

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: P240314

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-T2U-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7184.9 lumens
Efficiency: N/A
Efficacy: 76.4 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: B2 - U4 - G3

Input Watts (W): 94
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



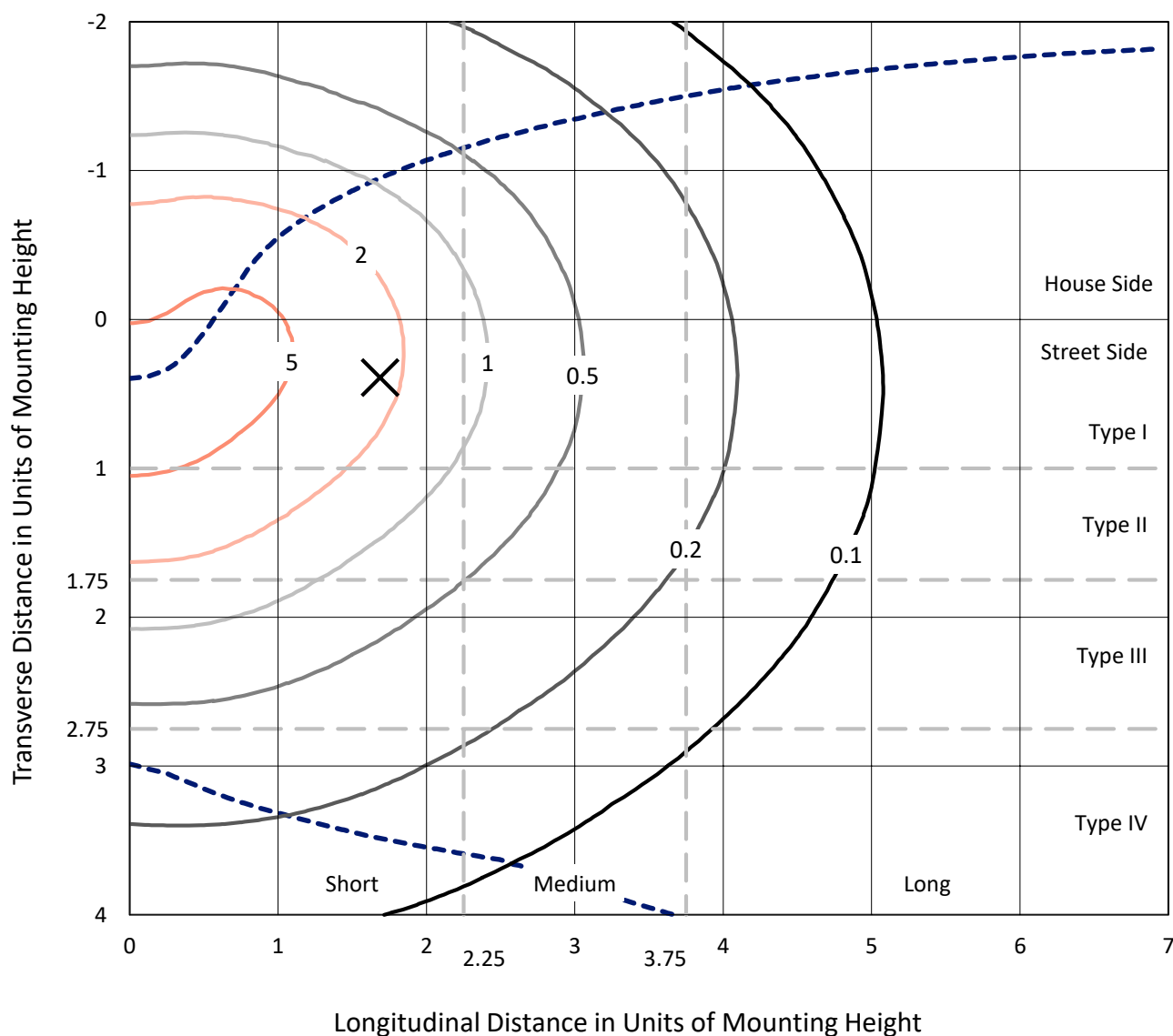
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

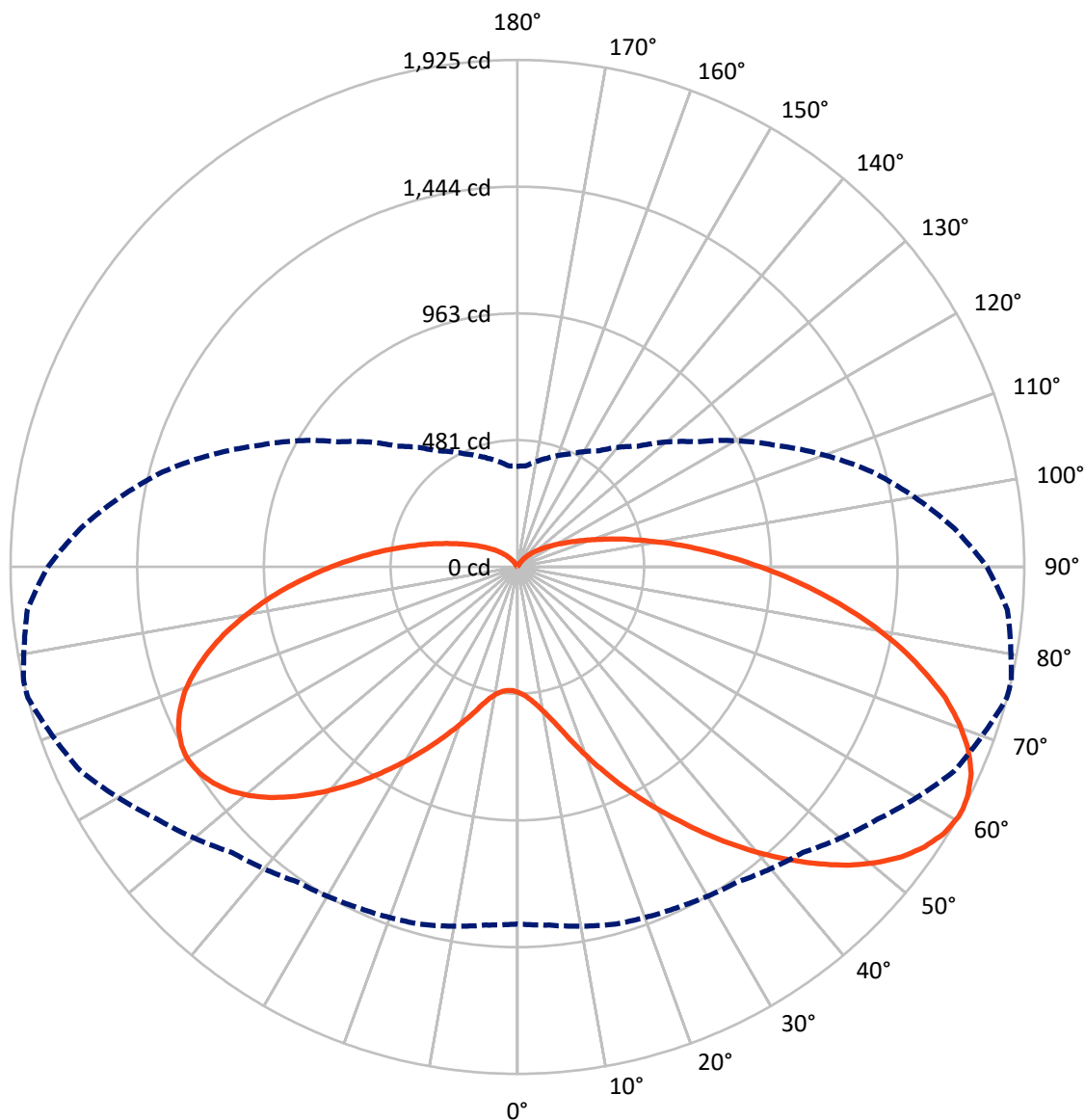


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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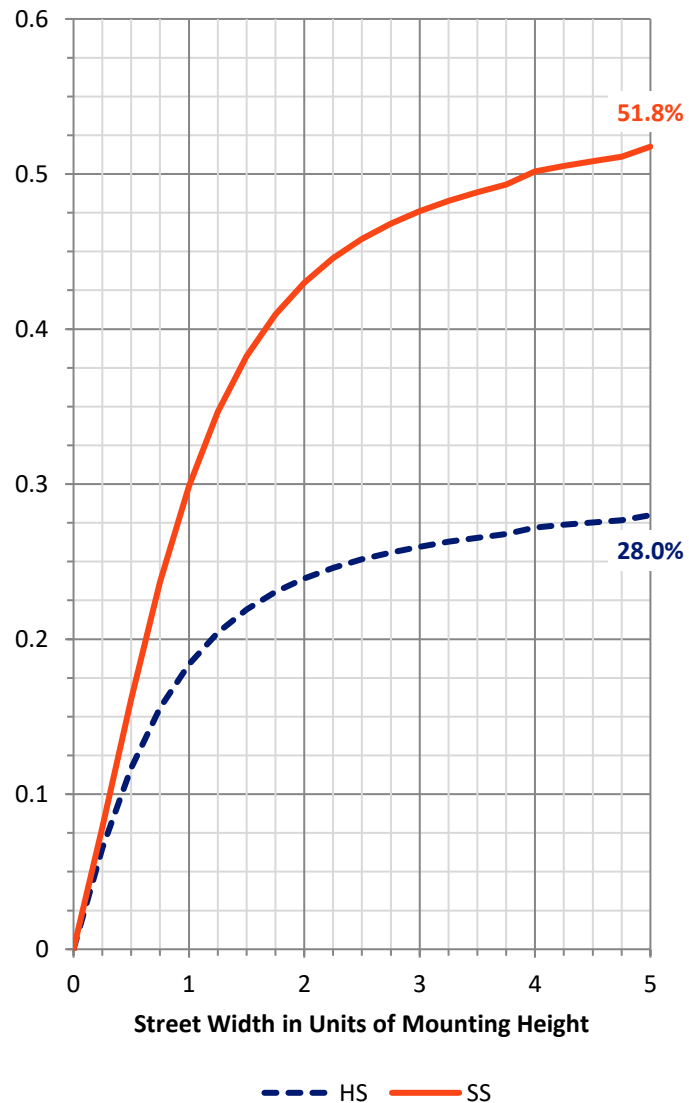
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2136.7	458.9	2595.6
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	3941.6	647.7	4589.3
	% Fixture	54.9	9.0	63.9
Total	Lumens	6078.3	1106.6	7184.9
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	0.7
10°-20°	167.3	2.3
20°-30°	358.5	5.0
30°-40°	618.0	8.6
40°-50°	897.3	12.5
50°-60°	1104.3	15.4
60°-70°	1144.2	15.9
70°-80°	997.6	13.9
80°-90°	743.6	10.3
90°-100°	491.6	6.8
100°-110°	300.0	4.2
110°-120°	171.8	2.4
120°-130°	90.9	1.3
130°-140°	40.2	0.6
140°-150°	11.2	0.2
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6078.3	84.6
0°-180°	7184.9	100.0

Coefficient of Utilization



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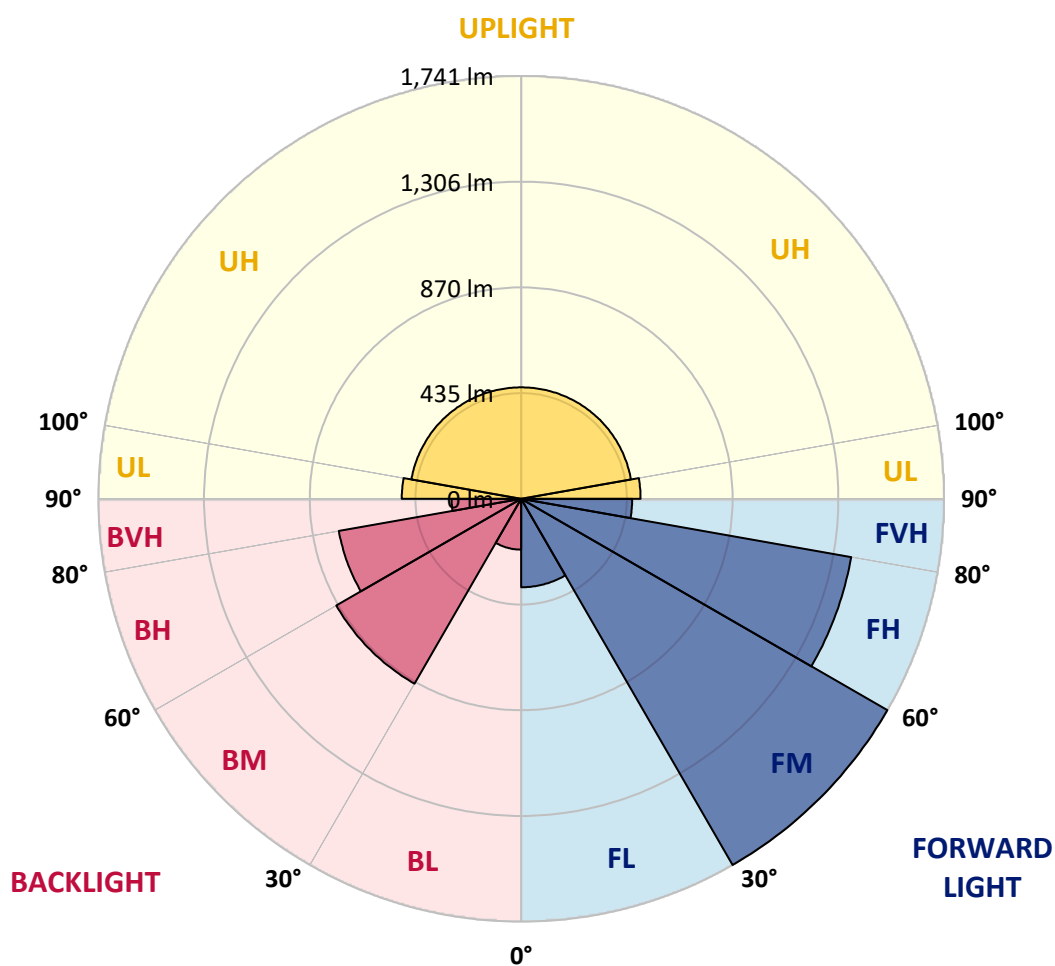
