

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: P241071

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
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-SL3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7638.3 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U2 - G2

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

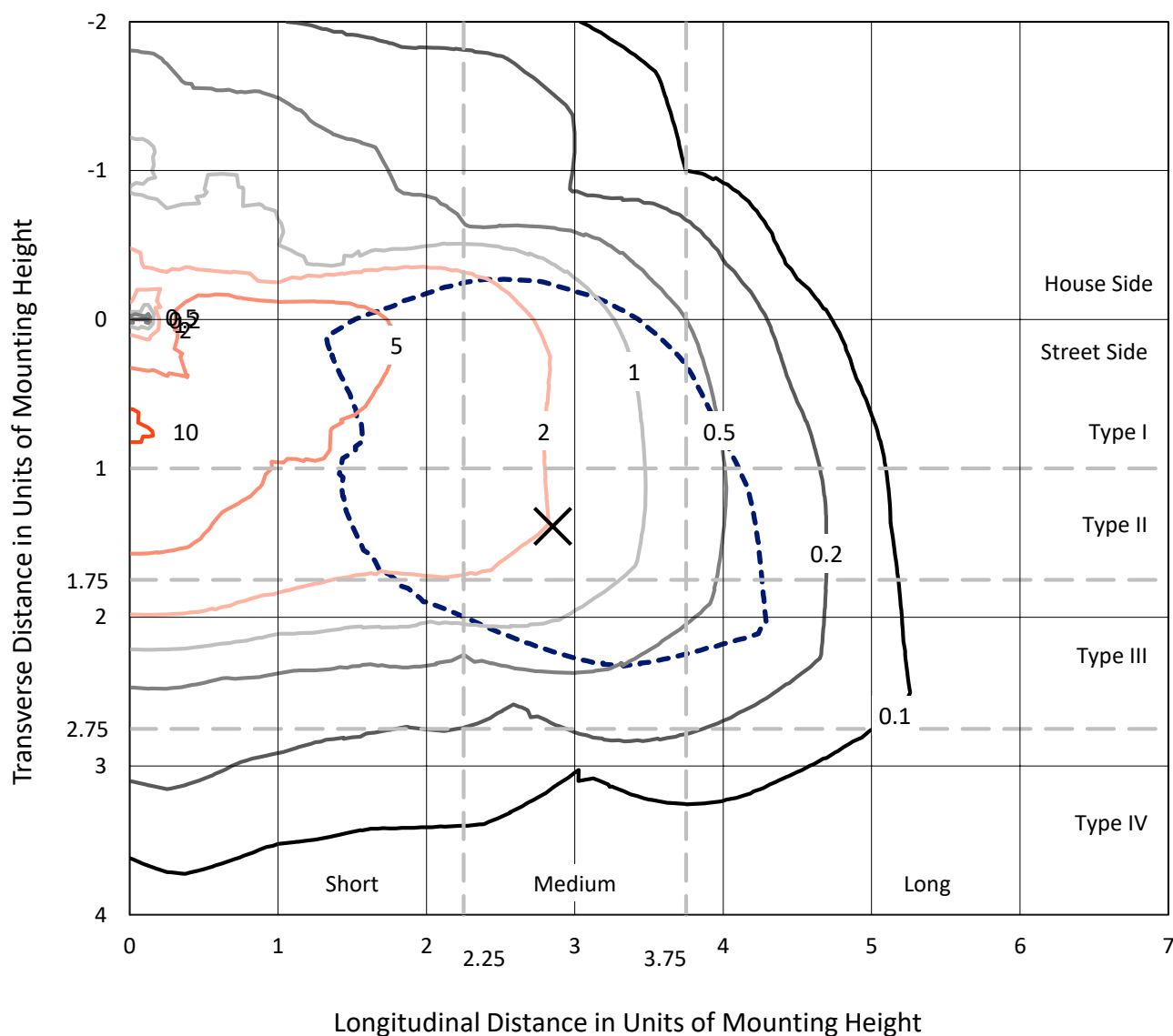


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

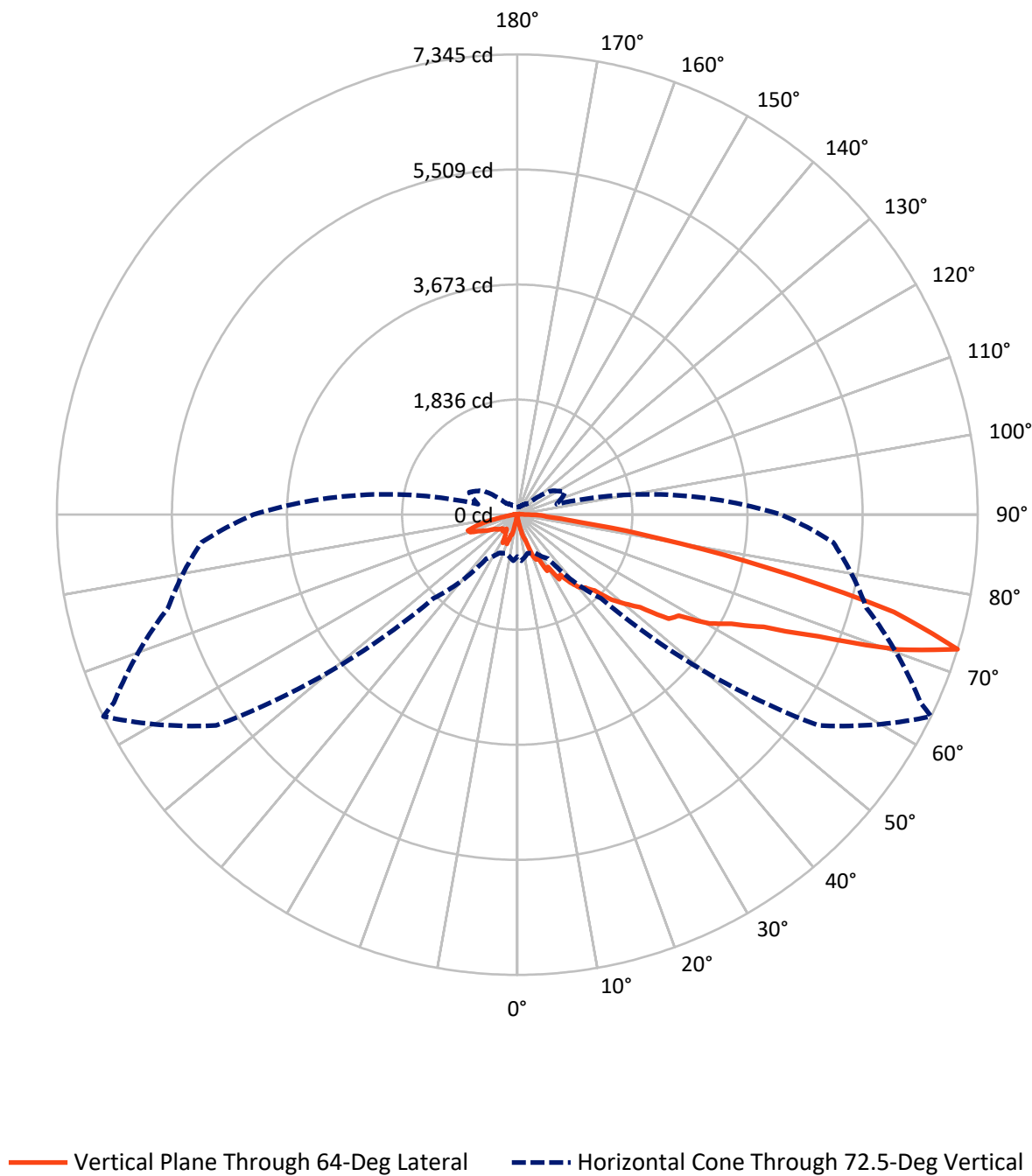


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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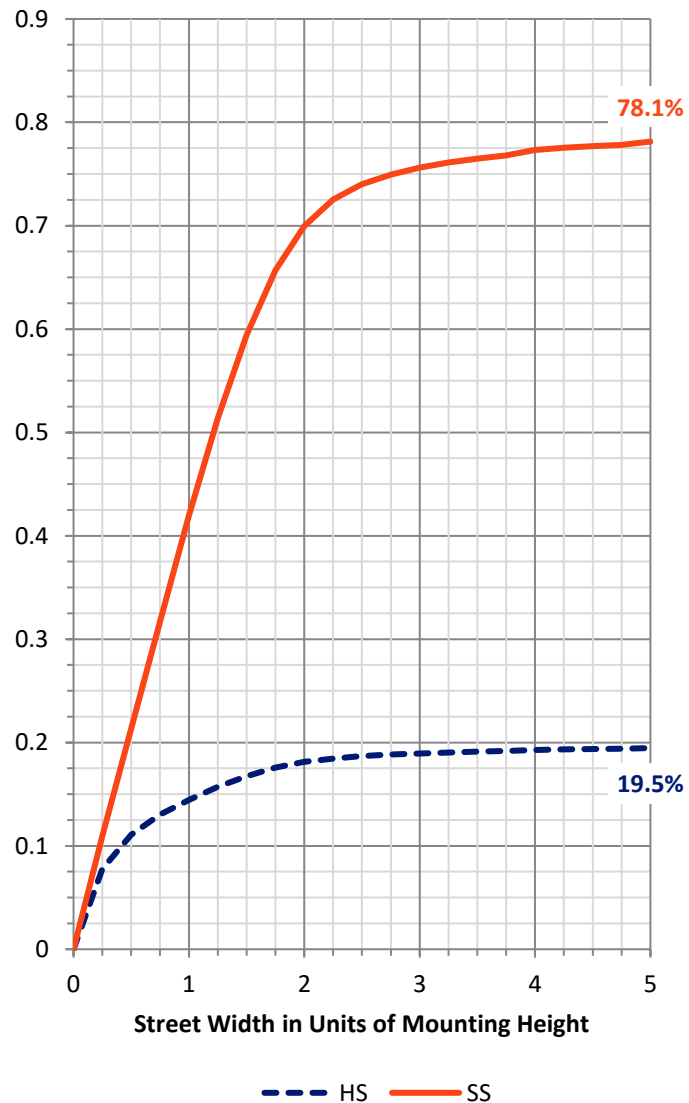
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1512.0	47.1	1559.1
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	6030.5	48.7	6079.2
	% Fixture	79.0	0.6	79.6
Total	Lumens	7542.5	95.8	7638.3
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.1
10°-20°	102.0	1.3
20°-30°	300.1	3.9
30°-40°	595.2	7.8
40°-50°	1027.1	13.4
50°-60°	1660.3	21.7
60°-70°	2104.3	27.5
70°-80°	1507.7	19.7
80°-90°	236.5	3.1
90°-100°	47.7	0.6
100°-110°	21.2	0.3
110°-120°	10.9	0.1
120°-130°	8.1	0.1
130°-140°	5.0	0.1
140°-150°	2.5	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7542.5	98.7
0°-180°	7638.3	100.0

Coefficient of Utilization



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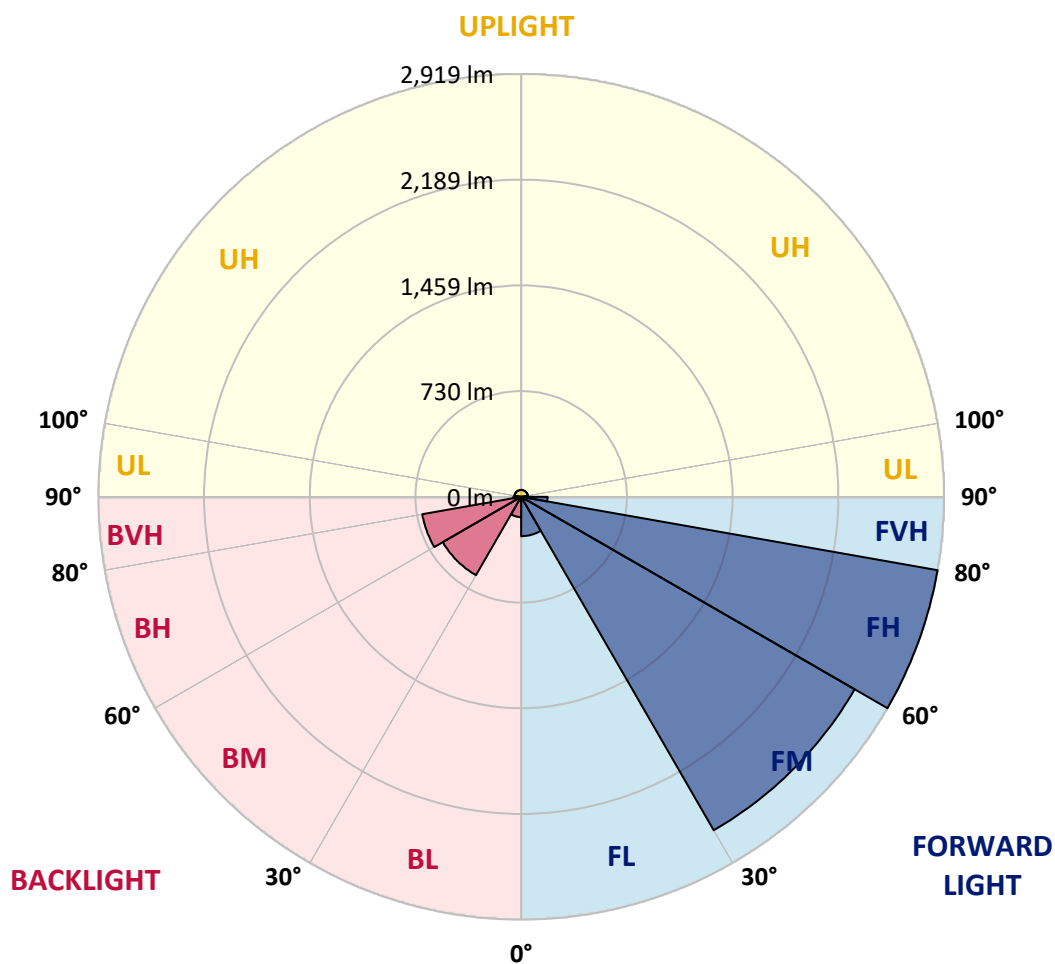
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.6	3.6			
FM	(30°-60°)	2658.0	34.8			
