

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: P266474

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
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-T2U-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5972.3 lumens
Efficiency: N/A
Efficacy: 72.0 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: B2 - U3 - G2

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



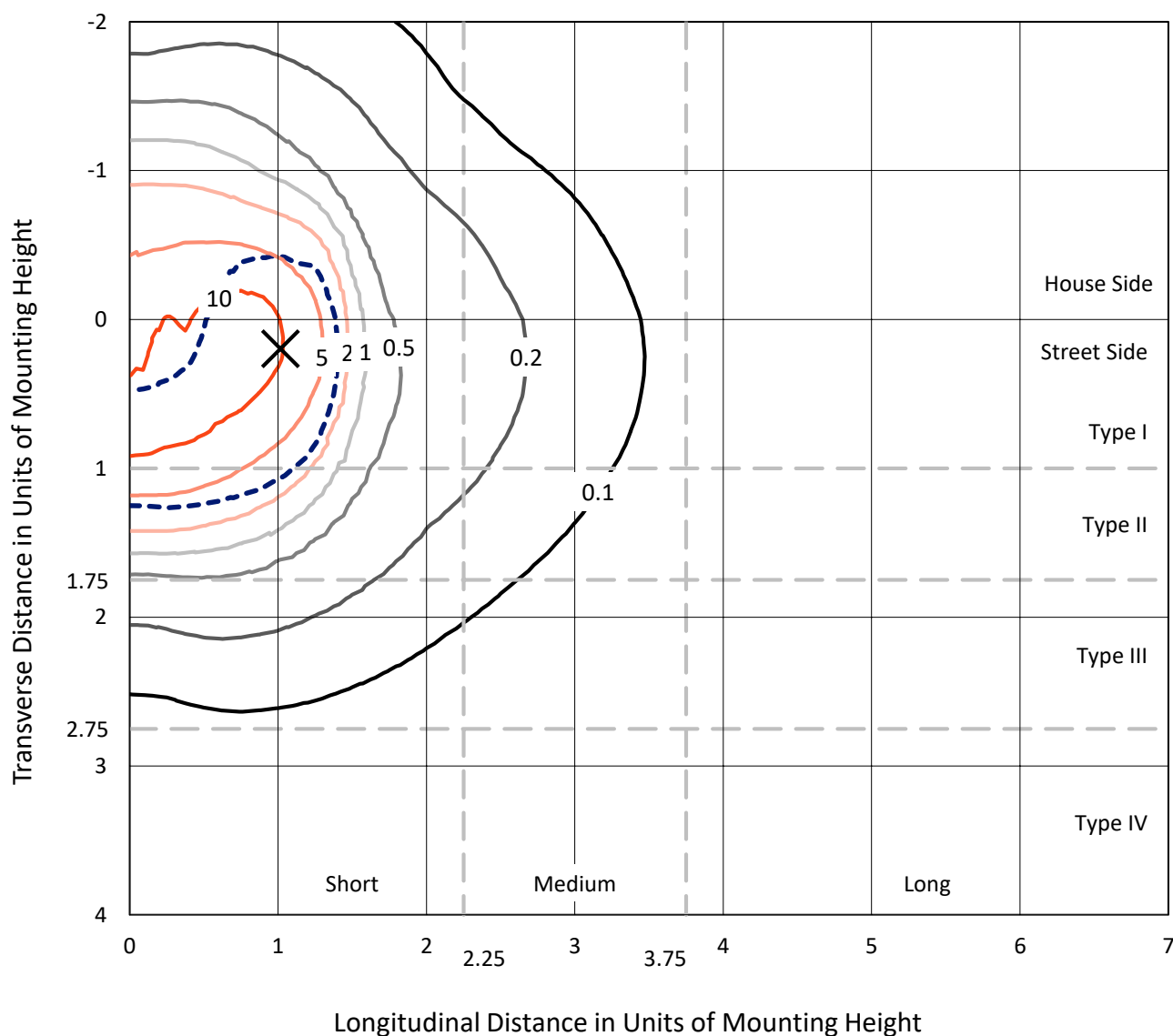
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

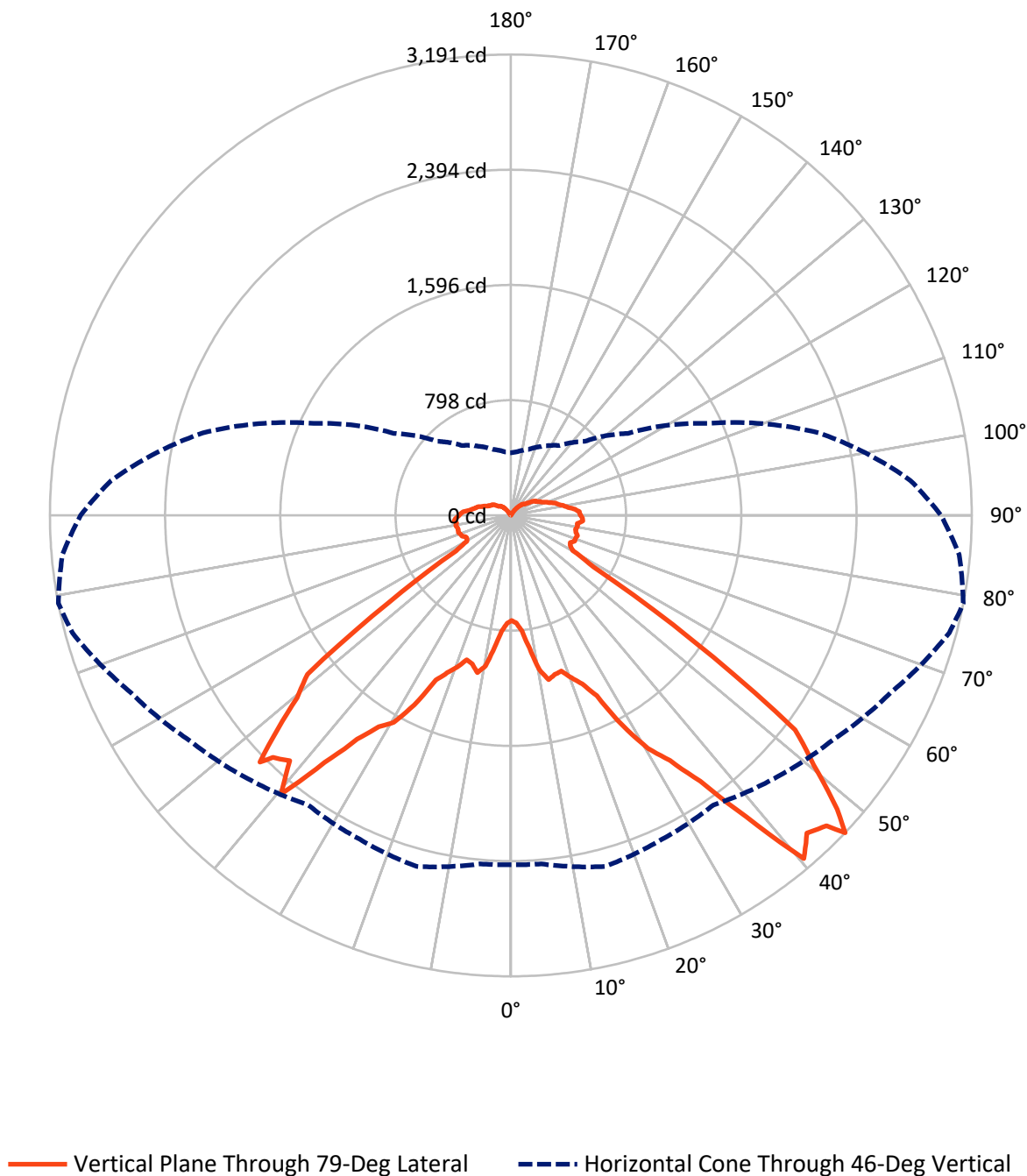


Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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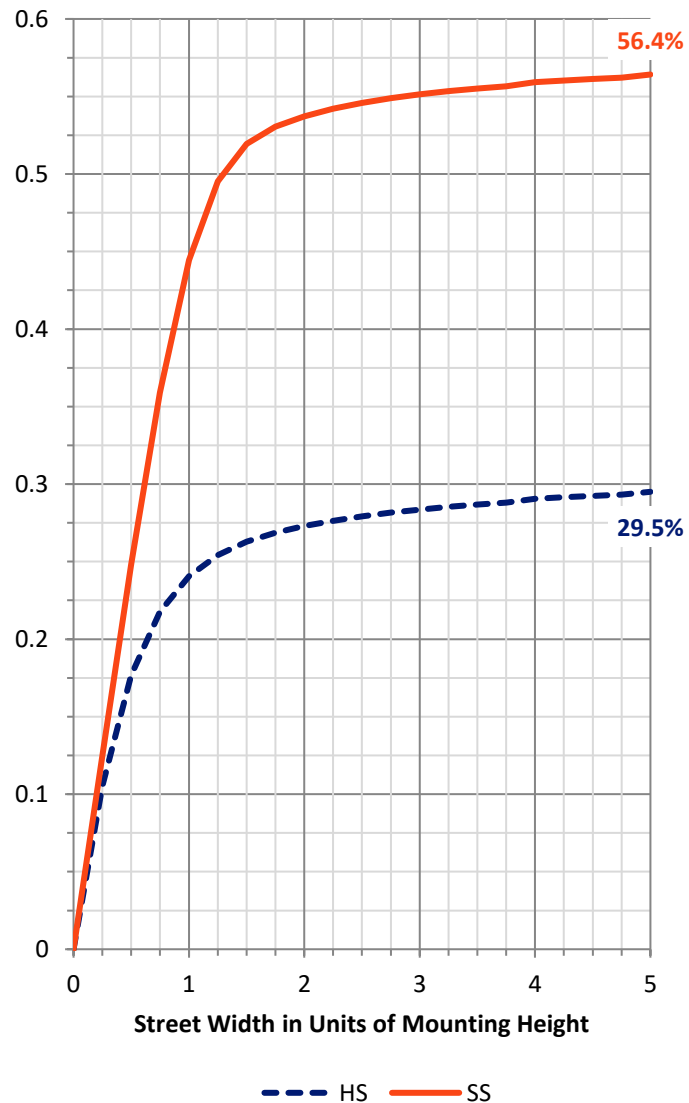
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1820.5	226.4	2046.9
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	3434.2	491.2	3925.4
	% Fixture	57.5	8.2	65.7
Total	Lumens	5254.7	717.6	5972.3
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.3
10°-20°	283.7	4.8
20°-30°	573.2	9.6
30°-40°	1049.4	17.6
40°-50°	1450.2	24.3
50°-60°	925.6	15.5
60°-70°	331.6	5.6
70°-80°	297.7	5.0
80°-90°	264.7	4.4
90°-100°	242.9	4.1
100°-110°	188.8	3.2
110°-120°	131.0	2.2
120°-130°	87.7	1.5
130°-140°	52.6	0.9
140°-150°	14.0	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5254.7	88.0
0°-180°	5972.3	100.0

Coefficient of Utilization



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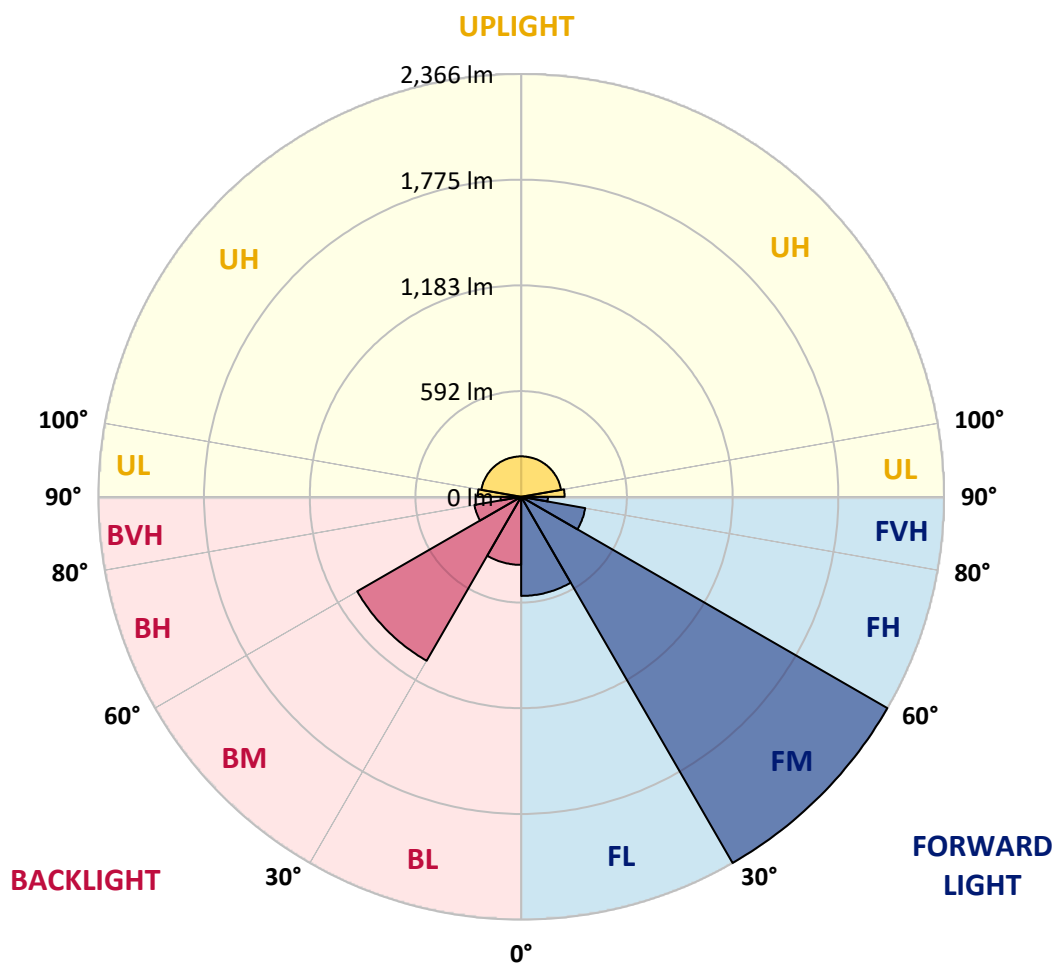
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	554.7	9.3			
FM	(30°-60°)	2366.0	39.6			
FH	(60°-80°)	363.9	6.1			G0/660