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.1	5.1			
FM	(30°-60°)	1740.8	24.2			
FH	(60°-80°)	1379.7	19.2			G1/1800
FVH	(80°-90°)	457.1	6.4			G3/500
BL	(0°-30°)	209.2	2.9	B1/500		
BM	(30°-60°)	878.8	12.2	B1/1000		
BH	(60°-80°)	762.1	10.6	B2/1000		G2/1000
BVH	(80°-90°)	286.5	4.0			G3/500
UL	(90°-100°)	491.6	6.8		U3/500	
UH	(100°-180°)	458.9	6.4		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9
2.5°	518.0	518.0	516.0	515.1	511.5	506.8	502.0	495.6	489.1	487.2	483.5
5°	562.8	562.8	560.8	556.2	549.7	541.3	531.0	520.7	507.7	504.9	494.6
7.5°	613.2	611.3	606.6	601.9	592.6	580.5	566.5	550.6	532.8	529.2	514.2
10°	663.5	663.5	658.9	651.4	640.3	624.3	607.6	588.0	564.7	560.0	540.4
12.5°	721.4	719.6	712.1	706.5	693.4	675.7	656.9	632.7	604.8	600.1	574.9
15°	783.0	782.1	775.5	763.4	748.4	731.7	712.1	685.9	656.1	648.6	620.6
17.5°	852.0	846.4	842.7	829.6	813.8	792.3	777.4	750.3	717.7	709.3	674.7
20°	915.5	916.4	908.1	896.8	881.9	867.0	845.5	821.3	785.8	774.6	735.5
22.5°	987.3	987.3	979.0	967.8	952.8	945.4	921.2	895.9	853.0	844.6	800.8
25°	1062.0	1059.3	1050.8	1040.5	1033.1	1023.8	1001.4	971.6	927.6	919.2	869.8
27.5°	1131.1	1132.0	1121.8	1113.4	1112.5	1100.4	1081.6	1049.9	1007.9	995.8	942.6
30°	1202.1	1203.0	1195.6	1185.3	1186.1	1178.7	1162.8	1130.2	1090.1	1075.9	1019.1
32.5°	1273.0	1271.1	1260.9	1259.9	1257.0	1251.4	1239.3	1218.8	1175.0	1160.0	1101.3
