

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: P266401

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266401
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-AF24-60-D-U-SL3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 5171.3 lumens
Efficiency: N/A
Efficacy: 80.8 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: B1 - U2 - G2

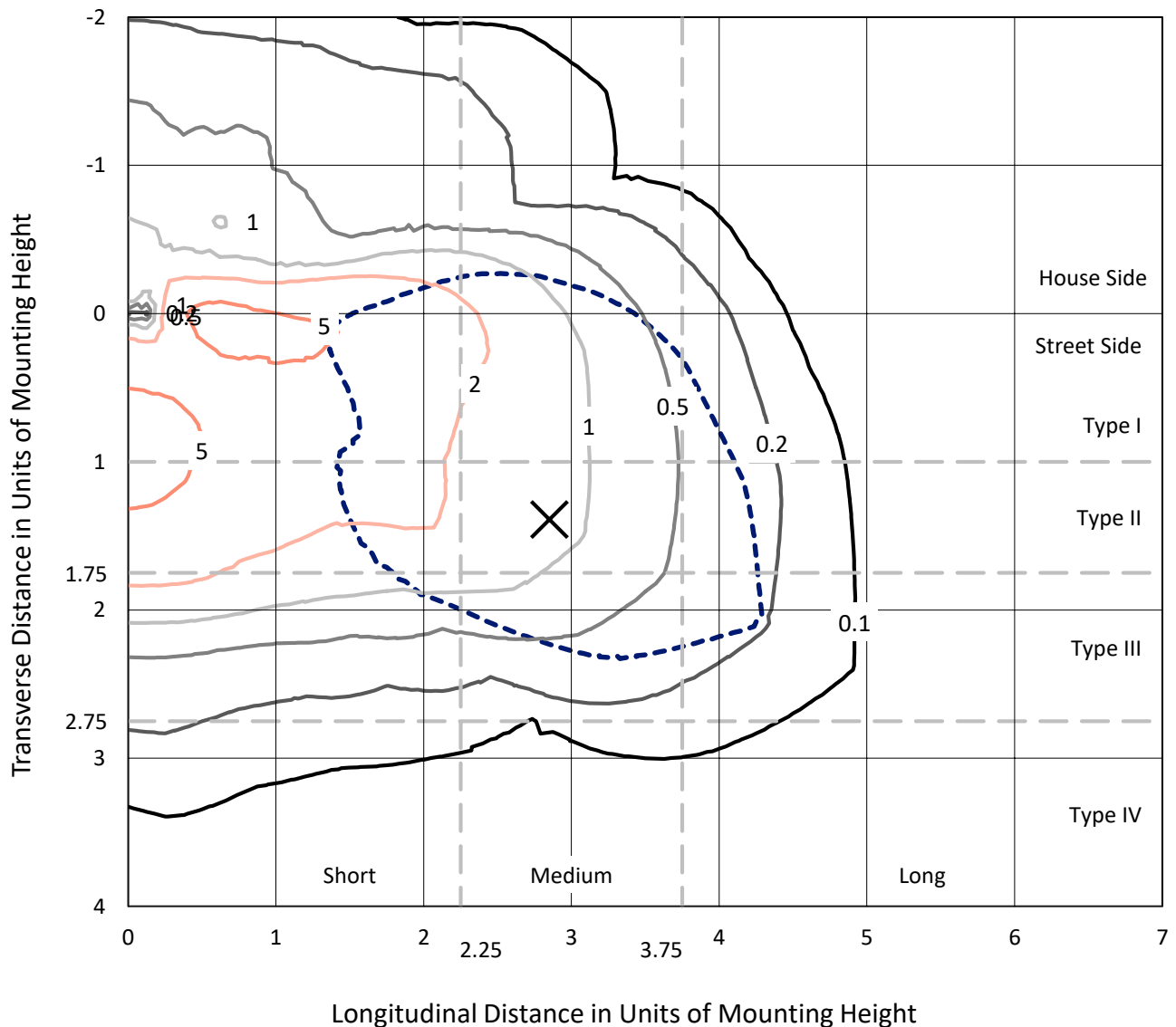
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

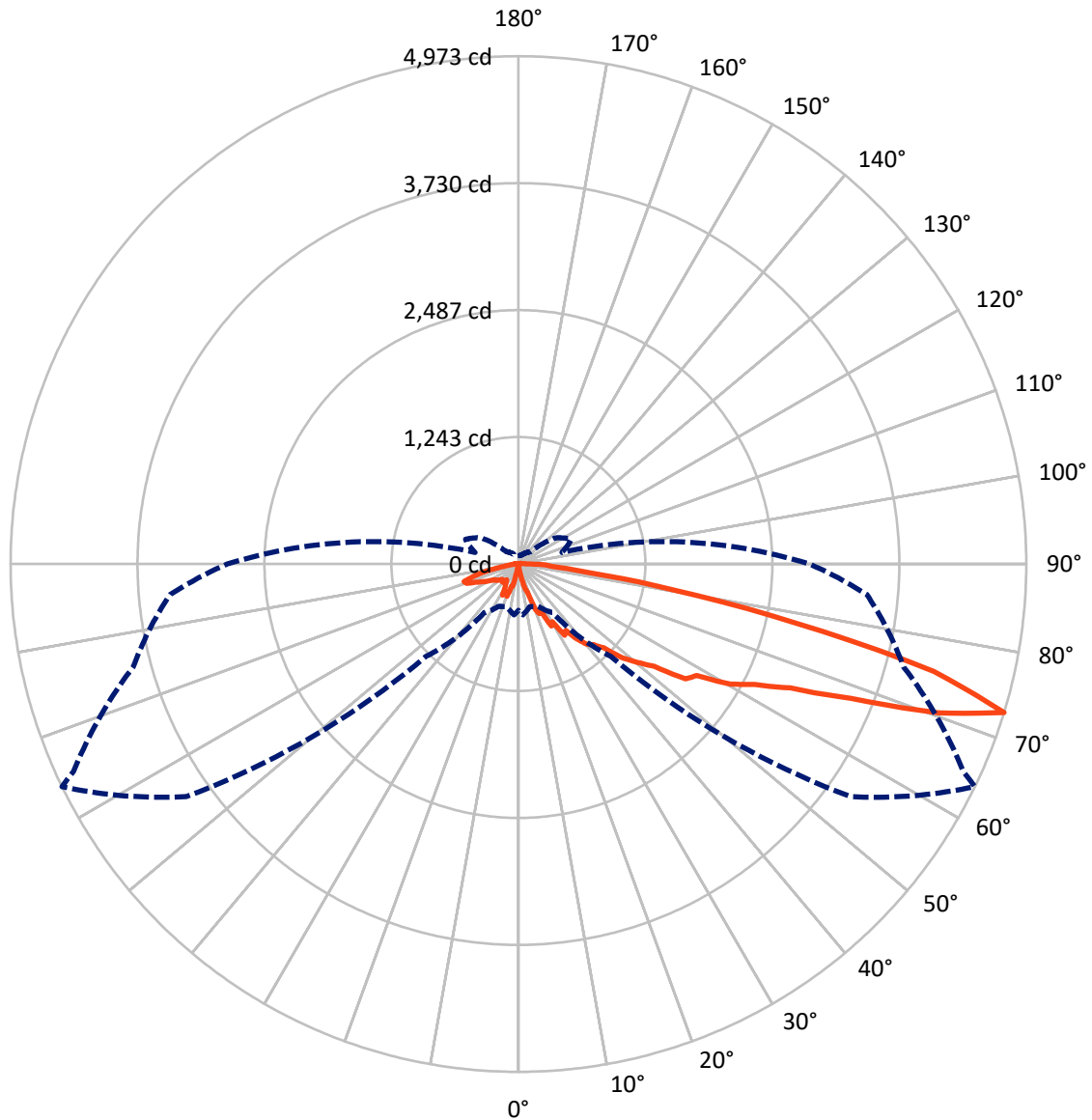
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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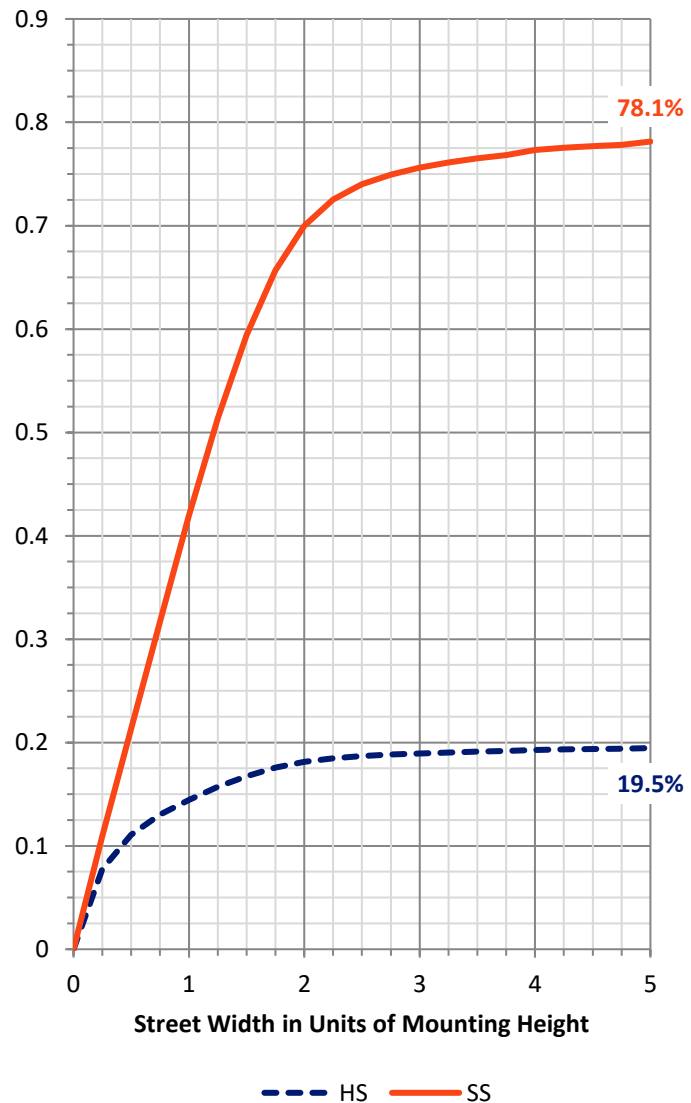
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1023.7	31.8	1055.5
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	4082.9	32.9	4115.8
	% Fixture	79.0	0.6	79.6
Total	Lumens	5106.6	64.8	5171.3
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	69.0	1.3
20°-30°	203.2	3.9
30°-40°	403.0	7.8
40°-50°	695.4	13.4
50°-60°	1124.1	21.7
60°-70°	1424.7	27.5
70°-80°	1020.7	19.7
80°-90°	160.1	3.1
90°-100°	32.3	0.6
100°-110°	14.3	0.3
110°-120°	7.3	0.1
120°-130°	5.4	0.1
130°-140°	3.4	0.1
140°-150°	1.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5106.6	98.7
0°-180°	5171.3	100.0

Coefficient of Utilization



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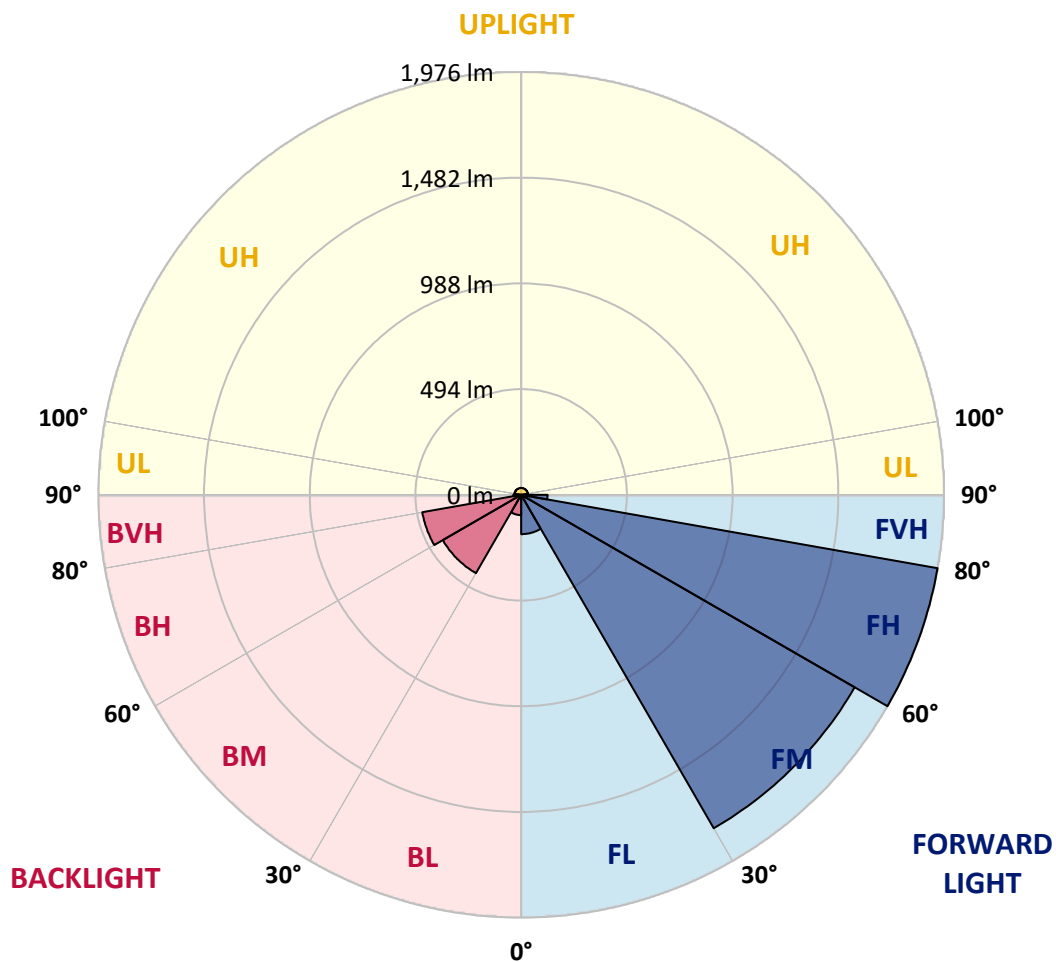
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	183.9	3.6			
