

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: P241074

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241074
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-AF24-40-D-U-SL3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 4085.6 lumens
Efficiency: N/A
Efficacy: 102.1 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: B1 - U2 - G1

Input Watts (W): 40
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



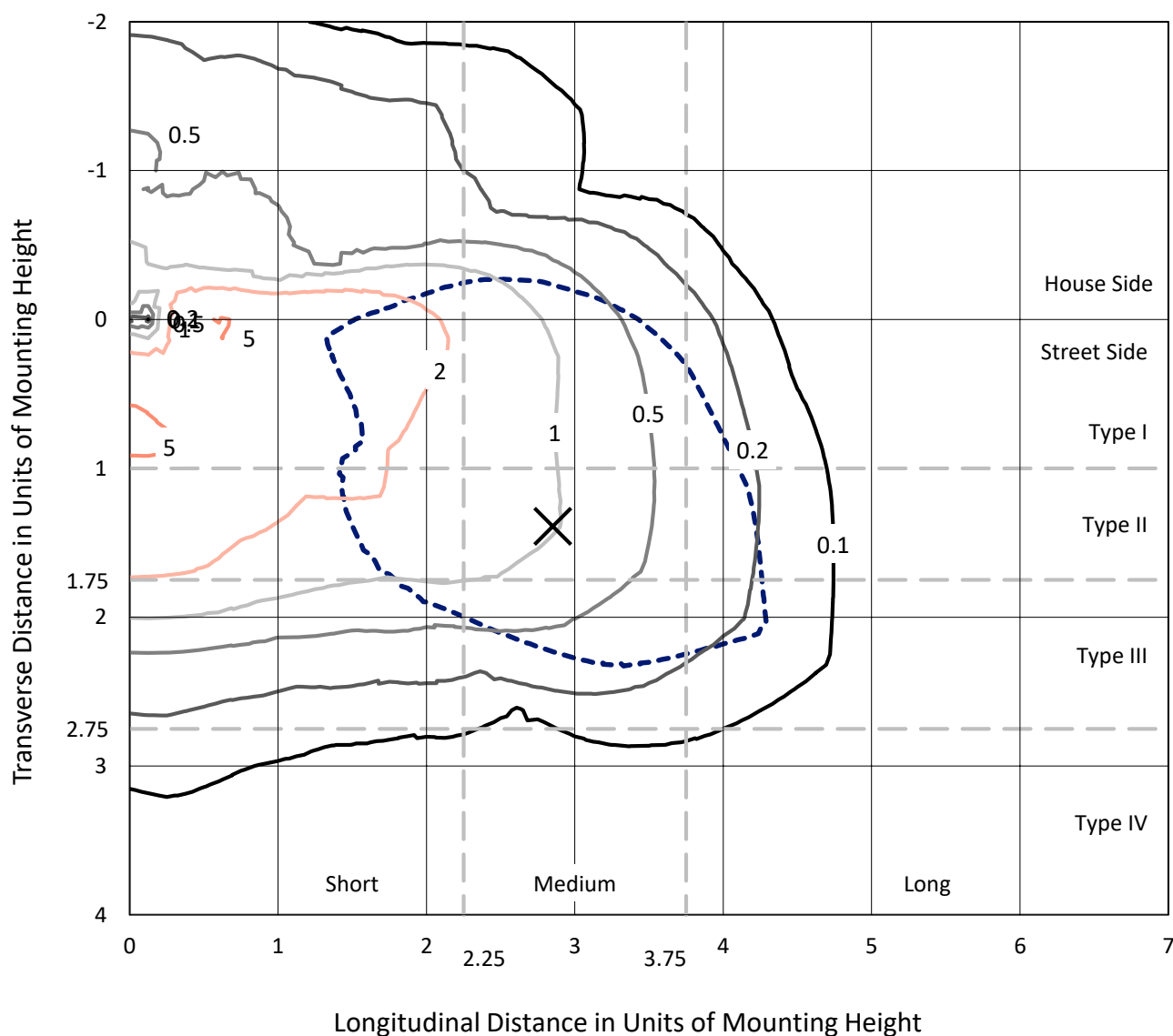
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

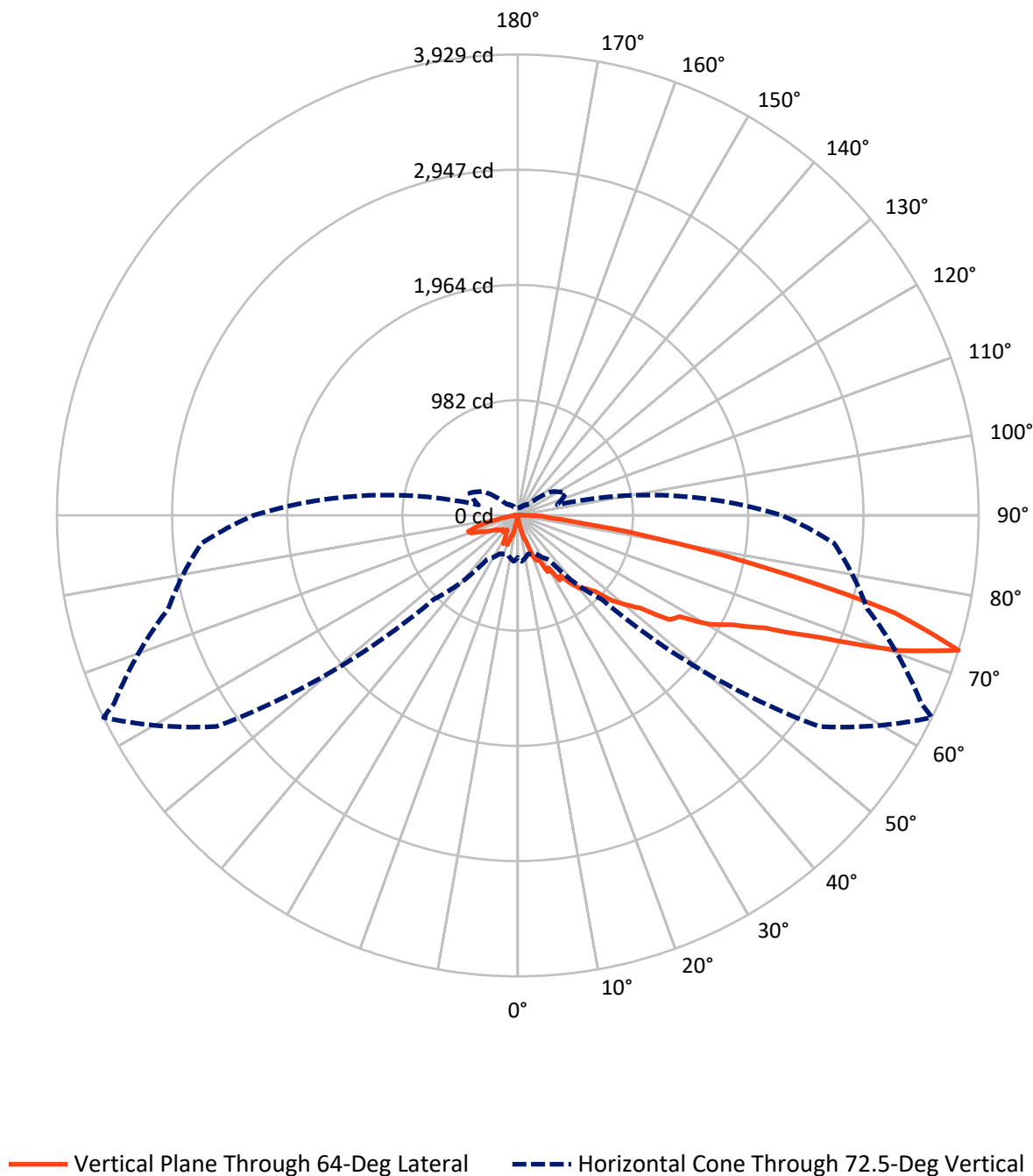


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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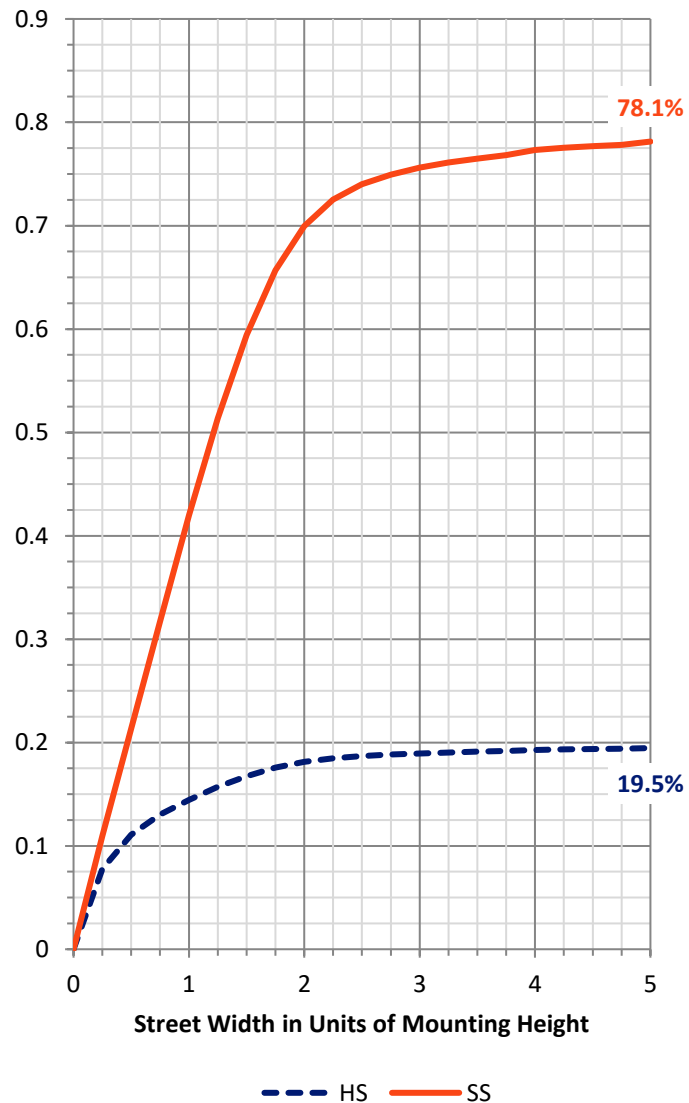
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	808.8	25.2	834.0
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	3225.7	26.0	3251.7
	% Fixture	79.0	0.6	79.6
Total	Lumens	4034.4	51.2	4085.6
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	54.6	1.3
20°-30°	160.5	3.9
30°-40°	318.4	7.8
40°-50°	549.4	13.4
50°-60°	888.1	21.7
60°-70°	1125.6	27.5
70°-80°	806.4	19.7
80°-90°	126.5	3.1
90°-100°	25.5	0.6
100°-110°	11.4	0.3
110°-120°	5.8	0.1
120°-130°	4.3	0.1
130°-140°	2.7	0.1
140°-150°	1.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4034.4	98.7
0°-180°	4085.6	100.0

Coefficient of Utilization



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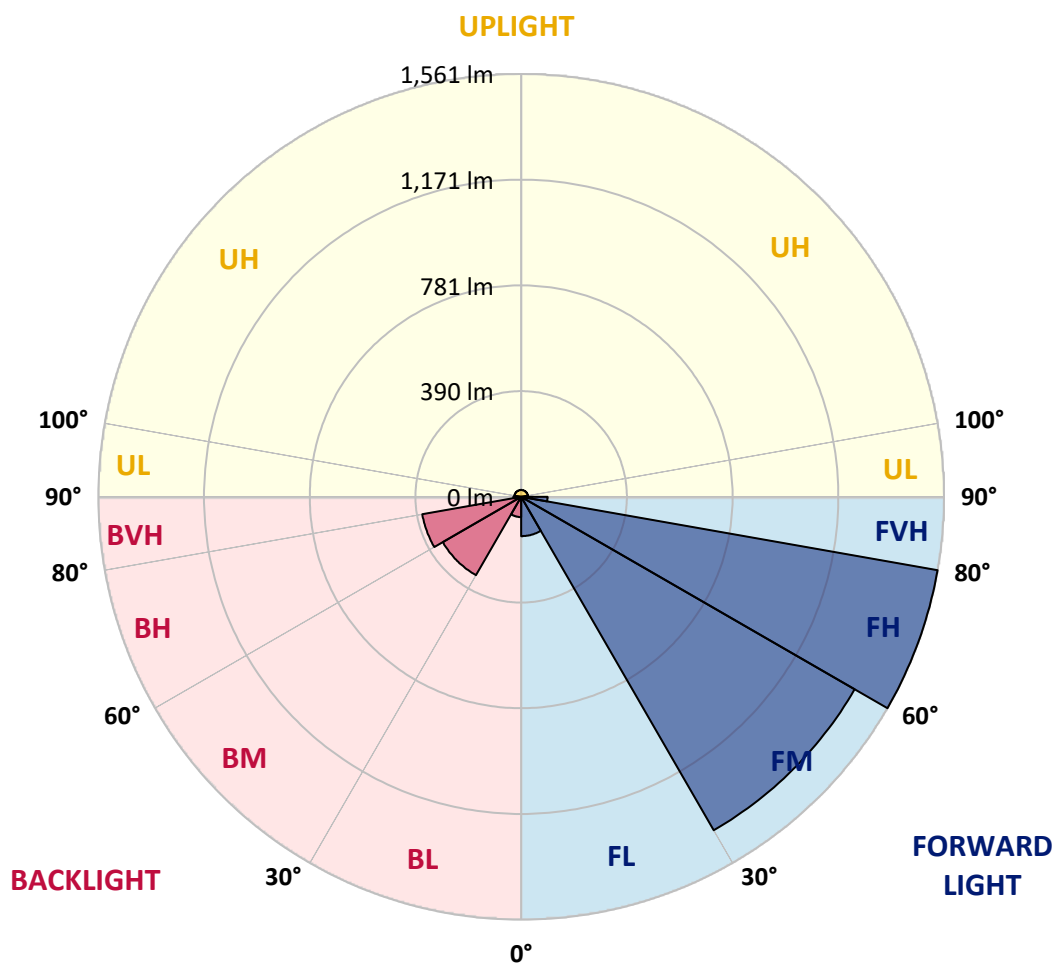
