

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: P266470

Luminaire Tested: **UTLD-AF24-80-D-U-SL3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
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-SL3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5691.6 lumens
Efficiency: N/A
Efficacy: 68.6 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: B1 - 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



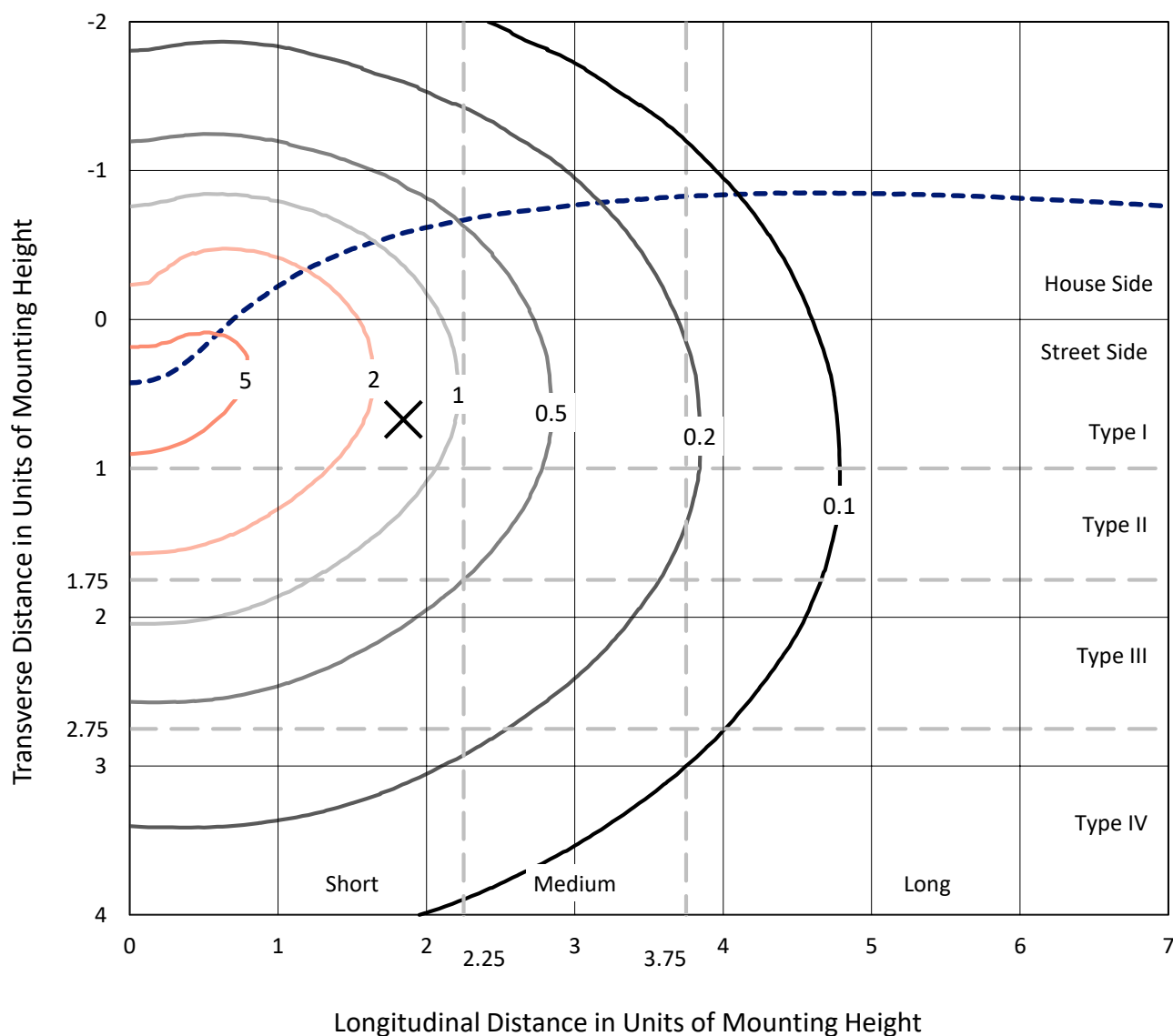
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

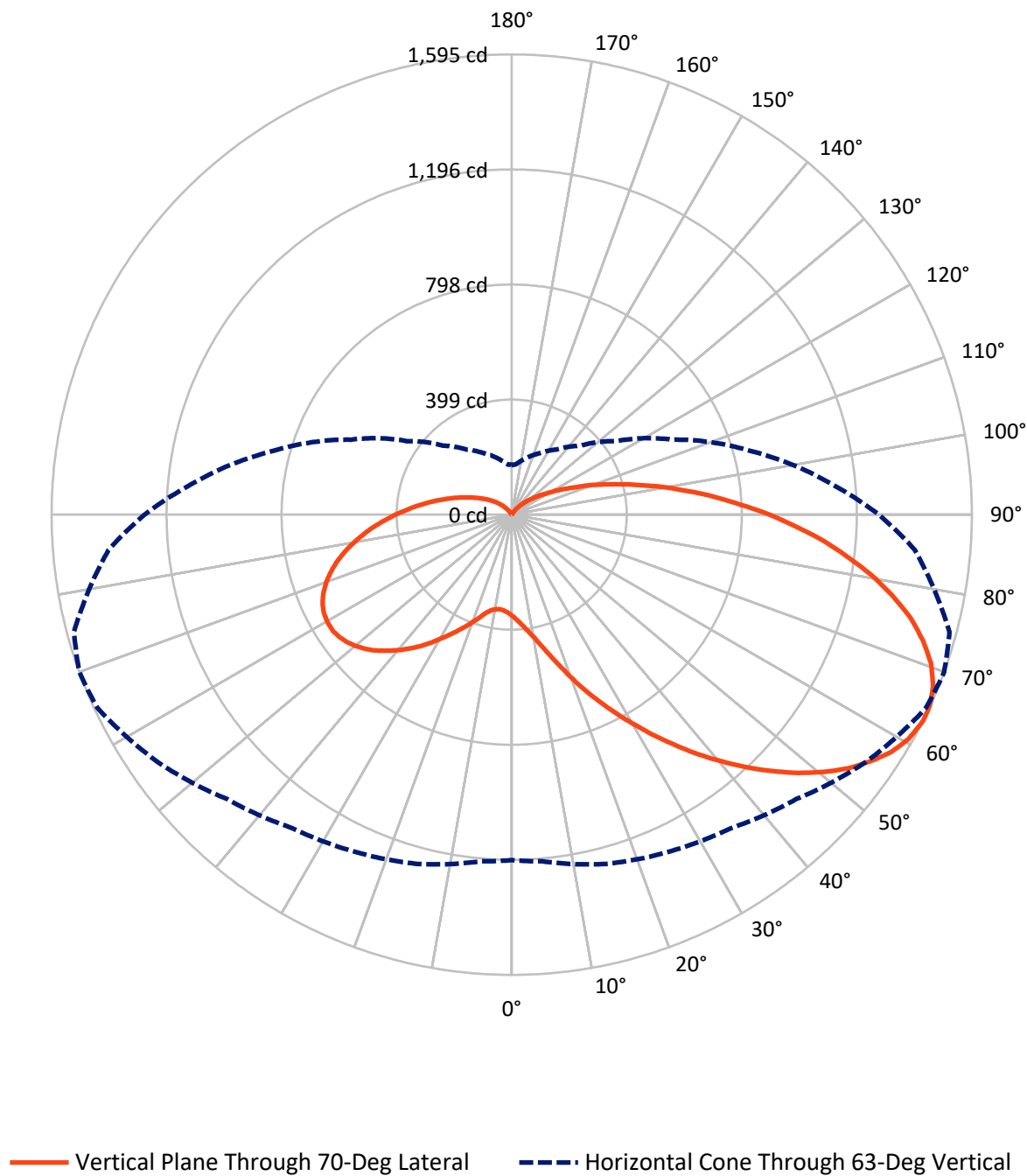


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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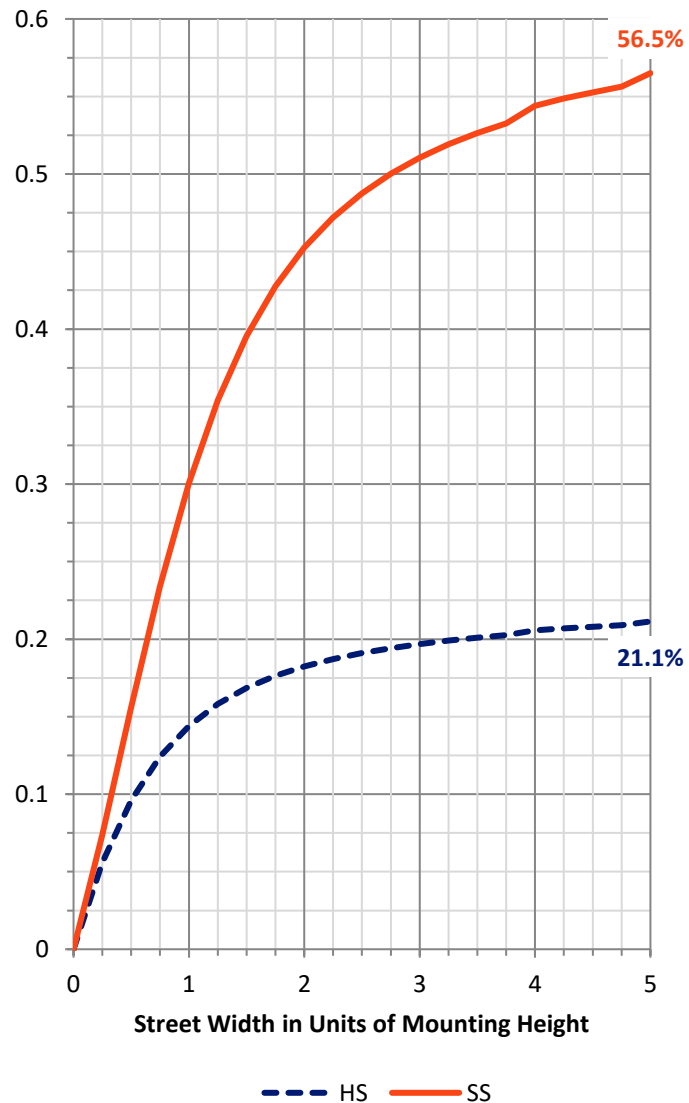
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.3	309.3	1587.7
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	3455.4	648.5	4103.9
	% Fixture	60.7	11.4	72.1
Total	Lumens	4733.8	957.8	5691.6
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	0.6
10°-20°	121.6	2.1
20°-30°	258.3	4.5
30°-40°	445.4	7.8
40°-50°	657.1	11.5
50°-60°	836.3	14.7
60°-70°	907.8	15.9
70°-80°	830.2	14.6
80°-90°	642.2	11.3
90°-100°	432.8	7.6
100°-110°	263.3	4.6
110°-120°	147.5	2.6
120°-130°	75.1	1.3
130°-140°	31.0	0.5
140°-150°	7.7	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4733.8	83.2
0°-180°	5691.6	100.0

Coefficient of Utilization



