

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: P266413

Luminaire Tested: **UTLD-AF24-60-D-U-T3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4808.3 lumens
Efficiency: N/A
Efficacy: 75.1 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): 64
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

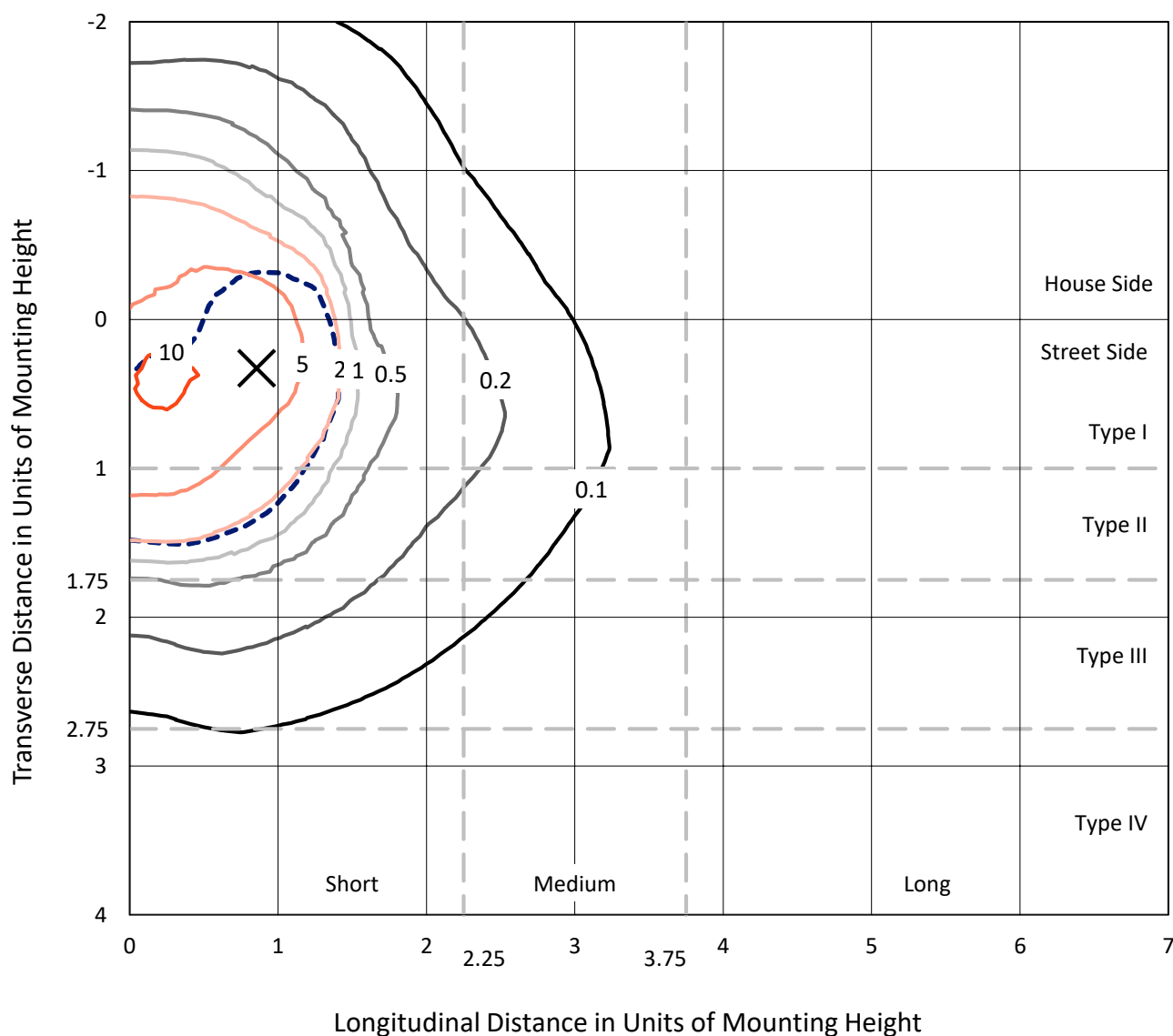


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

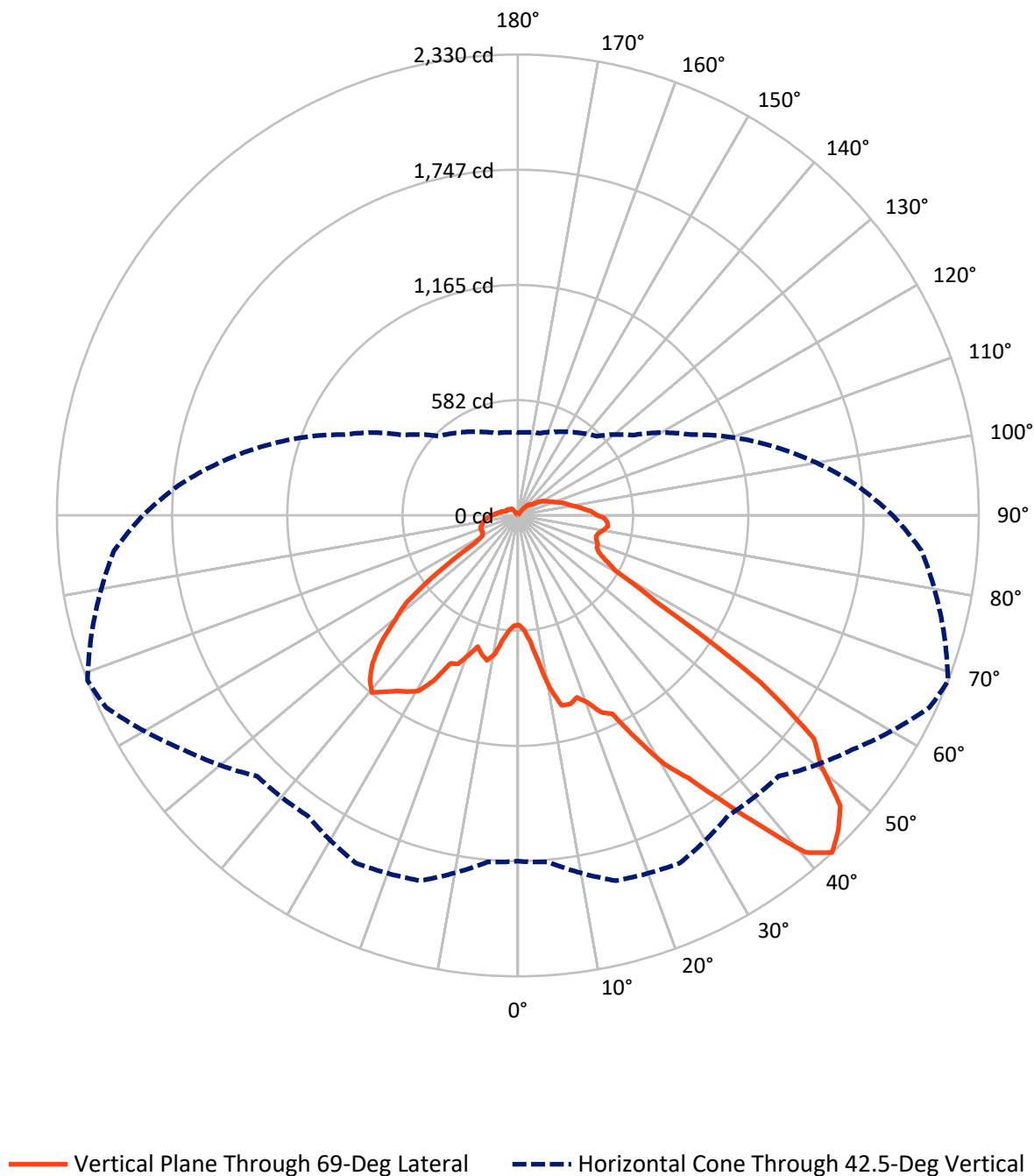


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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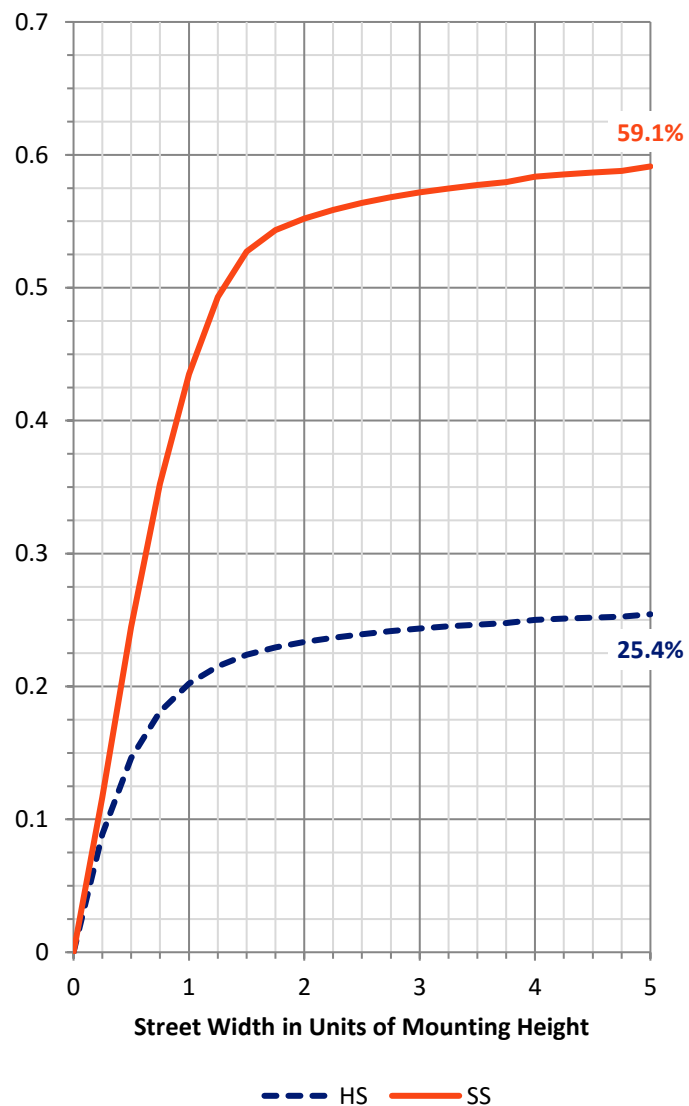
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1266.9	152.7	1419.6
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	2935.7	453.0	3388.7
	% Fixture	61.1	9.4	70.5
Total	Lumens	4202.6	605.6	4808.3
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	1.3
10°-20°	231.3	4.8
20°-30°	473.1	9.8
30°-40°	795.7	16.5
40°-50°	1053.4	21.9
50°-60°	759.6	15.8
60°-70°	298.4	6.2
70°-80°	268.9	5.6
80°-90°	262.0	5.4
90°-100°	221.0	4.6
100°-110°	157.1	3.3
110°-120°	105.9	2.2
120°-130°	69.3	1.4
130°-140°	41.4	0.9
140°-150°	10.5	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4202.6	87.4
0°-180°	4808.3	100.0

Coefficient of Utilization



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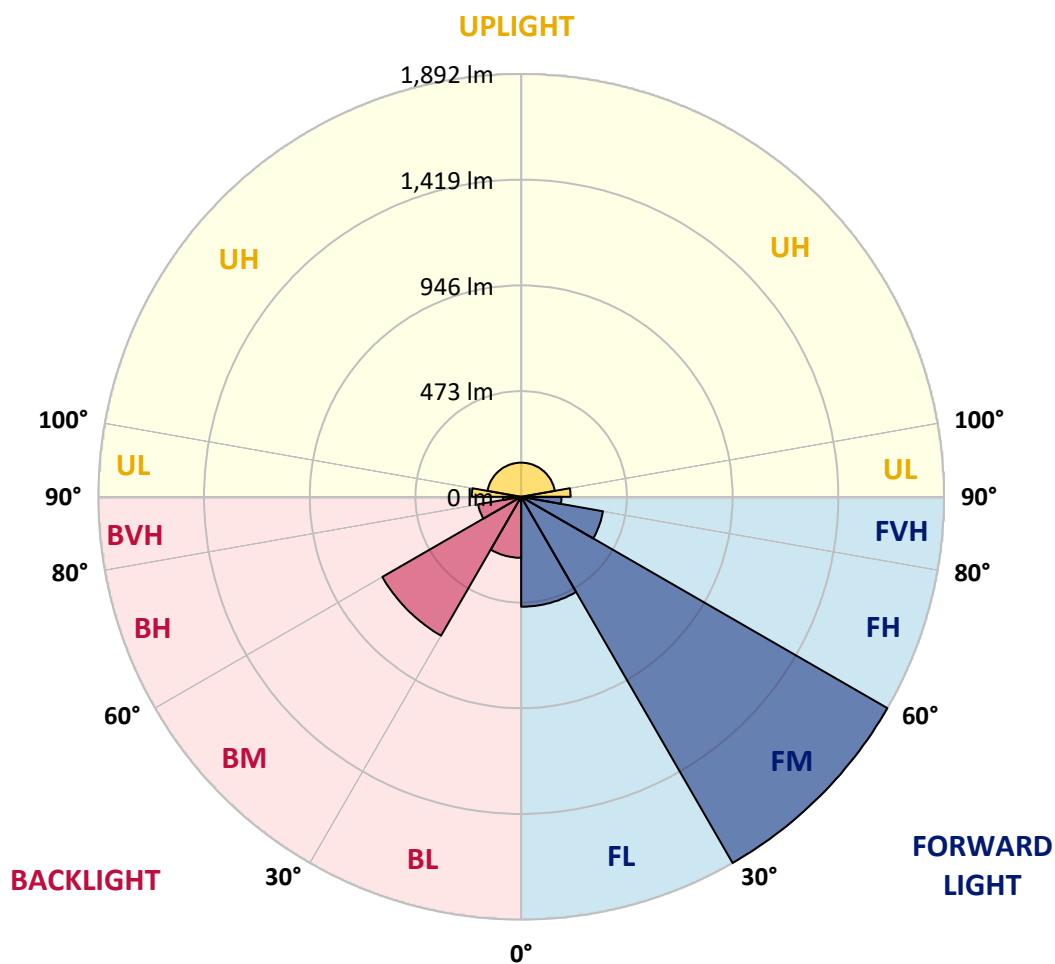
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.8	10.2			
FM	(30°-60°)	1891.6	39.3			
FH	(60°-80°)	371.8	7.7			G0/660
FVH	(80°-90°)	180.5	3.8			G2/225
BL	(0°-30°)	272.9	5.7	B1/500		
