

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: P179406

Luminaire Tested: **UTLD-F03-LED-E-U-T4-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179406
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34331)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-F03-LED-E-U-T4-HSS-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4414.5 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 78.3
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

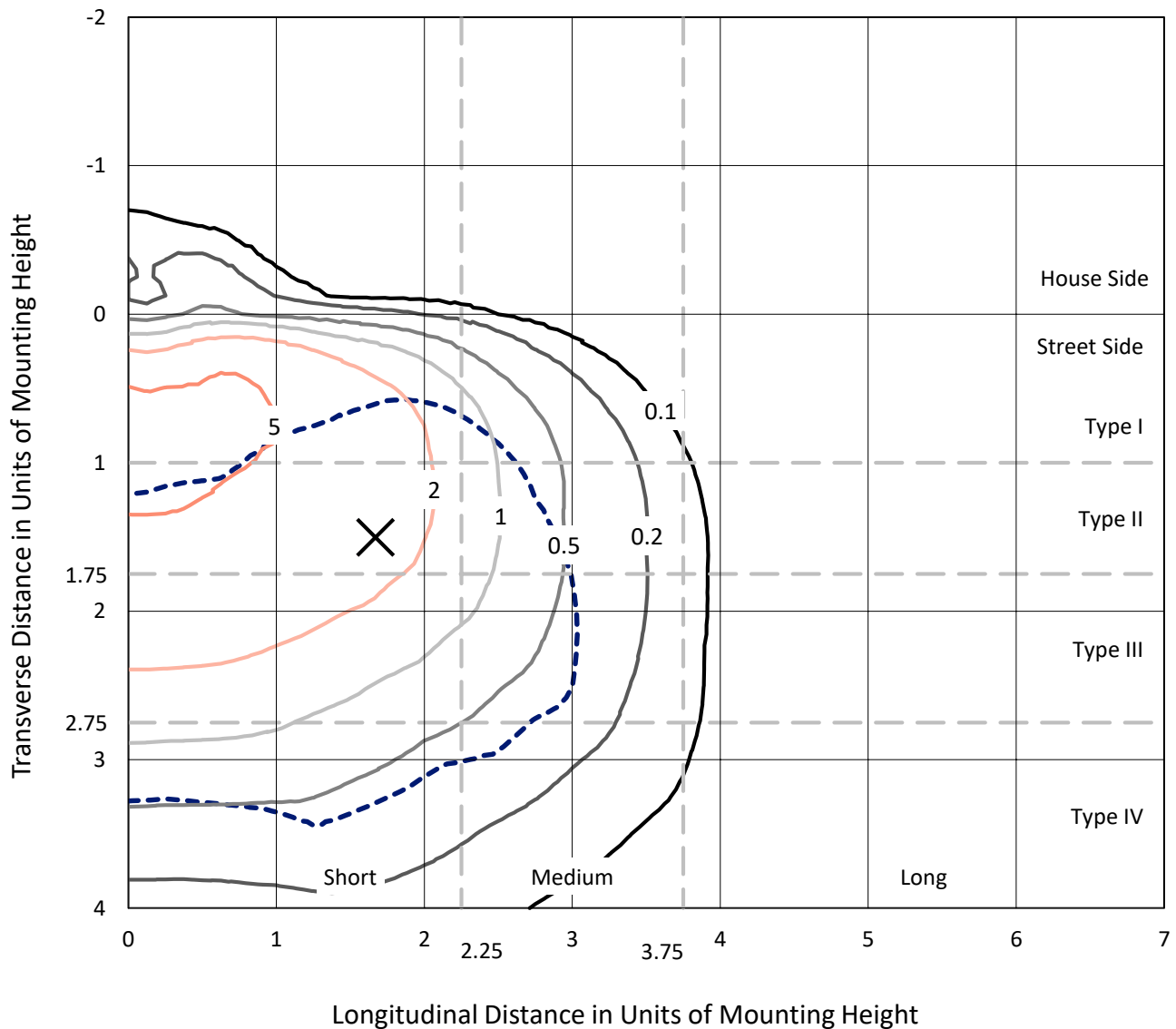


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

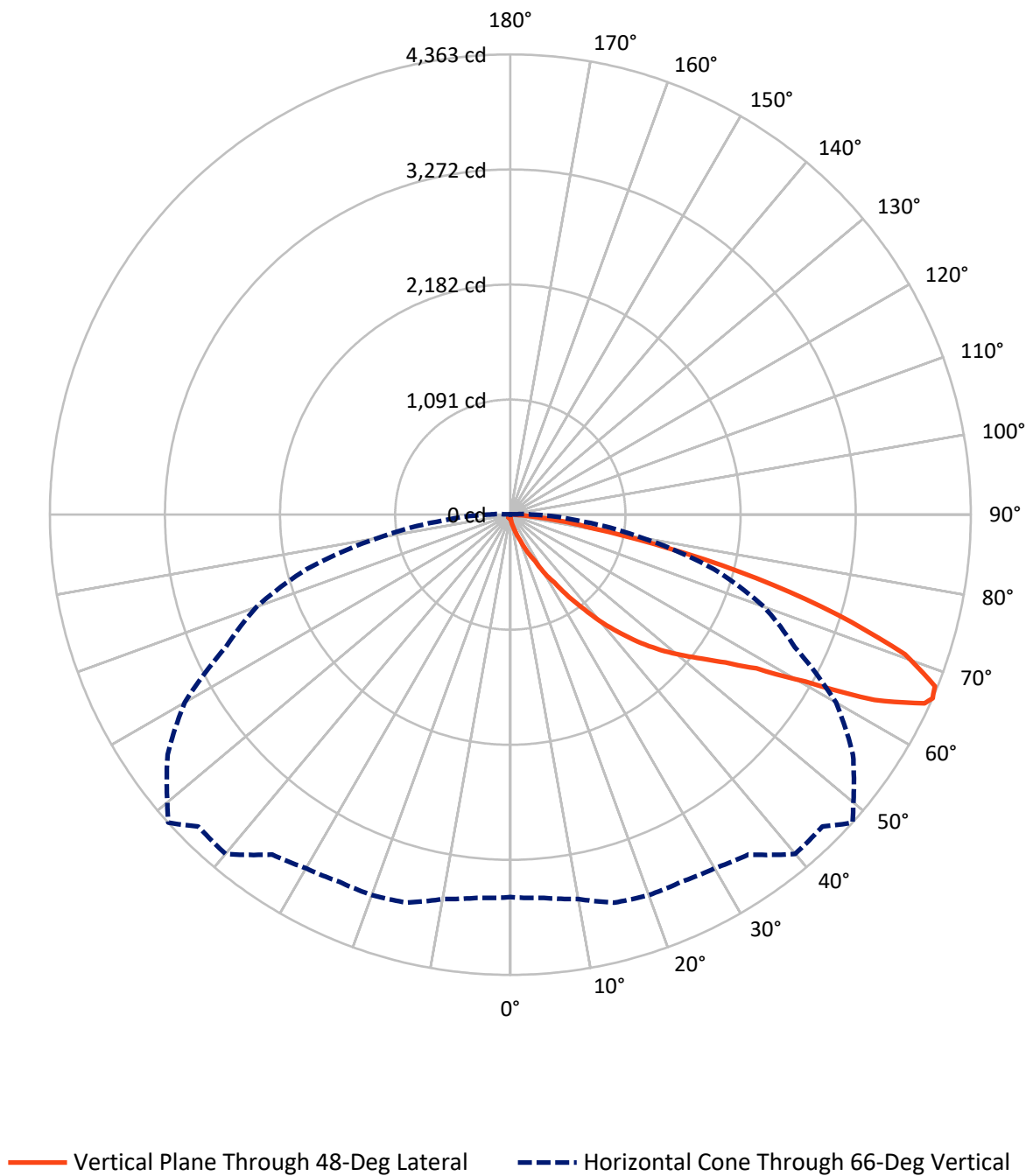


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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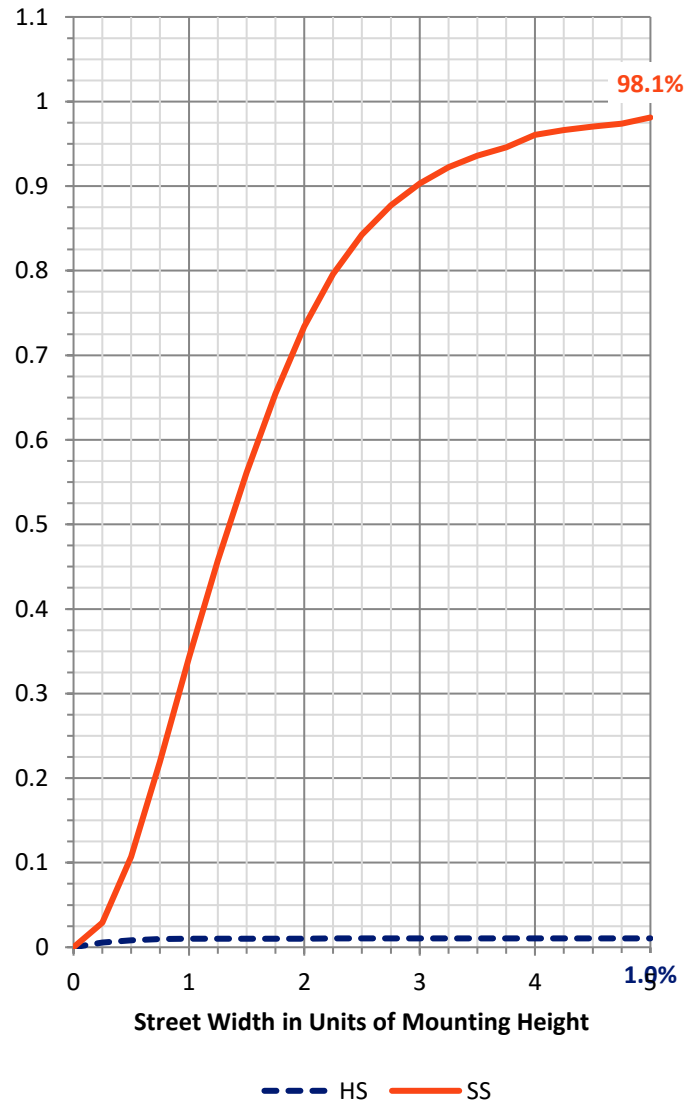
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47.3	0.0	47.3
	% Fixture	1.1	0.0	1.1
Street Side	Lumens	4367.2	0.0	4367.2
	% Fixture	98.9	0.0	98.9
Total	Lumens	4414.5	0.0	4414.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	27.4	0.6
20°-30°	104.9	2.4
30°-40°	293.7	6.7
40°-50°	570.3	12.9
50°-60°	934.5	21.2
60°-70°	1523.1	34.5
70°-80°	858.4	19.4
80°-90°	98.2	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4414.5	100.0
0°-180°	4414.5	100.0

Coefficient of Utilization



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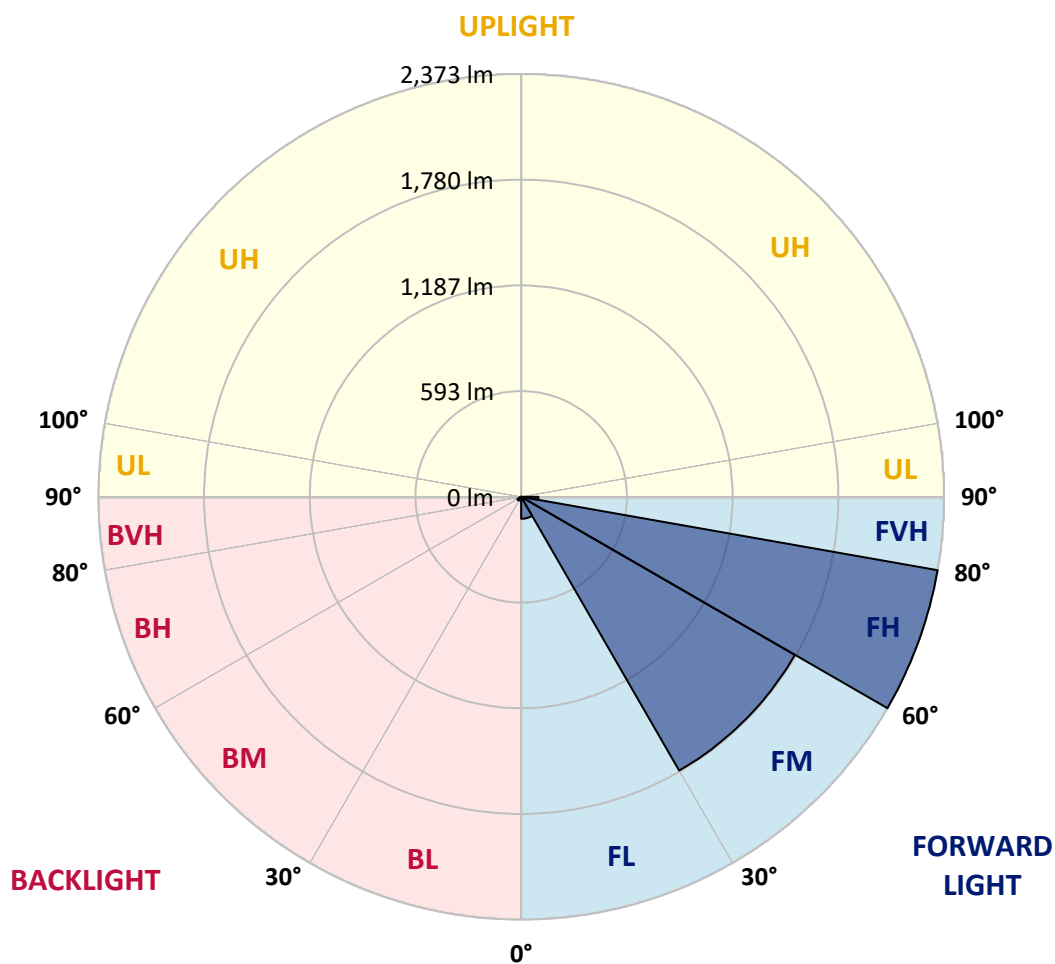
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	123.5	2.8			
FM	(30°-60°)	1774.1	40.2			
