

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: P240423

Luminaire Tested: **UTLD-AF24-100-D-U-T3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7661.3 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

Input Watts (W): 96
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



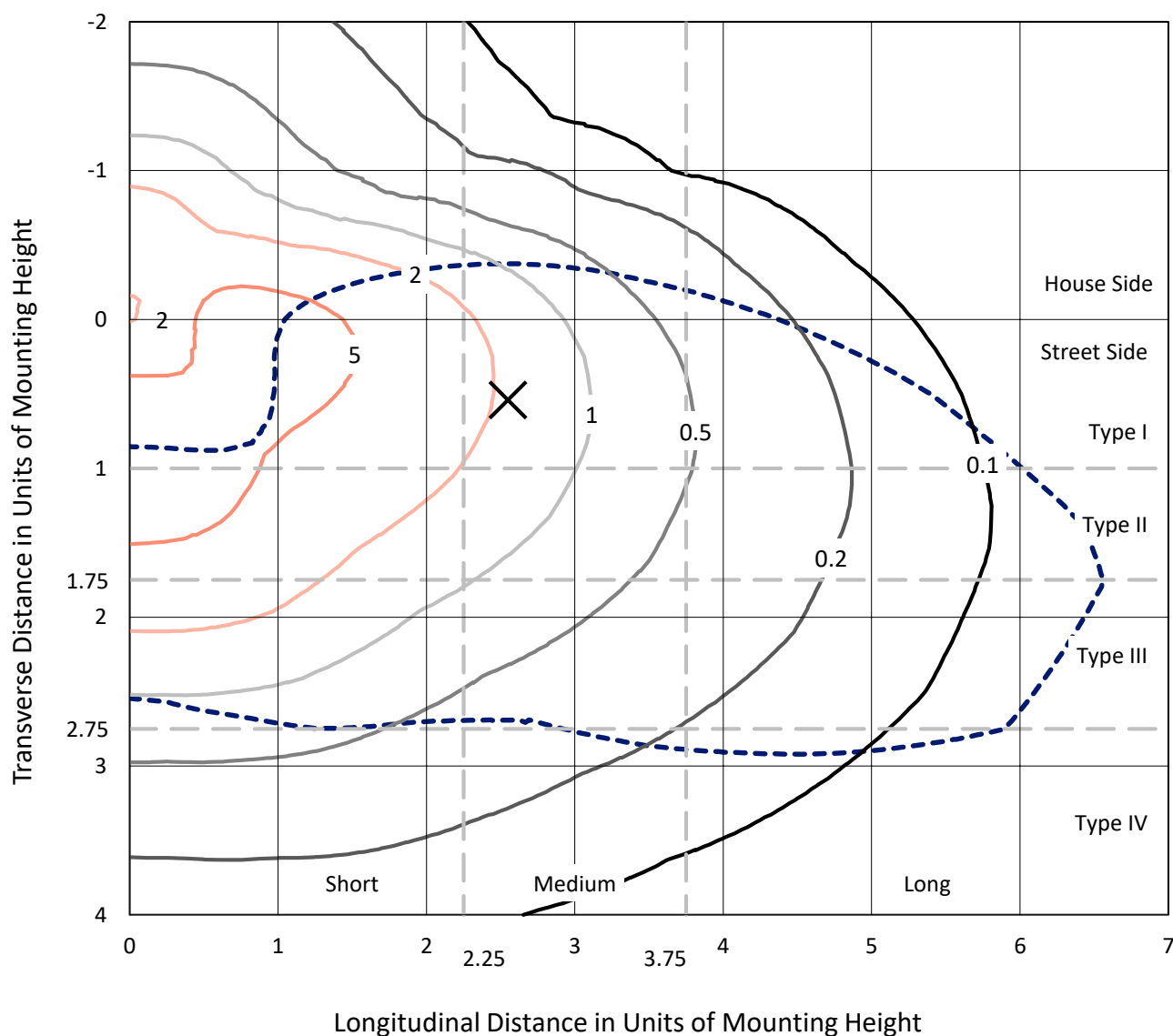
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

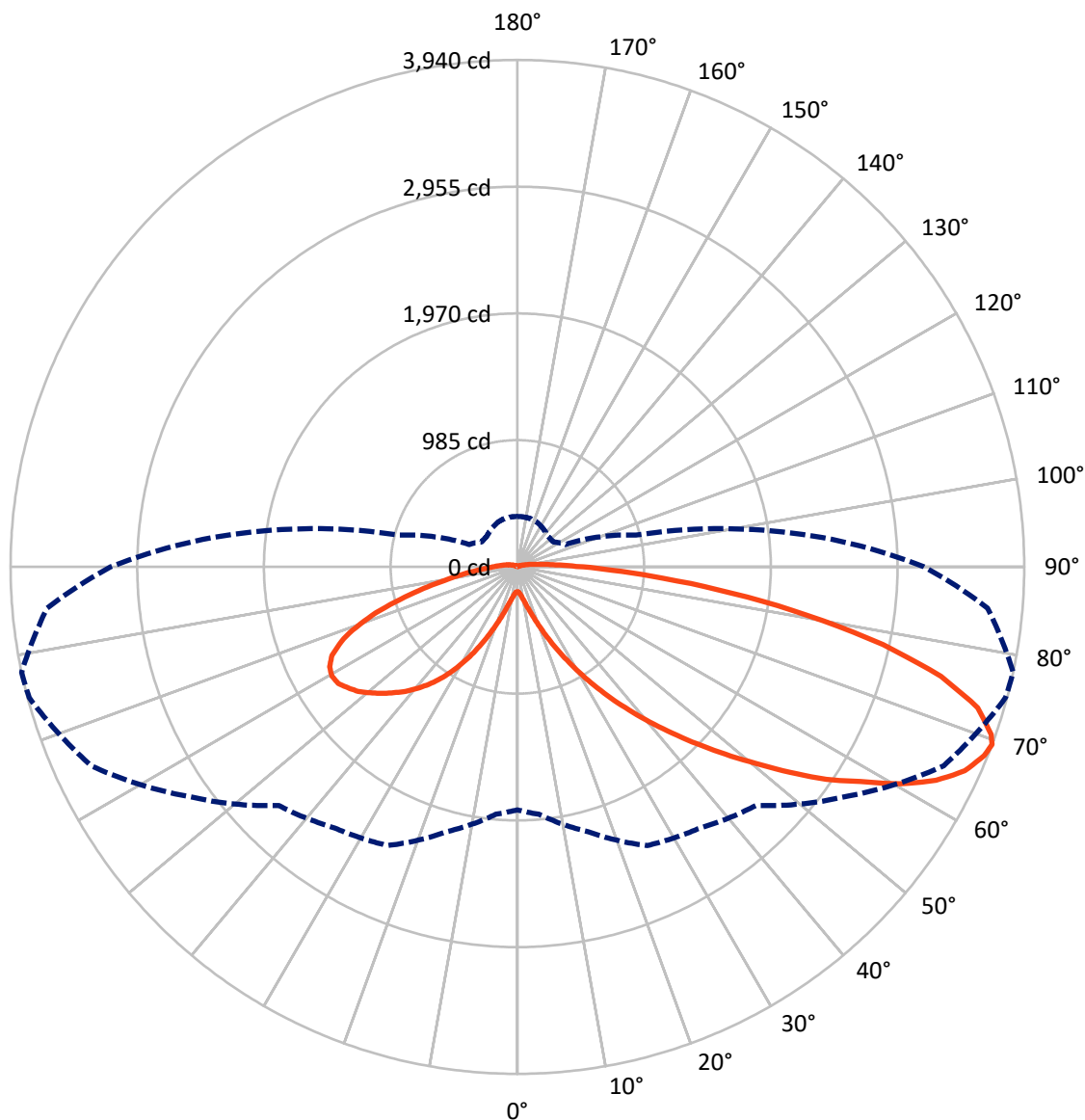


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral

- - - Horizontal Cone Through 69-Deg Vertical

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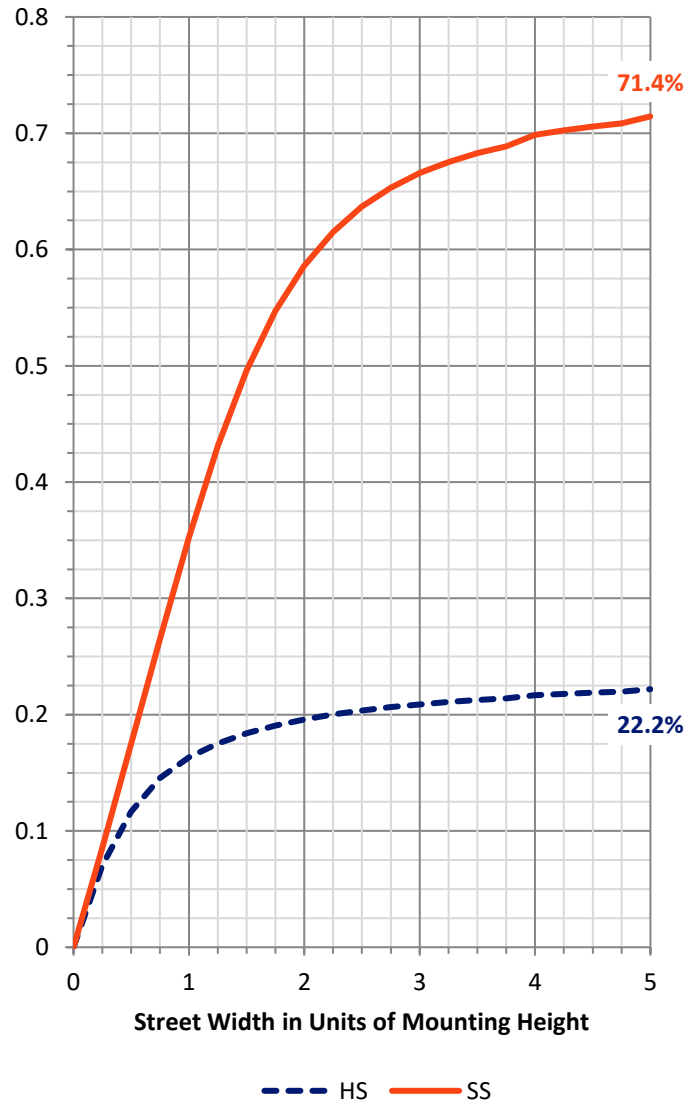
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1779.7	133.7	1913.4
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	5600.9	146.9	5747.8
	% Fixture	73.1	1.9	75.0
Total	Lumens	7380.6	280.6	7661.3
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	0.3
10°-20°	98.4	1.3
20°-30°	280.7	3.7
30°-40°	596.6	7.8
40°-50°	1034.2	13.5
50°-60°	1548.4	20.2
60°-70°	1843.0	24.1
70°-80°	1405.8	18.3
80°-90°	552.3	7.2
90°-100°	162.1	2.1
100°-110°	65.6	0.9
110°-120°	29.6	0.4
120°-130°	14.3	0.2
130°-140°	6.7	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7380.6	96.3
0°-180°	7661.3	100.0

Coefficient of Utilization



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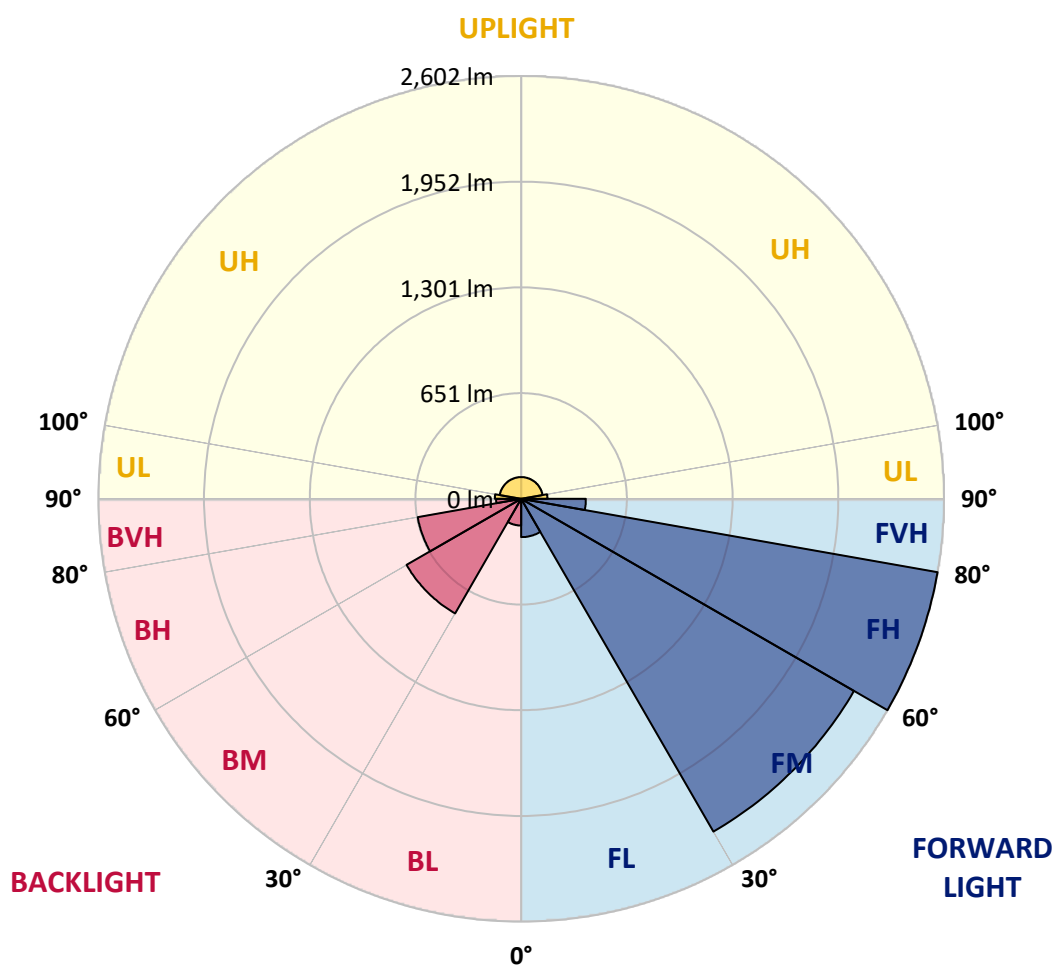
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.7	3.1			
FM	(30°-60°)	2364.9	30.9			
FH	(60°-80°)	2602.4	34.0			G2/5000
FVH	(80°-90°)	397.9	5.2			G3/500
