

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: P241078

Luminaire Tested: **UTLD-AF24-80-D-U-SL3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241078
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-AF24-80-D-U-SL3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7455.3 lumens
Efficiency: N/A
Efficacy: 89.8 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: B2 - U2 - G2

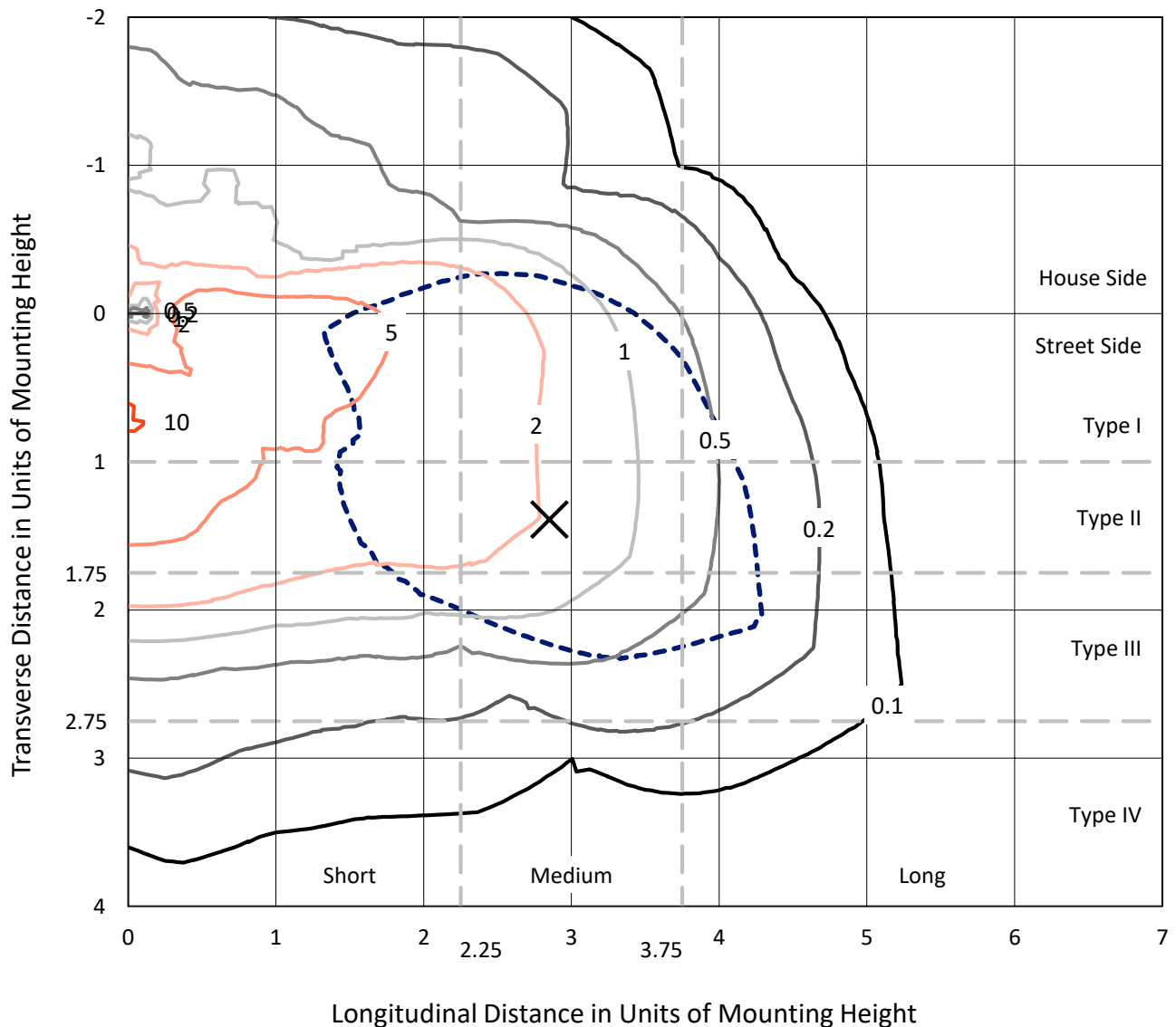
Input Watts (W): 83
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

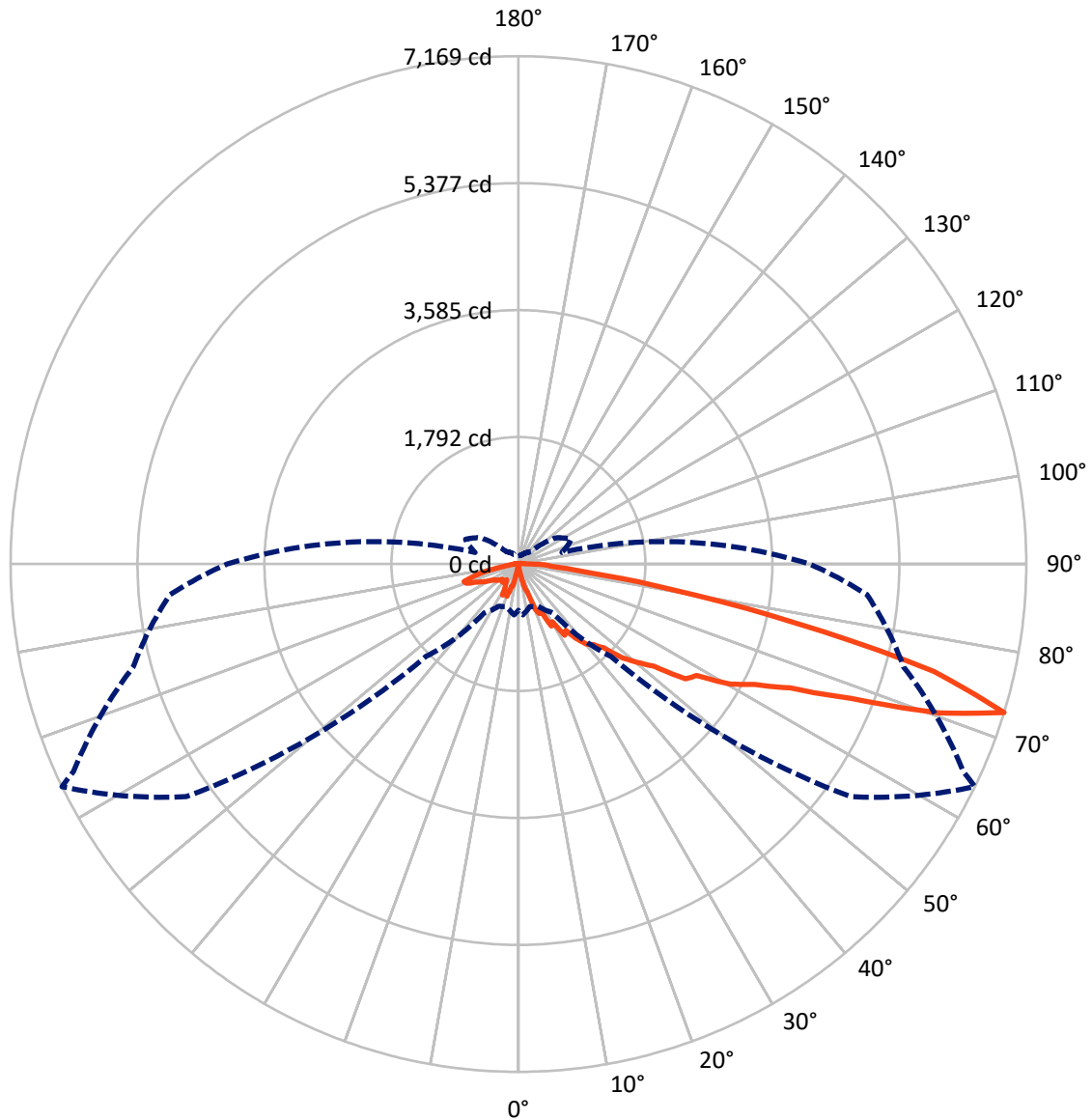


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Medium - Non-Cutoff

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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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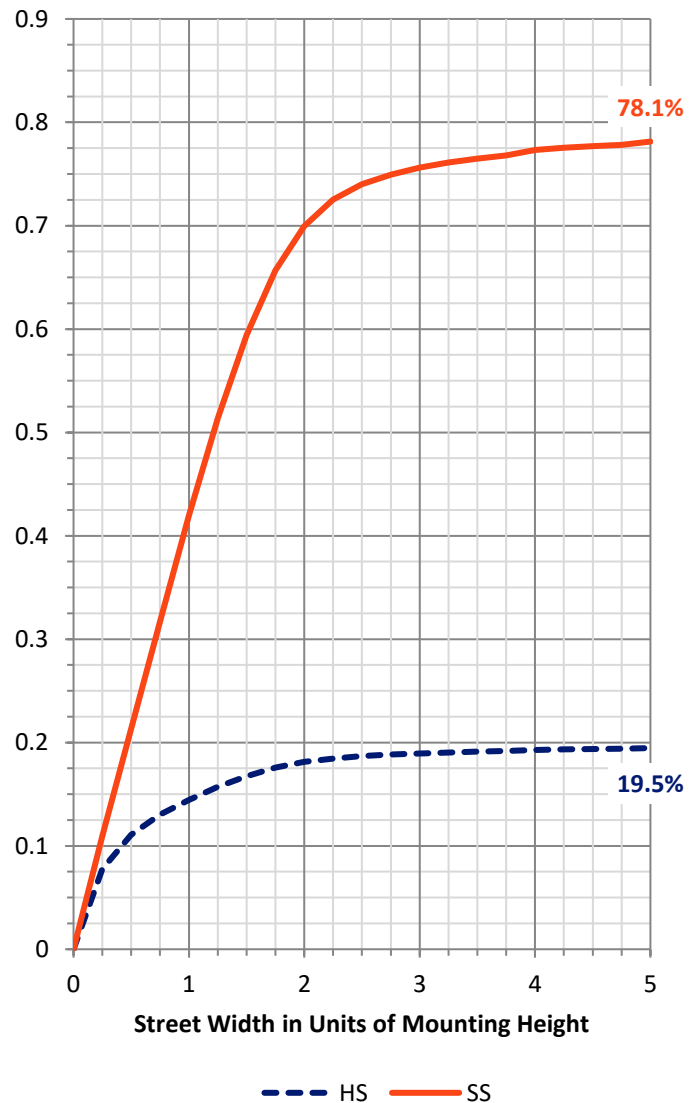
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1475.8	46.0	1521.8
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	5886.0	47.5	5933.5
	% Fixture	79.0	0.6	79.6
Total	Lumens	7361.8	93.5	7455.3
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.1
10°-20°	99.5	1.3
20°-30°	292.9	3.9
30°-40°	580.9	7.8
40°-50°	1002.5	13.4
50°-60°	1620.6	21.7
60°-70°	2053.8	27.5
70°-80°	1471.5	19.7
80°-90°	230.8	3.1
90°-100°	46.5	0.6
100°-110°	20.7	0.3
110°-120°	10.6	0.1
120°-130°	7.9	0.1
130°-140°	4.9	0.1
140°-150°	2.4	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7361.8	98.7
0°-180°	7455.3	100.0

Coefficient of Utilization