FVH	(80°-90°)	149.5	2.5			G2/225
BL	(0°-30°)	380.7	6.4	B1/500		
BM	(30°-60°)	1059.2	17.7	B2/2500		
BH	(60°-80°)	265.4	4.4	B1/500		G1/500
BVH	(80°-90°)	115.2	1.9			G2/225
UL	(90°-100°)	242.9	4.1		U3/500	
UH	(100°-180°)	226.4	3.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	739.9	742.3	741.6	739.9	743.2	744.8	744.8	743.9	744.8	746.3	749.5
5°	775.1	774.3	776.9	783.2	792.0	794.5	801.6	800.0	804.1	804.1	808.8
7.5°	837.0	837.7	845.8	852.1	861.7	882.7	902.6	929.0	928.3	926.7	933.1
10°	901.1	901.1	917.1	940.3	979.6	1023.7	1042.9	1066.2	1090.3	1086.2	1079.9
12.5°	921.1	924.3	952.4	1010.1	1095.0	1170.4	1208.8	1204.1	1180.1	1166.4	1144.8
15°	958.0	961.9	992.4	1080.7	1181.6	1249.0	1263.3	1204.1	1151.9	1142.4	1123.9
17.5°	1096.7	1096.7	1127.9	1208.8	1285.0	1269.8	1212.9	1184.9	1151.2	1132.8	1106.4
20°	1192.9	1198.5	1248.1	1305.1	1346.7	1297.2	1298.0	1245.8	1211.4	1200.0	1175.3
22.5°	1285.8	1293.9	1308.3	1397.3	1409.4	1419.0	1390.0	1342.7	1285.0	1266.6	1241.0
25°	1483.0	1485.4	1500.7	1543.2	1511.0	1495.0	1453.4	1414.9	1392.5	1382.9	1355.6
27.5°	1717.1	1710.0	1716.3	1719.5	1670.7	1626.6	1565.7	1606.4	1638.6	1647.4	1623.3
30°	1765.3	1753.2	1802.1	1854.2	1830.1	1777.2	1773.3	1822.1	1882.3	1871.1	1837.5
32.5°	1959.3	1940.8	1963.2	1968.8	1964.9	1949.6	1943.3	2004.9	2048.2	2023.4	1974.5
35°	2115.6	2114.8	2035.4	2053.9	2065.1	2100.3	2135.6	2219.8	2258.2	2259.9	2219.0
37.5°	2449.9	2425.9	2396.1	2279.1	2217.3	2233.5	2355.3	2504.4	2590.9	2647.8	2582.9
40°	2564.5	2574.9	2550.1	2537.3	2447.4	2409.8	2550.1	2806.6	3041.5	3124.8	3116.8
