

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: P240530

Luminaire Tested: **UTLD-AF24-90-D-U-SL3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
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-SL3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7382.7 lumens
Efficiency: N/A
Efficacy: 78.5 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): 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



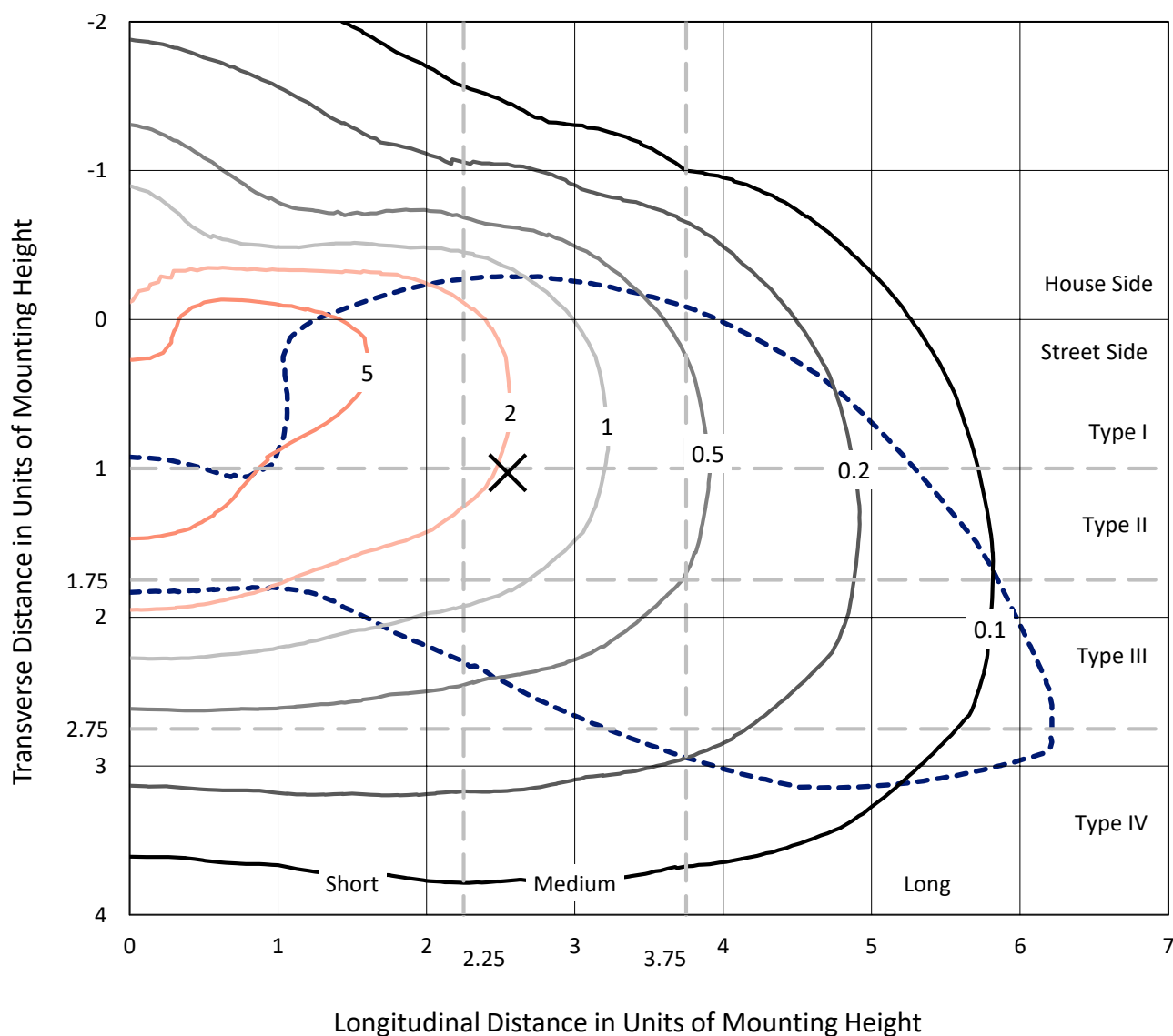
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

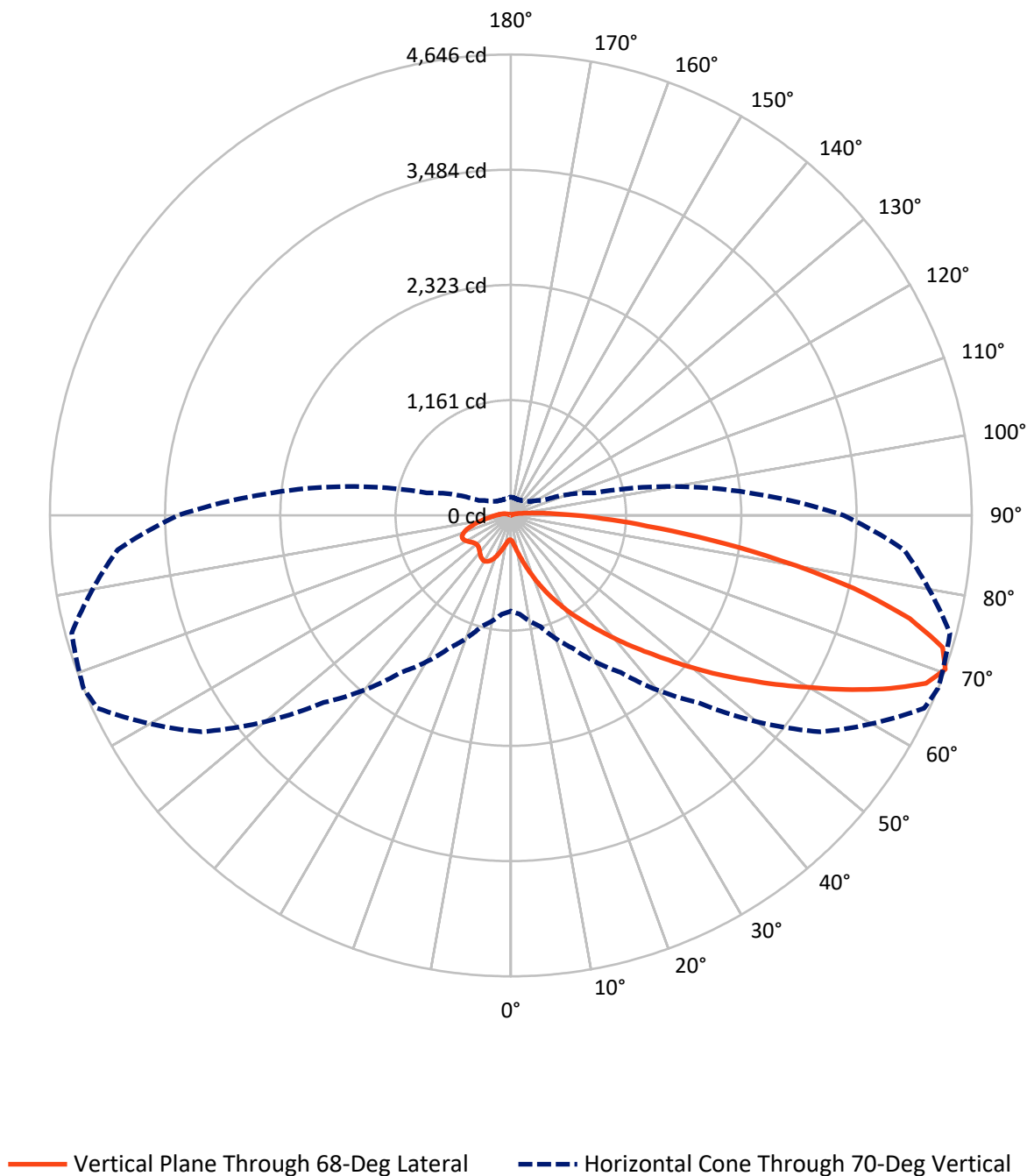


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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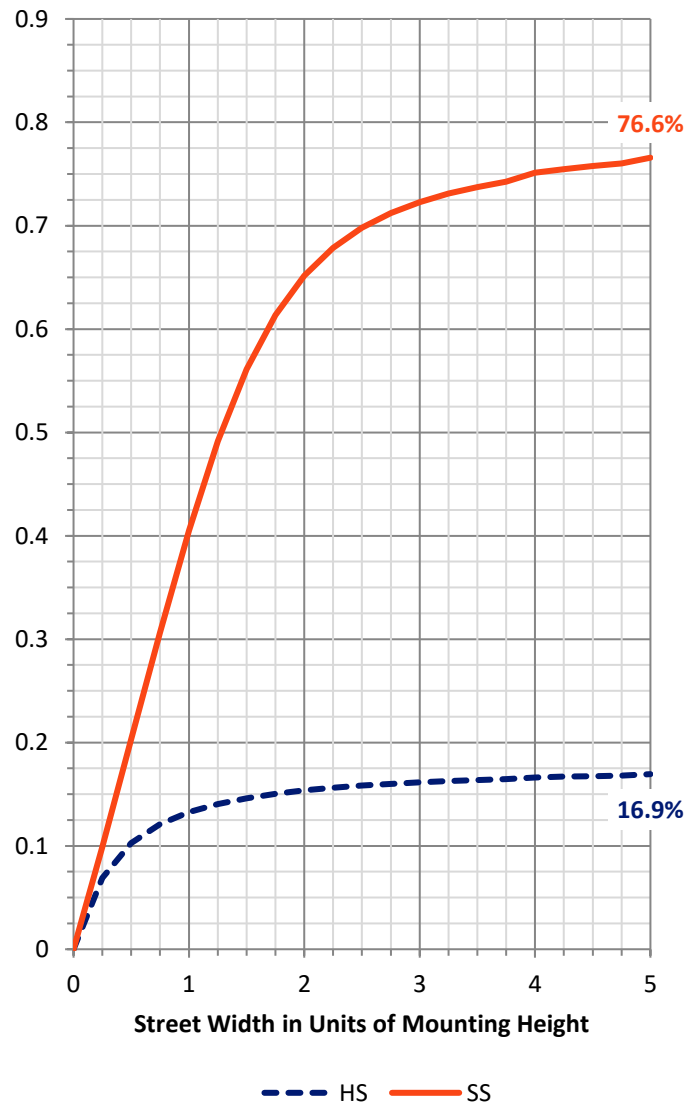
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1304.9	119.9	1424.8
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	5793.6	164.2	5957.8
	% Fixture	78.5	2.2	80.7
Total	Lumens	7098.6	284.1	7382.7
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	0.4
10°-20°	117.2	1.6
20°-30°	296.4	4.0
30°-40°	574.4	7.8
40°-50°	968.4	13.1
50°-60°	1447.9	19.6
60°-70°	1755.6	23.8
70°-80°	1369.8	18.6
80°-90°	542.0	7.3
90°-100°	166.0	2.2
100°-110°	65.2	0.9
110°-120°	28.9	0.4
120°-130°	14.3	0.2
130°-140°	7.0	0.1
140°-150°	2.3	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7098.6	96.2
0°-180°	7382.7	100.0

Coefficient of Utilization



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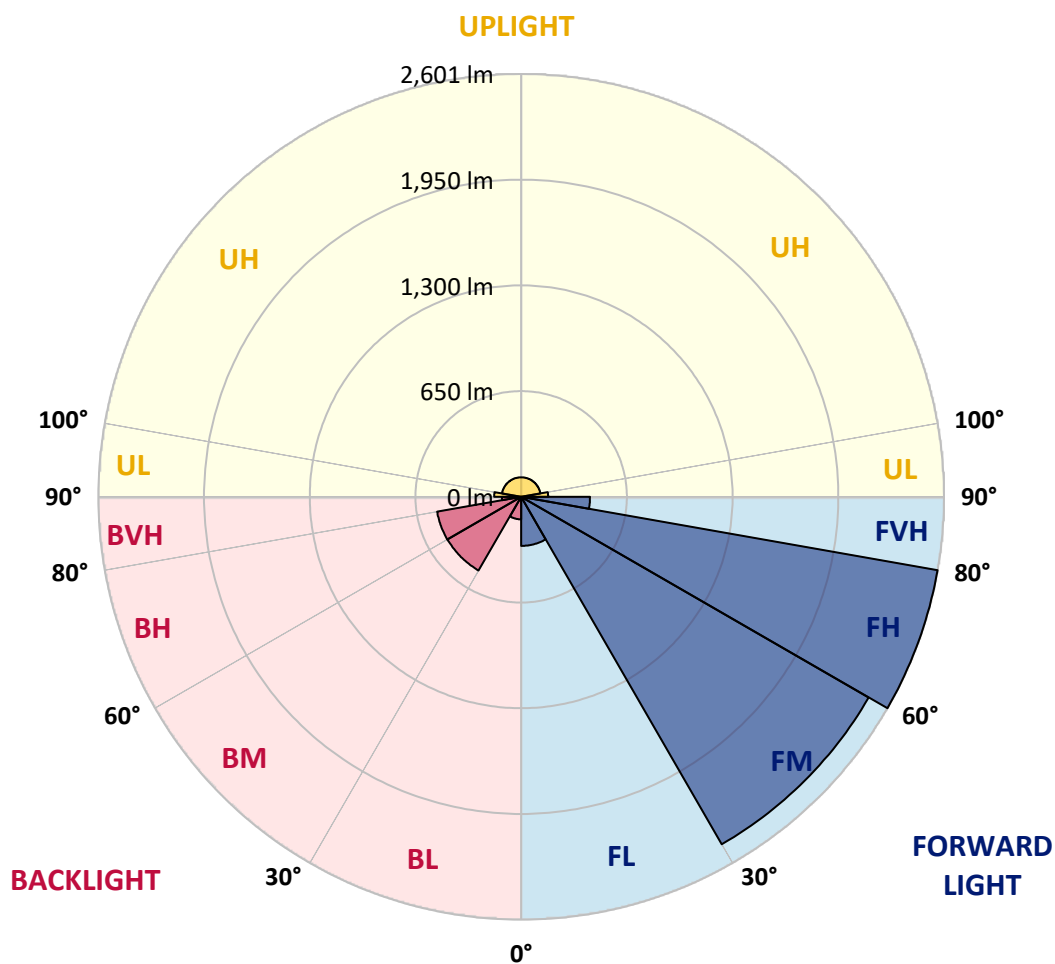
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.8	4.1			