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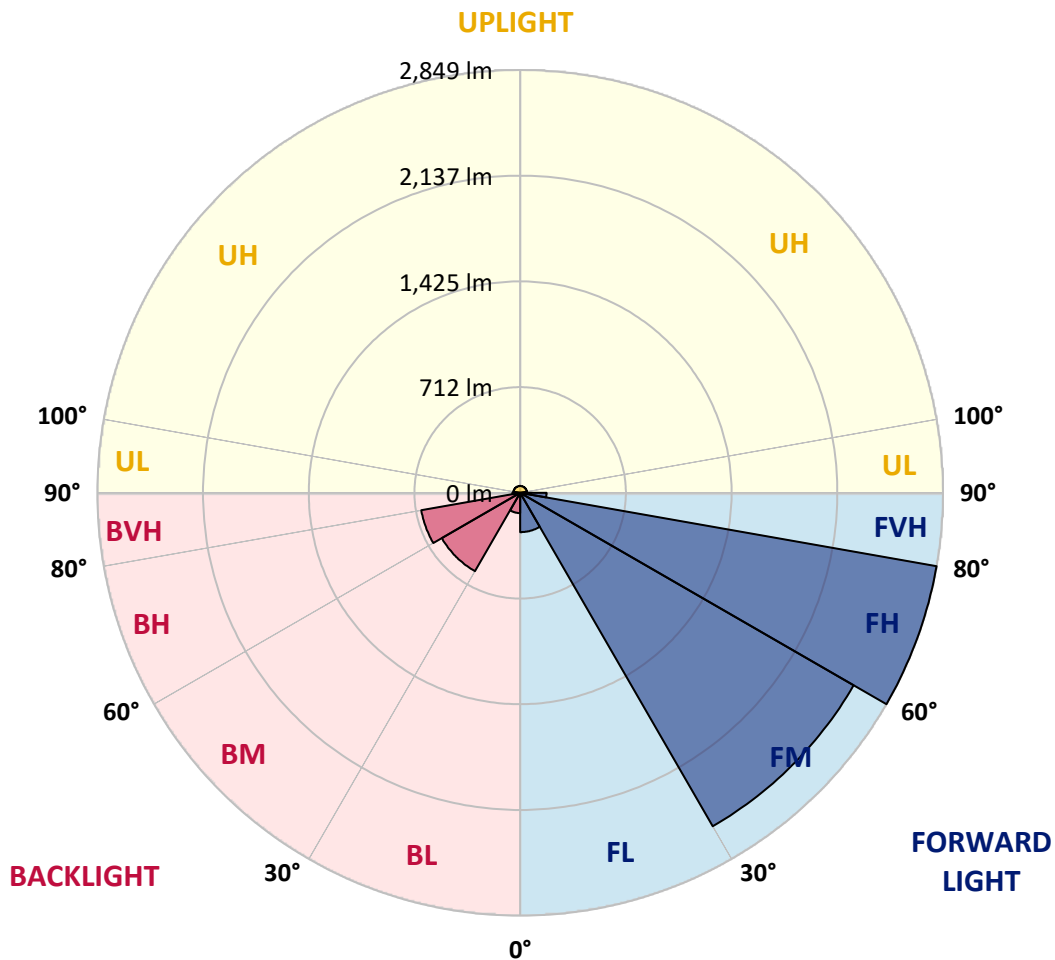
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.1	3.6			
FM	(30°-60°)	2594.3	34.8			
FH	(60°-80°)	2849.0	38.2			G2/5000
FVH	(80°-90°)	177.6	2.4			G2/225
BL	(0°-30°)	136.5	1.8	B1/500		
BM	(30°-60°)	609.7	8.2	B1/1000		
BH	(60°-80°)	676.4	9.1	B2/1000		G2/1000
BVH	(80°-90°)	53.2	0.7			G1/100
UL	(90°-100°)	46.5	0.6		U2/50	
UH	(100°-180°)	46.0	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°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	52.0	46.2	48.2	42.5	35.9	29.3	24.6	21.7	21.7	20.8	18.9
5°	180.2	184.0	206.7	173.7	157.6	205.8	57.6	33.0	31.2	21.7	17.9
7.5°	240.7	252.1	180.2	150.1	140.7	226.6	169.0	92.5	76.4	28.3	19.8
10°	455.9	424.7	286.9	313.4	291.6	186.0	123.7	126.5	116.1	46.2	32.1
12.5°	407.7	412.6	422.0	383.2	394.6	292.7	150.1	246.3	263.4	296.5	278.4
15°	475.8	455.9	383.2	417.3	397.4	462.6	388.9	362.4	398.3	409.7	340.7
17.5°	645.7	631.5	733.5	500.3	363.5	520.1	462.6	423.8	403.0	449.3	542.8
20°	593.7	594.6	637.2	565.4	587.2	478.5	465.3	684.4	821.2	778.8	757.1
22.5°	894.0	866.5	720.3	561.6	620.2	548.4	654.2	763.6	725.0	707.1	763.6
25°	868.4	878.8	835.4	843.9	621.1	733.5	681.5	728.8	775.0	1111.9	1253.5
27.5°	1067.7	1009.0	959.0	874.1	855.2	690.0	658.9	990.2	1016.6	1114.8	1175.2
30°	1404.6	1375.4	1283.8	997.8	892.9	741.9	901.4	947.8	964.7	1312.1	1623.6
32.5°	1783.1	1675.5	1411.2	1305.5	971.3	915.6	848.6	1198.8	1179.0	1454.6	1640.6