42.5°	2376.0	2400.1	2385.7	2474.7	2546.1	2594.1	2763.2	2982.9	3027.8	3006.2	2891.6
45°	2533.2	2533.2	2494.8	2439.4	2464.3	2620.6	2754.6	2902.9	3043.1	3065.6	3002.1
46°	2419.3	2421.8	2516.4	2474.7	2446.7	2576.5	2716.0	2902.9	3142.5	3191.4	3116.8
47.5°	2209.3	2205.3	2379.3	2392.9	2412.2	2518.8	2671.9	2902.0	3037.4	3040.7	2947.7
50°	1750.7	1758.1	1996.9	2123.7	2250.3	2355.3	2562.1	2692.0	2722.5	2716.8	2615.9
52.5°	1421.4	1440.6	1567.3	1726.7	1880.0	2081.9	2322.4	2443.4	2510.0	2465.8	2373.0
55°	985.3	1026.9	1186.4	1329.9	1554.3	1748.5	1956.0	1967.3	1663.4	1524.8	1352.4
57.5°	609.3	617.2	758.3	961.1	1129.4	1281.8	1284.2	998.0	776.9	674.9	561.1
60°	338.3	345.5	470.6	620.5	784.8	803.3	717.4	577.3	517.9	491.5	451.3
62.5°	251.7	257.4	339.1	431.2	497.0	523.5	481.9	472.1	473.0	460.9	434.5
65°	226.8	230.1	297.3	344.0	382.4	388.0	403.2	436.8	455.4	452.9	441.6
67.5°	206.0	210.1	271.0	304.6	327.9	355.1	367.9	420.0	469.8	477.8	467.4
70°	183.6	190.0	244.5	279.8	306.2	332.7	358.3	423.3	463.3	474.6	469.8
72.5°	158.7	166.7	212.4	249.3	279.0	307.8	352.0	407.2	461.8	481.9	485.1
75°	139.4	149.8	187.6	220.4	251.7	286.2	332.7	401.6	452.9	465.7	472.1
77.5°	125.9	137.1	165.9	196.4	226.1	263.7	317.5	400.0	444.1	458.6	469.8
80°	115.4	126.8	150.7	174.8	199.7	242.2	301.4	397.6	452.9	468.1	474.6
82.5°	107.3	117.9	138.7	160.3	180.4	218.8	290.2	393.5	450.5	463.3	466.6
85°	108.2	116.2	135.5	155.5	173.9	206.8	284.7	395.3	480.2	500.3	503.4
87.5°	113.8	119.5	139.4	162.8	183.6	217.2	295.1	392.0	477.0	495.4	503.4
90°	123.4	128.3	152.4	179.7	204.5	235.6	292.6	383.1	463.3	480.2	485.1