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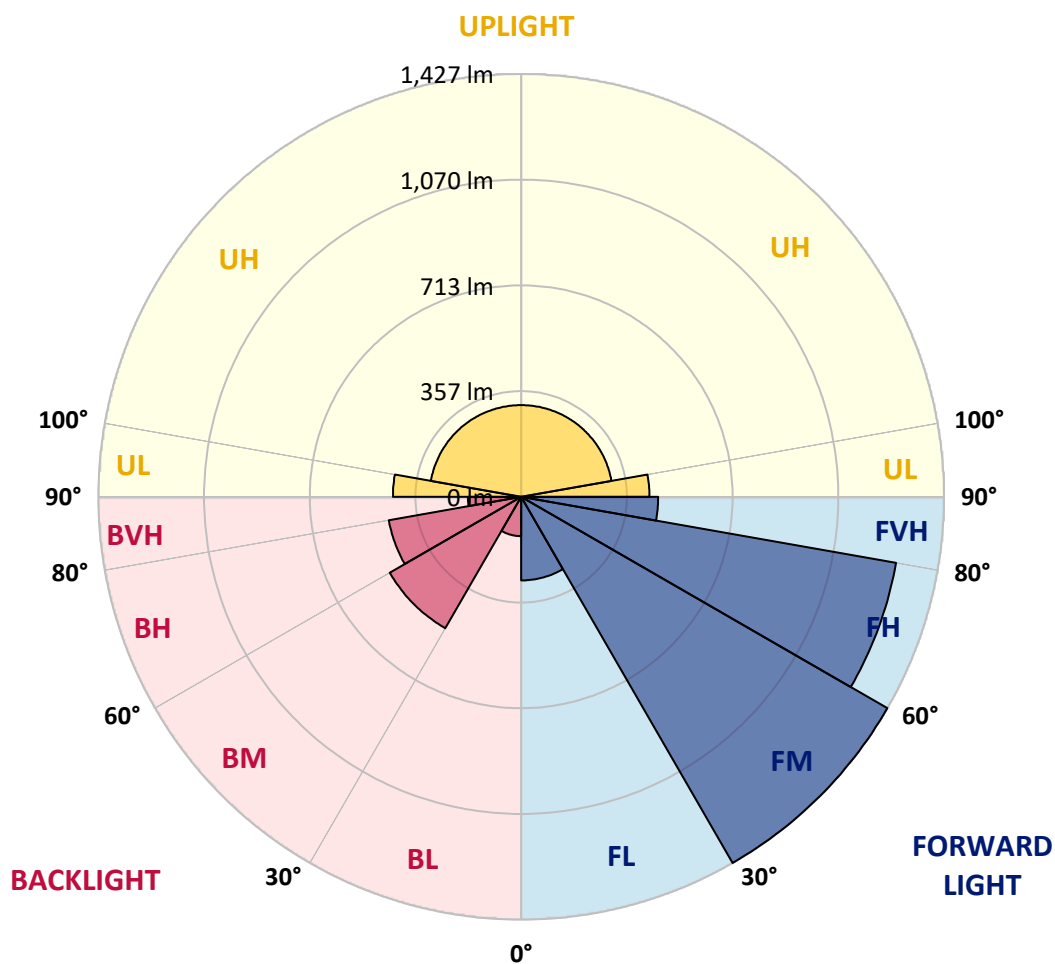
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.0	5.0			
FM	(30°-60°)	1426.8	25.1			
FH	(60°-80°)	1284.3	22.6			G1/1800
FVH	(80°-90°)	462.3	8.1			G3/500
BL	(0°-30°)	132.8	2.3	B1/500		
BM	(30°-60°)	512.1	9.0	B1/1000		
BH	(60°-80°)	453.6	8.0	B1/500		G1/500
BVH	(80°-90°)	179.9	3.2			G2/225
UL	(90°-100°)	432.8	7.6		U3/500	
UH	(100°-180°)	309.3	5.4		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1
2.5°	391.5	390.8	390.0	386.0	384.5	379.1	374.5	368.9	365.9	362.7	356.5
5°	432.5	430.9	428.8	424.8	417.8	410.0	400.7	390.0	384.5	378.2	365.9
7.5°	472.9	472.1	471.3	463.5	456.6	444.2	430.9	415.5	407.7	397.7	379.1
10°	517.1	518.6	513.9	507.0	495.3	482.2	465.1	444.2	434.2	423.2	398.5
12.5°	567.4	566.7	562.8	551.1	538.8	524.0	503.1	480.7	468.9	454.3	422.5
15°	618.7	615.5	610.8	603.1	587.6	570.6	548.1	522.5	509.2	493.0	457.3
17.5°	672.1	669.7	666.6	653.4	640.3	619.4	600.7	572.8	556.6	538.8	497.8
20°	725.7	724.0	720.1	710.1	693.9	675.2	657.4	627.8	609.3	587.6	541.0
22.5°	782.2	781.3	777.6	765.9	752.7	741.1	718.6	685.2	667.4	641.1	586.9
25°	840.3	841.1	834.0	823.2	814.0	803.1	779.8	745.0	723.2	696.0	634.8
27.5°	903.1	900.0	895.3	885.3	877.6	865.1	841.1	805.4	784.5	755.0	686.8
30°	961.2	961.9	951.9	945.7	940.3	928.7	906.2	869.7	846.6	819.3	741.1
32.5°	1024.0	1021.0	1013.9	1007.7	1003.9	991.5	970.4	938.8	915.6	881.3	796.1