35°	1336.5	1336.5	1326.2	1329.9	1324.2	1323.3	1319.7	1303.8	1264.5	1249.6	1186.1
37.5°	1395.2	1394.2	1388.6	1389.6	1385.9	1385.0	1391.4	1389.6	1353.1	1341.0	1275.7
40°	1449.4	1443.8	1439.1	1442.8	1439.1	1444.6	1460.6	1471.7	1440.9	1431.7	1365.3
42.5°	1486.7	1484.9	1482.9	1489.4	1483.8	1497.0	1522.1	1549.2	1530.5	1521.2	1454.9
45°	1516.5	1512.8	1516.5	1523.1	1519.4	1536.0	1580.9	1622.0	1622.0	1609.0	1540.8
47.5°	1528.6	1527.8	1537.1	1542.6	1540.8	1567.9	1627.5	1690.1	1703.2	1692.9	1623.8
50°	1525.8	1525.8	1540.8	1549.2	1551.1	1586.6	1662.2	1744.3	1774.2	1765.7	1697.6
52.5°	1508.1	1508.1	1530.5	1540.8	1548.2	1593.0	1685.5	1790.0	1833.8	1829.1	1761.0
55°	1474.6	1473.6	1502.6	1515.7	1531.5	1586.6	1694.7	1819.8	1880.5	1876.7	1815.2
57.5°	1422.2	1424.0	1459.6	1480.1	1500.6	1566.0	1690.1	1834.8	1912.2	1910.4	1849.6
60°	1356.0	1365.3	1405.5	1428.8	1459.6	1533.4	1670.5	1832.0	1924.4	1925.2	1868.4
61°	1328.0	1337.4	1378.5	1406.3	1439.1	1517.5	1659.3	1826.4	1923.4	1925.2	1870.2
62.5°	1283.2	1288.8	1337.4	1370.9	1406.3	1488.5	1636.9	1811.4	1916.9	1919.6	1867.5
65°	1199.2	1209.5	1259.0	1301.0	1342.9	1432.5	1588.4	1773.2	1889.8	1894.4	1845.9
67.5°	1106.8	1119.0	1175.8	1224.5	1273.0	1368.2	1528.6	1718.1	1841.3	1846.9	1804.9
70°	1015.3	1030.4	1090.1	1138.6	1198.2	1296.3	1455.9	1647.2	1775.0	1780.6	1744.3
72.5°	922.0	938.9	1000.5	1056.4	1117.0	1216.9	1374.7	1563.2	1692.0	1699.4	1665.8
75°	828.7	850.1	908.1	972.4	1033.1	1135.8	1290.7	1473.6	1590.3	1597.7	1571.5