FH	(60°-80°)	2919.0	38.2			G2/5000
FVH	(80°-90°)	182.0	2.4			G2/225
BL	(0°-30°)	139.9	1.8	B1/500		
BM	(30°-60°)	624.7	8.2	B1/1000		
BH	(60°-80°)	693.0	9.1	B2/1000		G2/1000
BVH	(80°-90°)	54.5	0.7			G1/100
UL	(90°-100°)	47.7	0.6		U2/50	
UH	(100°-180°)	47.1	0.6		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
2.5°	53.2	47.4	49.2	43.4	36.7	29.9	25.1	22.3	22.3	21.3	19.3
5°	184.7	188.6	211.9	178.0	161.4	210.9	59.0	33.9	31.9	22.3	18.3
7.5°	246.6	258.2	184.7	153.7	144.1	232.0	173.0	94.7	78.3	29.1	20.3
10°	467.1	435.2	294.0	321.1	298.9	190.5	126.7	129.6	119.0	47.4	32.9
12.5°	417.8	422.7	432.3	392.7	404.3	299.8	153.7	252.4	269.9	303.6	285.2
15°	487.4	467.1	392.7	427.4	407.2	473.8	398.5	371.4	408.1	419.8	349.1
17.5°	661.6	647.1	751.4	512.5	372.3	532.8	473.8	434.2	413.0	460.3	556.1
20°	608.3	609.3	652.9	579.3	601.6	490.3	476.8	701.1	841.4	797.9	775.6
22.5°	915.9	887.8	737.9	575.5	635.5	561.9	670.2	782.4	742.8	724.4	782.4
25°	889.8	900.4	855.9	864.6	636.3	751.4	698.2	746.6	794.0	1139.2	1284.4
27.5°	1093.8	1033.8	982.6	895.6	876.3	707.0	675.0	1014.5	1041.6	1142.2	1204.0
30°	1439.1	1409.1	1315.3	1022.2	914.9	760.1	923.6	971.0	988.4	1344.3	1663.5
32.5°	1827.0	1716.7	1445.8	1337.6	995.2	938.1	869.4	1228.3	1208.0	1490.3	1680.9
35°	2112.2	2046.4	1791.1	1454.6	1196.4	1002.9	1170.2	1180.9	1284.4	1560.0	1696.4
37.5°	2052.2	2070.6	1965.2	1736.0	1316.2	1084.2	1266.0	1375.2	1385.0	1689.5	1797.9
40°	2207.9	2219.6	2182.8	1926.6	1518.3	1247.6	1422.7	1525.1	1444.0	1849.1	1921.7