35°	1079.0	1078.2	1070.5	1072.0	1061.9	1051.9	1036.5	1007.0	982.9	950.3	857.3
37.5°	1135.6	1134.1	1128.7	1130.2	1118.6	1110.8	1100.8	1075.2	1055.0	1021.7	920.9
40°	1189.1	1185.3	1181.5	1183.6	1175.2	1169.8	1164.4	1146.4	1125.5	1090.7	983.7
42.5°	1232.6	1231.8	1229.4	1233.4	1224.7	1223.2	1226.4	1217.1	1198.3	1162.8	1047.2
45°	1269.8	1269.8	1272.9	1275.1	1267.4	1269.8	1285.3	1282.9	1268.1	1232.6	1113.2
47.5°	1299.2	1298.4	1306.1	1309.3	1305.3	1314.0	1339.6	1350.3	1337.9	1304.6	1174.4
50°	1316.2	1316.2	1330.2	1334.2	1334.8	1351.1	1386.9	1410.8	1402.3	1370.5	1232.6
52.5°	1320.9	1322.5	1341.8	1350.3	1353.4	1379.1	1427.9	1464.2	1461.3	1431.0	1285.3
55°	1313.1	1315.5	1341.1	1354.3	1363.5	1399.2	1460.5	1511.6	1509.2	1481.3	1328.7
57.5°	1291.5	1294.5	1327.1	1346.5	1363.5	1410.1	1484.4	1548.8	1551.9	1525.5	1365.9
60°	1257.4	1261.2	1300.7	1326.3	1352.7	1409.4	1496.8	1572.8	1579.8	1552.7	1390.7
62.5°	1210.0	1214.7	1260.4	1296.2	1331.7	1398.4	1497.7	1584.5	1593.8	1569.8	1402.3
63°	1197.6	1206.2	1253.5	1289.1	1326.3	1394.6	1496.8	1585.1	1595.3	1571.2	1403.1
65°	1149.7	1159.0	1213.2	1255.0	1299.9	1376.7	1486.1	1581.3	1593.8	1570.4	1399.2
67.5°	1082.2	1094.6	1151.8	1203.1	1260.4	1344.9	1462.0	1562.1	1575.9	1553.4	1382.1
70°	1005.5	1022.5	1082.9	1146.4	1210.0	1302.4	1424.8	1528.6	1541.9	1518.6	1348.0
72.5°	927.9	946.5	1012.4	1080.7	1151.8	1249.6	1372.8	1478.3	1490.6	1470.5	1300.7