FM	(30°-60°)	1799.6	34.8			
FH	(60°-80°)	1976.2	38.2			G2/5000
FVH	(80°-90°)	123.2	2.4			G2/225
BL	(0°-30°)	94.7	1.8	B0/110		
BM	(30°-60°)	422.9	8.2	B1/1000		
BH	(60°-80°)	469.2	9.1	B1/500		G1/500
BVH	(80°-90°)	36.9	0.7			G1/100
UL	(90°-100°)	32.3	0.6		U2/50	
UH	(100°-180°)	31.8	0.6		U2/50	

BUG Rating: B1-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	36.0	32.1	33.3	29.5	25.0	20.3	17.0	15.0	15.0	14.5	13.0
5°	125.0	127.6	143.4	120.6	109.4	142.7	40.0	22.8	21.6	15.0	12.4
7.5°	166.9	174.8	125.0	104.2	97.6	157.2	117.1	64.1	53.0	19.7	13.7
10°	316.3	294.6	199.1	217.4	202.3	128.9	85.8	87.8	80.6	32.1	22.3
12.5°	282.8	286.1	292.7	265.9	273.8	202.9	104.2	170.9	182.6	205.6	193.1
15°	329.9	316.3	265.9	289.4	275.7	320.9	269.9	251.4	276.3	284.1	236.3
17.5°	447.9	438.1	508.8	347.0	252.1	360.8	320.9	293.9	279.6	311.7	376.5
20°	411.9	412.5	442.0	392.2	407.3	332.0	322.9	474.8	569.6	540.2	525.1
22.5°	620.1	601.1	499.5	389.5	430.2	380.4	453.7	529.7	503.0	490.5	529.7
25°	602.5	609.6	579.4	585.3	430.8	508.8	472.8	505.4	537.5	771.4	869.6
27.5°	740.6	700.0	665.3	606.4	593.2	478.6	457.1	686.8	705.2	773.4	815.2
30°	974.3	954.0	890.5	692.1	619.4	514.6	625.3	657.4	669.1	910.2	1126.3
32.5°	1236.8	1162.2	979.0	905.5	673.8	635.1	588.7	831.7	817.8	1009.1	1138.1
35°	1430.0	1385.5	1212.6	984.8	809.9	678.9	792.2	799.5	869.6	1056.1	1148.6
37.5°	1389.5	1401.8	1330.5	1175.3	891.2	734.0	857.2	931.2	937.7	1143.9	1217.3