35°	2061.6	1997.4	1748.2	1419.7	1167.7	978.9	1142.2	1152.6	1253.5	1522.6	1655.6
37.5°	2003.0	2021.0	1918.1	1694.4	1284.7	1058.1	1235.6	1342.3	1351.7	1649.1	1754.8
40°	2155.1	2166.4	2130.5	1880.4	1482.1	1217.7	1388.6	1488.6	1409.3	1804.8	1875.6
42.5°	2243.7	2261.7	2330.6	2150.3	1671.7	1392.3	1628.3	1557.5	1487.7	1938.9	2133.4
45°	2437.3	2427.9	2458.0	2243.7	1953.0	1752.0	1709.5	1687.8	1714.3	2179.6	2381.6
47.5°	2707.2	2745.0	2595.8	2289.1	2164.5	1840.7	1937.0	1978.5	2078.5	2491.1	2633.6
50°	3106.5	3058.4	2880.0	2490.2	2373.0	1957.7	2373.0	2182.4	2130.5	2775.2	3010.2
52.5°	3268.9	3237.7	2984.8	2575.1	2503.4	2179.6	2446.7	2398.6	2380.6	3167.9	3429.3
55°	3333.1	3310.5	3205.6	2590.2	2621.3	2510.9	2806.4	2862.0	2831.8	3417.1	3852.2
57.5°	3163.2	3200.9	3208.5	2651.6	2701.6	2549.6	3371.7	2968.7	3184.9	3729.6	4180.8
60°	2932.8	2934.7	3034.8	2644.0	2776.2	2797.0	3494.5	3439.8	3641.8	3894.8	4271.3
62.5°	2363.6	2430.6	2595.8	2591.1	2880.0	3117.9	4097.6	3744.6	3823.9	4062.8	4555.5
65°	1567.9	1603.8	1803.9	2148.4	2695.0	3373.7	4593.3	4218.5	4330.9	4382.7	4969.0
67.5°	935.5	979.8	1008.1	1372.5	2250.4	3424.6	5621.2	5059.6	4957.6	4867.0	5383.4
70°	781.6	810.9	728.8	821.2	1375.4	3109.4	6116.8	6290.4	5959.2	5522.1	5471.2
72.5°	655.1	719.3	621.1	656.9	837.3	1845.4	5726.0	7169.2	6928.5	5631.7	4935.9
75°	486.1	575.8	517.3	589.9	773.0	947.8	4320.4	6058.2	5982.7	4881.1	3663.5
77.5°	379.5	395.5	323.8	445.5	742.9	783.5	2592.1	3993.8	3928.7	3112.2	1699.1
80°	266.2	272.8	255.8	232.2	573.9	734.4	1313.1	2214.5	2076.7	966.6	564.5