77.5°	744.7	763.4	820.3	887.5	953.8	1051.7	1199.2	1367.2	1488.5	1492.3	1468.9
80°	659.8	679.4	741.0	804.4	874.4	968.7	1104.9	1259.9	1365.3	1375.6	1351.3
82.5°	584.2	603.7	661.7	730.7	797.9	888.5	1008.8	1149.7	1243.1	1254.3	1237.5
85°	520.7	534.8	591.6	658.0	723.3	809.2	924.9	1047.1	1131.1	1132.9	1116.2
87.5°	457.2	472.2	526.3	590.8	656.9	735.5	834.3	939.7	1007.9	1014.5	997.6
90°	405.1	414.3	465.7	529.2	593.5	665.4	751.2	844.6	899.6	899.6	886.5
92.5°	359.4	364.0	415.3	476.0	537.5	599.2	674.7	746.6	794.2	793.2	778.4
95°	317.3	322.9	365.8	424.6	484.3	541.3	602.9	659.8	695.2	697.2	679.4
97.5°	279.9	283.7	323.9	381.8	434.9	488.1	539.4	585.2	608.5	609.4	596.3
100°	250.1	250.1	288.3	339.7	391.0	438.6	482.5	517.1	527.2	526.3	515.1
102.5°	224.0	222.2	254.8	304.3	351.9	392.9	428.4	450.8	459.1	456.3	448.8
105°	198.8	200.6	225.8	272.5	315.4	351.9	378.9	397.6	397.6	395.7	388.2
107.5°	180.2	179.1	198.8	241.7	282.8	314.5	336.0	345.3	342.5	339.7	335.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	161.4	161.4	176.4	216.6	252.0	280.9	295.9	301.4	293.1	292.2	291.1
112.5°	145.6	145.6	157.8	191.3	225.0	249.2	261.3	262.2	252.9	252.0	252.9
115°	133.4	133.4	140.0	169.9	200.6	222.2	232.4	227.7	218.4	217.4	220.2
117.5°	121.3	121.3	127.0	148.4	177.3	196.8	203.4	196.8	188.5	188.5	192.3
120°	111.0	111.0	113.0	129.7	155.8	172.6	177.3	169.9	163.4	163.4	167.0
