

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: P241070

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241070
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-AF24-90-D-U-SL3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7623 lumens
Efficiency: N/A
Efficacy: 81.1 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): 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

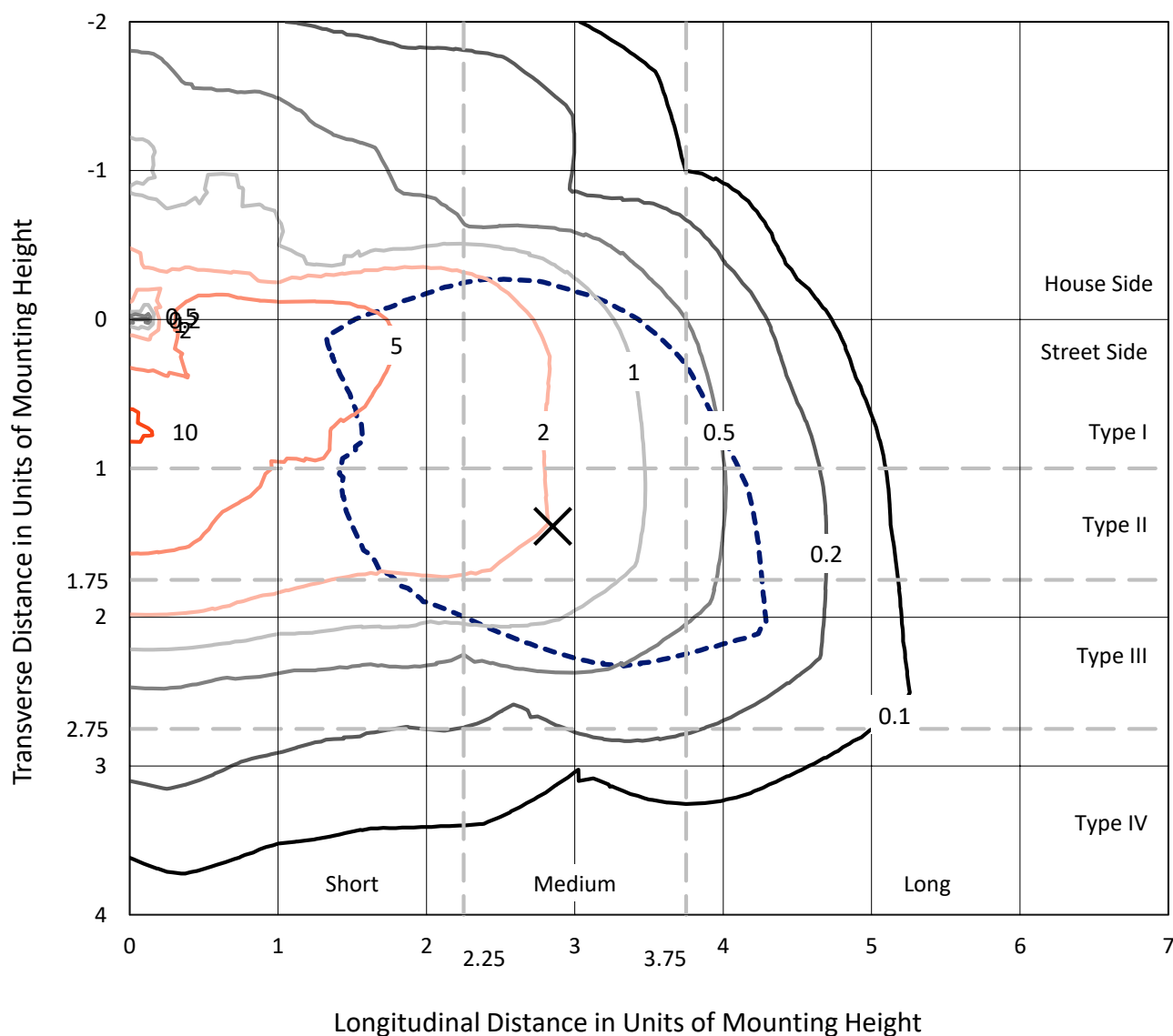


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

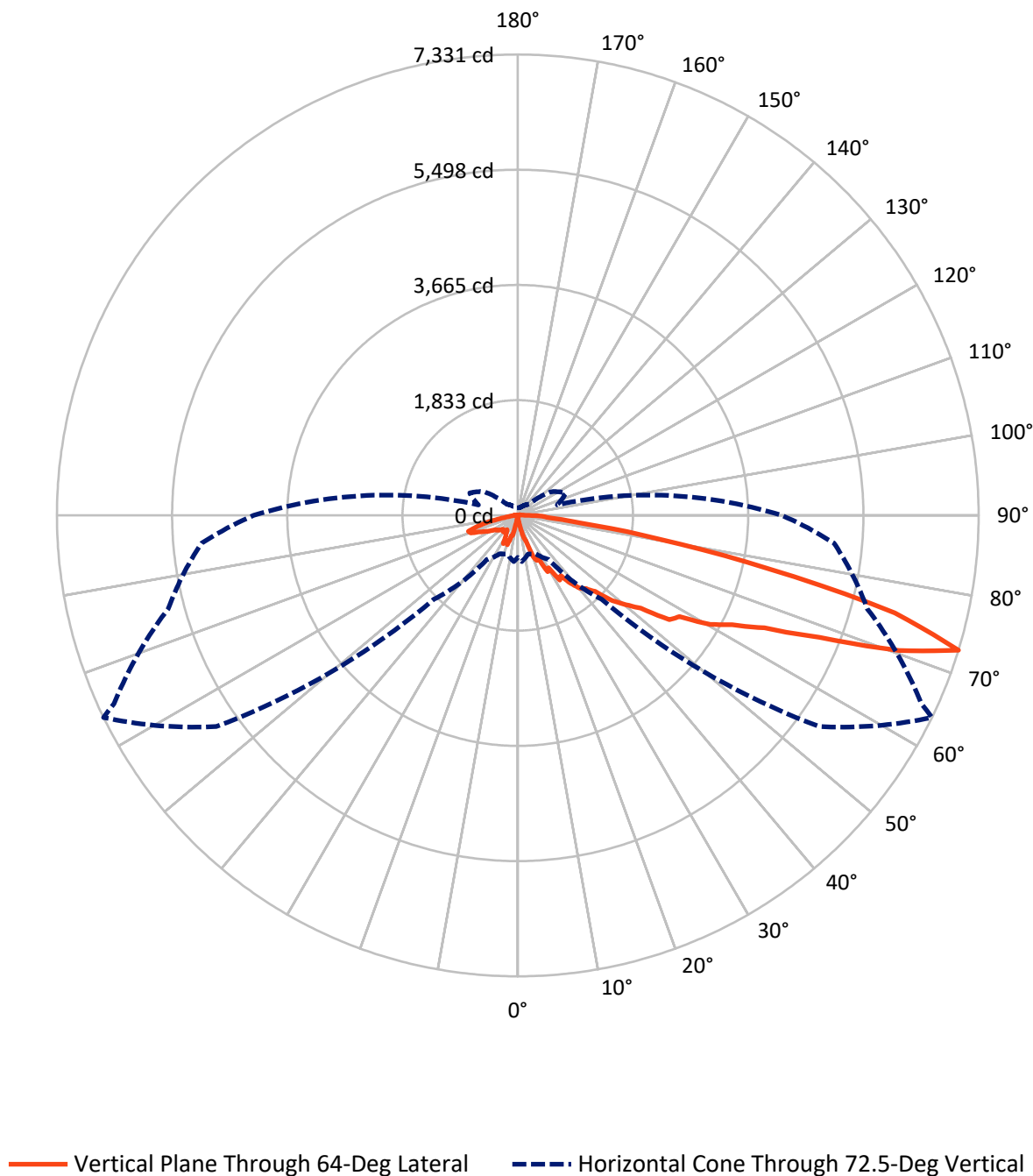


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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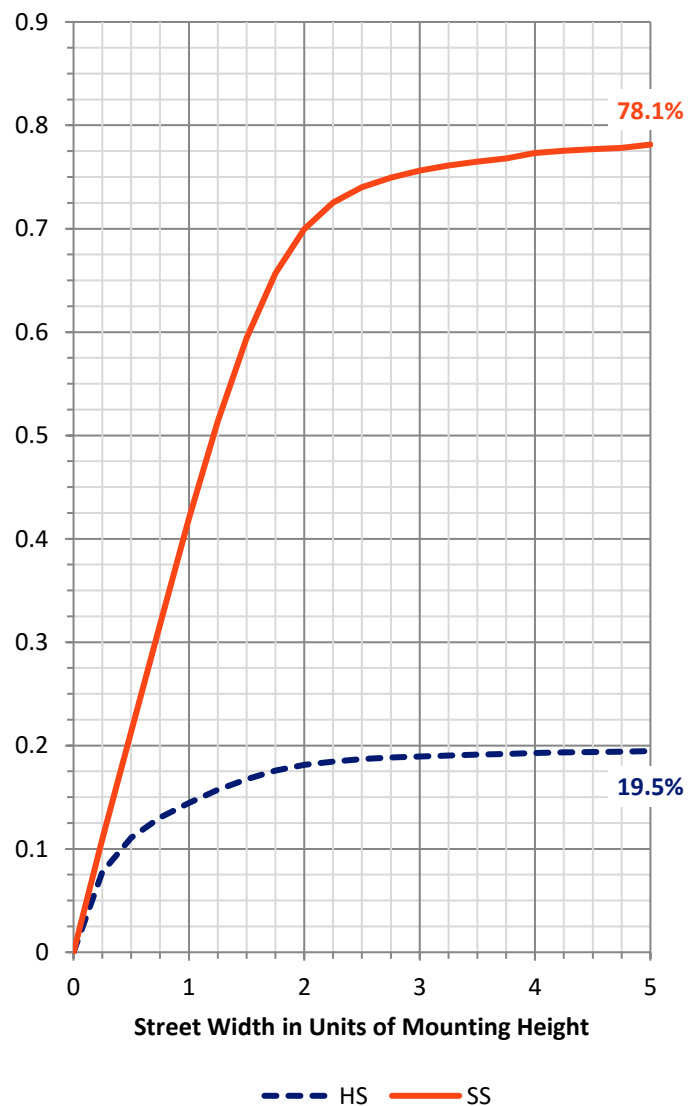
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1509.0	47.0	1556.0
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	6018.4	48.6	6067.0
	% Fixture	79.0	0.6	79.6
Total	Lumens	7527.4	95.6	7623.0
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.1
10°-20°	101.8	1.3
20°-30°	299.5	3.9
30°-40°	594.0	7.8
40°-50°	1025.0	13.4
50°-60°	1657.0	21.7
60°-70°	2100.1	27.5
70°-80°	1504.6	19.7
80°-90°	236.0	3.1
90°-100°	47.6	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°	7527.4	98.7
0°-180°	7623.0	100.0

Coefficient of Utilization