82.5°	168.1	179.3	200.1	157.6	278.4	685.3	724.0	975.1	868.4	328.5	280.4
85°	101.0	110.5	123.7	110.5	130.2	523.9	560.7	501.2	457.8	200.1	177.5
87.5°	58.5	61.4	74.6	76.4	97.2	304.9	447.4	372.9	327.5	133.1	115.2
90°	40.6	37.7	37.7	39.7	50.0	133.1	219.0	130.2	131.2	69.9	60.5
92.5°	31.2	31.2	34.0	34.0	48.2	117.0	101.0	69.9	66.1	58.5	48.2
95°	23.6	25.5	25.5	27.4	33.0	35.9	50.0	52.0	52.0	52.9	42.5
97.5°	19.8	21.7	21.7	22.6	26.4	27.4	34.9	45.3	45.3	44.4	34.9
100°	18.9	19.8	18.9	18.9	21.7	20.8	28.3	38.7	40.6	38.7	30.2
102.5°	17.9	18.9	17.0	15.1	18.9	15.1	23.6	34.9	35.9	28.3	23.6
105°	17.9	17.9	15.1	12.3	15.1	12.3	19.8	24.6	24.6	19.8	22.6
107.5°	17.9	17.0	13.2	10.4	11.4	10.4	16.1	16.1	16.1	15.1	21.7
110°	16.1	15.1	12.3	9.4	8.5	8.5	11.4	11.4	11.4	13.2	21.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	14.1	13.2	10.4	7.6	6.6	6.6	7.6	8.5	8.5	12.3	20.8
115°	12.3	12.3	9.4	7.6	5.6	5.6	6.6	7.6	7.6	11.4	19.8
117.5°	12.3	12.3	8.5	6.6	4.7	4.7	5.6	6.6	6.6	11.4	20.8
120°	12.3	12.3	8.5	5.6	4.7	3.8	4.7	5.6	5.6	12.3	21.7
122.5°	11.4	11.4	8.5	5.6	3.8	3.8	3.8	5.6	5.6	11.4	19.8
125°	11.4	11.4	7.6	5.6	3.8	3.8	3.8	4.7	5.6	12.3	19.8
127.5°	10.4	10.4	8.5	5.6	3.8	2.9	3.8	4.7	4.7	11.4	18.9
130°	10.4	10.4	7.6	4.7	2.9	2.9	2.9	3.8	4.7	10.4	17.0
132.5°	9.4	9.4	6.6	4.7	2.9	1.8	2.9	3.8	3.8	9.4	15.1
135°	9.4	9.4	7.6	4.7	2.9	1.8	2.9	3.8	3.8	8.5	13.2
137.5°	8.5	8.5	6.6	4.7	2.9	1.8	1.8	2.9	3.8	8.5	12.3
140°	8.5	8.5	7.6	5.6	2.9	1.8	1.8	2.9	2.9	6.6	9.4
142.5°	9.4	9.4	7.6	4.7	2.9	1.8	1.8	1.8	2.9	4.7	7.6