92.5°	153.2	157.2	183.6	213.3	234.8	245.2	283.0	396.8	465.7	475.5	475.5
95°	197.9	202.7	228.4	250.9	254.8	249.3	278.1	352.8	424.9	445.6	457.7
97.5°	247.8	249.3	263.7	267.8	255.7	242.9	271.7	329.5	385.6	400.0	403.2
100°	263.7	263.7	273.4	270.2	246.9	229.2	246.1	299.9	354.3	370.5	375.2
102.5°	266.9	268.6	278.1	267.8	236.6	207.6	218.8	270.2	320.6	338.3	348.0
105°	283.0	283.8	278.1	252.6	214.1	188.4	197.9	249.3	303.0	319.8	330.2
107.5°	264.6	262.1	246.9	222.9	197.2	178.8	190.0	227.7	268.6	282.2	289.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	218.8	217.2	211.6	202.7	186.8	173.2	180.4	214.9	254.1	264.6	271.0
112.5°	210.8	209.2	203.6	193.1	174.8	164.3	176.3	206.0	230.1	234.8	235.6
115°	202.7	201.2	188.4	176.3	162.0	157.2	165.2	192.3	214.9	220.4	225.2
117.5°	174.8	173.2	163.5	156.3	150.7	153.2	166.7	181.9	197.9	202.7	206.0
120°	155.5	154.7	149.8	145.0	141.9	143.5	157.9	174.8	190.8	195.7	197.9
122.5°	146.8	146.0	140.2	133.0	133.0	133.0	144.3	157.2	174.8	178.8	184.4
125°	129.0	129.0	123.4	117.9	125.9	129.0	131.5	132.3	146.0	152.4	154.7
127.5°	114.7	115.4	110.6	106.5	121.0	128.3	126.8	116.2	124.2	129.0	132.3
130°	113.0	113.0	107.3	102.5	109.9	124.2	119.5	109.1	118.7	121.9	123.4
132.5°	109.9	109.9	104.3	96.9	98.6	114.7	104.3	101.8	110.6	113.8	114.7
135°	101.0	101.0	96.9	87.3	80.9	96.9	84.3	89.0	97.7	100.3	101.0
137.5°	89.8	89.8	85.8	77.8	64.0	72.9	64.9	75.4	84.3	86.5	87.3
140°	73.8	72.9	70.5	60.9	46.5	41.0	44.0	60.1	68.9	70.5	72.9
142.5°	54.4	55.3	51.4	43.3	28.0	15.2	25.6	38.4	48.1	50.6	52.1
145°	40.1	39.3	35.3	28.0	15.2	2.4	12.0	24.1	30.5	32.9	34.5