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.3	3.6			
FM	(30°-60°)	1421.7	34.8			
FH	(60°-80°)	1561.3	38.2			G1/1800
FVH	(80°-90°)	97.3	2.4			G1/100
BL	(0°-30°)	74.8	1.8	B0/110		
BM	(30°-60°)	334.1	8.2	B1/1000		
BH	(60°-80°)	370.7	9.1	B1/500		G1/500
BVH	(80°-90°)	29.2	0.7			G1/100
UL	(90°-100°)	25.5	0.6		U2/50	
UH	(100°-180°)	25.2	0.6		U2/50	

BUG Rating: B1-U2-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
2.5°	28.4	25.4	26.4	23.3	19.6	16.1	13.4	11.9	11.9	11.4	10.3
5°	98.8	100.9	113.2	95.1	86.4	112.7	31.5	18.1	17.1	11.9	9.8
7.5°	132.0	138.1	98.8	82.2	77.0	124.2	92.6	50.7	41.9	15.5	10.8
10°	249.9	232.8	157.2	171.8	159.9	101.9	67.7	69.4	63.6	25.4	17.6
12.5°	223.5	226.1	231.2	210.0	216.3	160.4	82.2	135.0	144.3	162.4	152.6
15°	260.8	249.9	210.0	228.6	217.8	253.5	213.1	198.7	218.3	224.5	186.8
17.5°	353.8	346.1	401.9	274.2	199.2	285.0	253.5	232.3	220.9	246.2	297.5
20°	325.4	325.9	349.1	309.9	321.7	262.3	255.0	375.0	450.1	426.8	414.9
22.5°	489.9	474.9	394.7	307.8	339.8	300.5	358.5	418.5	397.3	387.5	418.5
25°	475.9	481.6	457.8	462.5	340.4	401.9	373.5	399.4	424.7	609.4	687.0
27.5°	585.0	553.0	525.6	479.0	468.7	378.2	361.1	542.7	557.1	610.9	644.0
30°	769.8	753.7	703.6	546.8	489.4	406.6	494.0	519.4	528.7	719.0	889.8
32.5°	977.2	918.2	773.4	715.5	532.3	501.8	465.0	656.9	646.1	797.2	899.1
35°	1129.8	1094.7	958.1	778.1	640.0	536.4	625.9	631.7	687.0	834.4	907.4