BL	(0°-30°)	164.6	2.1	B1/500		
BM	(30°-60°)	814.4	10.6	B1/1000		
BH	(60°-80°)	646.4	8.4	B2/1000		G2/1000
BVH	(80°-90°)	154.3	2.0			G2/225
UL	(90°-100°)	162.1	2.1		U3/500	
UH	(100°-180°)	133.7	1.7		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6
2.5°	207.9	207.9	206.9	206.9	206.1	204.1	201.1	199.3	198.3	198.3	196.3
5°	231.2	231.2	229.2	229.2	226.2	223.4	219.6	214.7	211.9	210.9	207.9
7.5°	262.1	261.1	260.1	257.3	254.3	248.6	243.7	239.0	233.0	232.1	228.3
10°	301.8	299.8	299.8	296.0	290.2	283.4	274.7	267.9	262.1	261.1	257.3
12.5°	354.0	352.1	349.2	341.4	332.7	322.1	314.3	307.6	301.8	299.8	295.0
15°	415.9	414.9	407.2	397.4	382.1	368.5	359.8	354.0	352.1	350.1	345.3
17.5°	493.3	488.5	480.7	461.4	441.1	421.7	414.0	414.9	415.9	415.9	412.0
20°	579.4	577.4	565.9	539.7	511.7	487.6	480.7	486.5	494.3	494.3	493.3
22.5°	692.4	686.7	665.5	628.7	589.0	564.9	555.1	567.7	589.0	590.0	593.9
25°	816.3	814.4	780.5	726.3	676.1	647.1	640.3	655.8	694.5	697.4	708.0
27.5°	953.8	948.8	917.9	841.6	775.7	733.1	730.3	764.2	805.7	820.2	835.8
30°	1120.0	1115.2	1056.2	968.1	888.0	831.8	832.8	876.3	940.1	952.7	974.9
32.5°	1292.2	1287.4	1226.4	1116.2	1009.8	940.1	942.1	1006.9	1080.3	1095.9	1120.0
35°	1490.6	1488.5	1408.3	1272.9	1138.4	1054.3	1068.8	1137.5	1228.4	1253.5	1274.8
37.5°	1705.2	1683.9	1605.6	1447.9	1279.7	1187.7	1198.3	1290.3	1397.7	1409.2	1430.5
40°	1920.9	1916.1	1822.2	1645.2	1442.1	1328.0	1342.5	1446.0	1562.1	1583.3	1594.9
42.5°	2148.1	2146.3	2036.0	1842.5	1610.4	1482.7	1496.3	1614.3	1743.9	1764.2	1770.0