147.5°	26.5	26.5	23.3	16.9	4.9	0.8	3.2	12.0	19.3	20.8	21.6
150°	17.6	17.6	12.8	4.9	0.8	0.8	0.8	2.4	8.1	9.6	11.1
152.5°	5.6	5.6	2.4	1.5	0.8	0.0	0.0	0.8	1.5	1.5	2.4
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	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°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	750.4	749.5	747.1	744.8	738.3	730.3	722.2	716.7	713.4	711.1	710.3
5°	807.2	808.8	797.7	779.2	761.6	745.6	730.3	715.9	707.9	701.4	699.1
7.5°	928.3	930.7	908.2	879.4	834.5	780.0	733.6	702.2	679.7	666.2	663.8
10°	1078.2	1071.8	1045.4	983.6	901.9	817.6	730.3	662.9	626.8	610.0	609.3
12.5°	1139.1	1130.3	1100.7	1049.4	963.6	853.7	745.6	656.5	602.9	581.3	580.3
15°	1111.2	1095.8	1041.3	994.1	960.4	899.5	802.5	700.7	626.8	599.7	592.4
17.5°	1087.0	1071.8	1026.1	958.0	894.6	868.2	821.0	736.7	659.7	621.3	613.3
20°	1157.6	1147.9	1091.0	1000.4	930.7	825.0	786.5	728.7	670.9	646.9	640.5
22.5°	1222.6	1217.7	1146.3	1051.7	958.0	884.2	807.2	764.7	708.7	691.9	684.6
25°	1343.5	1321.1	1204.1	1076.6	995.6	923.5	825.0	758.3	690.2	668.6	664.6
27.5°	1628.2	1576.0	1405.3	1213.7	1050.9	936.4	823.2	725.6	650.9	623.8	622.0
30°	1809.4	1762.0	1569.7	1358.7	1137.6	966.8	812.8	695.0	639.0	612.5	613.3
32.5°	1919.1	1855.8	1639.3	1372.4	1157.6	982.0	819.3	684.6	609.3	575.5	574.7
35°	2157.3	2069.1	1754.7	1482.3	1196.9	959.6	792.0	662.9	593.2	568.4	565.2
37.5°	2496.4	2396.9	1971.3	1571.2	1212.9	929.9	756.7	638.2	554.8	520.3	517.9
40°	2986.1	2840.4	2271.1	1678.7	1200.0	907.5	718.3	600.4	531.4	509.1	501.9
42.5°	2743.2	2578.1	2092.3	1657.8	1167.9	845.8	681.5	582.0	517.9	500.3	490.7
