

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: P240538

Luminaire Tested: **UTLD-AF24-80-D-U-SL3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240538
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-AF24-80-D-U-SL3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7220 lumens
Efficiency: N/A
Efficacy: 87.0 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): 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

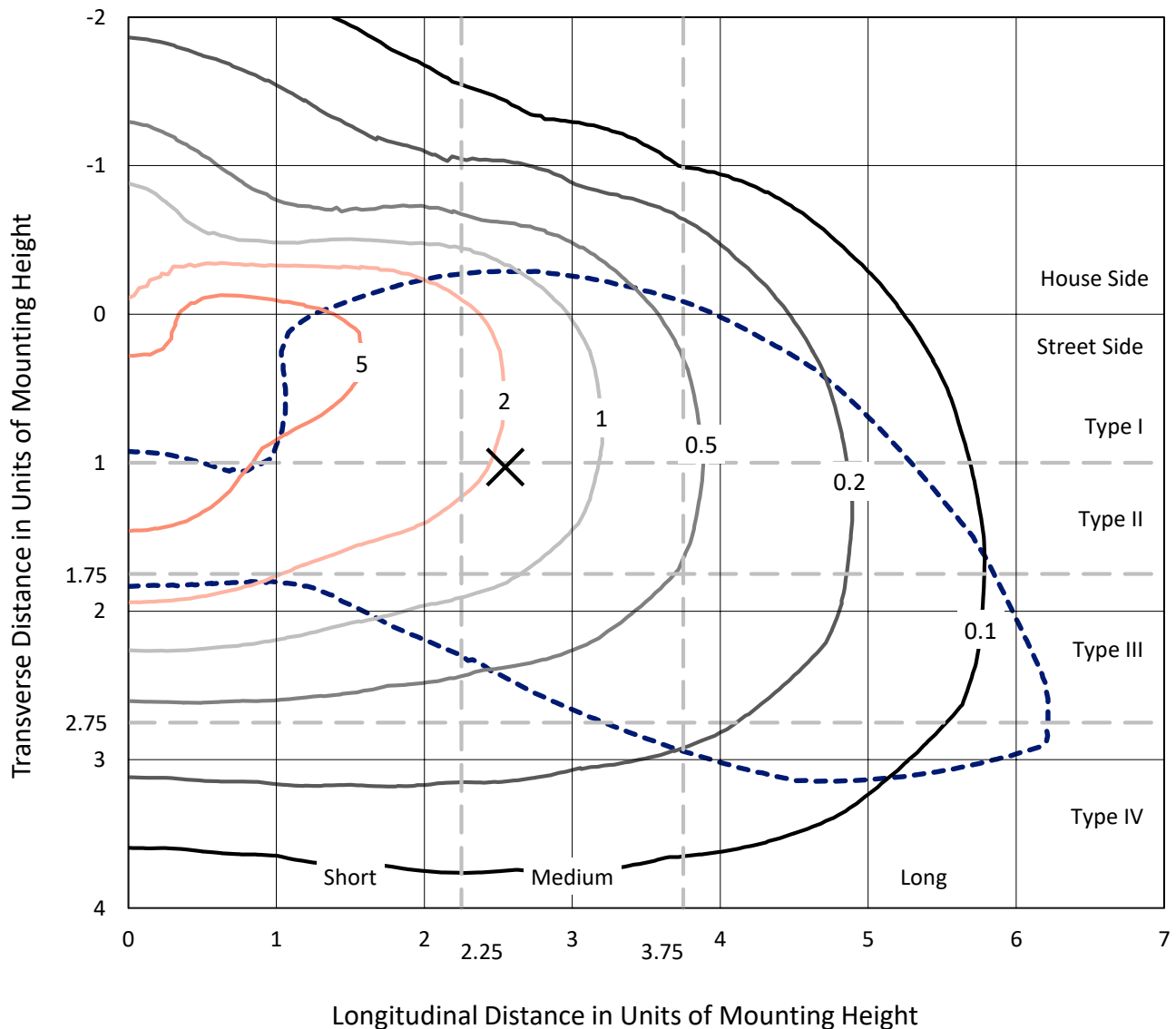


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

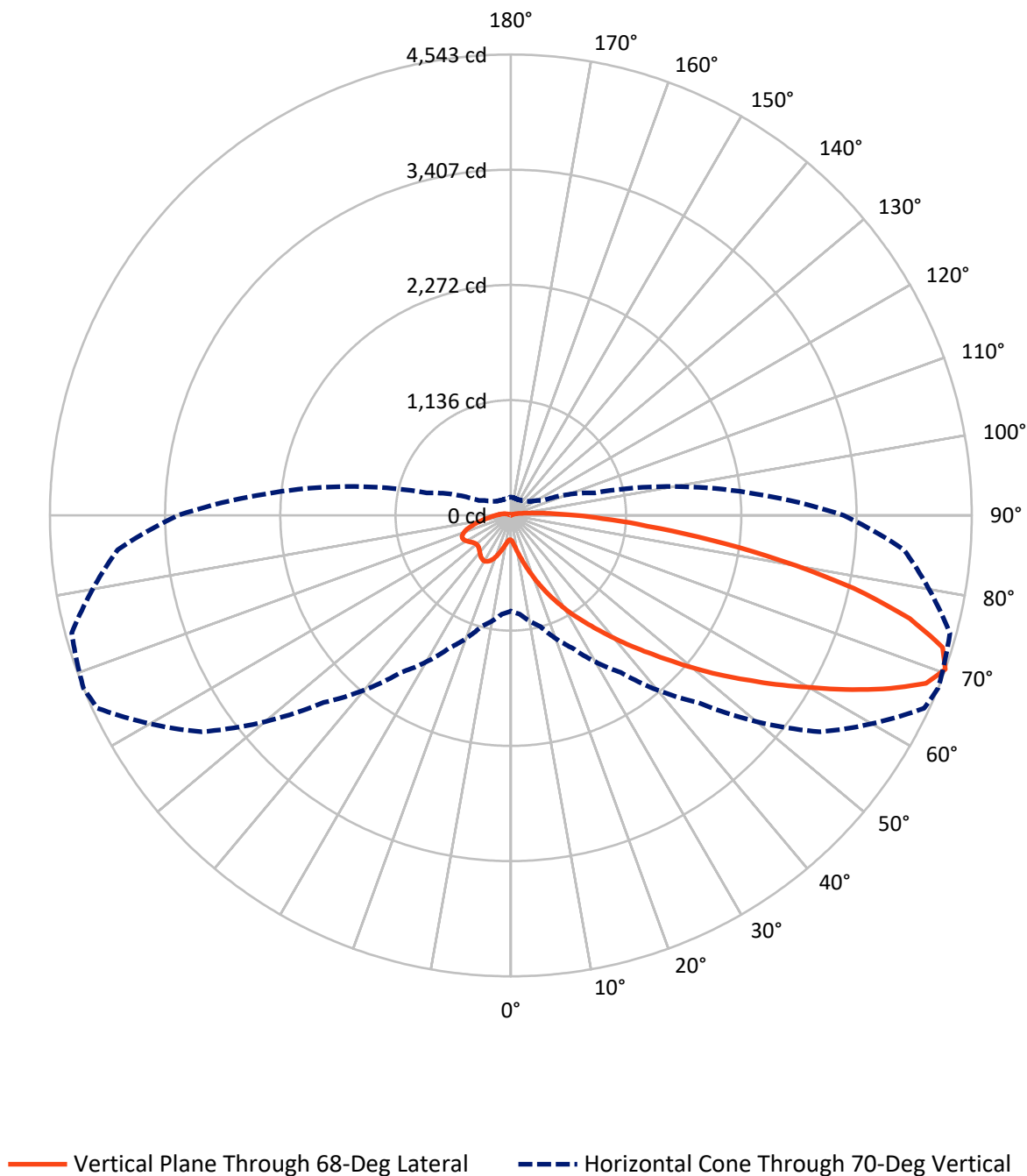


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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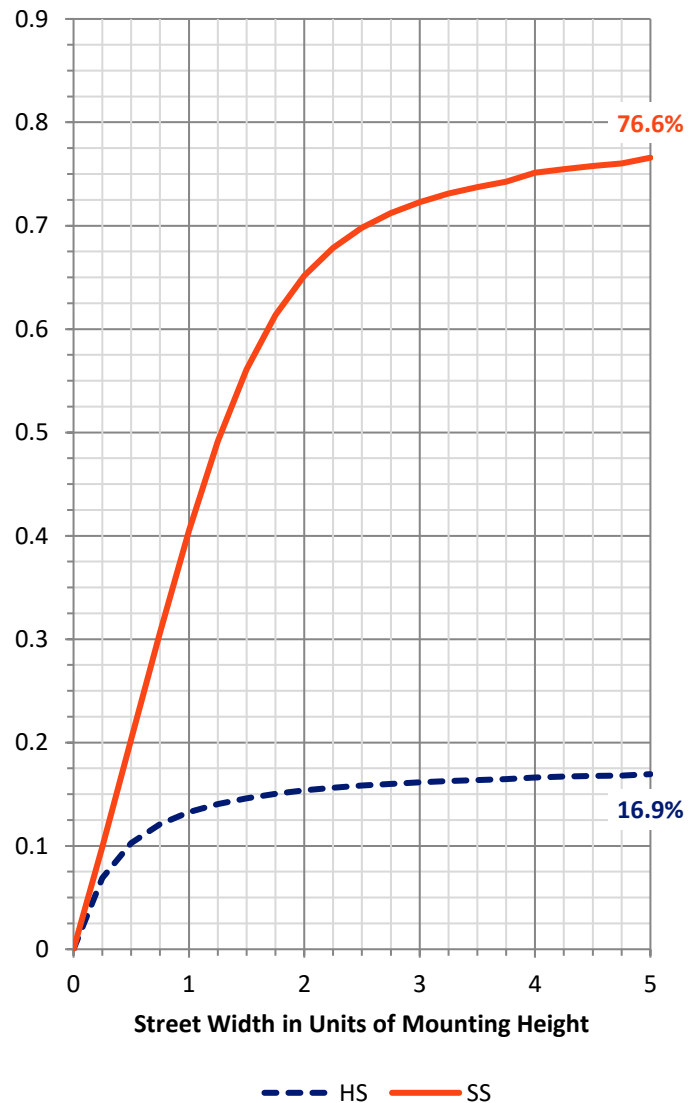
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1276.2	117.2	1393.4
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	5666.0	160.5	5826.5
	% Fixture	78.5	2.2	80.7
Total	Lumens	6942.2	277.8	7220.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.4	0.4
10°-20°	114.6	1.6
20°-30°	289.8	4.0
30°-40°	561.7	7.8
40°-50°	947.1	13.1
50°-60°	1416.0	19.6
60°-70°	1716.9	23.8
70°-80°	1339.6	18.6
80°-90°	530.1	7.3
90°-100°	162.3	2.2
100°-110°	63.8	0.9
110°-120°	28.3	0.4
120°-130°	13.9	0.2
130°-140°	6.9	0.1
140°-150°	2.2	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6942.2	96.2
0°-180°	7220.0	100.0

Coefficient of Utilization



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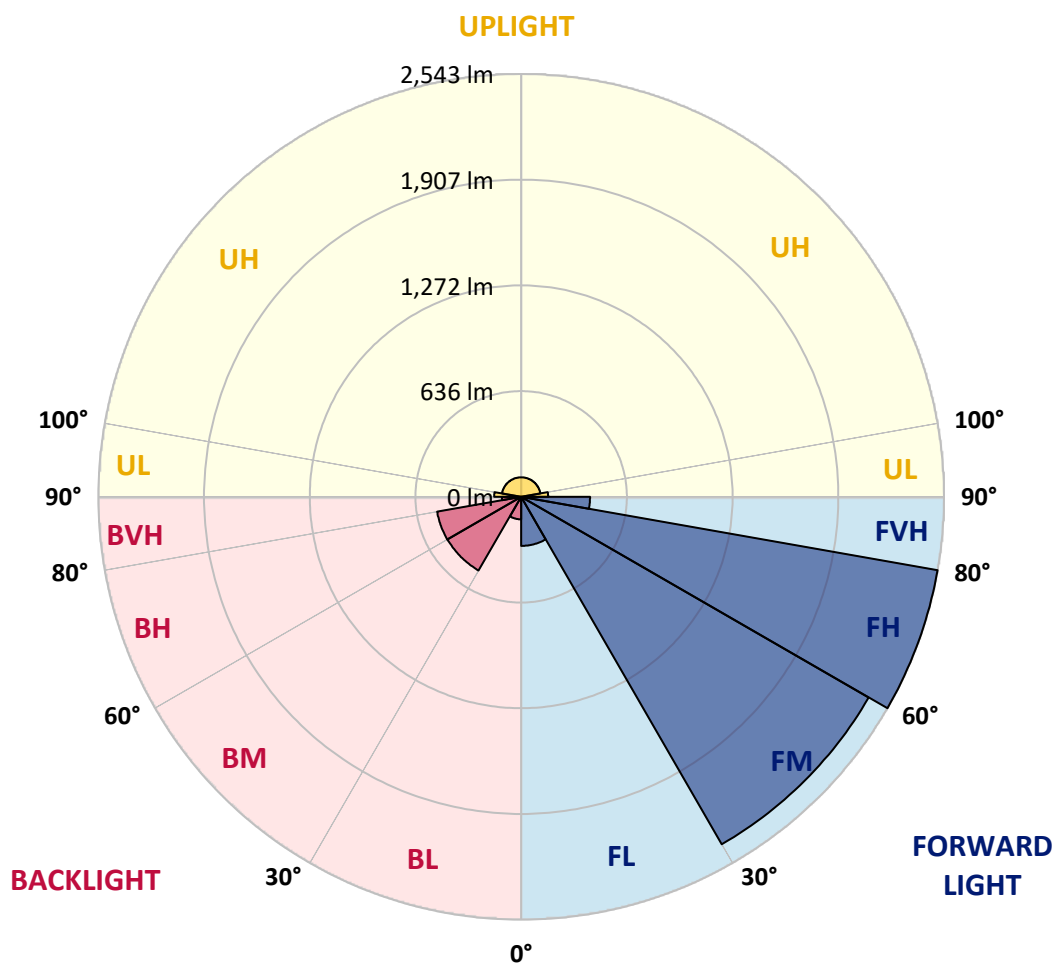