42.5°	2298.9	2317.3	2387.9	2203.1	1712.7	1426.5	1668.3	1595.7	1524.1	1986.5	2185.7
45°	2497.1	2487.4	2518.4	2298.9	2001.0	1795.0	1751.4	1729.2	1756.4	2233.0	2440.1
47.5°	2773.8	2812.5	2659.6	2345.2	2217.6	1886.0	1984.5	2027.1	2129.6	2552.3	2698.2
50°	3182.8	3133.4	2950.6	2551.3	2431.3	2005.8	2431.3	2236.0	2182.8	2843.4	3084.2
52.5°	3349.2	3317.2	3058.0	2638.3	2564.9	2233.0	2506.9	2457.5	2439.1	3245.6	3513.6
55°	3414.9	3391.7	3284.4	2653.8	2685.7	2572.5	2875.2	2932.3	2901.4	3501.0	3946.9
57.5°	3240.8	3279.5	3287.3	2716.6	2767.9	2612.2	3454.6	3041.6	3263.1	3821.2	4283.4
60°	3004.8	3006.9	3109.3	2709.0	2844.3	2865.6	3580.3	3524.1	3731.2	3990.3	4376.3
62.5°	2421.7	2490.3	2659.6	2654.8	2950.6	3194.4	4198.3	3836.6	3917.8	4162.6	4667.3
65°	1606.4	1643.2	1848.2	2201.1	2761.1	3456.5	4706.1	4322.1	4437.1	4490.3	5090.9
67.5°	958.4	1003.9	1032.9	1406.1	2305.6	3508.8	5759.3	5183.8	5079.4	4986.5	5515.5
70°	800.8	830.8	746.6	841.4	1409.1	3185.7	6267.0	6444.8	6105.5	5657.7	5605.4
72.5°	671.2	737.0	636.3	673.1	857.8	1890.7	5866.5	7345.3	7098.7	5769.9	5057.1
75°	498.1	590.0	530.0	604.4	792.1	971.0	4426.5	6207.0	6129.7	5001.1	3753.4
77.5°	388.8	405.3	331.7	456.4	761.1	802.7	2655.8	4091.9	4025.2	3188.6	1740.8
80°	272.7	279.4	262.1	237.9	588.1	752.5	1345.3	2268.9	2127.8	990.3	578.3
82.5°	172.2	183.8	205.1	161.4	285.2	702.1	741.8	999.0	889.8	336.5	287.3
85°	103.5	113.2	126.7	113.2	133.6	536.8	574.4	513.5	469.0	205.1	181.8
87.5°	60.0	62.9	76.4	78.3	99.7	312.4	458.5	382.0	335.7	136.3	118.0