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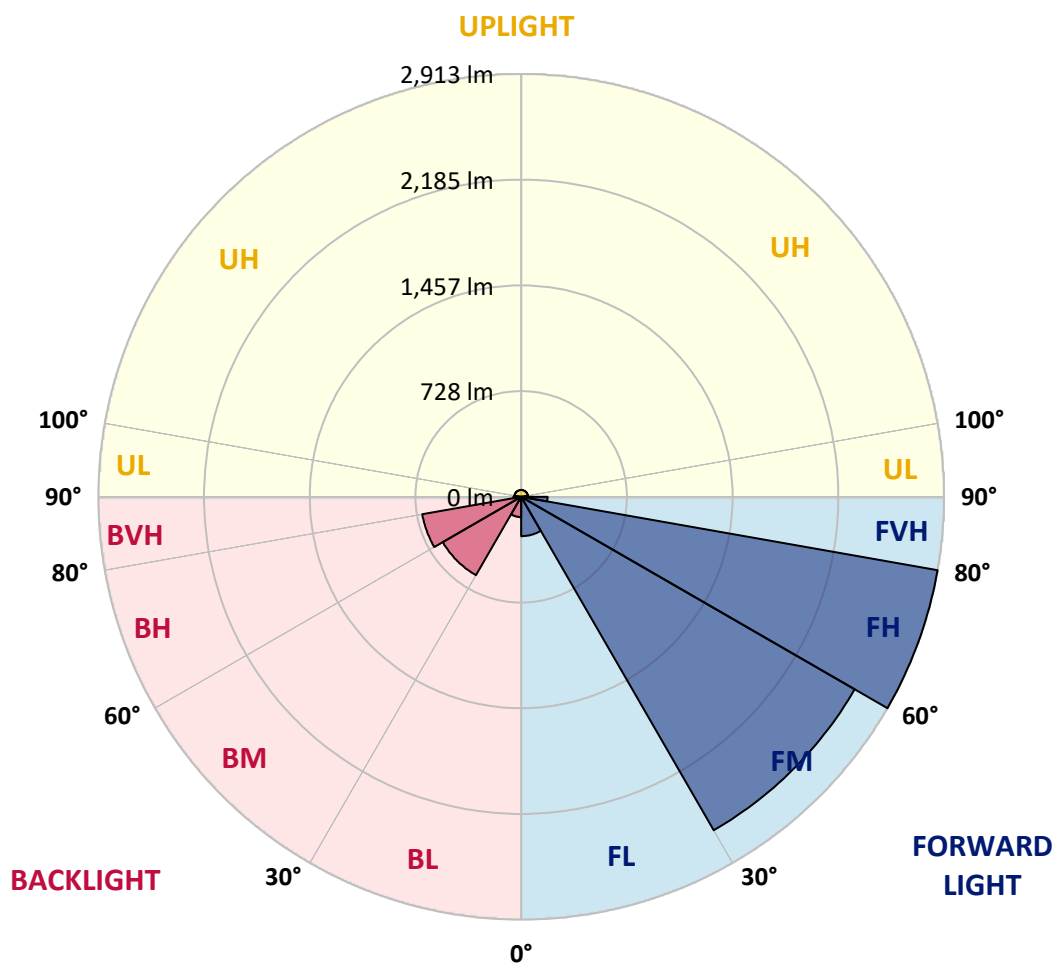
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.1	3.6			
FM	(30°-60°)	2652.7	34.8			
FH	(60°-80°)	2913.1	38.2			G2/5000
FVH	(80°-90°)	181.6	2.4			G2/225
BL	(0°-30°)	139.6	1.8	B1/500		
BM	(30°-60°)	623.4	8.2	B1/1000		
BH	(60°-80°)	691.6	9.1	B2/1000		G2/1000
BVH	(80°-90°)	54.4	0.7			G1/100
UL	(90°-100°)	47.6	0.6		U2/50	
UH	(100°-180°)	47.0	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°	53.1	47.3	49.2	43.4	36.7	29.9	25.1	22.2	22.2	21.2	19.3
5°	184.3	188.3	211.4	177.5	161.1	210.5	58.9	33.8	31.9	22.2	18.3
7.5°	246.2	257.8	184.3	153.5	143.7	231.6	172.7	94.6	78.2	29.0	20.3
10°	466.2	434.3	293.5	320.4	298.3	190.1	126.4	129.4	118.8	47.3	32.8
12.5°	417.0	421.7	431.5	391.9	403.5	299.3	153.5	252.0	269.4	303.0	284.7
15°	486.4	466.2	391.9	426.6	406.3	473.0	397.7	370.6	407.3	418.9	348.4
17.5°	660.2	645.7	749.9	511.6	371.6	531.8	473.0	433.3	412.1	459.4	555.0
20°	607.2	608.0	651.5	578.2	600.4	489.4	475.9	699.8	839.7	796.3	774.1
22.5°	914.1	886.1	736.4	574.2	634.1	560.8	668.8	780.8	741.3	723.0	780.8
25°	888.0	898.5	854.2	862.9	635.2	749.9	696.8	745.1	792.4	1137.0	1281.7
27.5°	1091.6	1031.7	980.6	893.7	874.5	705.6	673.7	1012.5	1039.5	1139.9	1201.7
30°	1436.2	1406.2	1312.6	1020.2	913.1	758.6	921.7	969.0	986.4	1341.6	1660.0