37.5°	1097.7	1107.5	1051.2	928.5	704.1	579.9	677.2	735.6	740.8	903.8	961.7
40°	1181.0	1187.2	1167.6	1030.5	812.2	667.4	761.0	815.8	772.3	989.1	1027.9
42.5°	1229.7	1239.5	1277.3	1178.4	916.2	763.0	892.3	853.6	815.3	1062.5	1169.1
45°	1335.7	1330.6	1347.0	1229.7	1070.3	960.1	936.8	925.0	939.5	1194.5	1305.2
47.5°	1483.6	1504.4	1422.6	1254.4	1186.2	1008.7	1061.5	1084.2	1139.2	1365.1	1443.3
50°	1702.5	1676.1	1578.3	1364.6	1300.5	1072.9	1300.5	1196.0	1167.6	1520.9	1649.7
52.5°	1791.4	1774.4	1635.7	1411.3	1371.9	1194.5	1340.9	1314.5	1304.7	1736.0	1879.4
55°	1826.6	1814.2	1756.8	1419.4	1436.5	1376.1	1537.9	1568.5	1551.9	1872.6	2111.2
57.5°	1733.5	1754.2	1758.4	1453.1	1480.5	1397.2	1847.9	1626.9	1745.4	2043.9	2291.1
60°	1607.3	1608.3	1663.1	1449.0	1521.4	1532.8	1915.1	1885.1	1995.8	2134.4	2340.8
62.5°	1295.4	1332.1	1422.6	1420.0	1578.3	1708.6	2245.6	2052.1	2095.6	2226.5	2496.5
65°	859.3	878.9	988.6	1177.4	1476.9	1848.9	2517.2	2311.9	2373.5	2401.9	2723.1
67.5°	512.6	536.9	552.5	752.2	1233.3	1876.8	3080.5	2772.8	2716.9	2667.2	2950.2
70°	428.3	444.4	399.4	450.1	753.7	1704.0	3352.1	3447.3	3265.8	3026.2	2998.3
72.5°	359.1	394.1	340.4	360.1	458.9	1011.3	3138.0	3928.9	3797.0	3086.2	2705.0
75°	266.4	315.6	283.5	323.4	423.7	519.4	2367.7	3320.1	3278.7	2675.0	2007.6
77.5°	208.0	216.8	177.5	244.2	407.1	429.3	1420.6	2188.7	2153.0	1705.6	931.2
80°	145.9	149.5	140.1	127.3	314.6	402.4	719.5	1213.6	1138.0	529.7	309.3