45°	2390.0	2376.5	2267.1	2050.5	1804.9	1647.2	1671.3	1793.3	1946.0	1962.6	1965.3
47.5°	2597.9	2580.6	2498.3	2272.9	1994.4	1825.1	1843.5	1995.4	2155.9	2173.3	2166.6
50°	2785.6	2777.8	2694.7	2495.5	2202.3	2005.0	2031.1	2196.5	2377.5	2398.7	2391.9
52.5°	2908.5	2903.6	2869.7	2677.3	2385.1	2188.8	2225.6	2405.5	2619.3	2650.2	2614.3
55°	2969.3	2969.3	2976.1	2836.8	2552.6	2363.0	2420.0	2637.6	2870.7	2914.3	2863.9
57.5°	2964.5	2958.7	3014.8	2946.1	2681.1	2503.1	2614.3	2884.2	3128.9	3146.3	3120.2
60°	2854.3	2872.7	2971.3	2983.9	2773.0	2627.9	2800.1	3112.5	3375.6	3422.0	3342.7
62.5°	2678.3	2713.0	2857.1	2940.3	2798.1	2717.0	2959.8	3312.7	3604.8	3652.2	3539.0
65°	2435.5	2471.2	2648.2	2808.8	2747.9	2746.9	3069.0	3495.5	3787.7	3821.5	3669.7
67.5°	2130.8	2142.3	2346.5	2577.7	2605.8	2701.4	3121.2	3621.3	3920.1	3914.3	3716.0
69°	1888.0	1929.6	2130.8	2389.1	2476.2	2622.1	3111.6	3656.2	3927.9	3939.5	3669.7
70°	1765.2	1773.0	1971.1	2233.4	2385.1	2550.5	3078.7	3648.3	3915.3	3906.6	3616.5
72.5°	1370.5	1386.1	1567.9	1853.1	2063.1	2312.6	2917.1	3517.8	3763.4	3741.2	3342.7
75°	977.9	1004.0	1171.3	1439.3	1687.8	2002.1	2619.3	3237.3	3451.1	3399.8	2949.0
77.5°	667.3	694.5	819.2	1065.0	1312.5	1655.0	2209.1	2812.7	2959.8	2906.6	2410.4
80°	428.6	446.9	545.5	739.9	975.9	1270.9	1759.4	2253.6	2384.2	2289.4	1842.5
82.5°	283.4	295.0	363.8	501.1	682.9	937.2	1304.8	1683.9	1741.9	1682.0	1291.2
85°	191.5	199.3	248.6	340.5	478.8	659.6	923.7	1171.3	1218.7	1135.5	860.9
87.5°	131.5	139.3	178.9	237.9	332.7	460.4	619.1	787.3	772.8	734.1	561.9