122.5°	101.7	100.7	101.7	113.0	134.4	150.2	152.1	145.6	141.0	141.8	147.5
125°	92.5	92.5	91.4	98.0	115.7	128.8	130.7	123.1	123.1	123.1	127.9
127.5°	84.0	84.0	82.2	84.9	98.0	109.2	109.2	103.6	105.4	107.3	111.0
130°	76.5	76.5	74.7	74.7	81.2	90.5	90.5	86.8	91.4	92.5	96.1
132.5°	69.1	68.2	66.2	63.5	66.2	71.9	71.9	70.9	78.3	79.3	82.2
135°	61.6	60.6	58.8	54.1	53.2	55.0	55.0	57.9	65.3	66.2	70.0
137.5°	53.2	53.2	50.4	45.8	40.1	40.1	40.1	45.8	53.2	55.0	57.0
140°	45.8	45.8	42.9	37.3	29.8	27.1	28.0	35.5	42.9	43.8	45.8
142.5°	37.3	37.3	34.5	29.0	21.5	15.9	17.7	25.2	31.6	33.6	35.5
145°	29.0	29.0	26.1	20.5	13.1	8.4	10.3	17.7	22.4	23.4	25.2
147.5°	21.5	21.5	18.7	13.9	7.4	2.8	5.6	10.3	15.0	15.9	17.7
150°	13.9	13.9	12.1	7.4	3.8	0.0	1.8	5.6	8.4	9.3	10.3
152.5°	7.4	7.4	5.6	3.8	1.0	0.0	0.0	1.8	3.8	3.8	4.7
155°	3.8	2.8	1.8	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.8
157.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	1.0	1.0	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°	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9	476.9
2.5°	479.6	476.0	468.5	462.9	456.3	450.8	446.1	442.4	441.4	438.6	439.6
5°	488.1	481.5	467.5	455.4	442.4	431.1	421.8	415.3	410.6	408.7	406.9
7.5°	503.9	492.8	472.2	452.7	434.0	417.2	402.2	392.9	385.4	381.8	381.8
10°	526.3	512.3	483.5	457.2	431.1	408.7	390.0	375.2	365.8	361.2	362.0
12.5°	557.1	538.4	503.0	467.5	435.8	406.9	381.8	365.8	354.6	349.1	349.1