45°	2894.8	2702.5	2114.0	1541.6	1045.4	754.3	618.9	545.1	481.0	456.1	453.7
46°	2979.0	2777.6	2207.8	1506.3	989.3	725.6	590.8	528.4	473.0	440.9	433.7
47.5°	2796.2	2572.4	2029.8	1437.4	944.4	660.6	554.0	501.9	464.2	434.5	429.7
50°	2452.3	2233.5	1755.6	1225.7	812.8	582.8	493.8	462.5	424.9	392.7	387.2
52.5°	2238.2	2054.7	1607.2	1111.9	690.2	491.5	440.9	413.7	375.2	337.6	332.7
55°	1230.6	1103.8	993.3	835.3	572.4	415.2	383.9	367.9	328.7	291.8	289.4
57.5°	506.6	455.4	451.3	425.6	393.5	349.5	331.8	322.2	283.0	238.1	236.6
60°	426.4	380.1	335.1	295.1	292.6	291.8	286.2	269.3	226.1	179.7	178.0
62.5°	415.2	369.6	325.5	276.6	255.7	262.1	251.7	230.9	197.9	153.2	151.5
65°	423.3	376.0	323.8	268.6	246.1	248.6	237.3	221.3	198.9	166.7	165.2
67.5°	450.5	401.6	343.2	265.4	238.1	242.9	234.8	222.9	210.1	190.0	185.9
70°	454.5	411.2	344.0	266.9	229.2	234.8	232.5	222.1	213.3	195.7	193.1
72.5°	466.6	427.2	351.1	261.3	219.6	222.1	225.2	222.1	216.4	206.0	201.9
75°	455.4	420.9	348.0	256.6	210.1	208.4	216.4	220.4	222.1	218.1	213.3
77.5°	452.9	424.1	348.7	253.3	201.2	194.8	201.2	207.6	210.8	206.8	202.7
80°	456.1	431.2	359.1	254.1	191.6	175.6	178.8	185.9	186.8	179.7	173.9
82.5°	449.0	424.9	348.0	245.2	176.3	156.3	157.2	164.3	165.2	156.3	149.8
85°	481.0	452.1	356.0	234.1	160.3	142.7	143.5	146.8	141.9	132.3	125.9
87.5°	480.2	445.6	339.9	216.4	149.8	134.7	133.8	133.0	125.0	113.8	108.2
90°	463.3	427.2	318.3	190.8	132.3	123.4	121.0	116.2	105.0	92.2	88.2
92.5°	452.1	413.7	303.8	180.4	116.2	108.2	106.5	101.8	90.5	77.0	74.6
95°	440.1	402.4	279.8	157.9	102.5	94.6	92.2	87.3	78.5	67.4	65.8