BM	(30°-60°)	717.1	14.9	B1/1000		
BH	(60°-80°)	195.4	4.1	B1/500		G1/500
BVH	(80°-90°)	81.5	1.7			G1/100
UL	(90°-100°)	221.0	4.6		U3/500	
UH	(100°-180°)	152.7	3.2		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°	69°	75°	85°
0°	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3
2.5°	589.3	586.1	584.6	584.6	582.7	582.1	583.4	581.5	578.1	577.5	573.6
5°	630.5	629.3	628.5	633.8	638.3	639.8	638.3	638.3	634.5	634.5	622.0
7.5°	696.6	694.7	699.9	713.1	717.6	731.4	747.7	737.9	740.6	733.3	709.8
10°	773.4	769.9	794.2	811.9	852.5	869.5	890.5	888.6	884.7	872.2	832.9
12.5°	842.7	840.8	872.2	936.4	990.7	1045.6	1050.2	1005.1	984.7	940.3	891.1
15°	929.0	931.1	978.9	1069.9	1150.4	1172.6	1117.0	1028.0	990.0	944.2	871.4
17.5°	1068.5	1075.1	1156.3	1259.8	1313.4	1223.8	1104.6	1002.4	966.3	916.6	846.7
20°	1149.7	1153.7	1265.0	1405.0	1420.8	1275.5	1151.6	1041.8	1010.2	971.0	913.3
22.5°	1198.2	1212.6	1340.4	1511.8	1502.7	1396.0	1224.4	1120.2	1081.0	1027.3	980.2
25°	1276.1	1286.6	1409.0	1574.6	1534.0	1435.2	1289.2	1150.4	1111.7	1072.4	1025.3
27.5°	1381.6	1391.4	1528.8	1624.5	1581.8	1487.7	1386.2	1297.1	1276.9	1270.3	1249.9
30°	1437.8	1444.4	1599.0	1679.4	1606.8	1563.0	1534.8	1463.3	1457.5	1444.4	1397.9
32.5°	1469.9	1494.8	1674.3	1720.8	1625.8	1620.5	1637.5	1593.7	1581.8	1559.5	1505.9
35°	1498.7	1511.2	1680.1	1750.7	1656.6	1653.9	1771.1	1791.4	1765.2	1719.4	1591.1
37.5°	1720.8	1726.6	1842.5	1817.6	1697.1	1711.5	1904.6	2010.0	1986.5	1929.6	1841.2
40°	1841.2	1851.6	1959.1	1907.3	1782.9	1799.2	2001.0	2219.6	2240.6	2238.5	2161.3