90°	93.9	100.6	128.6	169.3	235.0	320.1	413.0	498.1	496.1	458.5	358.8
92.5°	67.7	73.5	97.7	126.7	174.0	224.4	278.6	313.3	313.3	297.9	237.9
95°	51.3	55.1	74.6	96.7	130.6	166.4	194.4	212.8	208.9	197.3	172.2
97.5°	40.7	43.4	59.0	78.3	103.5	128.6	145.1	147.1	144.1	140.3	127.8
100°	33.9	35.8	49.2	65.8	86.1	104.5	112.2	109.3	105.4	104.5	97.7
102.5°	29.1	29.9	42.6	57.1	73.5	87.1	89.9	85.1	80.3	79.3	76.4
105°	26.1	26.1	36.7	49.2	62.9	72.5	74.6	68.8	62.0	60.0	59.0
107.5°	23.2	24.1	31.9	43.4	54.2	62.0	62.0	55.1	47.4	45.5	45.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	21.3	21.3	28.1	38.7	47.4	53.2	52.2	44.5	36.7	34.9	35.8
112.5°	19.3	19.3	25.1	33.9	41.6	45.5	43.4	35.8	29.1	28.1	28.1
115°	18.3	18.3	22.3	29.9	35.8	38.7	36.7	29.1	23.2	22.3	23.2
117.5°	16.4	17.4	20.3	26.1	30.9	33.9	30.9	24.1	19.3	18.3	20.3
120°	15.6	16.4	18.3	22.3	27.1	29.1	25.1	20.3	16.4	16.4	17.4
122.5°	14.5	15.6	16.4	20.3	23.2	24.1	21.3	16.4	13.5	14.5	15.6
125°	14.5	14.5	15.6	17.4	20.3	20.3	17.4	13.5	12.6	12.6	13.5
127.5°	13.5	13.5	13.5	15.6	17.4	17.4	14.5	11.6	10.6	11.6	12.6
130°	12.6	12.6	12.6	13.5	14.5	14.5	12.6	9.8	9.8	9.8	10.6
132.5°	11.6	11.6	11.6	11.6	12.6	11.6	9.8	7.7	8.7	8.7	9.8
135°	10.6	10.6	10.6	10.6	9.8	8.7	6.8	6.8	7.7	7.7	8.7
137.5°	9.8	9.8	9.8	8.7	7.7	6.8	5.8	5.8	6.8	6.8	7.7
140°	8.7	8.7	8.7	6.8	5.8	4.8	3.9	3.9	5.8	5.8	5.8
142.5°	7.7	7.7	6.8	5.8	4.8	2.9	1.9	2.9	3.9	3.9	4.8
145°	5.8	5.8	5.8	4.8	2.9	1.9	1.0	1.9	2.9	2.9	3.9
147.5°	4.8	4.8	4.8	3.9	1.9	1.0	1.0	1.0	1.9	1.9	2.9