75°	849.5	863.5	931.7	1010.9	1088.3	1188.4	1315.5	1413.9	1427.9	1403.8	1241.8
77.5°	766.7	786.0	856.5	936.5	1019.3	1125.5	1247.2	1340.4	1348.8	1324.8	1165.9
80°	685.2	707.0	776.0	862.1	949.6	1051.9	1168.2	1258.9	1263.6	1238.0	1084.4
82.5°	613.9	634.2	704.6	787.5	875.9	980.6	1086.8	1164.4	1167.3	1143.5	1000.0
85°	544.9	562.8	630.3	715.5	804.6	901.4	1003.0	1069.0	1072.8	1044.2	910.8
87.5°	482.8	496.9	562.0	647.3	734.0	829.5	913.9	969.0	969.7	941.9	822.5
90°	429.5	438.0	501.6	585.2	667.4	752.7	831.8	879.8	873.6	844.1	731.0
92.5°	377.5	384.5	442.7	524.0	605.4	682.2	751.2	782.2	775.1	749.5	649.7
95°	335.6	338.8	392.2	468.9	541.9	614.7	673.5	696.0	689.1	662.1	568.9
97.5°	292.9	297.7	346.4	416.3	486.8	552.6	600.7	615.5	602.4	576.0	498.4
100°	261.2	262.8	303.8	370.6	437.1	494.5	532.5	541.9	527.9	503.9	434.2
102.5°	231.9	231.0	268.2	330.2	390.0	438.0	470.5	469.8	455.0	434.2	376.7
105°	206.3	205.4	234.1	291.5	344.9	387.6	411.7	408.5	393.7	373.6	327.9
107.5°	182.1	183.8	204.6	254.9	303.1	341.0	359.0	352.0	338.8	320.2	284.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	164.3	164.3	180.6	224.0	268.2	299.2	313.1	303.1	290.7	272.0	245.7
112.5°	148.1	148.1	159.7	195.3	235.6	263.6	272.8	259.7	245.0	232.5	213.2
115°	133.3	133.3	141.0	169.8	205.4	228.7	234.1	220.2	207.8	198.4	186.0
117.5°	120.9	120.9	125.6	145.7	177.5	199.2	202.3	186.8	178.4	169.1	162.1