FH	(60°-80°)	2373.1	53.8			G2/5000
FVH	(80°-90°)	96.6	2.2			G1/100
BL	(0°-30°)	12.9	0.3	B0/110		
BM	(30°-60°)	24.3	0.6	B0/220		
BH	(60°-80°)	8.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	48°
0°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
2.5°	44.5	44.5	44.5	44.5	43.2	41.9	41.9	40.7	40.7	40.7	40.7
5°	64.8	64.8	61.0	59.7	57.2	55.9	53.4	52.1	50.8	48.3	48.3
7.5°	102.9	101.6	101.6	100.4	99.1	96.6	92.8	90.2	86.4	66.1	61.0
10°	130.9	132.1	129.6	128.3	120.7	116.9	111.8	106.7	105.5	96.6	91.5
12.5°	180.4	181.7	179.2	177.9	172.8	169.0	160.1	153.7	128.3	118.2	116.9
15°	257.9	257.9	245.2	219.8	212.2	203.3	189.3	186.8	188.1	171.5	149.9
17.5°	301.1	302.4	298.6	292.2	284.6	275.7	266.8	236.3	219.8	205.8	199.5
20°	410.4	410.4	402.8	390.1	344.3	326.5	325.3	310.0	298.6	263.0	249.0
22.5°	473.9	480.3	471.4	462.5	447.3	452.3	430.7	365.9	367.2	334.2	321.5
25°	622.6	623.9	609.9	599.7	594.6	518.4	498.1	508.2	468.9	426.9	416.8
27.5°	775.1	784.0	700.1	681.0	681.0	664.5	672.2	599.7	589.6	537.5	496.8
30°	889.4	893.2	879.3	846.2	833.5	829.7	763.6	768.7	706.5	626.4	653.1
32.5°	1096.5	1102.9	1076.2	1063.5	973.3	939.0	898.3	899.6	823.4	810.7	768.7
35°	1348.1	1354.5	1320.2	1212.2	1196.9	1148.6	1125.8	1036.8	1022.8	956.8	956.8
37.5°	1514.6	1493.0	1461.2	1420.5	1429.4	1365.9	1292.2	1278.2	1202.0	1152.4	1138.5
40°	1639.1	1645.4	1642.9	1622.6	1578.1	1518.4	1494.2	1459.9	1397.7	1348.1	1354.5
42.5°	1747.1	1759.8	1770.0	1740.7	1705.2	1679.8	1645.4	1623.8	1573.0	1510.8	1541.3