32.5°	1823.2	1713.1	1443.0	1334.8	993.1	936.3	867.7	1225.8	1205.5	1487.3	1677.4
35°	2107.9	2042.4	1787.5	1451.6	1193.9	1001.0	1167.9	1178.5	1281.7	1556.8	1693.0
37.5°	2048.2	2066.4	1961.3	1732.6	1313.7	1082.0	1263.5	1372.6	1382.1	1686.2	1794.2
40°	2203.5	2215.1	2178.4	1922.6	1515.3	1245.1	1419.9	1522.1	1441.0	1845.4	1917.8
42.5°	2294.2	2312.6	2383.1	2198.8	1709.4	1423.6	1665.0	1592.6	1521.1	1982.5	2181.4
45°	2492.1	2482.5	2513.4	2294.2	1996.9	1791.5	1747.9	1725.7	1752.7	2228.7	2435.2
47.5°	2768.2	2806.8	2654.2	2340.6	2213.1	1882.1	1980.6	2023.1	2125.3	2547.2	2692.9
50°	3176.3	3127.2	2944.7	2546.2	2426.5	2001.8	2426.5	2231.5	2178.4	2837.7	3078.0
52.5°	3342.5	3310.5	3051.9	2633.0	2559.7	2228.7	2501.8	2452.6	2434.2	3239.2	3506.5
55°	3408.2	3385.0	3277.8	2648.5	2680.3	2567.4	2869.4	2926.4	2895.6	3494.0	3938.9
57.5°	3234.4	3273.0	3280.7	2711.3	2762.4	2606.9	3447.6	3035.5	3256.6	3813.4	4274.9
60°	2998.8	3000.8	3103.1	2703.5	2838.7	2859.9	3573.1	3517.2	3723.7	3982.4	4367.5
62.5°	2416.9	2485.3	2654.2	2649.4	2944.7	3187.9	4189.9	3828.9	3910.0	4154.1	4658.0
65°	1603.2	1639.9	1844.6	2196.7	2755.6	3449.6	4696.6	4313.4	4428.3	4481.4	5080.8
67.5°	956.4	1001.9	1030.9	1403.4	2301.0	3501.8	5747.7	5173.4	5069.2	4976.5	5504.5