42.5°	1747.6	1758.6	1911.2	1938.7	1852.9	1864.2	2063.8	2296.2	2329.7	2226.8	2048.8
45°	2052.6	2061.3	2146.9	1945.9	1805.1	1847.8	2014.7	2240.6	2270.6	2240.6	2088.0
47.5°	2052.0	2041.5	2113.0	1966.2	1801.9	1773.1	1907.9	2133.8	2193.4	2124.8	1959.1
50°	1803.8	1803.2	1979.3	1894.9	1766.5	1699.8	1790.7	1969.5	1983.8	1903.4	1681.4
52.5°	1575.4	1574.0	1777.7	1734.4	1650.6	1585.1	1641.5	1819.5	1874.6	1803.8	1618.6
55°	1373.0	1429.4	1608.1	1515.8	1481.0	1416.3	1472.5	1516.3	1488.2	1291.9	871.4
57.5°	831.6	893.8	1126.8	1193.6	1201.5	1155.0	1027.3	877.4	823.7	658.0	392.9
60°	387.6	402.7	591.3	719.5	878.1	802.7	649.6	565.8	565.8	496.9	341.1
62.5°	273.1	283.5	388.2	464.2	525.8	518.5	460.9	472.8	496.4	465.5	328.7
65°	256.6	263.3	345.7	368.7	392.2	396.8	389.0	425.0	449.8	445.9	333.4
67.5°	238.3	246.9	315.6	330.7	349.0	357.4	363.4	405.2	431.5	445.9	346.3
70°	216.8	226.6	291.4	312.3	329.9	349.6	356.8	402.0	428.9	443.3	351.0
72.5°	196.4	205.0	259.3	285.5	316.9	339.7	368.7	396.2	414.5	429.5	353.6
75°	176.7	186.6	232.4	262.6	299.2	342.4	377.2	397.4	409.8	421.7	350.2
77.5°	163.8	174.2	210.2	244.9	288.7	348.4	387.6	413.8	420.9	423.0	346.3
80°	152.0	163.8	201.7	238.3	286.1	351.0	400.0	431.5	441.2	445.9	368.7
82.5°	160.3	170.9	203.6	248.1	294.6	350.2	396.8	446.5	457.6	455.0	375.9
85°	181.4	189.9	229.8	271.6	307.7	344.4	385.1	439.4	455.0	468.7	398.0
87.5°	220.7	224.5	253.4	291.9	321.5	333.4	373.9	425.0	439.4	443.9	387.6
90°	241.6	245.5	279.6	311.6	320.9	324.7	333.4	384.4	394.9	413.1	370.6
92.5°	265.8	265.8	301.2	320.2	320.2	303.7	309.6	355.5	373.2	383.7	344.4