45°	1855.1	1865.3	1886.9	1869.1	1843.7	1839.8	1757.3	1777.6	1736.9	1687.4	1738.2
47.5°	1980.9	1991.1	2007.6	2008.8	2006.3	1952.9	1884.3	1914.8	1905.9	1846.2	1917.4
50°	2121.9	2123.2	2152.4	2172.7	2133.4	2091.4	2025.4	2040.6	2054.6	2008.8	2091.4
52.5°	2274.4	2290.9	2312.5	2326.5	2271.9	2251.5	2195.6	2193.1	2222.3	2175.3	2264.2
55°	2505.6	2513.3	2523.4	2528.5	2457.4	2465.0	2383.7	2376.0	2419.2	2368.4	2473.9
57.5°	2796.6	2816.9	2838.6	2828.4	2754.7	2748.3	2637.8	2600.9	2675.9	2645.4	2749.6
60°	3238.8	3257.9	3274.4	3285.8	3245.1	3221.0	3050.7	3024.1	3149.9	3087.6	3212.1
62.5°	3701.3	3721.6	3740.7	3820.7	3778.8	3748.3	3644.1	3644.1	3797.9	3752.1	3871.6
65°	3694.9	3724.2	3767.4	3872.8	3891.9	3877.9	3874.1	3922.4	4161.3	4146.0	4313.7
66°	3626.3	3646.7	3701.3	3808.0	3838.5	3839.8	3871.6	3933.8	4198.1	4181.6	4363.3
67.5°	3466.2	3491.6	3550.1	3677.2	3708.9	3733.1	3815.7	3865.2	4162.5	4152.4	4339.1
70°	3104.1	3115.5	3170.2	3302.3	3378.6	3365.9	3490.4	3509.4	3797.9	3834.7	3966.9
72.5°	2391.3	2376.0	2542.5	2725.5	2850.0	2801.7	2891.9	2897.0	3142.2	3138.4	3243.9
75°	1271.9	1280.8	1385.0	1628.9	2085.1	2099.1	2116.8	2115.6	2315.1	2313.8	2407.8
77.5°	804.3	825.9	865.3	939.0	1167.7	1334.1	1398.9	1372.3	1459.9	1490.4	1538.7
80°	325.3	339.3	386.3	507.0	780.2	845.0	865.3	825.9	842.4	801.8	801.8
82.5°	108.0	109.3	124.5	157.6	400.2	559.1	575.6	486.6	479.0	465.0	465.0
85°	58.4	58.4	61.0	82.6	155.0	301.1	330.4	222.4	218.5	185.5	171.5