FM	(30°-60°)	2467.6	33.4			
FH	(60°-80°)	2600.6	35.2			G2/5000
FVH	(80°-90°)	423.6	5.7			G3/500
BL	(0°-30°)	138.7	1.9	B1/500		
BM	(30°-60°)	523.1	7.1	B1/1000		
BH	(60°-80°)	524.8	7.1	B2/1000		G2/1000
BVH	(80°-90°)	118.4	1.6			G2/225
UL	(90°-100°)	166.0	2.2		U3/500	
UH	(100°-180°)	119.9	1.6		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°	68°	75°	85°
0°	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0
2.5°	276.1	277.0	277.0	274.1	273.1	270.3	265.4	263.6	261.5	259.6	255.7
5°	312.7	312.7	310.9	307.9	304.1	301.1	296.3	290.5	289.5	282.8	276.1
7.5°	354.2	355.2	356.1	351.4	345.6	340.7	334.9	327.2	325.3	318.5	305.9
10°	409.2	410.3	408.3	403.5	395.7	389.9	383.2	375.5	372.6	366.8	349.4
12.5°	475.9	474.8	469.0	462.3	453.7	446.9	438.2	432.4	430.5	424.7	406.3
15°	546.3	550.1	543.4	527.9	517.4	506.8	502.9	502.9	504.8	498.0	480.6
17.5°	637.1	639.9	628.4	607.2	589.8	578.2	574.2	582.1	584.9	587.9	572.4
20°	742.2	743.2	724.8	695.0	664.1	649.5	650.5	668.8	675.7	686.2	667.9
22.5°	870.6	862.9	836.8	790.5	746.1	723.0	731.6	768.3	774.1	796.3	786.6
25°	1004.7	1003.9	960.4	898.6	833.9	804.0	818.5	863.9	880.3	914.1	901.5
27.5°	1159.2	1155.3	1099.3	1023.1	935.3	890.9	903.5	968.1	987.3	1044.4	1030.9
30°	1323.3	1324.2	1258.6	1152.4	1043.4	981.5	989.4	1079.2	1104.2	1169.8	1166.1
32.5°	1519.2	1507.7	1434.3	1295.3	1161.1	1077.2	1087.7	1192.0	1226.8	1305.0	1293.4
35°	1716.1	1701.7	1604.2	1451.7	1283.7	1184.4	1189.2	1312.6	1349.4	1450.8	1428.6
37.5°	1897.7	1889.8	1792.4	1616.7	1420.8	1303.0	1308.8	1442.0	1488.3	1601.3	1574.3
