

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: P239933

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T4W-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4825 lumens
Efficiency: N/A
Efficacy: 75.4 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

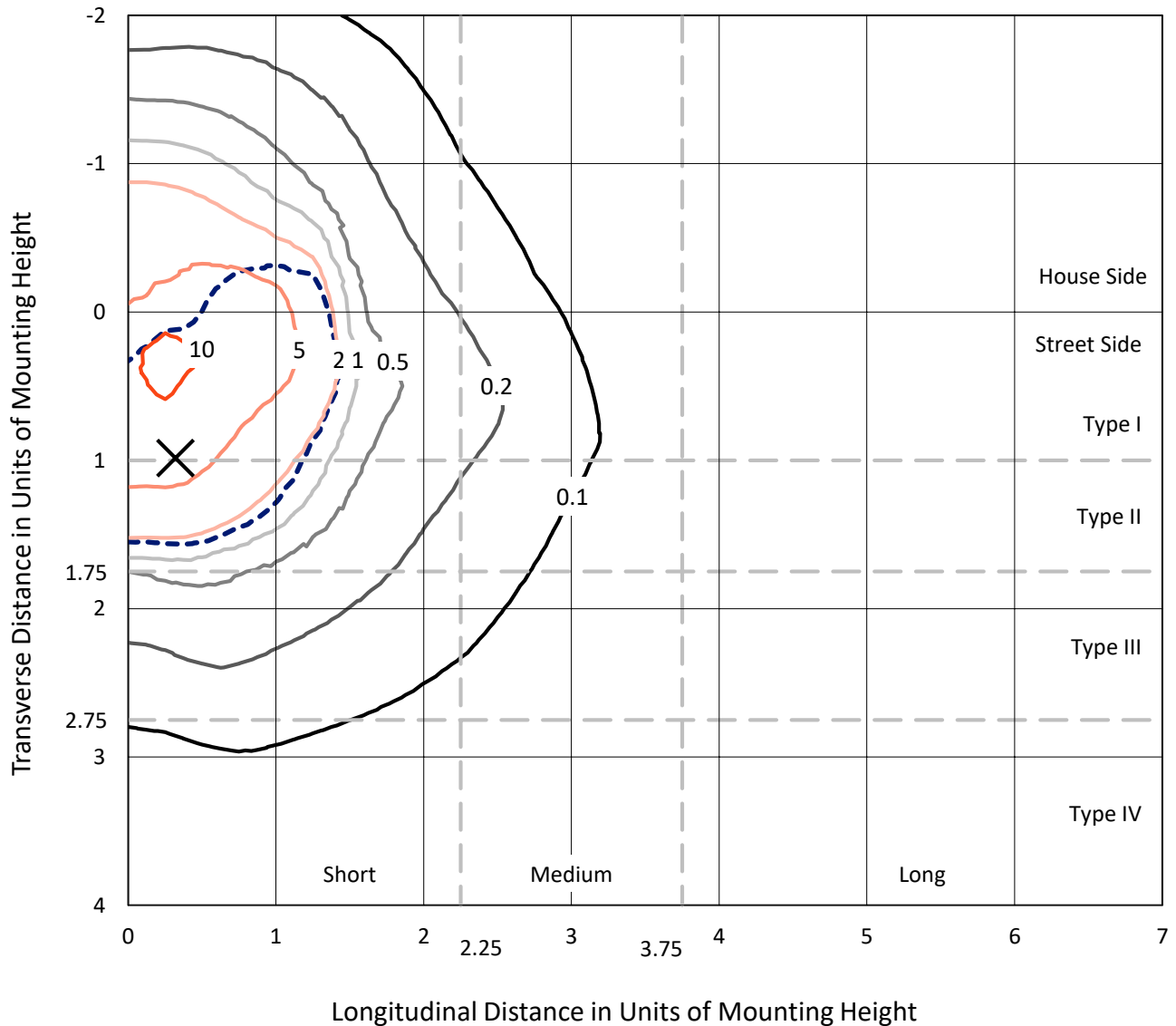


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Iso-Footcandle Lines of Horizontal Illumination

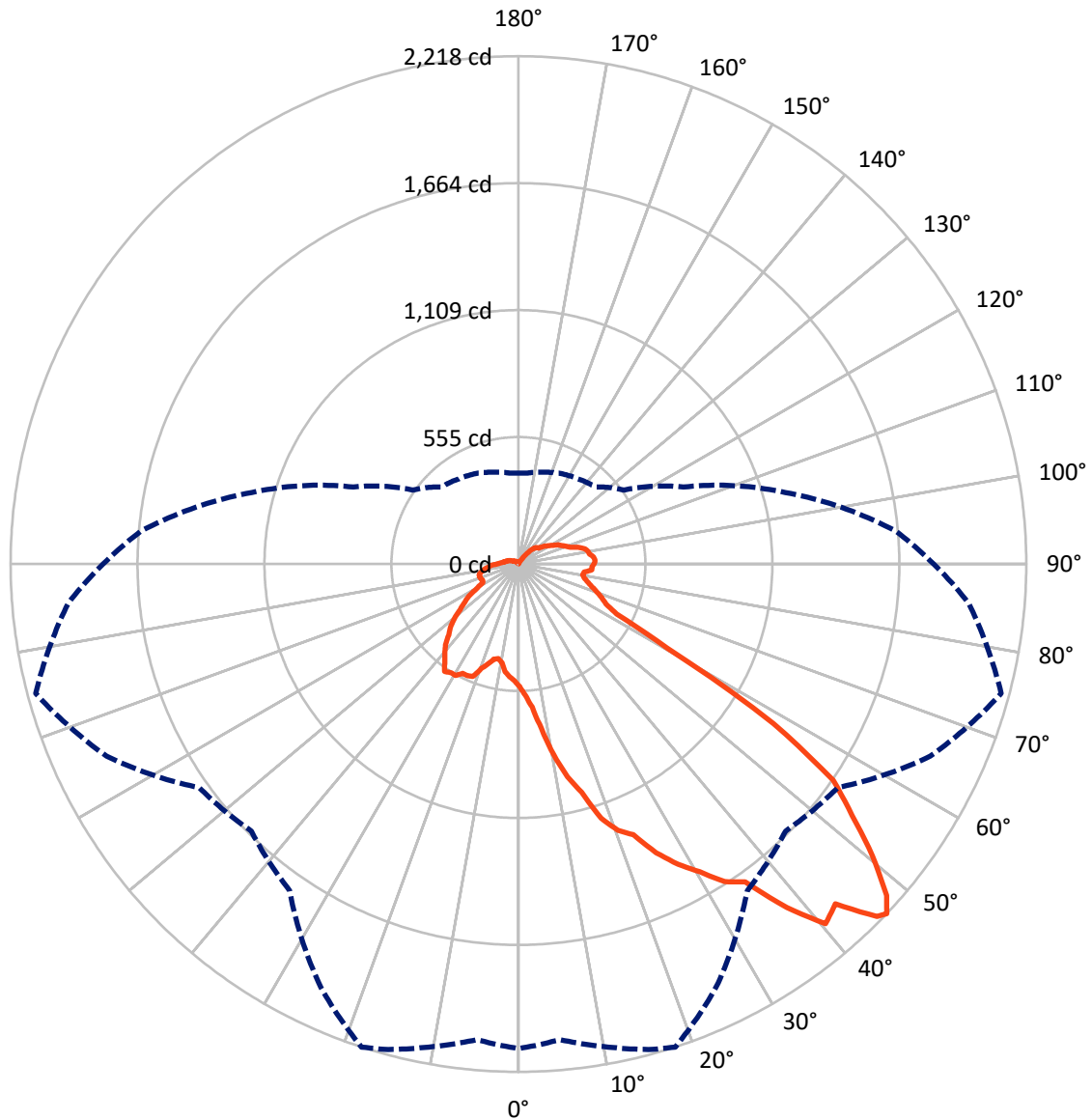
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 18-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical

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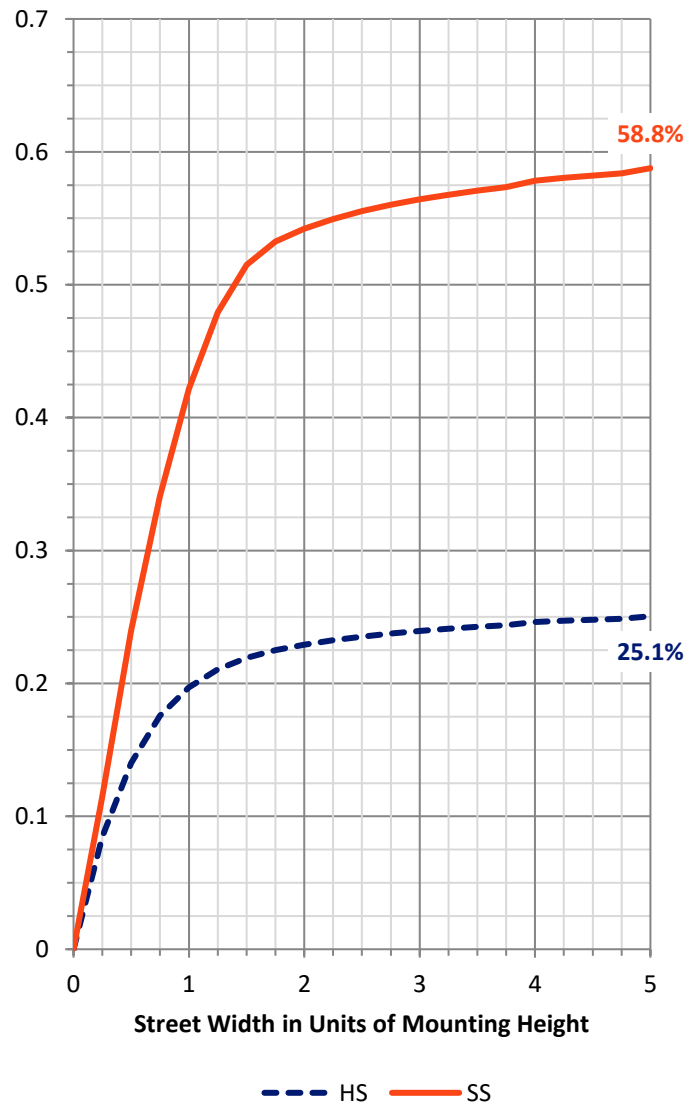
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1255.1	156.3	1411.3
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	2945.2	468.4	3413.6
	% Fixture	61.0	9.7	70.7
Total	Lumens	4200.3	624.7	4825.0
	% Fixture	87.1	12.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	1.2
10°-20°	233.6	4.8
20°-30°	475.1	9.8
30°-40°	777.7	16.1
40°-50°	1012.2	21.0
50°-60°	757.4	15.7
60°-70°	315.5	6.5
70°-80°	287.0	5.9
80°-90°	284.5	5.9
90°-100°	228.8	4.7
100°-110°	162.6	3.4
110°-120°	109.9	2.3
120°-130°	70.7	1.5
130°-140°	41.9	0.9
140°-150°	10.2	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4200.3	87.1
0°-180°	4825.0	100.0



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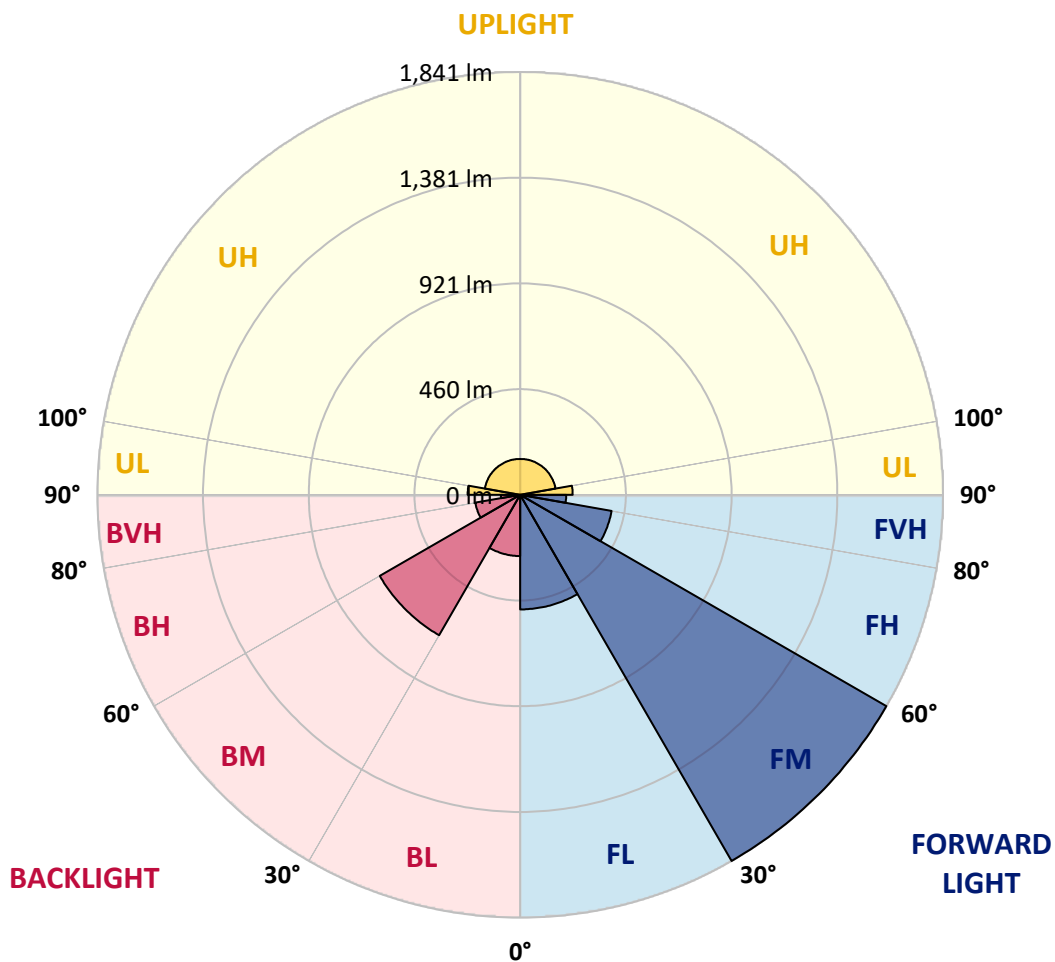
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.1	10.3			
FM (30°-60°)	1841.4	38.2			
FH (60°-80°)	404.1	8.4			G0/660
FVH (80°-90°)	200.6	4.2			G2/225