90°	41.6	38.7	38.7	40.7	51.3	136.3	224.4	133.6	134.4	71.6	62.0
92.5°	31.9	31.9	34.9	34.9	49.2	119.9	103.5	71.6	67.7	60.0	49.2
95°	24.1	26.1	26.1	28.1	33.9	36.7	51.3	53.2	53.2	54.2	43.4
97.5°	20.3	22.3	22.3	23.2	27.1	28.1	35.8	46.4	46.4	45.5	35.8
100°	19.3	20.3	19.3	19.3	22.3	21.3	29.1	39.7	41.6	39.7	30.9
102.5°	18.3	19.3	17.4	15.6	19.3	15.6	24.1	35.8	36.7	29.1	24.1
105°	18.3	18.3	15.6	12.6	15.6	12.6	20.3	25.1	25.1	20.3	23.2
107.5°	18.3	17.4	13.5	10.6	11.6	10.6	16.4	16.4	16.4	15.6	22.3
110°	16.4	15.6	12.6	9.8	8.7	8.7	11.6	11.6	11.6	13.5	22.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	14.5	13.5	10.6	7.7	6.8	6.8	7.7	8.7	8.7	12.6	21.3
115°	12.6	12.6	9.8	7.7	5.8	5.8	6.8	7.7	7.7	11.6	20.3
117.5°	12.6	12.6	8.7	6.8	4.8	4.8	5.8	6.8	6.8	11.6	21.3
120°	12.6	12.6	8.7	5.8	4.8	3.9	4.8	5.8	5.8	12.6	22.3
122.5°	11.6	11.6	8.7	5.8	3.9	3.9	3.9	5.8	5.8	11.6	20.3
125°	11.6	11.6	7.7	5.8	3.9	3.9	3.9	4.8	5.8	12.6	20.3
127.5°	10.6	10.6	8.7	5.8	3.9	2.9	3.9	4.8	4.8	11.6	19.3
130°	10.6	10.6	7.7	4.8	2.9	2.9	2.9	3.9	4.8	10.6	17.4
132.5°	9.8	9.8	6.8	4.8	2.9	1.9	2.9	3.9	3.9	9.8	15.6
135°	9.8	9.8	7.7	4.8	2.9	1.9	2.9	3.9	3.9	8.7	13.5
137.5°	8.7	8.7	6.8	4.8	2.9	1.9	1.9	2.9	3.9	8.7	12.6
140°	8.7	8.7	7.7	5.8	2.9	1.9	1.9	2.9	2.9	6.8	9.8
142.5°	9.8	9.8	7.7	4.8	2.9	1.9	1.9	1.9	2.9	4.8	7.7
145°	8.7	8.7	6.8	4.8	2.9	1.0	1.0	1.9	2.9	4.8	6.8
147.5°	8.7	8.7	7.7	4.8	1.9	1.0	1.0	1.9	1.9	3.9	5.8
150°	7.7	7.7	5.8	2.9	1.0	0.0	1.0	1.9	1.9	2.9	4.8