95°	289.4	288.0	307.7	318.9	301.8	279.0	288.7	324.7	335.8	347.0	320.2
97.5°	296.6	295.9	307.7	301.2	273.1	251.4	263.8	294.6	306.4	318.2	290.7
100°	288.7	285.5	288.7	274.3	248.1	231.9	238.9	264.6	276.9	286.7	261.9
102.5°	271.6	269.8	271.1	256.6	229.2	209.6	219.4	246.1	255.4	263.3	240.9
105°	263.8	260.6	254.7	233.7	206.9	193.1	201.7	228.4	237.1	252.8	234.4
107.5°	224.5	221.9	217.4	206.3	192.4	182.0	189.3	208.1	213.4	221.3	204.3
110°	193.9	192.4	191.2	188.6	180.1	172.8	176.7	187.2	193.9	199.8	182.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	187.2	185.3	184.1	179.4	168.3	160.3	163.0	174.8	178.8	180.6	162.4
115°	178.8	176.7	169.6	163.0	155.1	151.3	152.0	161.8	164.3	165.6	154.5
117.5°	158.5	156.5	152.0	149.3	144.6	142.7	146.1	151.3	152.0	152.5	142.7
120°	146.7	146.1	143.4	138.8	135.6	131.0	136.3	141.5	143.4	145.3	138.8
122.5°	133.6	132.3	129.6	123.7	123.7	121.1	120.5	123.7	124.4	129.6	126.4
125°	117.9	116.5	113.9	108.7	115.3	115.3	110.6	103.5	105.5	110.0	107.3
127.5°	105.5	104.2	101.5	98.9	108.1	111.3	103.5	90.4	91.6	93.0	91.0
130°	103.5	102.1	98.9	94.3	96.8	106.7	93.0	82.6	84.5	85.8	84.5
132.5°	101.5	100.8	96.3	90.4	87.0	96.3	80.6	78.0	79.9	81.8	80.6
135°	95.0	94.3	90.4	81.8	72.7	77.3	64.1	68.1	71.3	74.0	72.7
137.5°	84.5	83.8	80.6	72.0	59.6	55.7	49.0	58.3	60.8	64.1	64.1
140°	68.1	67.5	64.1	55.7	42.0	29.5	31.4	44.6	47.2	51.1	51.7
142.5°	49.8	48.5	45.2	37.3	23.5	9.8	17.6	26.9	30.2	34.0	36.7
145°	34.0	33.3	28.8	22.3	11.0	1.3	7.8	16.3	18.3	20.9	23.5
147.5°	21.6	21.6	18.3	12.4	3.2	1.3	1.9	8.5	10.5	13.0	15.0