BL (0°-30°)	266.8	5.5	B1/500		
BM (30°-60°)	706.0	14.6	B1/1000		
BH (60°-80°)	198.4	4.1	B1/500		G1/500
BVH (80°-90°)	83.9	1.7			G1/100
UL (90°-100°)	228.8	4.7		U3/500	
UH (100°-180°)	156.3	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4
2.5°	574.4	571.8	573.1	573.1	569.8	568.4	565.1	561.1	555.8	549.8	544.4
5°	631.1	629.1	628.5	627.8	627.1	618.5	608.5	599.8	590.5	580.4	566.4
7.5°	735.9	735.2	731.2	726.6	719.9	705.2	687.2	678.5	665.8	650.5	629.1
10°	866.7	857.3	848.6	848.6	835.3	830.0	824.6	812.0	803.9	782.6	751.9
12.5°	941.4	936.7	954.7	953.4	970.7	1002.1	1012.8	1023.4	974.7	912.7	855.3
15°	1011.4	1011.4	1034.1	1034.8	1086.2	1155.5	1208.3	1156.9	1067.5	967.4	890.7
17.5°	1107.5	1113.5	1146.2	1168.2	1237.6	1357.0	1321.0	1226.3	1092.8	973.4	887.3
20°	1149.5	1162.9	1212.9	1241.6	1349.0	1461.8	1427.1	1315.7	1160.9	1024.8	938.1
22.5°	1175.6	1184.9	1243.6	1284.3	1421.8	1517.2	1511.8	1399.1	1253.0	1082.8	982.8
25°	1282.3	1288.3	1355.0	1397.1	1542.5	1573.2	1512.5	1434.4	1291.0	1114.2	1026.1
27.5°	1318.3	1319.0	1421.8	1485.1	1604.6	1593.9	1515.2	1482.5	1409.7	1270.3	1210.9
30°	1367.0	1365.7	1492.5	1560.5	1633.2	1587.9	1524.5	1553.2	1557.9	1444.4	1336.4
32.5°	1427.1	1421.8	1573.2	1654.6	1677.9	1586.5	1539.8	1588.5	1659.3	1541.8	1425.8
35°	1482.5	1487.1	1649.9	1705.3	1727.3	1594.6	1547.8	1654.6	1798.0	1707.3	1512.5
37.5°	1838.7	1833.4	1884.8	1904.1	1848.7	1621.9	1578.5	1736.7	1946.8	1907.5	1698.6
40°	1919.5	1901.5	2054.9	2066.2	1968.8	1718.6	1662.6	1786.0	2064.2	2134.3	1968.2
42.5°	1851.4	1846.7	2014.2	2029.6	1959.5	1784.0	1718.0	1826.1	2077.6	2135.0	1858.8