15°	601.0	580.5	532.8	487.2	444.2	408.7	381.8	364.0	355.5	351.9	350.9
17.5°	654.3	627.1	573.1	518.0	463.8	420.0	392.9	376.1	364.0	359.4	358.4
20°	708.3	677.5	614.0	552.6	491.7	444.2	411.6	389.2	373.3	366.8	365.8
22.5°	769.9	734.4	659.8	587.0	521.7	476.0	430.3	401.3	382.6	374.2	373.3
25°	833.4	794.2	710.1	628.0	561.8	506.8	453.5	413.4	391.0	380.8	379.7
27.5°	900.7	858.6	762.4	669.1	600.1	535.7	475.1	424.6	398.5	387.4	386.3
30°	975.2	924.9	819.3	716.7	638.3	562.8	495.6	437.7	406.0	392.9	391.0
32.5°	1052.7	996.7	877.3	767.1	673.8	587.0	512.3	451.7	413.4	398.5	397.6
35°	1133.9	1071.4	937.0	816.6	705.5	608.5	527.2	463.8	419.0	403.1	401.3
37.5°	1218.8	1149.7	999.5	863.2	736.3	627.1	539.4	474.0	424.6	406.0	404.0
40°	1303.8	1224.5	1061.1	910.9	764.4	643.0	549.7	481.5	428.4	408.7	406.9
42.5°	1385.9	1304.7	1123.6	954.7	788.7	655.1	557.1	488.1	432.1	410.6	407.9
45°	1466.1	1381.2	1183.4	992.1	809.2	664.6	561.8	491.7	436.7	410.6	407.9
47.5°	1546.3	1453.0	1242.2	1024.8	824.1	671.0	563.7	493.7	439.6	409.7	406.9
50°	1619.2	1517.5	1292.5	1053.6	835.3	672.8	562.8	492.8	440.6	407.9	404.0
52.5°	1678.9	1574.4	1334.5	1074.1	841.8	672.0	560.0	490.9	439.6	404.0	401.3
55°	1730.2	1618.2	1365.3	1087.2	841.8	667.2	555.2	487.2	435.8	399.5	395.7
57.5°	1763.9	1650.9	1385.9	1092.8	838.0	658.9	546.9	480.6	432.1	392.9	389.2
60°	1783.4	1666.7	1394.2	1089.1	827.7	647.7	537.5	473.2	426.4	385.4	381.8