152.5°	5.8	5.8	3.9	1.9	0.0	0.0	0.0	1.0	1.0	1.9	2.9
155°	2.9	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9
157.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	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°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
2.5°	19.3	19.3	19.3	19.3	18.3	18.3	17.4	17.4	17.4	17.4	17.4
5°	18.3	18.3	18.3	17.4	16.4	15.6	16.4	15.6	15.6	15.6	15.6
7.5°	19.3	19.3	17.4	16.4	16.4	16.4	21.3	128.6	284.3	243.7	253.4
10°	35.8	33.9	29.1	24.1	22.3	127.7	243.7	223.4	170.2	142.1	146.1
12.5°	355.0	319.1	206.0	143.1	164.4	169.3	152.9	167.2	272.7	249.5	250.5
15°	355.0	363.7	297.8	335.7	290.1	135.4	261.1	311.4	302.7	278.5	292.0
17.5°	599.7	595.8	371.4	341.4	280.5	283.4	245.7	213.7	198.3	195.3	198.3
20°	888.9	740.8	707.9	515.4	315.3	289.2	203.1	172.2	219.5	270.8	277.5
22.5°	782.4	782.4	635.5	460.3	389.7	247.6	221.5	219.5	263.1	260.1	272.7
25°	1321.1	1148.0	823.0	443.9	340.5	251.4	224.4	204.1	229.2	264.1	261.1
27.5°	1218.6	1130.7	813.3	533.8	266.9	273.7	206.9	201.1	258.2	277.5	279.4
30°	1537.8	1416.9	822.0	401.3	268.9	210.9	191.5	205.1	215.7	234.1	236.0
32.5°	1592.9	1442.0	789.2	361.7	283.4	203.1	194.4	193.4	219.5	252.4	255.3
35°	1559.0	1384.0	743.7	304.7	284.3	205.1	199.2	220.4	201.1	235.0	239.9
37.5°	1791.1	1412.9	671.2	284.3	261.1	210.9	261.1	210.9	209.9	220.4	222.5
40°	1788.2	1477.7	589.0	347.2	261.1	347.2	272.7	219.5	188.6	206.9	207.9
42.5°	1932.4	1514.6	516.5	357.9	281.5	402.3	254.3	213.7	224.4	236.0	247.6