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	295.2	4.1			
FM	(30°-60°)	2413.2	33.4			
FH	(60°-80°)	2543.3	35.2			G2/5000
FVH	(80°-90°)	414.3	5.7			G3/500
BL	(0°-30°)	135.6	1.9	B1/500		
BM	(30°-60°)	511.6	7.1	B1/1000		
BH	(60°-80°)	513.3	7.1	B2/1000		G2/1000
BVH	(80°-90°)	115.8	1.6			G2/225
UL	(90°-100°)	162.3	2.2		U3/500	
UH	(100°-180°)	117.2	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°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6
2.5°	270.0	270.9	270.9	268.1	267.1	264.3	259.6	257.7	255.8	253.9	250.1
5°	305.9	305.9	303.9	301.2	297.4	294.5	289.8	284.2	283.2	276.6	270.0
7.5°	346.5	347.4	348.3	343.6	338.0	333.2	327.5	320.0	318.1	311.5	299.2
10°	400.3	401.2	399.3	394.6	387.0	381.4	374.7	367.2	364.4	358.7	341.7
12.5°	465.3	464.4	458.8	452.1	443.7	437.0	428.5	422.9	421.0	415.3	397.4
15°	534.3	538.1	531.4	516.4	506.0	495.6	491.8	491.8	493.7	487.0	470.0
17.5°	623.0	625.8	614.5	593.7	576.7	565.4	561.6	569.2	572.0	574.9	559.8
20°	725.9	726.8	708.9	679.6	649.5	635.3	636.2	654.2	660.7	671.2	653.3
22.5°	851.4	843.9	818.4	773.0	729.7	707.1	715.6	751.4	757.1	778.8	769.4
25°	982.6	981.7	939.3	878.8	815.6	786.3	800.5	844.9	860.9	894.0	881.7
27.5°	1133.6	1130.0	1075.1	1000.5	914.7	871.2	883.5	946.7	965.7	1021.3	1008.1
30°	1294.1	1295.1	1230.9	1127.1	1020.4	960.0	967.5	1055.4	1079.8	1144.1	1140.3
32.5°	1485.7	1474.5	1402.7	1266.8	1135.6	1053.4	1063.9	1165.8	1199.7	1276.2	1264.9
35°	1678.4	1664.1	1568.8	1419.7	1255.5	1158.2	1163.0	1283.8	1319.6	1418.7	1397.0