150°	13.0	13.0	9.8	4.0	0.7	0.7	0.7	1.3	3.2	5.8	7.8
152.5°	3.2	3.2	1.9	1.3	0.7	0.0	0.7	0.7	0.7	0.7	1.3
155°	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.7	0.0	0.7	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°	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3
2.5°	571.6	567.6	562.3	555.2	548.1	540.8	533.7	529.7	527.8	526.4	525.8
5°	618.8	610.2	596.5	577.5	554.0	540.2	530.4	518.5	510.6	508.1	506.1
7.5°	701.8	688.1	660.7	620.0	591.3	550.7	515.9	493.7	477.3	468.1	468.1
10°	813.1	793.6	745.8	690.1	616.1	544.7	491.1	450.5	431.5	423.6	421.7
12.5°	862.4	843.2	787.0	722.1	643.6	560.5	492.5	443.9	420.9	411.9	413.1
15°	837.4	811.2	762.8	701.8	640.3	588.0	531.0	470.7	431.5	420.9	424.3
17.5°	812.5	785.7	733.9	666.5	606.3	571.6	531.6	491.1	453.7	438.7	436.0
20°	885.2	865.5	795.4	719.0	628.5	540.8	512.7	494.3	481.9	482.6	476.7
22.5°	954.5	927.8	863.6	773.9	676.3	599.8	554.0	529.7	515.9	521.8	522.5
25°	1001.2	980.8	885.9	778.6	697.4	640.3	574.2	540.2	517.2	517.2	514.5
27.5°	1237.4	1187.1	1036.5	872.2	751.1	656.8	576.8	537.5	508.7	500.3	501.6
30°	1361.2	1311.4	1139.3	939.5	812.5	695.9	584.1	523.2	515.9	510.1	512.0
32.5°	1467.3	1394.0	1190.3	957.2	801.4	701.8	599.8	526.4	491.7	485.9	488.5
35°	1519.8	1437.8	1230.9	973.0	806.7	677.1	580.8	512.7	490.5	484.5	486.5
37.5°	1761.2	1638.9	1295.0	996.5	805.3	644.3	555.2	500.3	458.9	441.2	441.2
40°	2039.0	1858.9	1407.0	995.2	755.6	616.1	527.0	476.0	443.3	429.5	428.9
42.5°	1894.9	1723.3	1341.6	965.8	707.1	565.0	511.3	465.5	430.2	420.9	419.0