40°	1494.9	1502.8	1477.8	1304.2	1028.0	844.6	963.3	1032.6	977.5	1252.0	1301.0
42.5°	1556.5	1568.9	1616.7	1491.5	1159.6	965.8	1129.4	1080.4	1032.0	1344.9	1479.8
45°	1690.6	1684.1	1705.1	1556.5	1354.7	1215.2	1185.9	1170.8	1189.0	1511.8	1652.1
47.5°	1877.8	1904.0	1800.7	1587.8	1501.3	1276.9	1343.7	1372.4	1441.8	1728.0	1826.9
50°	2154.9	2121.4	1997.7	1727.4	1646.1	1358.0	1646.1	1513.9	1477.8	1925.1	2088.1
52.5°	2267.5	2245.9	2070.5	1786.2	1736.5	1511.8	1697.2	1663.8	1651.4	2197.4	2378.8
55°	2312.1	2296.2	2223.7	1796.7	1818.3	1741.8	1946.6	1985.3	1964.4	2370.3	2672.2
57.5°	2194.2	2220.4	2225.6	1839.3	1874.0	1768.6	2338.8	2059.3	2209.2	2587.1	2900.0
60°	2034.4	2035.6	2105.1	1834.0	1925.6	1940.1	2423.9	2386.0	2526.2	2701.7	2962.9
62.5°	1639.5	1686.1	1800.7	1797.4	1997.7	2162.7	2842.3	2597.4	2652.5	2818.2	3160.0
65°	1087.6	1112.6	1251.2	1490.3	1869.5	2340.2	3186.2	2926.1	3004.1	3040.1	3446.7
67.5°	648.8	679.7	699.3	952.1	1561.0	2375.6	3899.3	3509.6	3438.9	3376.0	3734.3
70°	542.1	562.5	505.4	569.6	954.0	2156.8	4243.0	4363.4	4133.6	3830.5	3795.1
72.5°	454.5	499.0	430.8	455.7	580.8	1280.1	3971.9	4973.0	4806.1	3906.4	3423.8
75°	337.3	399.4	358.9	409.3	536.3	657.4	2996.9	4202.5	4150.0	3385.9	2541.2
77.5°	263.3	274.3	224.5	309.0	515.3	543.5	1798.0	2770.4	2725.2	2158.7	1178.5
80°	184.6	189.3	177.4	161.1	398.0	509.3	910.8	1536.1	1440.5	670.5	391.5
82.5°	116.6	124.4	138.8	109.4	193.1	475.4	502.2	676.5	602.5	227.9	194.5