70°	799.1	829.1	745.1	839.7	1406.2	3179.3	6254.4	6432.0	6093.3	5646.4	5594.2
72.5°	669.9	735.5	635.2	671.7	856.1	1886.9	5854.8	7330.6	7084.5	5758.3	5047.0
75°	497.0	588.8	529.0	603.2	790.5	969.0	4417.7	6194.6	6117.3	4991.0	3746.0
77.5°	388.0	404.4	331.0	455.6	759.6	801.1	2650.4	4083.7	4017.1	3182.1	1737.3
80°	272.2	278.9	261.5	237.4	586.8	750.9	1342.6	2264.3	2123.5	988.4	577.2
82.5°	171.7	183.3	204.7	161.1	284.7	700.7	740.3	997.0	888.0	335.9	286.7
85°	103.2	113.0	126.4	113.0	133.2	535.7	573.3	512.5	468.0	204.7	181.5
87.5°	59.9	62.8	76.3	78.2	99.4	311.7	457.5	381.2	334.9	136.1	117.8
90°	41.5	38.6	38.6	40.5	51.2	136.1	223.9	133.2	134.2	71.4	61.7
92.5°	31.9	31.9	34.8	34.8	49.2	119.6	103.2	71.4	67.5	59.9	49.2
95°	24.1	26.1	26.1	28.0	33.8	36.7	51.2	53.1	53.1	54.1	43.4
97.5°	20.3	22.2	22.2	23.2	27.0	28.0	35.7	46.3	46.3	45.4	35.7
100°	19.3	20.3	19.3	19.3	22.2	21.2	29.0	39.6	41.5	39.6	30.9
102.5°	18.3	19.3	17.4	15.4	19.3	15.4	24.1	35.7	36.7	29.0	24.1
105°	18.3	18.3	15.4	12.6	15.4	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	15.4	22.2
110°	16.4	15.4	12.6	9.7	8.7	8.7	11.6	11.6	11.6	13.5	22.2



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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	21.2
115°	12.6	12.6	9.7	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	21.2