82.5°	92.1	98.3	109.7	86.4	152.6	375.5	396.8	534.4	475.9	180.0	153.6
85°	55.3	60.6	67.7	60.6	71.4	287.1	307.3	274.7	250.9	109.7	97.3
87.5°	32.1	33.7	40.9	41.9	53.3	167.0	245.2	204.4	179.5	72.9	63.1
90°	22.2	20.7	20.7	21.7	27.4	72.9	120.0	71.4	71.9	38.3	33.1
92.5°	17.1	17.1	18.6	18.6	26.4	64.1	55.3	38.3	36.2	32.1	26.4
95°	12.9	14.0	14.0	15.0	18.1	19.6	27.4	28.4	28.4	28.9	23.3
97.5°	10.8	11.9	11.9	12.4	14.5	15.0	19.1	24.9	24.9	24.3	19.1
100°	10.3	10.8	10.3	10.3	11.9	11.4	15.5	21.2	22.2	21.2	16.6
102.5°	9.8	10.3	9.3	8.3	10.3	8.3	12.9	19.1	19.6	15.5	12.9
105°	9.8	9.8	8.3	6.8	8.3	6.8	10.8	13.4	13.4	10.8	12.4
107.5°	9.8	9.3	7.3	5.7	6.2	5.7	8.8	8.8	8.8	8.3	11.9
110°	8.8	8.3	6.8	5.2	4.7	4.7	6.2	6.2	6.2	7.3	11.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	7.8	7.3	5.7	4.1	3.6	3.6	4.1	4.7	4.7	6.8	11.4
115°	6.8	6.8	5.2	4.1	3.1	3.1	3.6	4.1	4.1	6.2	10.8
117.5°	6.8	6.8	4.7	3.6	2.6	2.6	3.1	3.6	3.6	6.2	11.4
120°	6.8	6.8	4.7	3.1	2.6	2.0	2.6	3.1	3.1	6.8	11.9
122.5°	6.2	6.2	4.7	3.1	2.0	2.0	2.0	3.1	3.1	6.2	10.8
125°	6.2	6.2	4.1	3.1	2.0	2.0	2.0	2.6	3.1	6.8	10.8
127.5°	5.7	5.7	4.7	3.1	2.0	1.5	2.0	2.6	2.6	6.2	10.3
130°	5.7	5.7	4.1	2.6	1.5	1.5	1.5	2.0	2.6	5.7	9.3
132.5°	5.2	5.2	3.6	2.6	1.5	1.0	1.5	2.0	2.0	5.2	8.3
135°	5.2	5.2	4.1	2.6	1.5	1.0	1.5	2.0	2.0	4.7	7.3
137.5°	4.7	4.7	3.6	2.6	1.5	1.0	1.0	1.5	2.0	4.7	6.8
140°	4.7	4.7	4.1	3.1	1.5	1.0	1.0	1.5	1.5	3.6	5.2
142.5°	5.2	5.2	4.1	2.6	1.5	1.0	1.0	1.0	1.5	2.6	4.1
145°	4.7	4.7	3.6	2.6	1.5	0.5	0.5	1.0	1.5	2.6	3.6