150°	3.9	3.9	2.9	2.9	1.0	0.0	0.0	1.0	1.0	1.9	1.9
152.5°	2.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	1.0	1.0	1.0
155°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	1.0	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°	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6
2.5°	195.3	194.4	193.5	191.5	190.5	188.6	186.8	184.7	184.7	184.7	183.8
5°	206.9	205.1	202.1	198.3	195.3	192.6	189.6	186.8	185.7	184.7	184.7
7.5°	225.4	223.4	217.7	212.8	206.9	203.1	198.3	196.3	194.4	193.5	193.5
10°	253.4	249.5	241.8	234.1	227.3	219.6	214.7	211.9	208.9	207.9	208.9
12.5°	291.1	284.4	274.7	263.1	251.6	241.8	236.0	233.0	232.1	231.2	231.2
15°	343.4	338.4	319.1	298.9	282.4	268.9	261.1	258.3	264.1	265.9	265.9
17.5°	411.1	402.4	379.1	351.0	317.3	296.9	291.1	296.0	300.8	306.6	307.6
20°	495.3	480.7	450.7	405.3	359.8	330.8	325.9	331.7	343.4	351.0	352.1
22.5°	587.0	577.4	531.0	463.3	402.4	368.5	357.9	366.6	384.9	395.6	396.6
25°	705.2	689.7	619.9	527.1	446.9	399.5	386.9	399.5	421.7	438.1	439.1
27.5°	833.7	809.6	718.6	591.0	484.6	425.6	410.0	426.5	456.4	475.9	477.8
30°	967.3	933.4	816.3	650.9	518.4	442.9	426.5	446.9	480.7	502.9	505.9
32.5°	1107.5	1066.8	906.3	703.2	540.8	452.7	435.3	459.4	495.3	518.4	521.3
35°	1250.6	1199.3	990.4	740.9	551.3	454.6	436.2	463.3	498.1	522.3	525.2
37.5°	1401.5	1326.1	1063.9	767.0	553.3	448.8	432.3	459.4	492.3	514.6	516.5
40°	1547.5	1449.9	1125.8	778.6	546.6	440.1	422.8	450.7	478.8	495.3	497.1
42.5°	1708.2	1583.3	1180.0	778.6	532.9	429.5	412.0	438.1	460.4	472.0	473.0