97.5°	388.0	351.1	246.9	143.5	91.4	82.6	80.9	77.0	69.8	61.8	60.9
100°	358.3	325.5	229.2	131.5	81.7	72.1	71.3	68.9	64.0	58.5	57.8
102.5°	335.1	303.0	212.4	121.9	72.9	64.0	63.3	62.5	60.1	56.1	56.1
105°	317.5	287.0	203.6	113.8	65.8	58.5	57.8	57.8	55.3	52.9	52.9
107.5°	276.6	250.9	177.1	101.0	60.1	53.7	53.7	53.7	52.1	50.6	51.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	260.6	236.6	168.3	94.6	57.8	49.6	48.9	48.9	48.1	48.9	48.9
112.5°	224.4	203.6	148.3	90.5	56.1	47.3	44.8	43.3	41.7	43.3	44.0
115°	215.7	196.4	143.5	87.3	54.4	45.8	42.5	40.1	36.9	39.3	39.3
117.5°	197.9	180.4	133.0	85.0	54.4	43.3	40.1	37.6	34.5	36.1	36.1
120°	190.0	174.8	133.8	87.3	55.3	41.0	37.6	33.6	31.4	33.6	33.6
122.5°	178.8	165.2	125.9	82.6	52.9	40.1	36.9	28.8	27.3	29.6	29.6
125°	149.8	138.7	108.2	72.9	50.6	40.1	36.1	25.6	25.6	27.3	28.0
127.5°	127.5	118.7	93.9	68.1	51.4	42.5	34.5	22.5	24.1	26.5	26.5
130°	120.3	113.0	93.0	69.8	53.7	44.8	28.0	20.8	22.5	24.9	24.9
132.5°	112.2	105.8	89.8	71.3	54.4	42.5	23.3	19.3	20.8	22.5	22.5
135°	98.6	93.9	80.9	64.9	48.9	33.6	18.4	16.9	19.3	20.8	21.6
137.5°	86.5	82.6	71.3	58.5	44.0	28.8	12.8	15.2	16.9	17.6	18.4
140°	71.3	68.9	60.1	48.1	32.9	16.0	9.6	12.0	13.7	15.2	15.2
142.5°	52.1	50.6	42.5	31.4	20.0	6.4	6.4	8.9	10.4	12.0	12.0
145°	34.5	32.9	27.3	20.0	8.9	1.5	4.0	6.4	8.9	9.6	9.6
147.5°	21.6	20.8	16.9	10.4	3.2	1.5	1.5	4.9	6.4	7.2	7.2
150°	11.1	10.4	7.2	3.2	1.5	0.8	0.8	1.5	4.0	4.9	4.9
152.5°	2.4	2.4	1.5	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	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)