40°	2092.6	2092.6	1993.2	1802.0	1573.4	1431.4	1440.1	1585.9	1641.8	1765.4	1720.0
42.5°	2299.2	2292.4	2187.2	1970.9	1724.8	1569.4	1586.8	1748.0	1810.8	1942.0	1895.6
45°	2502.8	2488.3	2379.2	2154.4	1876.4	1724.8	1750.9	1925.5	1991.2	2158.2	2093.5
47.5°	2678.5	2662.9	2555.9	2319.3	2035.6	1886.1	1922.8	2132.2	2201.7	2400.5	2302.0
50°	2803.9	2799.1	2694.9	2450.6	2177.5	2052.0	2129.3	2352.3	2435.3	2636.0	2543.3
52.5°	2877.4	2868.6	2785.6	2569.4	2319.3	2223.9	2341.7	2591.6	2679.5	2895.6	2787.5
55°	2860.9	2855.1	2796.3	2632.2	2430.4	2389.0	2577.1	2858.0	2940.0	3173.7	3045.3
57.5°	2731.6	2739.2	2721.8	2636.0	2512.4	2559.7	2818.5	3138.9	3225.8	3453.5	3316.4
60°	2500.8	2498.0	2547.2	2561.7	2545.3	2707.5	3109.9	3459.3	3525.9	3755.7	3581.0
62.5°	2160.2	2152.4	2259.6	2397.5	2521.1	2831.9	3372.5	3801.0	3867.6	4053.0	3825.1
65°	1742.2	1777.0	1911.2	2138.9	2401.4	2879.2	3627.3	4149.4	4204.6	4302.9	4017.3
67.5°	1320.4	1354.2	1527.9	1816.6	2201.7	2824.3	3789.4	4462.1	4515.2	4541.4	4101.1
70°	964.2	997.1	1161.1	1477.7	1930.4	2665.0	3802.0	4597.3	4645.6	4581.9	3977.7
72.5°	686.2	703.6	844.6	1144.7	1621.5	2386.0	3643.7	4510.4	4550.0	4373.4	3651.5
75°	485.5	493.2	614.8	870.6	1320.4	2070.4	3267.3	4121.5	4152.4	3930.4	3105.0
77.5°	331.0	348.4	445.0	664.1	1058.8	1699.7	2769.1	3533.7	3533.7	3251.8	2456.4
80°	234.6	249.0	319.5	496.1	829.2	1361.9	2237.4	2807.9	2763.3	2443.9	1770.2
82.5°	169.0	180.5	236.4	378.4	643.7	1076.2	1697.8	2079.1	2018.2	1705.5	1169.8