120°	12.6	12.6	8.7	5.8	4.8	3.9	4.8	5.8	5.8	12.6	22.2
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°	9.7	9.7	6.8	4.8	2.9	1.9	2.9	3.9	3.9	9.7	15.4
135°	9.7	9.7	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	9.7
142.5°	9.7	9.7	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	15.4	16.4	15.4	15.4	15.4	15.4
7.5°	19.3	19.3	17.4	16.4	16.4	16.4	21.2	128.4	283.7	243.2	252.8
10°	35.7	33.8	29.0	24.1	22.2	127.4	243.2	223.0	169.9	141.9	145.8
12.5°	354.2	318.5	205.6	142.8	164.1	169.0	152.5	166.9	272.2	249.0	249.9
15°	354.2	363.0	297.3	334.9	289.5	135.2	260.6	310.9	302.1	277.9	291.5
17.5°	598.4	594.6	370.6	340.7	279.9	282.8	245.2	213.3	197.9	194.9	197.9
20°	886.9	739.3	706.5	514.4	314.6	288.6	202.6	171.7	219.1	270.3	277.0
22.5°	780.8	780.8	634.1	459.4	389.0	247.0	221.0	219.1	262.6	259.6	272.2
25°	1318.4	1145.7	821.4	443.0	339.8	251.0	223.9	203.7	228.8	263.6	260.6
27.5°	1216.2	1128.3	811.7	532.7	266.4	273.1	206.5	200.7	257.8	277.0	278.9
30°	1534.6	1414.1	820.4	400.6	268.3	210.5	191.1	204.7	215.2	233.6	235.5
32.5°	1589.6	1439.1	787.5	361.0	282.8	202.6	194.1	193.1	219.1	252.0	254.8
35°	1555.9	1381.1	742.2	304.1	283.7	204.7	198.9	220.0	200.7	234.6	239.4
37.5°	1787.5	1410.1	669.9	283.7	260.6	210.5	260.6	210.5	209.4	220.0	222.1