87.5°	5.1	6.4	5.1	14.0	24.1	45.7	53.4	55.9	63.5	72.4	58.4
90°	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
2.5°	40.7	40.7	40.7	41.9	41.9	40.7	39.4	35.6	34.3	31.8	29.2
5°	47.0	45.7	43.2	41.9	40.7	39.4	39.4	36.8	31.8	28.0	24.1
7.5°	59.7	53.4	49.6	47.0	43.2	39.4	38.1	38.1	30.5	25.4	22.9
10°	88.9	86.4	66.1	57.2	52.1	48.3	45.7	47.0	38.1	30.5	29.2
12.5°	114.4	108.0	96.6	76.2	59.7	54.6	49.6	44.5	38.1	30.5	26.7
15°	143.6	128.3	116.9	104.2	85.1	69.9	61.0	57.2	47.0	39.4	34.3
17.5°	193.1	188.1	144.8	127.1	109.3	78.8	68.6	55.9	49.6	38.1	34.3
20°	241.4	222.4	189.3	166.5	142.3	110.5	87.7	73.7	59.7	50.8	45.7
22.5°	306.2	288.4	252.9	198.2	169.0	141.0	100.4	87.7	68.6	57.2	50.8
25°	414.2	355.8	313.8	275.7	230.0	185.5	127.1	95.3	76.2	63.5	55.9
27.5°	498.1	463.8	411.7	352.0	269.4	214.7	160.1	109.3	85.1	69.9	59.7
30°	676.0	561.6	543.8	461.2	353.2	255.4	183.0	125.8	88.9	71.2	61.0
32.5°	785.2	747.1	658.2	568.0	463.8	343.1	230.0	139.8	95.3	72.4	64.8
35°	979.6	886.9	839.9	745.9	603.5	439.6	275.7	166.5	95.3	73.7	63.5
37.5°	1180.4	1082.6	992.3	895.8	729.3	523.5	332.9	188.1	101.6	69.9	59.7
40°	1344.3	1250.3	1127.0	1033.0	834.8	611.2	401.5	202.0	97.8	67.3	54.6
42.5°	1529.8	1418.0	1283.3	1181.7	956.8	730.6	457.4	237.6	100.4	64.8	49.6
45°	1703.9	1583.2	1447.2	1304.9	1074.9	845.0	522.2	257.9	109.3	63.5	44.5
47.5°	1866.5	1739.5	1611.1	1411.7	1221.1	965.7	621.3	307.5	116.9	59.7	40.7
50°	2012.7	1891.9	1749.6	1523.5	1340.5	1055.9	716.6	343.1	125.8	54.6	36.8