120°	109.4	110.1	111.6	124.9	151.2	169.8	171.2	156.6	149.6	144.9	141.0
122.5°	99.3	99.3	100.0	107.7	128.6	144.2	144.2	131.8	127.1	125.6	122.4
125°	89.9	89.9	89.9	93.1	107.0	119.4	117.9	110.1	107.7	107.7	106.2
127.5°	81.3	80.6	79.8	80.6	87.6	96.1	96.1	90.6	90.6	91.4	92.3
130°	72.9	72.1	70.5	69.0	69.8	75.9	75.2	73.7	75.2	77.6	79.1
132.5°	64.4	64.4	62.1	58.1	55.9	57.3	58.1	58.8	61.3	64.4	66.7
135°	55.9	55.9	53.4	48.1	43.4	42.6	41.9	45.8	49.5	52.7	55.1
137.5°	47.3	47.3	44.9	38.7	32.6	29.5	28.7	34.9	38.7	41.9	44.1
140°	39.5	38.7	36.4	30.3	23.3	18.7	18.7	24.9	28.7	31.8	34.9
142.5°	31.0	31.0	28.7	23.3	15.5	10.9	11.6	17.1	20.1	22.5	24.9
145°	23.3	23.3	20.9	15.5	9.3	5.4	6.2	10.9	13.1	15.5	17.8
147.5°	16.3	16.3	14.0	10.2	4.6	1.5	3.1	6.2	7.7	9.3	10.9
150°	10.2	10.2	8.5	5.4	2.3	0.0	0.8	3.1	3.9	4.6	6.2
152.5°	5.4	5.4	3.9	2.3	0.8	0.0	0.0	0.8	1.5	2.3	3.1
155°	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8
157.5°	0.8	0.8	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	0.0	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°	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1
2.5°	353.6	350.3	343.4	337.3	331.7	326.4	321.8	317.8	317.0	314.8	315.5
5°	359.0	352.8	339.5	327.9	315.5	305.5	297.7	290.7	285.2	283.0	282.2
7.5°	369.7	359.7	339.5	321.0	303.8	288.4	275.2	265.1	258.9	254.9	255.7
10°	385.3	372.1	344.9	319.3	295.4	274.4	257.4	245.0	235.6	231.9	231.9