61°	1785.3	1668.6	1394.2	1085.4	823.2	643.0	533.8	470.4	423.7	382.6	377.9
62.5°	1783.4	1666.7	1389.6	1077.0	813.8	634.6	526.3	463.8	418.1	376.1	373.3
65°	1764.7	1649.0	1370.9	1055.6	793.2	617.9	513.3	453.5	408.7	366.8	362.0
67.5°	1724.6	1613.5	1337.4	1025.6	768.9	598.2	498.3	441.4	398.5	355.5	349.9
70°	1666.7	1561.4	1295.4	991.1	742.0	576.8	481.5	427.4	385.4	344.3	336.9
72.5°	1594.9	1497.8	1236.6	947.3	710.1	554.4	463.8	412.5	371.5	331.3	322.0
75°	1505.4	1416.6	1171.3	898.7	674.7	528.3	445.1	395.7	355.5	317.3	307.0
77.5°	1406.3	1327.1	1100.4	845.5	639.2	503.0	424.6	377.1	338.8	301.4	291.1
80°	1298.1	1229.0	1020.1	789.5	601.9	476.9	404.0	359.4	322.0	285.6	273.4
82.5°	1187.1	1125.5	939.7	732.6	561.8	449.8	381.8	339.7	303.3	268.8	255.6
85°	1074.1	1020.9	858.6	673.8	521.7	422.8	361.2	320.1	283.7	251.1	239.9
87.5°	962.1	916.4	775.5	617.9	485.3	396.6	339.7	300.5	265.1	233.3	222.2
90°	857.6	818.5	699.0	565.5	448.8	369.6	318.3	280.9	246.4	214.7	207.1
92.5°	758.7	725.2	625.3	510.5	412.5	343.4	296.7	260.4	225.8	196.8	192.3
95°	669.1	637.4	558.1	461.9	378.9	320.1	276.2	241.7	207.1	180.2	176.4
97.5°	581.4	561.8	495.6	415.3	346.3	294.9	255.6	223.0	189.4	164.2	162.4
100°	508.6	488.1	434.9	372.3	316.5	272.5	236.1	204.5	172.6	149.3	148.4
102.5°	442.4	428.4	383.6	336.0	287.5	248.2	216.6	186.7	155.8	135.4	135.4
105°	386.3	373.3	339.7	298.6	259.5	227.7	196.8	167.9	139.1	121.3	122.3