45°	2098.7	1630.5	483.6	322.1	317.2	311.4	265.0	278.5	203.1	325.9	339.5
47.5°	2325.9	1779.5	439.1	315.3	430.4	313.3	504.9	259.2	223.4	385.9	393.7
50°	2665.4	2041.6	442.9	346.3	394.5	335.7	339.5	281.5	301.8	401.3	403.2
52.5°	3027.1	2261.1	416.9	382.0	387.9	412.0	361.7	420.6	296.8	385.9	385.9
55°	3347.2	2585.1	429.4	402.3	405.3	358.8	509.7	310.4	296.0	387.9	397.4
57.5°	3765.1	2931.3	515.4	420.6	415.8	383.0	393.7	384.9	348.2	394.5	400.4
60°	3986.6	3183.9	646.0	472.9	435.2	442.0	466.2	370.4	316.2	461.3	479.6
62.5°	4337.6	3547.4	818.3	535.8	552.2	452.7	397.4	403.2	336.5	367.5	371.4
65°	4742.8	3925.5	903.2	597.6	594.8	502.9	450.7	313.3	218.5	202.1	201.1
67.5°	5047.4	4071.5	826.9	668.2	741.8	482.6	309.5	222.5	168.3	158.7	161.4
70°	4851.1	3738.0	707.9	801.8	750.5	374.3	266.9	177.0	144.1	135.4	140.2
72.5°	4208.8	3020.4	649.9	846.2	658.7	252.4	199.2	155.7	129.6	120.8	122.8
75°	2974.9	1941.0	667.3	716.6	468.0	182.8	172.2	129.6	115.0	103.5	103.5
77.5°	1306.6	831.7	523.3	516.5	299.8	145.1	146.1	107.4	99.7	88.9	88.9
80°	526.1	440.1	307.6	298.9	200.2	114.0	116.1	88.9	89.9	75.4	70.6
82.5°	278.5	251.4	171.2	160.5	143.1	88.1	82.2	76.4	75.4	62.0	54.2
85°	182.8	165.4	112.2	104.5	106.4	64.8	68.7	72.5	66.7	51.3	35.8
87.5°	113.2	112.2	79.3	75.4	79.3	46.4	56.0	59.0	56.0	38.7	23.2
90°	53.2	58.0	53.2	52.2	52.2	22.3	43.4	46.4	45.5	30.9	18.3
92.5°	41.6	47.4	49.2	50.3	50.3	23.2	45.5	48.4	46.4	31.9	20.3
95°	35.8	41.6	48.4	48.4	47.4	18.3	42.5	47.4	44.5	29.9	19.3
97.5°	29.9	34.9	41.6	41.6	45.5	15.6	39.7	45.5	44.5	31.9	20.3