45°	2151.0	2126.3	2213.7	2195.7	2001.5	1756.0	1684.0	1781.4	2031.6	2192.3	1973.5
46°	2117.0	2085.6	2195.7	2218.4	2041.6	1742.0	1649.9	1702.6	1985.5	2183.0	1974.8
47.5°	2012.9	2015.5	2162.3	2163.7	2000.9	1744.0	1593.9	1655.3	1882.8	2063.6	1786.0
50°	1757.3	1727.3	1995.5	2004.2	1848.7	1668.6	1536.5	1564.5	1781.4	1892.1	1609.9
52.5°	1692.0	1668.6	1826.7	1825.4	1685.3	1553.9	1431.8	1461.1	1706.0	1832.1	1630.6
55°	1554.5	1546.5	1679.3	1667.9	1569.9	1412.4	1325.0	1343.0	1415.1	1365.7	812.6
57.5°	1032.8	1063.5	1293.0	1315.0	1315.7	1241.6	1132.2	966.1	836.0	711.2	397.6
60°	421.7	457.0	712.5	745.9	794.6	930.7	820.6	645.8	539.7	561.1	343.6
62.5°	318.2	331.6	475.7	481.7	500.4	566.4	559.8	468.4	461.0	507.7	328.9
65°	296.2	308.2	421.7	419.7	411.0	429.0	427.7	406.3	414.3	473.0	327.6
67.5°	280.2	292.2	391.6	392.3	385.0	388.3	391.0	380.3	399.0	459.7	336.3
70°	264.2	276.9	360.3	362.3	367.6	379.6	384.3	376.3	393.0	443.0	335.6
72.5°	244.9	258.9	330.9	334.3	344.9	372.3	388.3	386.3	388.3	418.3	334.3
75°	238.2	252.2	306.2	312.2	327.6	368.9	410.3	397.0	383.6	402.3	326.2
77.5°	208.8	224.8	280.2	293.6	327.6	379.6	425.0	420.3	395.6	391.6	317.6
80°	200.8	216.2	269.5	284.2	320.9	389.0	439.7	440.3	427.7	406.3	326.2
82.5°	202.2	216.8	272.2	288.9	330.9	395.6	427.7	444.3	445.7	419.0	336.3
85°	237.5	251.5	304.2	321.6	358.3	393.6	418.3	430.3	442.3	442.3	368.9
87.5°	253.5	266.2	306.2	321.6	356.9	398.3	394.3	414.3	426.3	441.7	380.3
90°	268.2	276.2	317.6	332.3	350.9	384.3	373.6	367.6	377.6	393.6	356.3
92.5°	278.9	286.2	322.9	335.6	351.6	358.9	342.9	325.6	350.3	362.9	331.6