37.5°	1855.8	1848.3	1752.9	1581.1	1389.5	1274.3	1280.0	1410.2	1455.6	1566.0	1539.5
40°	2046.5	2046.5	1949.2	1762.3	1538.6	1399.9	1408.4	1550.9	1605.6	1726.4	1682.1
42.5°	2248.4	2241.9	2139.0	1927.5	1686.8	1534.8	1551.8	1709.5	1770.8	1899.2	1853.9
45°	2447.6	2433.5	2326.8	2106.9	1835.1	1686.8	1712.3	1883.2	1947.4	2110.7	2047.4
47.5°	2619.5	2604.3	2499.6	2268.3	1990.8	1844.5	1880.4	2085.2	2153.1	2347.6	2251.3
50°	2742.1	2737.4	2635.5	2396.7	2129.6	2006.8	2082.3	2300.4	2381.5	2577.9	2487.3
52.5°	2813.9	2805.4	2724.2	2512.8	2268.3	2174.9	2290.0	2534.5	2620.4	2831.8	2726.2
55°	2797.9	2792.1	2734.7	2574.2	2376.8	2336.3	2520.3	2795.0	2875.3	3103.7	2978.1
57.5°	2671.3	2678.9	2661.9	2577.9	2457.1	2503.4	2756.3	3069.7	3154.7	3377.5	3243.4
60°	2445.8	2442.9	2491.1	2505.2	2489.1	2647.8	3041.4	3383.1	3448.3	3672.9	3502.1
62.5°	2112.6	2105.0	2209.8	2344.8	2465.6	2769.5	3298.2	3717.3	3782.4	3963.6	3740.8
65°	1703.8	1737.8	1869.0	2091.8	2348.5	2815.8	3547.4	4058.0	4111.9	4208.1	3928.7
67.5°	1291.3	1324.3	1494.2	1776.5	2153.1	2762.0	3705.9	4363.9	4415.8	4441.2	4010.8
70°	943.0	975.1	1135.6	1445.2	1887.9	2606.3	3718.2	4496.0	4543.2	4480.9	3890.0
72.5°	671.2	688.1	825.9	1119.5	1585.9	2333.5	3563.3	4411.1	4449.7	4277.1	3570.9
75°	474.9	482.3	601.3	851.4	1291.3	2024.7	3195.3	4030.6	4060.8	3843.7	3036.6
77.5°	323.8	340.7	435.2	649.5	1035.5	1662.3	2708.2	3455.8	3455.8	3180.1	2402.3
80°	229.3	243.6	312.4	485.2	810.9	1331.9	2188.1	2745.9	2702.5	2390.0	1731.2
82.5°	165.2	176.6	231.3	370.0	629.6	1052.5	1660.4	2033.2	1973.8	1667.9	1144.1