145°	8.5	8.5	6.6	4.7	2.9	0.9	0.9	1.8	2.9	4.7	6.6
147.5°	8.5	8.5	7.6	4.7	1.8	0.9	0.9	1.8	1.8	3.8	5.6
150°	7.6	7.6	5.6	2.9	0.9	0.0	0.9	1.8	1.8	2.9	4.7
152.5°	5.6	5.6	3.8	1.8	0.0	0.0	0.0	0.9	0.9	1.8	2.9
155°	2.9	2.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
157.5°	0.9	0.9	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°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	18.9	18.9	18.9	18.9	17.9	17.9	17.0	17.0	17.0	17.0	17.0
5°	17.9	17.9	17.9	17.0	16.1	15.1	16.1	15.1	15.1	15.1	15.1
7.5°	18.9	18.9	17.0	16.1	16.1	16.1	20.8	125.5	277.5	237.8	247.3
10°	34.9	33.0	28.3	23.6	21.7	124.6	237.8	218.1	166.1	138.7	142.5
12.5°	346.5	311.5	201.1	139.7	160.5	165.2	149.1	163.3	266.2	243.6	244.5
15°	346.5	355.0	290.7	327.5	283.2	132.2	254.8	303.9	295.4	271.9	285.1
17.5°	585.2	581.4	362.4	333.2	273.7	276.6	239.8	208.6	193.5	190.7	193.5
20°	867.5	723.0	691.0	503.1	307.7	282.2	198.2	168.1	214.3	264.3	270.9
22.5°	763.6	763.6	620.2	449.3	380.4	241.6	216.1	214.3	256.8	253.9	266.2
25°	1289.4	1120.4	803.3	433.3	332.3	245.4	219.0	199.2	223.7	257.7	254.8
27.5°	1189.4	1103.5	793.9	521.1	260.5	267.1	202.0	196.3	252.1	270.9	272.8
30°	1500.9	1382.9	802.4	391.7	262.4	205.8	186.9	200.1	210.5	228.4	230.4
32.5°	1554.7	1407.5	770.3	353.0	276.6	198.2	189.8	188.8	214.3	246.3	249.2
35°	1521.6	1350.8	725.9	297.4	277.5	200.1	194.5	215.2	196.3	229.3	234.1
37.5°	1748.2	1379.1	655.1	277.5	254.8	205.8	254.8	205.8	204.8	215.2	217.1
40°	1745.4	1442.4	574.9	338.9	254.8	338.9	266.2	214.3	184.0	202.0	203.0