45°	1871.6	1716.8	1222.6	768.9	515.4	415.9	401.4	424.6	442.1	446.9	446.9
47.5°	2060.2	1857.1	1262.3	752.5	496.1	402.4	390.7	412.0	424.6	424.6	425.6
50°	2249.7	2004.1	1292.2	729.3	473.9	390.7	382.1	402.4	412.0	406.2	406.2
52.5°	2454.8	2154.9	1320.3	699.3	453.7	380.1	376.3	397.4	404.3	395.6	393.7
55°	2661.8	2297.1	1326.1	661.6	430.4	371.4	373.3	393.7	400.4	390.7	389.8
57.5°	2883.3	2443.2	1325.1	618.1	410.0	364.6	370.5	392.7	399.5	389.8	388.9
60°	3054.5	2558.3	1294.1	572.6	391.7	357.9	369.6	391.7	399.5	391.7	391.7
62.5°	3209.3	2626.0	1236.2	524.2	374.3	353.0	366.6	389.8	397.4	393.7	393.7
65°	3279.9	2645.3	1147.1	476.8	359.8	347.2	364.6	386.9	395.6	394.7	395.6
67.5°	3236.4	2555.3	1029.1	434.3	346.3	340.5	359.8	382.1	391.7	393.7	394.7
69°	3160.9	2454.8	955.6	412.0	338.4	335.7	355.9	377.2	388.9	391.7	391.7
70°	3094.1	2368.7	894.8	398.5	332.7	332.7	354.0	374.3	385.9	388.9	389.8
72.5°	2771.2	2088.3	756.4	362.7	320.1	323.1	344.3	364.6	377.2	380.1	380.1
75°	2374.5	1712.9	616.1	332.7	305.6	312.4	332.7	352.1	363.8	366.6	365.6
77.5°	1891.0	1328.0	500.1	306.6	289.2	296.0	317.3	335.7	347.2	349.2	345.3
80°	1411.2	968.1	405.3	279.4	269.9	278.6	297.9	313.3	324.9	325.9	320.1
82.5°	977.9	699.3	329.9	253.4	248.6	255.3	272.7	286.3	296.9	294.0	291.1
85°	651.9	479.7	269.9	224.4	224.4	232.1	244.7	253.4	264.1	260.1	254.3
87.5°	429.5	330.8	221.5	196.3	198.3	205.1	214.7	217.7	227.3	224.4	217.7
90°	291.1	237.9	181.8	169.3	172.2	178.9	183.8	183.8	190.5	185.7	182.8
92.5°	206.9	181.8	151.9	146.1	148.9	154.7	155.7	151.9	157.7	154.7	150.9