147.5°	4.7	4.7	4.1	2.6	1.0	0.5	0.5	1.0	1.0	2.0	3.1
150°	4.1	4.1	3.1	1.5	0.5	0.0	0.5	1.0	1.0	1.5	2.6
152.5°	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.5	0.5	1.0	1.5
155°	1.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0
157.5°	0.5	0.5	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°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
2.5°	10.3	10.3	10.3	10.3	9.8	9.8	9.3	9.3	9.3	9.3	9.3
5°	9.8	9.8	9.8	9.3	8.8	8.3	8.8	8.3	8.3	8.3	8.3
7.5°	10.3	10.3	9.3	8.8	8.8	8.8	11.4	68.8	152.1	130.3	135.5
10°	19.1	18.1	15.5	12.9	11.9	68.3	130.3	119.5	91.0	76.0	78.2
12.5°	189.9	170.7	110.2	76.5	88.0	90.5	81.7	89.5	145.9	133.5	134.0
15°	189.9	194.5	159.4	179.5	155.2	72.4	139.6	166.5	161.9	148.9	156.2
17.5°	320.7	318.6	198.7	182.6	150.1	151.6	131.3	114.4	106.1	104.5	106.1
20°	475.4	396.3	378.7	275.7	168.7	154.7	108.6	92.1	117.4	144.8	148.4
22.5°	418.5	418.5	339.8	246.2	208.5	132.5	118.5	117.4	140.8	139.1	145.9
25°	706.7	614.1	440.3	237.4	182.1	134.5	120.0	109.1	122.7	141.3	139.6
27.5°	651.8	604.8	435.1	285.5	142.8	146.4	110.7	107.6	138.1	148.4	149.5
30°	822.6	757.9	439.7	214.7	143.8	112.7	102.4	109.7	115.4	125.2	126.2
32.5°	852.0	771.3	422.2	193.4	151.6	108.6	103.9	103.4	117.4	135.0	136.6
35°	833.9	740.3	397.8	163.0	152.1	109.7	106.6	117.9	107.6	125.7	128.3
37.5°	958.1	755.8	359.1	152.1	139.6	112.7	139.6	112.7	112.2	117.9	119.0
40°	956.5	790.4	315.1	185.7	139.6	185.7	145.9	117.4	100.9	110.7	111.2
