6	272.6	269.2
15°	769.9	737.9	672.0	600.4	530.5	459.0	382.5	322.2	273.2	256.8	253.5
17.5°	751.4	717.6	630.3	538.4	456.8	413.0	370.1	326.2	289.0	264.2	259.7
20°	846.1	807.8	693.9	602.8	487.8	376.7	327.8	303.1	279.5	266.9	264.2
22.5°	886.5	847.7	743.0	627.5	513.7	417.9	337.9	292.4	273.8	271.5	268.1
25°	947.4	898.5	756.0	610.6	500.7	422.5	338.5	293.4	265.9	265.9	264.2
27.5°	1144.0	1072.4	882.7	678.2	519.8	406.2	330.0	280.5	247.3	234.3	231.6
30°	1231.8	1163.8	931.2	695.6	528.4	410.0	314.2	257.5	235.4	225.8	224.8
32.5°	1295.5	1206.6	910.8	653.3	485.5	382.9	300.8	249.0	227.0	218.6	216.3
35°	1327.1	1209.8	937.8	638.2	459.7	351.4	285.0	239.4	225.8	219.0	219.0
37.5°	1480.9	1335.5	951.3	634.3	439.9	321.1	270.8	239.9	211.2	201.7	202.2
40°	1693.1	1486.4	1002.1	605.0	401.6	310.4	261.9	229.2	202.7	196.5	194.4
41°	1716.8	1508.4	1052.8	604.4	383.5	302.5	261.3	228.1	199.5	198.3	197.6
42.5°	1653.8	1438.0	939.0	549.1	360.0	289.6	260.1	227.0	196.0	198.9	198.3
45°	1725.9	1511.8	913.7	503.1	318.8	268.1	246.8	220.9	193.8	188.7	189.3
47.5°	1499.5	1281.4	786.3	437.7	282.2	245.0	228.1	206.7	188.1	185.3	185.3
50°	1194.1	1004.8	618.5	384.7	248.4	225.8	210.2	196.0	176.8	169.5	171.8
52.5°	1216.7	1017.8	626.8	358.2	225.8	206.2	196.0	178.6	156.0	142.6	144.7
55°	669.1	580.1	366.7	274.9	209.6	191.5	179.8	161.7	136.9	121.7	123.3
57.5°	303.5	252.3	194.9	189.3	181.4	176.2	163.3	147.1	123.3	106.4	106.4
60°	271.5	222.5	174.0	158.3	162.2	162.9	149.3	133.5	110.4	90.6	91.3
62.5°	265.3	216.9	169.1	150.9	154.2	154.2	141.4	125.7	104.7	84.5	84.5
65°	264.2	214.7	169.5	148.7	150.9	151.5	138.6	125.7	111.5	96.8	98.1
67.5°	279.9	227.0	175.2	147.1	149.3	149.3	138.6	128.9	120.6	111.5	112.6
70°	271.5	223.0	174.0	147.1	145.9	145.9	138.0	129.5	125.0	117.1	117.7
72.5°	274.9	229.7	177.4	145.9	141.4	140.2	135.1	130.2	126.2	122.2	122.8
75°	269.9	227.6	171.8	140.2	134.7	132.4	128.9	127.9	128.4	126.8	125.7
77.5°	261.9	223.6	167.9	134.7	128.4	123.3	121.1	121.7	124.0	122.2	120.6
80°	260.8	224.1	166.1	131.2	120.6	112.1	109.2	110.4	111.0	107.5	104.3
82.5°	257.5	219.6	158.3	122.2	108.8	98.1	95.8	97.5	98.1	94.6	91.3
85°	277.1	231.6	156.0	113.7	98.5	87.3	83.4	83.9	79.9	74.9	71.5
87.5°	285.0	233.7	147.1	100.8	88.5	78.8	73.8	70.3	64.1	55.8	53.4
90°	270.8	221.9	132.4	86.7	77.8	70.3	64.1	59.6	51.8	43.4	40.6
92.5°	262.5	212.9	121.7	77.8	68.1	62.0	56.4	49.5	41.7	32.1	30.5
95°	257.5	209.6	115.0	69.3	60.8	54.6	49.0	42.8	34.9	27.6	26.5
97.5°	224.1	181.4	101.4	62.0	53.4	47.9	42.8	36.7	29.3	23.6	22.5
100°	208.3	169.1	94.1	55.8	47.3	42.2	37.8	32.7	26.5	22.5	22.0
102.5°	194.9	157.2	85.6	50.1	42.2	37.2	33.2	28.7	24.3	20.8	21.4
105°	184.7	149.8	82.3	46.3	37.8	33.7	29.3	26.0	21.4	19.1	19.1
107.5°	163.9	132.9	72.7	41.7	34.3	30.5	26.9	23.6	20.3	18.5	19.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	151.5	123.3	69.3	40.0	32.7	28.1	24.9	21.4	18.1	18.1	18.1
112.5°	134.7	111.0	64.1	37.8	30.5	26.5	23.0	19.1	15.8	16.3	16.9
115°	128.9	107.0	62.0	36.0	29.3	25.3	21.4	18.1	14.1	15.2	15.8
117.5°	118.8	99.2	60.2	36.0	28.1	23.6	20.3	16.9	13.6	14.6	14.6
120°	115.4	97.5	60.2	35.6	26.9	22.5	19.1	14.6	12.3	13.6	13.6
122.5°	107.5	91.3	57.4	34.9	26.0	21.4	18.5	12.3	10.7	11.9	11.9
125°	92.3	79.4	51.8	32.7	24.9	21.4	18.1	10.2	10.2	11.3	11.3
127.5°	80.6	69.9	47.3	32.1	25.3	22.5	16.9	8.4	9.1	10.2	10.2
130°	76.5	68.1	49.0	34.9	27.6	23.6	12.3	7.8	8.4	9.6	10.2
132.5°	72.7	65.8	50.1	37.8	29.3	23.0	10.2	7.4	7.8	9.1	9.1
135°	64.8	59.6	46.7	36.0	27.6	18.5	7.4	6.2	7.4	8.4	8.4
137.5°	57.0	52.9	42.8	33.2	25.3	14.6	5.1	5.6	6.2	6.7	6.7
140°	46.7	43.4	35.6	26.9	18.5	7.8	3.4	4.5	5.1	5.6	5.6
142.5°	33.7	31.5	25.3	18.1	10.7	2.9	2.2	3.4	4.0	4.5	4.5
145°	22.5	20.8	16.3	11.3	4.0	1.6	1.1	2.2	3.4	3.4	4.0
147.5°	13.6	12.9	9.6	5.1	1.6	1.1	1.1	1.6	2.2	2.9	2.9
150°	6.7	6.7	4.5	1.6	1.1	0.5	0.5	0.5	1.1	1.6	1.6
152.5°	1.6	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	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)