85°	122.6	134.2	179.5	277.9	493.2	835.0	1272.1	1444.0	1384.1	1130.3	759.6
87.5°	89.8	97.5	134.2	209.4	373.5	632.2	933.4	980.6	927.6	730.6	487.4
90°	63.7	70.5	102.2	158.3	279.9	474.8	655.3	643.7	585.8	459.4	322.5
92.5°	46.3	51.2	76.3	120.6	208.4	348.4	450.8	416.1	383.2	295.3	224.0
95°	34.8	38.6	59.9	93.6	153.5	245.2	304.1	273.1	248.0	201.7	165.1
97.5°	28.0	30.9	49.2	75.3	118.8	178.5	210.5	180.5	169.0	145.8	127.4
100°	24.1	26.1	41.5	62.8	93.6	134.2	148.6	126.4	119.6	110.1	99.4
102.5°	22.2	23.2	36.7	54.1	76.3	100.4	107.2	94.6	89.8	84.0	78.2
105°	20.3	21.2	32.8	47.3	64.7	78.2	82.1	72.4	69.5	63.7	59.9
107.5°	19.3	19.3	29.0	41.5	55.0	64.7	64.7	57.0	54.1	48.3	46.3
110°	18.3	18.3	26.1	37.7	47.3	55.0	53.1	45.4	42.5	36.7	35.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	17.4	17.4	24.1	32.8	41.5	46.3	44.4	36.7	33.8	28.0	28.0
115°	16.4	16.4	21.2	29.0	36.7	39.6	37.7	29.9	28.0	22.2	23.2
117.5°	16.4	16.4	20.3	26.1	31.9	34.8	31.9	24.1	22.2	18.3	20.3
120°	15.4	15.4	18.3	23.2	28.0	29.9	27.0	20.3	18.3	15.4	17.4
122.5°	15.4	15.4	17.4	20.3	25.1	26.1	23.2	17.4	15.4	13.5	15.4
125°	14.5	14.5	16.4	18.3	21.2	22.2	19.3	14.5	13.5	12.6	13.5
127.5°	14.5	14.5	15.4	16.4	19.3	19.3	16.4	11.6	11.6	10.6	12.6
130°	13.5	14.5	14.5	15.4	16.4	16.4	13.5	9.7	9.7	9.7	11.6
132.5°	13.5	13.5	13.5	13.5	14.5	13.5	10.6	8.7	8.7	8.7	10.6
135°	12.6	12.6	12.6	12.6	11.6	10.6	8.7	6.8	6.8	7.7	9.7
137.5°	12.6	12.6	11.6	10.6	10.6	8.7	6.8	5.8	5.8	7.7	8.7
140°	11.6	11.6	10.6	9.7	7.7	6.8	4.8	4.8	4.8	5.8	6.8
142.5°	9.7	9.7	9.7	7.7	5.8	3.9	2.9	2.9	3.9	4.8	5.8