52.5°	2179.1	2054.6	1869.1	1641.6	1451.0	1171.5	801.8	391.3	137.2	49.6	33.0
55°	2384.9	2228.7	2049.5	1836.0	1580.6	1320.2	898.3	437.1	152.5	44.5	29.2
57.5°	2640.3	2508.2	2325.2	2074.9	1775.0	1466.3	1015.2	495.5	166.5	40.7	26.7
60°	3105.4	2933.8	2761.0	2466.3	2064.7	1700.1	1156.3	571.8	189.3	36.8	24.1
62.5°	3764.8	3578.0	3298.5	2871.6	2442.1	1921.2	1294.8	648.0	214.7	33.0	22.9
65°	4184.1	3927.5	3553.9	2998.6	2580.6	2022.8	1306.2	646.7	217.3	30.5	20.3
66°	4243.8	3964.3	3562.8	2975.8	2560.3	1997.4	1275.7	637.8	213.5	28.0	19.1
67.5°	4237.5	3928.7	3496.7	2880.5	2458.6	1907.2	1176.6	593.4	202.0	26.7	17.8
70°	3905.9	3598.4	3142.2	2551.4	2149.9	1648.0	1011.4	509.5	172.8	22.9	15.2
72.5°	3243.9	2952.9	2540.0	2022.8	1733.1	1303.6	775.1	400.2	136.0	19.1	12.7
75°	2396.4	2118.1	1804.3	1405.3	1141.0	824.6	482.8	259.2	88.9	15.2	10.2
77.5°	1495.5	1260.4	956.8	715.4	532.4	343.1	170.3	87.7	38.1	12.7	7.6
80°	789.1	642.9	463.8	335.4	246.5	153.7	78.8	40.7	20.3	10.2	5.1
82.5°	454.9	382.5	283.3	210.9	165.2	108.0	58.4	33.0	15.2	6.4	3.8
85°	163.9	141.0	157.6	119.4	90.2	59.7	41.9	26.7	10.2	5.1	3.8
87.5°	61.0	49.6	44.5	38.1	36.8	36.8	34.3	20.3	6.4	3.8	3.8
90°	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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
2.5°	28.0	25.4	25.4	24.1	24.1	22.9	22.9	22.9	22.9	22.9	24.1
5°	22.9	21.6	21.6	21.6	20.3	20.3	22.9	24.1	25.4	26.7	25.4
7.5°	22.9	21.6	20.3	21.6	24.1	19.1	15.2	14.0	12.7	14.0	14.0