107.5°	333.1	324.7	296.7	264.1	233.3	206.3	178.2	150.2	122.3	108.2	109.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	290.2	281.9	260.4	236.1	210.0	186.7	160.5	133.4	106.4	98.0	98.0
112.5°	252.0	246.4	228.7	209.0	188.5	167.9	144.7	117.6	93.3	86.8	87.7
115°	220.2	215.6	200.6	185.7	169.0	151.3	128.8	102.7	81.2	78.3	78.3
117.5°	191.3	188.5	176.4	163.4	150.2	134.4	113.8	88.6	70.0	70.0	70.0
120°	167.0	164.2	154.9	143.6	132.5	118.5	98.0	75.6	61.6	61.6	62.5
122.5°	146.5	144.7	135.4	127.0	116.7	102.7	84.0	63.5	54.1	55.0	55.0
125°	127.9	125.9	119.4	110.2	100.7	87.7	70.9	52.2	46.7	48.5	48.5
127.5°	111.0	110.2	103.6	95.2	85.9	74.7	57.9	43.8	41.1	42.9	42.9
130°	97.0	96.1	89.6	81.2	72.7	60.6	46.7	36.4	35.5	37.3	37.3
132.5°	83.0	82.2	76.5	68.2	59.8	48.5	36.4	29.0	30.8	32.7	32.7
135°	70.0	69.1	65.3	55.9	48.5	38.2	28.0	24.2	26.1	28.0	28.0
137.5°	57.9	57.0	53.2	44.8	36.4	28.0	20.5	19.5	21.5	23.4	23.4
140°	46.7	45.8	41.9	34.5	26.1	19.5	13.9	15.9	17.7	19.5	19.5
142.5°	35.5	35.5	32.7	26.1	17.7	12.1	9.3	12.1	13.9	15.9	15.9
145°	26.1	26.1	22.4	17.7	10.3	6.5	5.6	8.4	11.2	12.1	12.1
147.5°	17.7	17.7	15.0	11.2	5.6	2.8	3.8	5.6	7.4	8.4	9.3
150°	10.3	10.3	8.4	5.6	2.8	1.0	1.0	3.8	4.7	5.6	5.6
152.5°	4.7	4.7	3.8	1.8	1.0	1.0	1.0	1.0	2.8	2.8	2.8
155°	1.8	1.8	1.8	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0
157.5°	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.0	1.0	1.0	1.0	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)