145°	8.7	8.7	7.7	6.8	3.9	1.9	1.0	1.9	2.9	3.9	4.8
147.5°	6.8	6.8	5.8	4.8	1.9	1.0	0.0	1.0	1.9	1.9	2.9
150°	4.8	4.8	4.8	2.9	1.0	0.0	0.0	1.0	1.0	1.0	1.9
152.5°	3.9	3.9	2.9	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	0.0	1.0
157.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.0	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°	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0
2.5°	252.9	252.0	247.2	243.2	238.4	234.6	230.6	227.8	226.8	224.8	225.8
5°	270.3	266.4	256.8	248.0	238.4	229.8	222.1	216.3	211.4	209.4	208.4
7.5°	300.1	294.4	277.0	261.5	246.2	230.6	218.2	208.4	202.6	198.9	198.9
10°	343.6	331.0	308.8	282.8	256.8	234.6	217.2	203.7	194.9	192.1	192.1
12.5°	396.7	383.2	348.4	308.8	272.2	241.4	218.2	203.7	194.9	191.1	190.1
15°	467.2	446.9	395.7	339.8	286.7	247.2	219.1	204.7	198.9	196.8	196.8
17.5°	550.1	525.1	450.8	373.5	303.0	249.9	222.1	210.5	207.5	207.5	207.5
20°	648.7	612.0	512.5	403.5	314.6	252.9	224.0	215.2	215.2	217.2	218.2
22.5°	753.8	707.5	572.4	431.5	318.5	254.8	223.0	217.2	222.1	226.8	227.8
25°	865.8	801.1	626.4	448.8	320.4	249.9	220.0	218.2	227.8	234.6	236.4
27.5°	984.5	896.7	672.7	455.6	314.6	241.4	215.2	216.3	230.6	240.4	242.2
30°	1093.5	986.5	709.4	453.7	302.1	230.6	209.4	213.3	230.6	244.2	247.2
32.5°	1206.5	1075.2	731.6	445.0	286.7	219.1	202.6	210.5	229.8	245.2	248.0
35°	1319.5	1153.4	742.2	427.6	269.4	208.4	195.9	205.6	226.8	244.2	246.2
37.5°	1432.4	1230.7	745.1	405.4	253.8	199.8	191.1	202.6	222.1	242.2	245.2
40°	1554.0	1306.8	739.3	383.2	239.4	194.1	187.3	198.9	218.2	239.4	243.2