45°	1955.2	1771.7	1294.5	883.3	634.5	524.5	474.0	442.0	401.4	380.4	379.8
47.5°	1763.9	1616.6	1198.2	778.6	571.6	460.9	429.5	408.5	383.0	365.3	363.4
50°	1530.2	1381.6	1008.3	690.1	487.2	408.5	387.0	376.5	351.0	330.7	332.0
52.5°	1462.0	1282.1	878.7	602.4	419.0	356.2	345.7	333.9	308.4	284.9	287.5
55°	724.8	600.3	534.3	468.1	351.5	309.6	305.2	297.9	272.4	252.1	252.8
57.5°	337.9	291.4	255.4	271.6	265.2	269.1	267.2	262.6	238.3	209.6	207.6
60°	302.5	259.3	216.8	205.6	218.0	235.0	233.7	219.4	188.6	154.5	150.6
62.5°	291.9	248.1	210.2	193.9	199.1	210.2	202.3	184.1	159.1	127.6	127.0
65°	297.2	250.7	209.6	189.3	193.1	197.7	186.6	173.6	158.5	136.8	136.8
67.5°	308.4	260.6	214.1	187.2	189.3	193.9	183.3	174.2	166.2	152.0	152.0
70°	311.6	265.2	216.8	187.9	185.9	189.9	182.6	174.2	169.6	157.8	157.2
72.5°	313.0	267.8	215.5	184.6	180.1	183.3	178.1	174.2	172.1	163.0	161.8
75°	307.1	265.2	208.9	177.4	172.8	174.2	172.8	172.1	174.8	168.9	166.9
77.5°	299.9	261.2	203.6	169.6	164.3	165.0	163.8	165.6	168.3	164.3	161.1
80°	314.9	272.4	204.3	163.8	153.9	150.6	151.3	153.3	156.5	148.0	143.4
82.5°	320.2	273.1	195.1	150.6	138.2	133.6	134.8	140.1	142.7	134.8	130.3
85°	339.7	285.5	188.6	138.8	124.4	119.8	121.1	124.4	123.1	113.9	110.0
87.5°	332.0	276.9	176.7	125.0	113.2	109.4	110.0	111.3	106.7	95.0	91.6
90°	320.9	267.2	163.8	110.0	100.3	98.9	97.6	95.6	87.8	75.3	72.0
92.5°	300.6	249.5	152.0	99.5	89.0	88.5	86.4	82.6	75.3	62.8	59.6
95°	283.5	233.7	140.8	91.0	79.9	77.3	77.3	73.3	65.4	54.9	53.7
97.5°	255.4	212.8	129.6	83.8	71.3	68.7	68.1	65.4	59.6	51.7	51.1