85°	119.9	131.2	175.5	271.9	482.3	816.5	1244.1	1412.2	1353.6	1105.4	742.9
87.5°	87.8	95.3	131.2	204.8	365.3	618.3	912.8	959.0	907.2	714.5	476.7
90°	62.3	68.9	100.0	154.8	273.7	464.4	641.0	629.6	573.0	449.3	315.3
92.5°	45.3	50.0	74.6	117.9	203.9	340.7	440.8	406.8	374.7	288.9	219.0
95°	34.0	37.7	58.5	91.6	150.1	239.8	297.4	267.1	242.6	197.3	161.4
97.5°	27.4	30.2	48.2	73.7	116.1	174.6	205.8	176.6	165.2	142.5	124.6
100°	23.6	25.5	40.6	61.4	91.6	131.2	145.4	123.7	117.0	107.6	97.2
102.5°	21.7	22.6	35.9	52.9	74.6	98.2	104.8	92.5	87.8	82.1	76.4
105°	19.8	20.8	32.1	46.2	63.2	76.4	80.2	70.8	67.9	62.3	58.5
107.5°	18.9	18.9	28.3	40.6	53.8	63.2	63.2	55.6	52.9	47.2	45.3
110°	17.9	17.9	25.5	36.8	46.2	53.8	52.0	44.4	41.5	35.9	34.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	17.0	17.0	23.6	32.1	40.6	45.3	43.4	35.9	33.0	27.4	27.4
115°	16.1	16.1	20.8	28.3	35.9	38.7	36.8	29.3	27.4	21.7	22.6
117.5°	16.1	16.1	19.8	25.5	31.2	34.0	31.2	23.6	21.7	17.9	19.8
120°	15.1	15.1	17.9	22.6	27.4	29.3	26.4	19.8	17.9	15.1	17.0
122.5°	15.1	15.1	17.0	19.8	24.6	25.5	22.6	17.0	15.1	13.2	15.1
125°	14.1	14.1	16.1	17.9	20.8	21.7	18.9	14.1	13.2	12.3	13.2
127.5°	14.1	14.1	15.1	16.1	18.9	18.9	16.1	11.4	11.4	10.4	12.3
130°	13.2	14.1	14.1	15.1	16.1	16.1	13.2	9.4	9.4	9.4	11.4
132.5°	13.2	13.2	13.2	13.2	14.1	13.2	10.4	8.5	8.5	8.5	10.4
135°	12.3	12.3	12.3	12.3	11.4	10.4	8.5	6.6	6.6	7.6	9.4
137.5°	12.3	12.3	11.4	10.4	10.4	8.5	6.6	5.6	5.6	7.6	8.5
140°	11.4	11.4	10.4	9.4	7.6	6.6	4.7	4.7	4.7	5.6	6.6