95°	155.7	143.1	128.6	125.7	129.6	133.6	132.5	126.7	128.6	126.7	125.7
97.5°	121.0	117.0	109.3	107.4	111.2	114.1	112.2	105.4	106.4	104.5	102.4
100°	97.7	94.8	92.9	92.9	95.7	96.7	93.9	88.1	87.1	84.1	85.1
102.5°	77.3	77.3	78.3	80.3	82.2	82.2	78.3	73.5	71.6	68.8	68.8
105°	60.9	62.0	65.8	66.7	68.8	68.8	64.8	60.9	57.1	54.2	54.2
107.5°	47.4	49.2	53.2	56.0	58.0	57.1	54.2	50.3	45.5	42.6	42.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	37.7	39.7	43.4	47.4	48.4	48.4	45.5	40.7	34.9	33.9	33.9
112.5°	30.9	31.9	36.7	39.7	40.7	40.7	37.7	33.9	28.1	27.1	27.1
115°	25.1	26.1	29.9	32.9	33.9	33.9	31.9	28.1	22.3	22.3	22.3
117.5°	21.3	22.3	25.1	28.1	29.1	29.1	26.1	22.3	18.3	18.3	18.3
120°	18.3	19.3	21.3	23.2	24.1	24.1	22.3	18.3	15.6	15.6	15.6
122.5°	16.4	17.4	18.3	20.3	21.3	21.3	18.3	14.5	13.5	13.5	13.5
125°	14.5	15.6	16.4	17.4	18.3	17.4	15.6	12.6	11.6	12.6	12.6
127.5°	12.6	13.5	14.5	14.5	15.6	14.5	12.6	10.6	9.8	10.6	10.6
130°	11.6	11.6	12.6	12.6	13.5	12.6	10.6	8.7	8.7	9.8	9.8
132.5°	10.6	10.6	10.6	10.6	11.6	10.6	8.7	6.8	7.7	8.7	8.7
135°	8.7	8.7	9.8	8.7	9.8	7.7	6.8	5.8	6.8	7.7	7.7
137.5°	7.7	7.7	7.7	7.7	6.8	6.8	4.8	4.8	5.8	6.8	5.8
140°	6.8	6.8	6.8	5.8	5.8	4.8	3.9	3.9	4.8	4.8	4.8
142.5°	4.8	4.8	4.8	4.8	3.9	2.9	1.9	2.9	2.9	3.9	3.9
145°	3.9	3.9	3.9	2.9	1.9	1.9	1.0	1.9	1.9	2.9	2.9
147.5°	2.9	2.9	2.9	1.9	1.9	1.0	1.0	1.0	1.9	1.9	1.9
150°	1.9	1.9	1.9	1.9	1.0	0.0	0.0	0.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	1.0	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)