42.5°	1690.1	1388.0	732.6	361.0	229.8	190.1	184.3	194.9	212.4	236.4	241.4
45°	1841.7	1476.7	728.8	343.6	224.0	188.3	183.3	192.1	209.4	234.6	239.4
47.5°	2004.8	1588.7	732.6	332.0	221.0	189.1	183.3	190.1	205.6	230.6	236.4
50°	2203.5	1717.1	747.2	323.3	220.0	190.1	184.3	188.3	201.7	224.8	230.6
52.5°	2409.1	1848.3	770.3	321.4	221.0	192.1	185.3	187.3	195.9	217.2	222.1
55°	2622.4	2022.2	809.8	324.3	223.0	194.9	186.3	185.3	191.1	207.5	213.3
57.5°	2863.8	2202.6	859.0	331.0	225.8	196.8	187.3	183.3	185.3	198.9	203.7
60°	3103.2	2386.0	909.2	339.8	231.6	199.8	188.3	182.5	182.5	193.1	196.8
62.5°	3320.3	2547.2	950.8	351.4	236.4	201.7	188.3	180.5	179.5	188.3	192.1
65°	3469.0	2632.2	960.4	358.1	241.4	202.6	186.3	178.5	177.5	184.3	188.3
67.5°	3508.6	2618.6	941.0	361.0	244.2	202.6	186.3	176.7	177.5	183.3	186.3
70°	3354.2	2478.6	877.4	355.2	243.2	201.7	184.3	174.7	176.7	182.5	184.3
72.5°	2985.4	2189.1	778.9	340.7	238.4	197.9	180.5	171.7	174.7	181.5	183.3
75°	2505.7	1813.6	662.1	317.5	229.8	193.1	176.7	167.9	172.7	179.5	180.5
77.5°	1927.6	1389.9	541.5	287.7	218.2	186.3	170.9	162.1	169.0	176.7	175.7
80°	1368.7	1013.5	427.6	256.8	202.6	176.7	163.2	155.3	163.2	170.9	169.0
82.5°	943.0	687.2	341.7	226.8	186.3	166.0	154.4	147.7	156.3	163.2	160.2
85°	617.8	464.3	269.4	198.9	170.9	155.3	144.8	138.0	146.7	152.5	148.6
87.5°	398.7	323.3	215.2	172.7	154.4	143.7	134.2	128.4	137.0	141.9	138.0
90°	277.0	235.6	177.5	149.5	139.0	131.2	123.6	117.8	125.4	129.4	127.4
92.5°	197.9	180.5	147.7	131.2	125.4	118.8	112.0	107.2	114.8	117.8	115.9