142.5°	9.4	9.4	9.4	7.6	5.6	3.8	2.9	2.9	3.8	4.7	5.6
145°	8.5	8.5	7.6	6.6	3.8	1.8	0.9	1.8	2.9	3.8	4.7
147.5°	6.6	6.6	5.6	4.7	1.8	0.9	0.0	0.9	1.8	1.8	2.9
150°	4.7	4.7	4.7	2.9	0.9	0.0	0.0	0.9	0.9	0.9	1.8
152.5°	3.8	3.8	2.9	1.8	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.9	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°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6
2.5°	247.3	246.3	241.6	237.8	233.1	229.3	225.6	222.8	221.9	219.9	220.9
5°	264.3	260.5	251.1	242.6	233.1	224.6	217.1	211.4	206.7	204.8	203.9
7.5°	293.6	287.9	270.9	255.8	240.7	225.6	213.3	203.9	198.2	194.5	194.5
10°	336.0	323.8	302.1	276.6	251.1	229.3	212.4	199.2	190.7	187.8	187.8
12.5°	388.0	374.7	340.7	302.1	266.2	236.0	213.3	199.2	190.7	186.9	186.0
15°	456.8	437.0	387.0	332.3	280.4	241.6	214.3	200.1	194.5	192.5	192.5
17.5°	538.1	513.5	440.8	365.3	296.3	244.5	217.1	205.8	203.0	203.0	203.0
20°	634.3	598.4	501.2	394.6	307.7	247.3	219.0	210.5	210.5	212.4	213.3
22.5°	737.2	691.9	559.8	422.0	311.5	249.2	218.1	212.4	217.1	221.9	222.8
25°	846.7	783.5	612.6	438.9	313.4	244.5	215.2	213.3	222.8	229.3	231.3
27.5°	962.8	877.0	658.0	445.5	307.7	236.0	210.5	211.4	225.6	235.1	236.9
30°	1069.5	964.7	693.8	443.7	295.4	225.6	204.8	208.6	225.6	238.9	241.6
32.5°	1180.0	1051.6	715.6	435.2	280.4	214.3	198.2	205.8	224.6	239.8	242.6
35°	1290.4	1128.0	725.9	418.2	263.4	203.9	191.6	201.0	221.9	238.9	240.7
37.5°	1400.8	1203.5	728.8	396.5	248.3	195.4	186.9	198.2	217.1	236.9	239.8
40°	1519.8	1278.1	723.0	374.7	234.1	189.8	183.1	194.5	213.3	234.1	237.8