95°	298.2	304.9	324.2	328.9	326.9	333.6	308.9	302.2	312.9	326.9	306.9
97.5°	284.9	289.6	308.2	313.6	312.2	302.2	277.5	273.5	282.9	293.6	271.5
100°	284.9	290.9	304.9	308.2	300.2	274.9	249.5	248.2	254.2	259.5	238.8
102.5°	290.9	293.6	296.2	298.2	283.6	255.5	236.8	232.2	234.2	236.8	218.2
105°	275.5	276.2	277.5	271.5	259.5	238.2	219.5	211.5	218.2	226.2	210.8
107.5°	238.2	237.5	238.2	236.2	234.8	222.2	208.8	198.8	198.8	201.5	186.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	222.2	222.8	222.2	222.2	216.2	207.5	194.8	184.1	178.8	180.1	166.8
112.5°	203.5	203.5	204.2	204.8	201.5	193.5	180.8	170.1	163.5	162.1	149.4
115°	203.5	201.5	195.5	194.8	188.1	176.8	167.5	154.1	149.4	149.4	141.4
117.5°	181.5	180.1	175.5	174.1	170.1	160.8	155.5	144.8	141.4	139.4	132.1
120°	160.8	160.8	158.8	158.1	154.1	148.8	137.4	133.4	130.8	133.4	128.8
122.5°	149.4	149.4	146.1	144.8	140.1	136.1	126.1	118.8	114.1	119.4	116.8
125°	137.4	136.8	132.1	131.4	123.4	123.4	118.1	108.7	96.1	101.4	100.1
127.5°	120.8	120.1	114.1	113.4	108.7	114.1	112.8	100.7	83.4	86.7	86.7
130°	116.1	114.8	109.4	108.1	103.4	102.1	107.4	88.1	78.1	81.4	80.7
132.5°	116.1	114.8	108.1	106.1	98.7	91.4	96.7	76.7	74.7	78.7	78.1
135°	104.7	104.7	98.7	94.7	87.4	74.1	75.4	59.4	65.4	71.4	71.4
137.5°	88.7	88.7	82.7	81.4	72.7	59.4	53.4	45.4	55.4	62.0	62.7
140°	69.4	69.4	64.7	62.0	56.0	39.4	24.7	28.0	42.0	48.0	50.0
142.5°	50.0	49.4	45.4	42.0	36.0	21.3	8.0	16.0	24.7	32.7	35.4
145°	34.7	34.0	29.4	27.4	22.0	10.0	2.0	6.7	14.7	19.3	22.7
147.5°	20.7	20.7	17.3	16.7	11.3	2.7	1.3	2.0	7.3	12.0	14.0