85°	70.1	76.6	85.8	76.6	90.4	363.5	389.0	347.6	317.6	138.8	123.1
87.5°	40.7	42.6	51.7	53.0	67.5	211.6	310.4	258.6	227.2	92.3	79.9
90°	28.1	26.2	26.2	27.5	34.8	92.3	152.0	90.4	91.0	48.5	42.0
92.5°	21.6	21.6	23.5	23.5	33.3	81.1	70.1	48.5	45.9	40.7	33.3
95°	16.3	17.6	17.6	19.0	22.8	25.0	34.8	36.0	36.0	36.7	29.5
97.5°	13.7	15.0	15.0	15.7	18.3	19.0	24.3	31.4	31.4	30.8	24.3
100°	13.0	13.7	13.0	13.0	15.0	14.5	19.7	26.9	28.1	26.9	20.9
102.5°	12.4	13.0	11.8	10.5	13.0	10.5	16.3	24.3	25.0	19.7	16.3
105°	12.4	12.4	10.5	8.5	10.5	8.5	13.7	17.0	17.0	13.7	15.7
107.5°	12.4	11.8	9.2	7.1	7.8	7.1	11.0	11.0	11.0	10.5	15.0
110°	11.0	10.5	8.5	6.6	5.8	5.8	7.8	7.8	7.8	9.2	15.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	9.8	9.2	7.1	5.2	4.6	4.6	5.2	5.8	5.8	8.5	14.5
115°	8.5	8.5	6.6	5.2	4.0	4.0	4.6	5.2	5.2	7.8	13.7
117.5°	8.5	8.5	5.8	4.6	3.2	3.2	4.0	4.6	4.6	7.8	14.5
120°	8.5	8.5	5.8	4.0	3.2	2.6	3.2	4.0	4.0	8.5	15.0
122.5°	7.8	7.8	5.8	4.0	2.6	2.6	2.6	4.0	4.0	7.8	13.7
125°	7.8	7.8	5.2	4.0	2.6	2.6	2.6	3.2	4.0	8.5	13.7
127.5°	7.1	7.1	5.8	4.0	2.6	1.9	2.6	3.2	3.2	7.8	13.0
130°	7.1	7.1	5.2	3.2	1.9	1.9	1.9	2.6	3.2	7.1	11.8
132.5°	6.6	6.6	4.6	3.2	1.9	1.3	1.9	2.6	2.6	6.6	10.5
135°	6.6	6.6	5.2	3.2	1.9	1.3	1.9	2.6	2.6	5.8	9.2
137.5°	5.8	5.8	4.6	3.2	1.9	1.3	1.3	1.9	2.6	5.8	8.5
140°	5.8	5.8	5.2	4.0	1.9	1.3	1.3	1.9	1.9	4.6	6.6
142.5°	6.6	6.6	5.2	3.2	1.9	1.3	1.3	1.3	1.9	3.2	5.2
145°	5.8	5.8	4.6	3.2	1.9	0.7	0.7	1.3	1.9	3.2	4.6
147.5°	5.8	5.8	5.2	3.2	1.3	0.7	0.7	1.3	1.3	2.6	4.0