40°	1784.6	1474.8	587.9	346.5	260.6	346.5	272.2	219.1	188.3	206.5	207.5
42.5°	1928.4	1511.5	515.3	357.2	280.9	401.5	253.8	213.3	223.9	235.5	247.0
45°	2094.5	1627.3	482.6	321.4	316.7	310.9	264.4	277.9	202.6	325.3	338.8
47.5°	2321.3	1775.9	438.2	314.6	429.5	312.7	503.8	258.6	223.0	385.1	392.8
50°	2660.0	2037.4	442.1	345.6	393.8	334.9	338.8	280.9	301.1	400.6	402.5
52.5°	3021.0	2256.6	415.9	381.2	387.0	411.2	361.0	419.9	296.3	385.1	385.1
55°	3340.5	2579.9	428.6	401.5	404.4	358.1	508.6	309.9	295.3	387.0	396.7
57.5°	3757.5	2925.5	514.4	419.9	415.0	382.2	392.8	384.1	347.5	393.8	399.6
60°	3978.4	3177.4	644.7	472.0	434.3	441.1	465.2	369.7	315.6	460.4	478.8
62.5°	4328.9	3540.3	816.6	534.8	551.1	451.7	396.7	402.5	335.9	366.8	370.6
65°	4733.3	3917.7	901.5	596.4	593.6	501.9	449.8	312.7	218.1	201.7	200.7
67.5°	5037.3	4063.5	825.2	666.9	740.3	481.7	308.8	222.1	167.9	158.3	161.1
70°	4841.4	3730.4	706.5	800.1	749.0	373.5	266.4	176.7	143.7	135.2	140.0
72.5°	4200.5	3014.3	648.6	844.6	657.3	252.0	198.9	155.3	129.4	120.6	122.6
75°	2968.9	1937.1	665.9	715.2	467.2	182.5	171.7	129.4	114.8	103.2	103.2
77.5°	1304.0	830.1	522.1	515.3	299.3	144.8	145.8	107.2	99.4	88.8	88.8
80°	525.1	439.1	306.9	298.3	199.8	113.8	115.9	88.8	89.8	75.3	70.5
82.5°	277.9	251.0	170.9	160.2	142.8	87.9	82.1	76.3	75.3	61.7	54.1