42.5°	1033.6	810.1	276.2	191.4	150.6	215.2	136.1	114.4	120.0	126.2	132.5
45°	1122.6	872.2	258.7	172.3	169.7	166.5	141.8	148.9	108.6	174.3	181.6
47.5°	1244.1	951.9	234.9	168.7	230.2	167.6	270.1	138.6	119.5	206.4	210.5
50°	1425.7	1092.0	236.9	185.2	211.0	179.5	181.6	150.6	161.4	214.7	215.7
52.5°	1619.1	1209.4	223.0	204.4	207.5	220.3	193.4	225.0	158.9	206.4	206.4
55°	1790.4	1382.7	229.7	215.2	216.8	191.9	272.6	166.0	158.3	207.5	212.6
57.5°	2013.9	1568.0	275.7	225.0	222.5	204.9	210.5	205.9	186.3	211.0	214.2
60°	2132.3	1703.0	345.6	253.0	232.8	236.4	249.3	198.1	169.2	246.7	256.6
62.5°	2320.2	1897.5	437.6	286.6	295.4	242.1	212.6	215.7	180.0	196.6	198.7
65°	2536.9	2099.7	483.1	319.7	318.1	269.0	241.1	167.6	116.9	108.1	107.6
67.5°	2699.9	2177.9	442.3	357.4	396.8	258.1	165.5	119.0	90.0	84.8	86.4
70°	2594.8	1999.4	378.7	428.8	401.4	200.2	142.8	94.6	77.0	72.4	75.0
72.5°	2251.3	1615.5	347.6	452.7	352.3	135.0	106.6	83.3	69.4	64.7	65.7
75°	1591.2	1038.2	356.9	383.3	250.4	97.8	92.1	69.4	61.6	55.3	55.3
77.5°	698.9	444.9	279.9	276.2	160.4	77.6	78.2	57.4	53.3	47.6	47.6
80°	281.4	235.4	164.5	159.9	107.1	61.1	62.1	47.6	48.1	40.3	37.7
82.5°	148.9	134.5	91.6	85.8	76.5	47.1	44.0	40.9	40.3	33.1	28.9
85°	97.8	88.5	60.0	55.9	56.9	34.7	36.7	38.8	35.7	27.4	19.1
87.5°	60.6	60.0	42.5	40.3	42.5	24.9	30.0	31.5	30.0	20.7	12.4
90°	28.4	31.0	28.4	27.9	27.9	11.9	23.3	24.9	24.3	16.6	9.8