150°	5.2	5.2	4.0	1.9	0.7	0.0	0.7	1.3	1.3	1.9	3.2
152.5°	4.0	4.0	2.6	1.3	0.0	0.0	0.0	0.7	0.7	1.3	1.9
155°	1.9	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3
157.5°	0.7	0.7	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°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	13.0	13.0	13.0	13.0	12.4	12.4	11.8	11.8	11.8	11.8	11.8
5°	12.4	12.4	12.4	11.8	11.0	10.5	11.0	10.5	10.5	10.5	10.5
7.5°	13.0	13.0	11.8	11.0	11.0	11.0	14.5	87.0	192.4	165.0	171.5
10°	24.3	22.8	19.7	16.3	15.0	86.4	165.0	151.3	115.3	96.3	98.9
12.5°	240.2	216.1	139.4	96.8	111.3	114.5	103.5	113.2	184.6	168.9	169.6
15°	240.2	246.1	201.7	227.2	196.4	91.6	176.7	210.8	205.0	188.6	197.7
17.5°	405.9	403.3	251.4	231.1	189.9	191.9	166.4	144.6	134.2	132.3	134.2
20°	601.8	501.6	479.2	349.0	213.4	195.8	137.5	116.6	148.6	183.3	187.9
22.5°	529.7	529.7	430.2	311.7	263.9	167.7	149.9	148.6	178.1	176.2	184.6
25°	894.4	777.3	557.2	300.6	230.4	170.3	152.0	138.2	155.1	178.8	176.7
27.5°	825.1	765.4	550.8	361.5	180.6	185.3	140.1	136.3	174.8	187.9	189.3
30°	1041.0	959.3	556.6	271.7	182.0	142.7	129.6	138.8	146.1	158.5	159.8
32.5°	1078.4	976.3	534.3	244.9	191.9	137.5	131.6	131.0	148.6	170.9	172.8
35°	1055.5	937.0	503.5	206.3	192.4	138.8	134.8	149.3	136.3	159.1	162.4
37.5°	1212.6	956.7	454.5	192.4	176.7	142.7	176.7	142.7	142.1	149.3	150.6
40°	1210.6	1000.5	398.8	235.0	176.7	235.0	184.6	148.6	127.6	140.1	140.8