42.5°	1652.9	1357.4	716.5	353.0	224.6	186.0	180.2	190.7	207.7	231.3	236.0
45°	1801.0	1444.2	712.7	336.0	219.0	184.0	179.3	187.8	204.8	229.3	234.1
47.5°	1960.6	1553.8	716.5	324.7	216.1	185.1	179.3	186.0	201.0	225.6	231.3
50°	2155.1	1679.3	730.6	316.2	215.2	186.0	180.2	184.0	197.3	219.9	225.6
52.5°	2356.1	1807.7	753.3	314.4	216.1	187.8	181.3	183.1	191.6	212.4	217.1
55°	2564.7	1977.6	792.0	317.2	218.1	190.7	182.2	181.3	186.9	203.0	208.6
57.5°	2800.7	2154.1	840.1	323.8	220.9	192.5	183.1	179.3	181.3	194.5	199.2
60°	3034.8	2333.5	889.1	332.3	226.6	195.4	184.0	178.4	178.4	188.8	192.5
62.5°	3247.2	2491.1	929.8	343.6	231.3	197.3	184.0	176.6	175.5	184.0	187.8
65°	3392.5	2574.2	939.3	350.2	236.0	198.2	182.2	174.6	173.7	180.2	184.0
67.5°	3431.3	2561.0	920.3	353.0	238.9	198.2	182.2	172.8	173.7	179.3	182.2
70°	3280.2	2424.1	858.1	347.4	237.8	197.3	180.2	170.8	172.8	178.4	180.2
72.5°	2919.6	2140.8	761.8	333.2	233.1	193.5	176.6	168.1	170.8	177.5	179.3
75°	2450.5	1773.7	647.5	310.6	224.6	188.8	172.8	164.3	169.0	175.5	176.6
77.5°	1885.1	1359.3	529.6	281.3	213.3	182.2	167.0	158.6	165.2	172.8	171.8
80°	1338.5	991.1	418.2	251.1	198.2	172.8	159.5	152.0	159.5	167.0	165.2
82.5°	922.2	672.1	334.2	221.9	182.2	162.3	151.0	144.4	152.9	159.5	156.7
85°	604.2	454.1	263.4	194.5	167.0	152.0	141.6	135.0	143.5	149.1	145.4
87.5°	389.8	316.2	210.5	169.0	151.0	140.7	131.2	125.5	134.0	138.7	135.0
90°	270.9	230.4	173.7	146.3	136.0	128.4	120.8	115.2	122.8	126.5	124.6