150°	12.0	12.0	8.7	6.7	2.7	0.7	0.7	0.7	2.0	5.3	6.7
152.5°	2.7	2.7	2.0	1.3	1.3	0.7	0.0	0.7	0.7	0.7	1.3
155°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
162.5°	0.7	0.7	0.0	0.0	0.7	0.0	0.7	0.0	0.7	0.7	0.7
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°	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4
2.5°	541.7	539.1	533.1	525.7	520.4	515.7	512.4	510.4	509.1	505.7	507.1
5°	561.8	556.4	542.4	531.1	519.1	508.4	500.4	495.0	493.0	490.4	490.4
7.5°	619.1	606.5	585.1	558.4	533.7	512.4	492.4	481.0	471.0	465.7	464.4
10°	731.9	715.2	669.2	614.5	560.4	512.4	473.7	445.7	432.3	427.7	427.7
12.5°	825.3	799.3	739.2	677.9	605.8	530.4	473.0	435.0	417.0	411.0	411.0
15°	853.3	819.3	748.6	688.5	623.8	560.4	507.1	452.3	419.7	409.6	406.3
17.5°	844.6	811.3	747.2	674.5	601.8	554.4	507.1	477.7	447.7	430.3	427.7
20°	900.0	869.3	802.6	721.2	631.8	525.7	495.7	489.0	481.7	470.4	470.4
22.5°	946.1	917.4	850.7	763.2	655.8	586.4	541.7	535.1	527.1	525.1	523.7
25°	981.4	950.7	859.3	758.6	680.5	629.8	572.4	549.8	530.4	524.4	522.4
27.5°	1170.2	1122.9	976.1	833.3	721.2	644.5	578.4	549.1	531.1	523.7	528.4
30°	1281.0	1229.6	1068.8	881.3	769.9	676.5	590.5	555.8	560.4	566.4	571.1
32.5°	1365.7	1298.3	1109.5	887.3	761.9	682.5	609.8	568.4	555.1	563.1	564.4
35°	1449.1	1367.0	1162.2	925.4	772.6	660.5	596.5	572.4	568.4	579.1	577.1
37.5°	1618.6	1511.2	1227.6	936.0	762.6	634.5	573.8	548.4	527.7	525.1	528.4
40°	1840.1	1696.0	1293.0	931.4	715.9	603.1	545.1	516.4	500.4	490.4	484.4
42.5°	1729.3	1584.5	1208.9	894.0	659.2	547.1	515.7	490.4	469.7	457.0	453.7