42.5°	1886.0	1478.3	504.1	349.2	274.7	392.7	248.3	208.6	219.0	230.4	241.6
45°	2048.4	1591.5	472.0	314.4	309.6	303.9	258.6	271.9	198.2	318.1	331.3
47.5°	2270.2	1736.9	428.5	307.7	420.0	305.9	492.8	253.0	218.1	376.7	384.2
50°	2601.6	1992.7	432.3	338.0	385.1	327.5	331.3	274.7	294.5	391.7	393.6
52.5°	2954.6	2206.9	406.8	372.9	378.5	402.1	353.0	410.6	289.8	376.7	376.7
55°	3267.0	2523.2	419.1	392.7	395.5	350.2	497.5	303.0	288.9	378.5	388.0
57.5°	3674.7	2861.1	503.1	410.6	405.9	373.8	384.2	375.7	339.8	385.1	390.8
60°	3891.0	3107.5	630.5	461.6	424.7	431.4	455.0	361.5	308.6	450.3	468.2
62.5°	4233.6	3462.4	798.6	522.9	539.0	441.8	388.0	393.6	328.5	358.7	362.4
65°	4629.2	3831.5	881.7	583.4	580.5	490.8	439.9	305.9	213.3	197.3	196.3
67.5°	4926.4	3974.1	807.1	652.2	724.0	471.1	302.1	217.1	164.3	154.8	157.6
70°	4734.8	3648.4	691.0	782.6	732.5	365.3	260.5	172.8	140.7	132.2	136.9
72.5°	4108.1	2947.9	634.3	825.9	642.8	246.3	194.5	152.0	126.5	117.9	119.9
75°	2903.5	1894.5	651.3	699.5	456.8	178.4	168.1	126.5	112.3	101.0	101.0
77.5°	1275.3	811.8	510.7	504.1	292.7	141.6	142.5	104.8	97.2	86.8	86.8
80°	513.5	429.5	300.1	291.6	195.4	111.4	113.2	86.8	87.8	73.7	68.9
82.5°	271.9	245.4	167.0	156.7	139.7	85.9	80.2	74.6	73.7	60.5	52.9
85°	178.4	161.4	109.5	102.0	103.8	63.2	67.0	70.8	65.2	50.0	34.9
87.5°	110.5	109.5	77.4	73.7	77.4	45.3	54.7	57.6	54.7	37.7	22.6
90°	52.0	56.7	52.0	50.9	50.9	21.7	42.5	45.3	44.4	30.2	17.9
92.5°	40.6	46.2	48.2	49.1	49.1	22.6	44.4	47.2	45.3	31.2	19.8