92.5°	22.2	25.4	26.4	26.9	26.9	12.4	24.3	25.9	24.9	17.1	10.8
95°	19.1	22.2	25.9	25.9	25.4	9.8	22.8	25.4	23.8	16.1	10.3
97.5°	16.1	18.6	22.2	22.2	24.3	8.3	21.2	24.3	23.8	17.1	10.8
100°	15.0	17.6	19.6	20.2	22.2	7.8	19.1	21.7	21.2	14.0	11.4
102.5°	14.0	15.0	15.5	16.1	16.6	7.3	15.0	16.6	16.1	10.3	10.3
105°	12.9	12.9	11.4	10.8	10.8	6.8	9.3	11.4	9.3	8.3	9.3
107.5°	12.9	12.4	9.3	8.3	8.3	6.2	7.3	7.3	6.2	8.3	8.8
110°	12.9	11.9	8.3	7.3	6.8	5.7	5.7	5.2	5.2	8.3	8.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	12.4	11.4	7.3	6.2	6.2	5.2	4.7	4.1	4.7	8.3	9.3
115°	11.9	10.8	6.8	6.2	5.7	4.7	4.1	3.1	4.7	8.8	9.8
117.5°	11.9	10.8	6.8	5.7	5.2	4.1	3.6	3.1	4.7	8.8	9.8
120°	12.4	10.8	6.8	5.2	4.7	3.6	3.1	3.1	4.7	8.8	9.8
122.5°	11.9	10.3	6.2	4.7	4.1	3.6	3.1	3.1	4.7	8.8	9.3
125°	11.4	10.3	6.2	4.1	3.6	3.1	2.6	2.6	5.2	8.8	9.3
127.5°	10.8	9.8	5.7	3.6	3.1	3.1	2.6	2.6	5.2	8.3	8.8
130°	9.8	8.8	5.7	3.6	2.6	2.6	2.0	2.0	5.2	8.3	8.8
132.5°	8.8	8.3	5.2	3.1	2.0	2.0	2.0	2.0	4.7	7.3	7.8
135°	7.8	6.8	4.7	2.6	2.0	1.5	1.5	1.5	4.1	6.2	6.8
137.5°	6.8	6.2	4.1	2.6	1.5	1.5	1.0	1.0	3.6	5.7	6.2
140°	5.7	5.2	3.6	2.0	1.5	1.5	1.0	1.0	2.6	4.1	4.7
142.5°	4.1	4.1	3.1	2.0	1.5	1.0	1.0	1.0	2.6	3.6	4.1
145°	3.6	3.6	3.1	2.0	1.5	1.0	0.5	0.5	1.5	2.6	2.6
147.5°	3.1	3.1	2.6	2.0	1.0	0.5	0.5	0.5	1.0	1.5	1.5
150°	2.6	2.6	2.0	1.5	1.0	0.5	0.0	0.0	0.5	1.0	1.0
152.5°	1.5	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.5	0.5	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)