100°	28.1	32.9	36.7	37.7	41.6	14.5	35.8	40.7	39.7	26.1	21.3
102.5°	26.1	28.1	29.1	29.9	30.9	13.5	28.1	30.9	29.9	19.3	19.3
105°	24.1	24.1	21.3	20.3	20.3	12.6	17.4	21.3	17.4	15.6	17.4
107.5°	24.1	23.2	17.4	15.6	15.6	11.6	13.5	13.5	11.6	15.6	16.4
110°	24.1	22.3	15.6	13.5	12.6	10.6	10.6	9.8	9.8	15.6	16.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.2	21.3	13.5	11.6	11.6	9.8	8.7	7.7	8.7	15.6	17.4
115°	22.3	20.3	12.6	11.6	10.6	8.7	7.7	5.8	8.7	16.4	18.3
117.5°	22.3	20.3	12.6	10.6	9.8	7.7	6.8	5.8	8.7	16.4	18.3
120°	23.2	20.3	12.6	9.8	8.7	6.8	5.8	5.8	8.7	16.4	18.3
122.5°	22.3	19.3	11.6	8.7	7.7	6.8	5.8	5.8	8.7	16.4	17.4
125°	21.3	19.3	11.6	7.7	6.8	5.8	4.8	4.8	9.8	16.4	17.4
127.5°	20.3	18.3	10.6	6.8	5.8	5.8	4.8	4.8	9.8	15.6	16.4
130°	18.3	16.4	10.6	6.8	4.8	4.8	3.9	3.9	9.8	15.6	16.4
132.5°	16.4	15.6	9.8	5.8	3.9	3.9	3.9	3.9	8.7	13.5	14.5
135°	14.5	12.6	8.7	4.8	3.9	2.9	2.9	2.9	7.7	11.6	12.6
137.5°	12.6	11.6	7.7	4.8	2.9	2.9	1.9	1.9	6.8	10.6	11.6
140°	10.6	9.8	6.8	3.9	2.9	2.9	1.9	1.9	4.8	7.7	8.7
142.5°	7.7	7.7	5.8	3.9	2.9	1.9	1.9	1.9	4.8	6.8	7.7
145°	6.8	6.8	5.8	3.9	2.9	1.9	1.0	1.0	2.9	4.8	4.8
147.5°	5.8	5.8	4.8	3.9	1.9	1.0	1.0	1.0	1.9	2.9	2.9
150°	4.8	4.8	3.9	2.9	1.9	1.0	0.0	0.0	1.0	1.9	1.9
152.5°	2.9	2.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.9	1.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	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	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

(END OF REPORT)