10°	25.4	24.1	26.7	17.8	12.7	11.4	12.7	12.7	12.7	16.5	20.3
12.5°	25.4	26.7	20.3	17.8	17.8	16.5	20.3	17.8	17.8	17.8	17.8
15°	34.3	25.4	21.6	19.1	21.6	22.9	22.9	21.6	19.1	17.8	21.6
17.5°	29.2	26.7	25.4	30.5	28.0	24.1	21.6	24.1	25.4	22.9	20.3
20°	40.7	36.8	35.6	30.5	28.0	28.0	29.2	24.1	22.9	22.9	25.4
22.5°	43.2	39.4	40.7	38.1	36.8	29.2	28.0	26.7	26.7	24.1	24.1
25°	52.1	53.4	47.0	40.7	36.8	34.3	31.8	26.7	26.7	24.1	25.4
27.5°	55.9	52.1	47.0	44.5	40.7	33.0	31.8	28.0	25.4	25.4	22.9
30°	58.4	53.4	49.6	44.5	39.4	35.6	31.8	26.7	24.1	24.1	22.9
32.5°	62.3	55.9	47.0	41.9	38.1	31.8	30.5	25.4	22.9	20.3	20.3
35°	57.2	50.8	44.5	39.4	33.0	29.2	26.7	24.1	20.3	19.1	17.8
37.5°	50.8	44.5	39.4	34.3	30.5	26.7	24.1	20.3	17.8	16.5	15.2
40°	45.7	38.1	34.3	29.2	26.7	22.9	20.3	16.5	14.0	12.7	11.4
42.5°	40.7	33.0	29.2	25.4	21.6	19.1	16.5	12.7	10.2	8.9	7.6
45°	35.6	29.2	24.1	21.6	17.8	15.2	12.7	8.9	6.4	5.1	3.8
47.5°	31.8	25.4	21.6	17.8	15.2	11.4	8.9	5.1	3.8	2.5	1.3
50°	28.0	21.6	17.8	15.2	11.4	8.9	6.4	3.8	2.5	1.3	1.3
52.5°	24.1	19.1	16.5	12.7	10.2	6.4	3.8	2.5	1.3	1.3	0.0
55°	21.6	17.8	14.0	10.2	7.6	5.1	2.5	1.3	1.3	0.0	0.0
57.5°	20.3	16.5	11.4	7.6	6.4	3.8	2.5	1.3	1.3	0.0	0.0
60°	19.1	14.0	8.9	6.4	5.1	2.5	1.3	1.3	1.3	0.0	0.0
62.5°	17.8	11.4	7.6	5.1	3.8	2.5	1.3	1.3	1.3	1.3	0.0
65°	14.0	8.9	5.1	3.8	2.5	2.5	1.3	1.3	1.3	1.3	1.3
66°	12.7	7.6	5.1	3.8	2.5	2.5	1.3	1.3	1.3	1.3	1.3
67.5°	11.4	7.6	3.8	3.8	2.5	2.5	1.3	1.3	1.3	1.3	1.3
70°	8.9	5.1	3.8	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3