95°	34.9	40.6	47.2	47.2	46.2	17.9	41.5	46.2	43.4	29.3	18.9
97.5°	29.3	34.0	40.6	40.6	44.4	15.1	38.7	44.4	43.4	31.2	19.8
100°	27.4	32.1	35.9	36.8	40.6	14.1	34.9	39.7	38.7	25.5	20.8
102.5°	25.5	27.4	28.3	29.3	30.2	13.2	27.4	30.2	29.3	18.9	18.9
105°	23.6	23.6	20.8	19.8	19.8	12.3	17.0	20.8	17.0	15.1	17.0
107.5°	23.6	22.6	17.0	15.1	15.1	11.4	13.2	13.2	11.4	15.1	16.1
110°	23.6	21.7	15.1	13.2	12.3	10.4	10.4	9.4	9.4	15.1	16.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	22.6	20.8	13.2	11.4	11.4	9.4	8.5	7.6	8.5	15.1	17.0
115°	21.7	19.8	12.3	11.4	10.4	8.5	7.6	5.6	8.5	16.1	17.9
117.5°	21.7	19.8	12.3	10.4	9.4	7.6	6.6	5.6	8.5	16.1	17.9
120°	22.6	19.8	12.3	9.4	8.5	6.6	5.6	5.6	8.5	16.1	17.9
122.5°	21.7	18.9	11.4	8.5	7.6	6.6	5.6	5.6	8.5	16.1	17.0
125°	20.8	18.9	11.4	7.6	6.6	5.6	4.7	4.7	9.4	16.1	17.0
127.5°	19.8	17.9	10.4	6.6	5.6	5.6	4.7	4.7	9.4	15.1	16.1
130°	17.9	16.1	10.4	6.6	4.7	4.7	3.8	3.8	9.4	15.1	16.1
132.5°	16.1	15.1	9.4	5.6	3.8	3.8	3.8	3.8	8.5	13.2	14.1
135°	14.1	12.3	8.5	4.7	3.8	2.9	2.9	2.9	7.6	11.4	12.3
137.5°	12.3	11.4	7.6	4.7	2.9	2.9	1.8	1.8	6.6	10.4	11.4
140°	10.4	9.4	6.6	3.8	2.9	2.9	1.8	1.8	4.7	7.6	8.5
142.5°	7.6	7.6	5.6	3.8	2.9	1.8	1.8	1.8	4.7	6.6	7.6
145°	6.6	6.6	5.6	3.8	2.9	1.8	0.9	0.9	2.9	4.7	4.7
147.5°	5.6	5.6	4.7	3.8	1.8	0.9	0.9	0.9	1.8	2.9	2.9
150°	4.7	4.7	3.8	2.9	1.8	0.9	0.0	0.0	0.9	1.8	1.8
152.5°	2.9	2.9	2.9	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.9	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)