100°	231.1	192.4	117.9	75.9	64.1	61.5	60.2	58.8	54.3	49.8	49.8
102.5°	214.1	178.1	110.0	69.3	57.6	54.9	54.9	53.7	51.1	47.8	47.8
105°	209.6	174.8	106.7	63.5	51.1	49.8	50.5	50.5	48.5	46.5	46.5
107.5°	182.0	150.6	91.6	56.4	46.5	45.2	45.9	46.5	45.9	45.2	45.2
110°	162.4	136.8	85.1	53.0	43.8	42.0	42.0	42.0	42.0	42.6	43.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	145.3	121.8	78.0	50.5	41.2	39.3	38.6	38.0	37.3	40.0	40.0
115°	138.8	118.4	75.9	49.0	39.3	37.3	35.4	34.0	32.8	34.8	35.4
117.5°	128.9	111.3	74.0	49.0	38.6	35.4	33.3	31.4	29.5	31.4	31.4
120°	126.4	110.6	75.3	49.8	37.3	32.8	30.8	28.1	26.9	28.8	29.5
122.5°	116.5	103.5	71.3	47.2	36.0	31.4	29.5	24.3	24.3	25.5	26.2
125°	98.9	87.8	61.5	42.6	34.0	31.4	28.8	21.6	22.3	23.5	23.5
127.5°	84.5	75.9	56.4	41.2	34.8	32.1	26.9	20.3	21.6	23.5	23.5
130°	79.9	72.7	57.0	43.2	36.0	32.8	22.3	17.6	20.9	22.8	22.8
132.5°	76.6	70.6	57.0	45.2	37.3	30.2	17.6	15.7	17.6	19.0	19.0
135°	69.3	65.4	54.3	43.2	34.0	23.5	14.5	13.7	16.3	17.6	17.6
137.5°	62.3	58.3	49.8	40.0	30.2	19.0	10.5	12.4	13.7	15.0	15.0
140°	51.1	48.5	41.2	32.8	22.3	10.5	7.8	9.8	11.8	13.0	13.0
142.5°	36.0	34.8	28.8	20.9	12.4	4.0	5.2	7.1	8.5	9.8	9.8
145°	23.5	22.3	18.3	13.0	5.2	1.3	3.2	4.6	6.6	7.1	7.1
147.5°	15.0	14.5	11.0	6.6	1.9	1.3	1.3	3.2	5.2	5.8	5.8
150°	7.1	6.6	4.6	1.9	1.3	0.7	0.7	1.3	3.2	4.0	4.0
152.5°	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.7	0.7	1.3	1.3
155°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.7	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	0.7	0.7	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)