45°	1850.7	1709.3	1230.3	818.6	594.5	497.0	471.7	454.3	425.7	413.6	411.6
46°	1814.1	1653.9	1206.3	795.3	563.1	475.7	454.3	436.3	415.0	398.3	397.0
47.5°	1680.6	1493.8	1135.5	732.6	541.7	440.3	425.7	415.0	403.6	384.3	381.6
50°	1499.8	1357.0	1008.1	651.2	456.3	393.0	380.3	377.0	364.3	340.9	342.9
52.5°	1485.8	1347.7	938.7	599.1	405.0	344.3	340.3	330.3	319.6	298.9	298.2
55°	716.5	609.1	521.1	469.0	338.9	304.9	302.9	298.2	284.9	266.2	269.5
57.5°	339.6	295.6	255.5	270.9	266.2	267.5	268.9	268.2	252.9	227.5	232.8
60°	297.6	258.2	220.8	209.5	220.2	236.8	236.8	226.8	205.5	175.5	172.8
62.5°	286.9	247.5	213.5	198.2	203.5	213.5	208.2	192.1	170.8	143.4	142.1
65°	288.2	246.2	212.8	193.5	198.2	202.2	192.1	179.5	168.1	148.8	148.8
67.5°	294.2	251.5	215.5	191.5	194.8	197.5	188.1	178.8	172.1	157.5	158.8
70°	295.6	254.9	218.2	192.1	191.5	194.1	187.5	178.8	175.5	165.5	164.8
72.5°	295.6	257.5	215.5	187.5	186.1	187.5	183.5	178.8	178.1	172.1	170.8
75°	285.6	251.5	206.2	178.1	176.8	178.1	176.8	176.1	178.8	176.1	173.5
77.5°	275.5	245.5	199.5	170.8	168.8	168.1	167.5	168.1	172.1	170.1	166.1
80°	280.2	248.2	198.2	164.8	158.8	156.1	156.1	156.8	156.8	150.8	144.8
82.5°	288.2	252.9	191.5	153.5	143.4	138.8	140.1	144.8	146.8	142.1	137.4
85°	317.6	274.2	192.8	145.4	130.8	125.4	127.4	133.4	129.4	122.8	117.4
87.5°	330.3	281.5	188.8	133.4	121.4	119.4	119.4	122.8	120.1	109.4	104.7
90°	315.6	269.5	170.8	113.4	105.4	107.4	108.1	104.7	93.4	81.4	77.4
92.5°	295.6	252.2	158.1	104.1	93.4	92.7	92.1	90.1	81.4	68.1	65.4
95°	278.9	237.5	146.1	95.4	85.4	83.4	82.7	80.1	72.1	62.0	60.7