12.5°	405.5	390.0	355.0	321.8	291.5	265.1	243.4	227.9	219.4	213.9	213.9
15°	438.0	415.5	372.1	329.5	291.5	259.7	235.6	218.6	210.8	207.0	206.3
17.5°	472.9	448.1	396.2	344.9	298.4	258.9	234.8	220.2	210.8	206.3	206.3
20°	510.9	481.4	421.8	362.7	310.1	268.2	241.0	223.3	211.6	205.4	204.6
22.5°	551.9	519.4	448.9	381.4	324.0	283.8	248.8	225.6	211.6	205.4	204.6
25°	597.6	558.1	476.7	402.4	342.7	297.7	258.2	228.7	211.6	203.8	203.0
27.5°	644.2	600.0	507.7	422.5	361.9	310.9	266.6	231.0	211.6	203.0	202.3
30°	694.6	641.8	537.9	445.6	379.9	322.5	273.7	233.3	211.6	202.3	201.5
32.5°	744.2	687.7	570.6	472.1	397.0	331.7	279.8	238.1	212.4	201.5	200.1
35°	799.2	736.4	605.4	498.4	412.4	340.3	285.2	241.0	211.6	200.1	199.2
37.5°	856.5	784.5	637.2	521.6	424.8	346.4	288.4	243.4	211.6	199.2	197.6
40°	913.9	833.3	671.4	544.9	436.4	352.0	291.5	245.7	210.8	197.6	196.1
42.5°	969.7	881.3	704.6	564.3	445.6	355.8	292.9	247.3	210.8	196.1	194.6
45°	1027.1	930.3	739.6	582.9	452.7	357.3	292.9	247.3	211.6	194.6	193.0
47.5°	1082.2	976.0	771.4	597.6	458.1	358.2	292.9	247.3	211.6	193.0	190.7
50°	1131.0	1017.8	797.7	610.0	461.2	358.2	292.3	247.3	211.6	190.7	188.4
52.5°	1178.2	1054.3	822.5	618.7	462.7	356.5	290.7	245.7	211.6	188.4	186.0
55°	1216.2	1086.8	839.6	624.1	461.2	354.2	287.5	244.2	210.8	186.0	183.0
57.5°	1246.5	1110.0	852.8	625.6	458.1	350.3	284.6	241.9	209.2	183.0	180.6
60°	1265.8	1123.2	856.5	622.4	453.5	344.9	280.6	239.5	207.0	179.8	176.7