85°	182.5	165.1	112.0	104.3	106.2	64.7	68.5	72.4	66.6	51.2	35.7
87.5°	113.0	112.0	79.1	75.3	79.1	46.3	55.9	58.9	55.9	38.6	23.2
90°	53.1	57.9	53.1	52.1	52.1	22.2	43.4	46.3	45.4	30.9	18.3
92.5°	41.5	47.3	49.2	50.1	50.1	23.2	45.4	48.3	46.3	31.9	20.3
95°	35.7	41.5	48.3	48.3	47.3	18.3	42.5	47.3	44.4	29.9	19.3
97.5°	29.9	34.8	41.5	41.5	45.4	15.4	39.6	45.4	44.4	31.9	20.3
100°	28.0	32.8	36.7	37.7	41.5	14.5	35.7	40.5	39.6	26.1	21.2
102.5°	26.1	28.0	29.0	29.9	30.9	13.5	28.0	30.9	29.9	19.3	19.3
105°	24.1	24.1	21.2	20.3	20.3	12.6	17.4	21.2	17.4	15.4	17.4
107.5°	24.1	23.2	17.4	15.4	15.4	11.6	13.5	13.5	11.6	15.4	16.4
110°	24.1	22.2	15.4	13.5	12.6	10.6	10.6	9.7	9.7	15.4	16.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.2	21.2	13.5	11.6	11.6	9.7	8.7	7.7	8.7	15.4	17.4
115°	22.2	20.3	12.6	11.6	10.6	8.7	7.7	5.8	8.7	16.4	18.3
117.5°	22.2	20.3	12.6	10.6	9.7	7.7	6.8	5.8	8.7	16.4	18.3
120°	23.2	20.3	12.6	9.7	8.7	6.8	5.8	5.8	8.7	16.4	18.3
122.5°	22.2	19.3	11.6	8.7	7.7	6.8	5.8	5.8	8.7	16.4	17.4
125°	21.2	19.3	11.6	7.7	6.8	5.8	4.8	4.8	9.7	16.4	17.4
127.5°	20.3	18.3	10.6	6.8	5.8	5.8	4.8	4.8	9.7	15.4	16.4
130°	18.3	16.4	10.6	6.8	4.8	4.8	3.9	3.9	9.7	15.4	16.4
132.5°	16.4	15.4	9.7	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	9.7	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)