97.5°	242.9	207.5	132.8	88.1	76.7	75.4	74.7	71.4	64.0	56.7	56.0
100°	218.2	184.8	118.8	79.4	69.4	67.4	66.7	64.7	58.7	53.4	52.7
102.5°	198.2	169.5	110.1	72.7	62.0	59.4	59.4	58.0	54.7	51.4	51.4
105°	192.8	166.1	106.7	66.7	55.4	54.0	53.4	53.4	50.7	48.7	48.7
107.5°	169.5	145.4	92.1	59.4	50.0	48.7	48.7	48.7	48.0	47.4	48.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	152.8	131.4	84.7	55.4	46.7	44.7	44.7	44.7	44.7	46.0	46.0
112.5°	136.1	118.1	78.1	52.7	43.4	41.4	40.0	39.4	38.7	41.4	42.0
115°	128.8	112.8	74.7	50.0	41.4	39.4	36.7	35.4	33.4	35.4	36.0
117.5°	121.4	106.7	73.4	49.4	40.0	36.7	34.0	32.7	30.0	32.0	32.0
120°	119.4	106.1	74.7	50.0	38.7	34.0	32.0	28.7	27.4	28.7	29.4
122.5°	110.1	98.1	70.1	46.7	36.7	32.7	30.0	24.7	24.0	26.0	26.0
125°	93.4	84.1	60.7	42.0	34.7	32.0	29.4	22.0	22.7	24.0	24.7
127.5°	82.1	74.1	55.4	40.7	34.7	32.7	27.4	19.3	21.3	23.4	24.0
130°	76.7	70.7	55.4	42.0	36.0	33.4	22.7	18.0	20.0	22.0	22.0
132.5°	74.7	70.1	56.7	44.7	37.4	32.0	18.7	16.7	18.7	20.0	20.0
135°	68.7	64.7	54.0	43.4	34.0	25.4	14.7	14.7	17.3	18.7	18.7
137.5°	60.7	57.4	48.7	40.0	30.0	19.3	10.7	12.7	14.7	16.0	16.0
140°	48.7	46.7	40.0	31.4	21.3	10.7	8.0	10.0	12.0	13.3	13.3
142.5°	34.7	33.4	28.0	20.0	12.7	4.7	5.3	7.3	9.3	10.7	10.7
145°	22.7	21.3	17.3	12.7	5.3	1.3	3.3	5.3	7.3	8.0	8.0
147.5°	14.0	13.3	10.7	6.0	2.0	1.3	1.3	4.0	5.3	6.0	6.0
150°	7.3	6.7	4.7	2.0	0.7	0.7	0.7	1.3	3.3	4.0	4.7
152.5°	2.0	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.7	0.7	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	0.7	0.0	0.7	0.7	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)