42.5°	1308.2	1025.3	349.7	242.3	190.5	272.4	172.2	144.6	152.0	159.8	167.7
45°	1420.8	1103.9	327.4	218.1	214.8	210.8	179.4	188.6	137.5	220.7	229.8
47.5°	1574.8	1204.7	297.2	213.4	291.4	212.2	341.7	175.4	151.3	261.2	266.4
50°	1804.5	1382.2	299.9	234.4	267.2	227.2	229.8	190.5	204.3	271.7	273.1
52.5°	2049.5	1530.9	282.2	258.6	262.6	279.0	244.9	284.9	201.0	261.2	261.2
55°	2266.2	1750.3	290.7	272.4	274.3	242.9	345.0	210.3	200.3	262.6	269.1
57.5°	2549.1	1984.6	349.0	284.9	281.6	259.3	266.4	260.6	235.7	267.2	271.1
60°	2699.0	2155.6	437.4	320.2	294.6	299.2	315.7	250.7	214.2	312.3	324.7
62.5°	2936.6	2401.8	554.0	362.7	373.9	306.4	269.1	273.1	227.9	248.8	251.4
65°	3211.0	2657.7	611.6	404.6	402.7	340.5	305.2	212.2	148.0	136.8	136.3
67.5°	3417.3	2756.5	559.9	452.4	502.2	326.8	209.6	150.6	113.9	107.3	109.4
70°	3284.4	2530.7	479.2	542.8	508.1	253.4	180.6	119.8	97.6	91.6	95.0
72.5°	2849.7	2044.9	440.0	572.8	445.9	170.9	134.8	105.5	87.8	81.8	83.2
75°	2014.1	1314.1	451.8	485.2	316.9	123.7	116.6	87.8	78.0	70.1	70.1
77.5°	884.7	563.1	354.2	349.7	202.9	98.3	98.9	72.8	67.5	60.2	60.2
80°	356.2	297.9	208.1	202.3	135.6	77.3	78.6	60.2	60.8	51.1	47.8
82.5°	188.6	170.3	115.9	108.7	96.8	59.6	55.7	51.7	51.1	42.0	36.7
85°	123.7	112.0	75.9	70.7	72.0	43.8	46.5	49.0	45.2	34.8	24.3
87.5°	76.6	75.9	53.7	51.1	53.7	31.4	38.0	40.0	38.0	26.2	15.7
90°	36.0	39.3	36.0	35.4	35.4	15.0	29.5	31.4	30.8	20.9	12.4
92.5°	28.1	32.1	33.3	34.0	34.0	15.7	30.8	32.8	31.4	21.6	13.7