95°	154.4	143.7	125.4	115.9	113.0	108.0	101.4	96.4	102.2	104.3	103.2
97.5°	123.6	118.8	108.0	102.2	100.4	96.4	91.7	86.9	90.6	91.7	90.6
100°	99.4	97.5	92.7	89.8	88.8	85.9	81.1	77.2	79.1	78.2	78.2
102.5°	79.1	79.1	78.2	77.2	77.2	74.3	70.5	66.6	66.6	64.7	64.7
105°	62.8	64.7	64.7	65.7	66.6	64.7	60.8	55.9	55.0	52.1	52.1
107.5°	49.2	51.2	54.1	55.0	55.9	54.1	51.2	46.3	43.4	40.5	41.5
110°	38.6	40.5	44.4	46.3	47.3	46.3	42.5	38.6	33.8	31.9	32.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	29.9	32.8	36.7	38.6	39.6	38.6	34.8	30.9	26.1	25.1	25.1
115°	25.1	27.0	30.9	32.8	32.8	31.9	29.0	24.1	20.3	19.3	20.3
117.5°	21.2	23.2	26.1	28.0	28.0	27.0	24.1	19.3	16.4	16.4	16.4
120°	18.3	20.3	22.2	24.1	24.1	23.2	20.3	15.4	13.5	13.5	13.5
122.5°	16.4	17.4	19.3	20.3	20.3	19.3	16.4	12.6	10.6	11.6	11.6
125°	14.5	15.4	17.4	18.3	17.4	16.4	13.5	9.7	8.7	9.7	9.7
127.5°	13.5	14.5	15.4	15.4	15.4	13.5	11.6	7.7	7.7	8.7	8.7
130°	12.6	12.6	13.5	13.5	12.6	11.6	8.7	5.8	5.8	7.7	7.7
132.5°	11.6	11.6	12.6	11.6	11.6	9.7	6.8	4.8	5.8	6.8	6.8
135°	9.7	9.7	10.6	10.6	8.7	7.7	4.8	3.9	3.9	4.8	5.8
137.5°	8.7	9.7	9.7	8.7	7.7	5.8	3.9	2.9	3.9	3.9	4.8
140°	7.7	7.7	7.7	6.8	5.8	3.9	1.9	1.9	2.9	2.9	2.9
142.5°	5.8	6.8	6.8	5.8	3.9	1.9	1.0	1.0	1.9	1.9	1.9
145°	4.8	4.8	4.8	3.9	2.9	1.9	1.0	1.0	1.0	1.0	1.0
147.5°	2.9	3.9	3.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
150°	1.9	1.9	2.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	1.0	1.0	1.0	1.0	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)