62.5°	1272.9	1127.9	855.0	616.2	446.5	339.5	276.8	236.4	204.6	176.0	172.8
63°	1272.9	1127.2	854.3	614.7	444.2	338.0	276.0	235.6	203.8	175.2	172.0
65°	1268.1	1120.9	846.6	605.4	437.1	332.6	272.0	232.5	202.3	172.8	169.1
67.5°	1248.9	1104.6	828.6	591.4	425.5	324.7	265.9	227.9	198.4	169.1	165.1
70°	1217.8	1076.7	804.6	572.8	413.2	316.3	259.7	223.3	194.6	165.1	160.4
72.5°	1172.1	1037.9	774.3	551.1	398.5	307.0	252.8	217.7	189.2	160.4	155.0
75°	1115.4	990.7	738.8	526.3	383.8	296.1	245.7	211.6	183.8	155.9	148.8
77.5°	1048.9	935.7	697.7	500.7	366.7	285.2	237.2	204.6	178.4	151.2	142.7
80°	974.4	870.5	653.4	472.1	348.8	273.7	228.7	197.6	170.6	144.9	136.5
82.5°	900.0	805.4	607.0	442.7	330.9	262.0	219.4	189.9	163.5	138.8	130.3
85°	819.3	737.1	561.3	412.4	312.4	248.8	210.1	181.4	156.6	132.6	123.2
87.5°	741.8	668.2	510.9	382.9	294.6	237.2	200.9	172.8	148.1	124.9	117.9
90°	666.6	602.4	467.5	352.8	275.2	224.0	190.7	163.5	139.5	117.0	111.6
92.5°	593.8	535.7	420.1	324.7	257.4	211.6	179.8	154.2	131.1	110.1	105.5
95°	525.6	477.4	380.6	296.9	240.2	199.2	169.8	145.7	121.7	101.6	98.5
97.5°	461.2	422.5	341.9	272.8	221.7	186.8	158.9	135.6	112.4	93.9	92.3
100°	406.9	373.6	305.5	248.0	205.4	174.5	148.8	125.6	103.0	86.1	86.1
102.5°	355.8	326.4	271.3	224.8	189.2	161.2	137.3	115.5	93.9	79.1	79.1
105°	310.9	286.7	242.6	203.8	173.6	148.8	126.3	105.5	83.7	72.1	72.1