95°	24.3	28.1	32.8	32.8	32.1	12.4	28.8	32.1	30.2	20.3	13.0
97.5°	20.3	23.5	28.1	28.1	30.8	10.5	26.9	30.8	30.2	21.6	13.7
100°	19.0	22.3	25.0	25.5	28.1	9.8	24.3	27.5	26.9	17.6	14.5
102.5°	17.6	19.0	19.7	20.3	20.9	9.2	19.0	20.9	20.3	13.0	13.0
105°	16.3	16.3	14.5	13.7	13.7	8.5	11.8	14.5	11.8	10.5	11.8
107.5°	16.3	15.7	11.8	10.5	10.5	7.8	9.2	9.2	7.8	10.5	11.0
110°	16.3	15.0	10.5	9.2	8.5	7.1	7.1	6.6	6.6	10.5	11.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	15.7	14.5	9.2	7.8	7.8	6.6	5.8	5.2	5.8	10.5	11.8
115°	15.0	13.7	8.5	7.8	7.1	5.8	5.2	4.0	5.8	11.0	12.4
117.5°	15.0	13.7	8.5	7.1	6.6	5.2	4.6	4.0	5.8	11.0	12.4
120°	15.7	13.7	8.5	6.6	5.8	4.6	4.0	4.0	5.8	11.0	12.4
122.5°	15.0	13.0	7.8	5.8	5.2	4.6	4.0	4.0	5.8	11.0	11.8
125°	14.5	13.0	7.8	5.2	4.6	4.0	3.2	3.2	6.6	11.0	11.8
127.5°	13.7	12.4	7.1	4.6	4.0	4.0	3.2	3.2	6.6	10.5	11.0
130°	12.4	11.0	7.1	4.6	3.2	3.2	2.6	2.6	6.6	10.5	11.0
132.5°	11.0	10.5	6.6	4.0	2.6	2.6	2.6	2.6	5.8	9.2	9.8
135°	9.8	8.5	5.8	3.2	2.6	1.9	1.9	1.9	5.2	7.8	8.5
137.5°	8.5	7.8	5.2	3.2	1.9	1.9	1.3	1.3	4.6	7.1	7.8
140°	7.1	6.6	4.6	2.6	1.9	1.9	1.3	1.3	3.2	5.2	5.8
142.5°	5.2	5.2	4.0	2.6	1.9	1.3	1.3	1.3	3.2	4.6	5.2
145°	4.6	4.6	4.0	2.6	1.9	1.3	0.7	0.7	1.9	3.2	3.2
147.5°	4.0	4.0	3.2	2.6	1.3	0.7	0.7	0.7	1.3	1.9	1.9
150°	3.2	3.2	2.6	1.9	1.3	0.7	0.0	0.0	0.7	1.3	1.3
152.5°	1.9	1.9	1.9	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.7	0.7	0.7	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)