92.5°	193.5	176.6	144.4	128.4	122.8	116.1	109.5	104.8	112.3	115.2	113.2
95°	151.0	140.7	122.8	113.2	110.5	105.8	99.1	94.4	100.0	102.0	101.0
97.5°	120.8	116.1	105.8	100.0	98.2	94.4	89.7	84.9	88.7	89.7	88.7
100°	97.2	95.3	90.6	87.8	86.8	84.0	79.3	75.5	77.4	76.4	76.4
102.5°	77.4	77.4	76.4	75.5	75.5	72.7	68.9	65.2	65.2	63.2	63.2
105°	61.4	63.2	63.2	64.1	65.2	63.2	59.4	54.7	53.8	50.9	50.9
107.5°	48.2	50.0	52.9	53.8	54.7	52.9	50.0	45.3	42.5	39.7	40.6
110°	37.7	39.7	43.4	45.3	46.2	45.3	41.5	37.7	33.0	31.2	32.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	29.3	32.1	35.9	37.7	38.7	37.7	34.0	30.2	25.5	24.6	24.6
115°	24.6	26.4	30.2	32.1	32.1	31.2	28.3	23.6	19.8	18.9	19.8
117.5°	20.8	22.6	25.5	27.4	27.4	26.4	23.6	18.9	16.1	16.1	16.1
120°	17.9	19.8	21.7	23.6	23.6	22.6	19.8	15.1	13.2	13.2	13.2
122.5°	16.1	17.0	18.9	19.8	19.8	18.9	16.1	12.3	10.4	11.4	11.4
125°	14.1	15.1	17.0	17.9	17.0	16.1	13.2	9.4	8.5	9.4	9.4
127.5°	13.2	14.1	15.1	15.1	15.1	13.2	11.4	7.6	7.6	8.5	8.5
130°	12.3	12.3	13.2	13.2	12.3	11.4	8.5	5.6	5.6	7.6	7.6
132.5°	11.4	11.4	12.3	11.4	11.4	9.4	6.6	4.7	5.6	6.6	6.6
135°	9.4	9.4	10.4	10.4	8.5	7.6	4.7	3.8	3.8	4.7	5.6
137.5°	8.5	9.4	9.4	8.5	7.6	5.6	3.8	2.9	3.8	3.8	4.7
140°	7.6	7.6	7.6	6.6	5.6	3.8	1.8	1.8	2.9	2.9	2.9
142.5°	5.6	6.6	6.6	5.6	3.8	1.8	0.9	0.9	1.8	1.8	1.8
145°	4.7	4.7	4.7	3.8	2.9	1.8	0.9	0.9	0.9	0.9	0.9
147.5°	2.9	3.8	3.8	2.9	1.8	0.9	0.0	0.0	0.0	0.0	0.0
150°	1.8	1.8	2.9	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.9	0.9	0.9	0.9	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)