107.5°	269.9	251.2	215.6	184.5	158.1	135.6	115.5	94.6	73.7	65.0	65.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	236.4	221.7	191.5	165.1	143.4	124.9	105.5	84.5	64.4	58.8	58.8
112.5°	204.6	193.0	169.1	148.8	130.3	113.1	94.6	74.4	56.7	53.4	53.4
115°	179.0	169.8	149.6	132.6	117.0	101.6	83.7	64.4	48.9	47.3	48.1
117.5°	156.6	148.8	133.3	119.4	105.5	90.6	74.4	55.1	42.6	42.6	42.6
120°	136.5	131.1	117.0	105.5	93.9	79.8	64.4	46.5	37.2	37.2	38.0
122.5°	120.2	114.8	104.7	93.1	82.1	69.8	55.1	38.7	32.6	33.3	34.1
125°	103.8	100.8	91.4	81.3	71.3	58.8	45.8	31.8	28.7	29.5	30.3
127.5°	90.6	88.4	79.1	70.5	61.3	49.5	37.2	25.6	24.1	25.6	26.4
130°	77.6	75.9	69.0	60.5	51.2	41.1	29.5	20.9	20.9	22.5	22.5
132.5°	65.8	64.4	58.1	49.5	41.9	31.8	22.5	17.1	17.8	19.4	19.4
135°	55.1	53.4	48.1	41.1	32.6	24.1	17.1	14.0	15.5	16.3	16.3
137.5°	44.9	43.4	38.7	31.8	24.1	17.1	12.3	10.9	12.3	14.0	14.0
140°	34.1	34.1	30.3	24.1	17.1	11.6	8.5	8.5	10.2	10.9	10.9
142.5°	25.6	24.9	22.5	17.1	10.9	6.9	5.4	6.2	7.7	8.5	8.5
145°	17.8	17.1	15.5	11.6	6.2	3.9	3.1	4.6	5.4	6.2	6.2
147.5°	11.6	10.9	10.2	6.9	3.1	1.5	1.5	3.1	3.9	4.6	4.6
150°	6.2	6.2	5.4	3.1	1.5	0.0	0.8	1.5	2.3	2.3	2.3
152.5°	3.1	3.1	2.3	1.5	0.8	0.0	0.0	0.0	0.8	0.8	0.8
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°	0.0	0.0	0.0	0.8	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	0.8	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)