72.5°	7.6	5.1	3.8	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3
75°	6.4	3.8	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3
77.5°	5.1	3.8	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3
80°	3.8	3.8	2.5	2.5	2.5	2.5	1.3	2.5	2.5	1.3	1.3
82.5°	3.8	2.5	2.5	2.5	2.5	3.8	1.3	2.5	2.5	2.5	2.5
85°	3.8	2.5	2.5	3.8	3.8	3.8	1.3	3.8	3.8	3.8	2.5
87.5°	3.8	3.8	3.8	3.8	5.1	5.1	2.5	5.1	5.1	5.1	3.8
90°	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):

	160°	165°	170°	175°	180°
0°	34.3	34.3	34.3	34.3	34.3
2.5°	24.1	25.4	25.4	25.4	25.4
5°	25.4	22.9	24.1	24.1	24.1
7.5°	15.2	15.2	15.2	15.2	15.2
10°	21.6	21.6	21.6	21.6	21.6
12.5°	19.1	20.3	20.3	20.3	20.3
15°	22.9	24.1	24.1	24.1	25.4
17.5°	20.3	20.3	22.9	21.6	22.9
20°	24.1	24.1	24.1	24.1	24.1
22.5°	21.6	21.6	24.1	25.4	25.4
25°	24.1	22.9	22.9	22.9	22.9
27.5°	22.9	24.1	24.1	24.1	24.1
30°	21.6	20.3	21.6	21.6	22.9
32.5°	20.3	20.3	20.3	20.3	20.3
35°	17.8	17.8	17.8	19.1	19.1
37.5°	14.0	14.0	15.2	15.2	15.2
40°	11.4	10.2	10.2	11.4	11.4
42.5°	7.6	6.4	6.4	6.4	6.4
45°	3.8	2.5	2.5	2.5	2.5
47.5°	1.3	1.3	1.3	1.3	1.3
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
66°	1.3	0.0	0.0	0.0	0.0
67.5°	1.3	0.0	0.0	0.0	0.0
70°	1.3	0.0	0.0	0.0	0.0
72.5°	1.3	1.3	0.0	0.0	0.0
75°	1.3	1.3	0.0	0.0	0.0
77.5°	1.3	1.3	1.3	0.0	0.0
80°	1.3	1.3	1.3	0.0	0.0
82.5°	1.3	1.3	1.3	1.3	0.0
85°	2.5	2.5	2.5	2.5	0.0
87.5°	3.8	3.8	3.8	3.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)