

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: P241069

Luminaire Tested: **UTLD-AF24-80-D-U-SL3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241069
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 7048.3 lumens
Efficiency: N/A
Efficacy: 84.9 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 (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

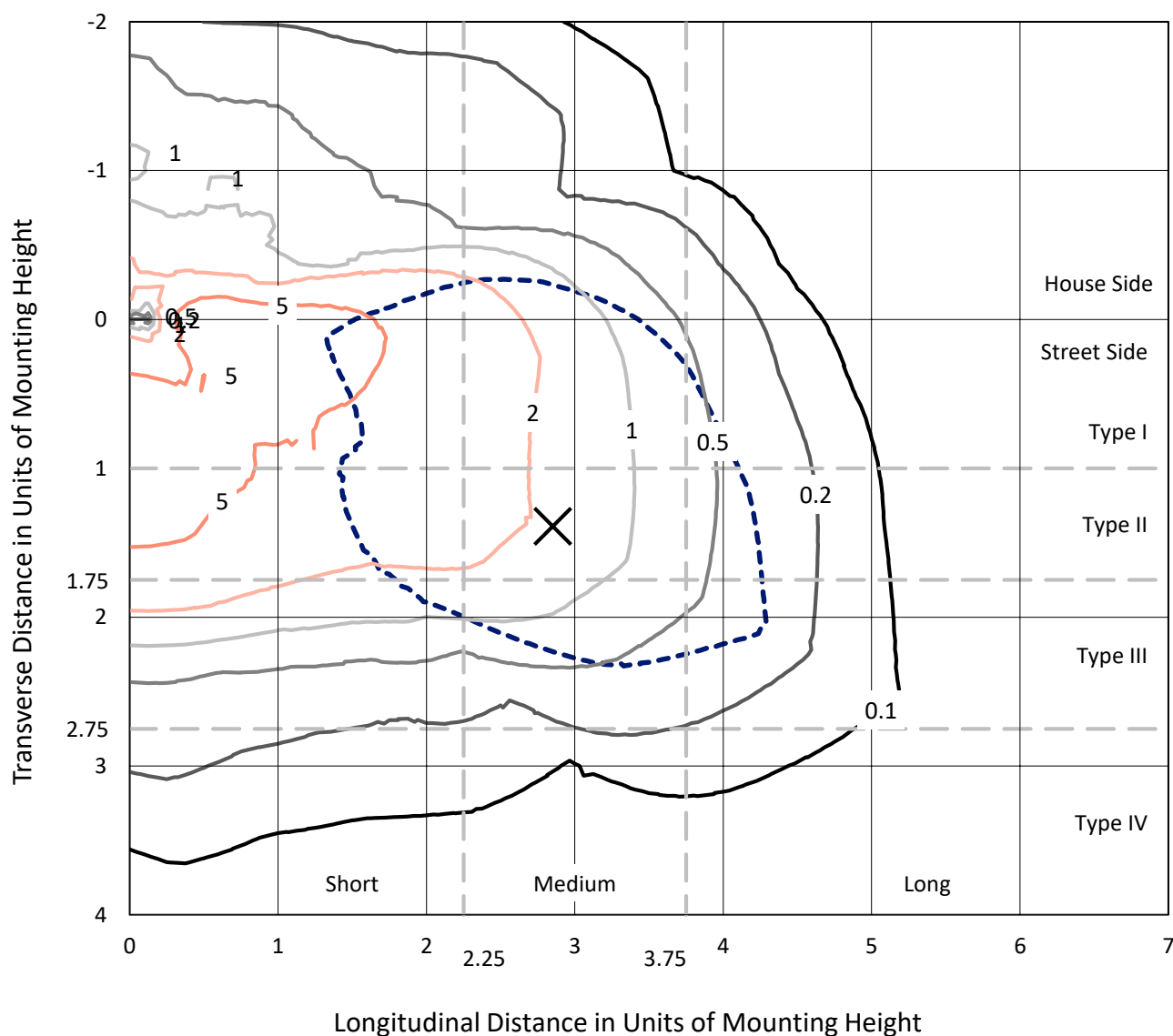


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

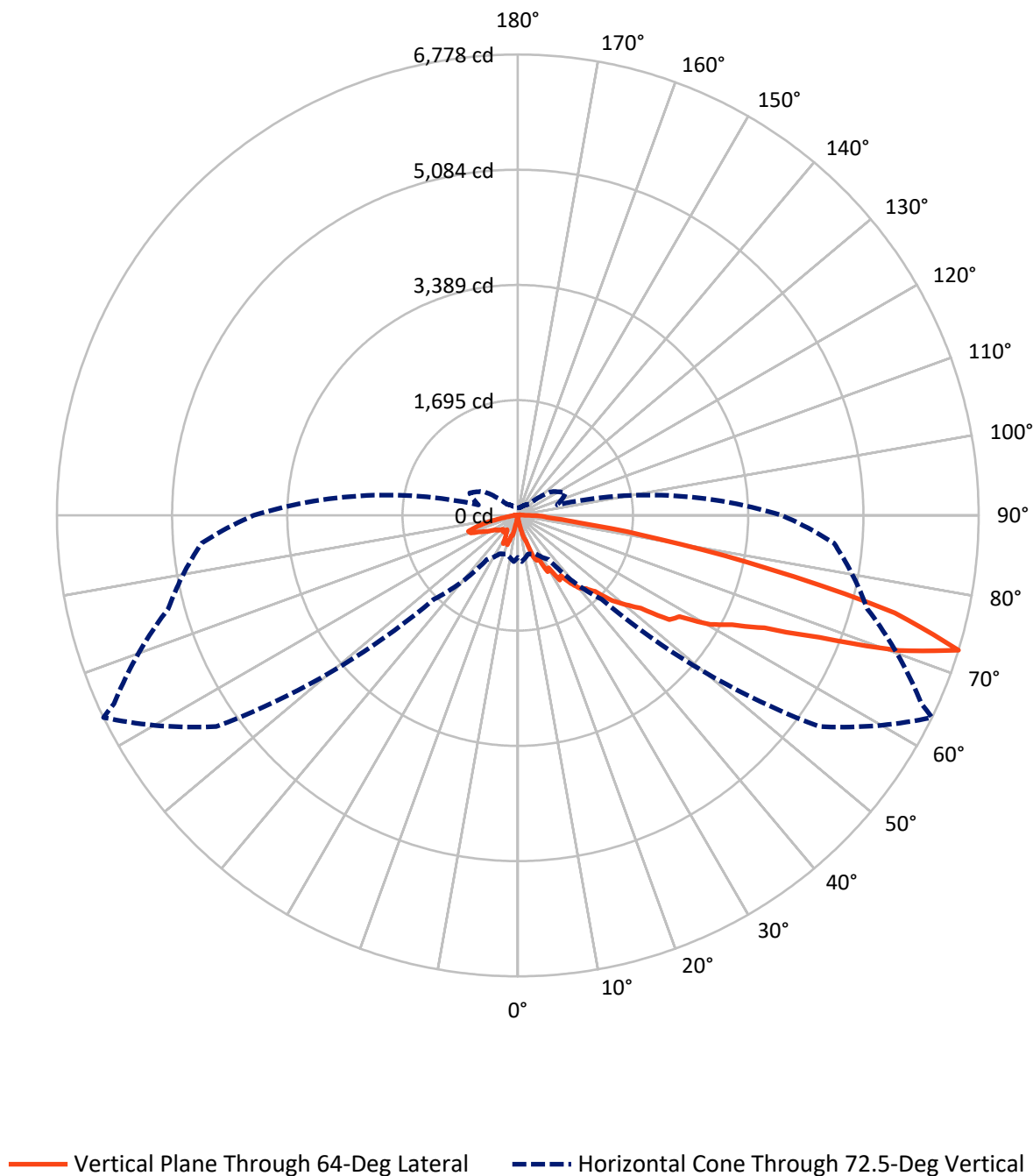


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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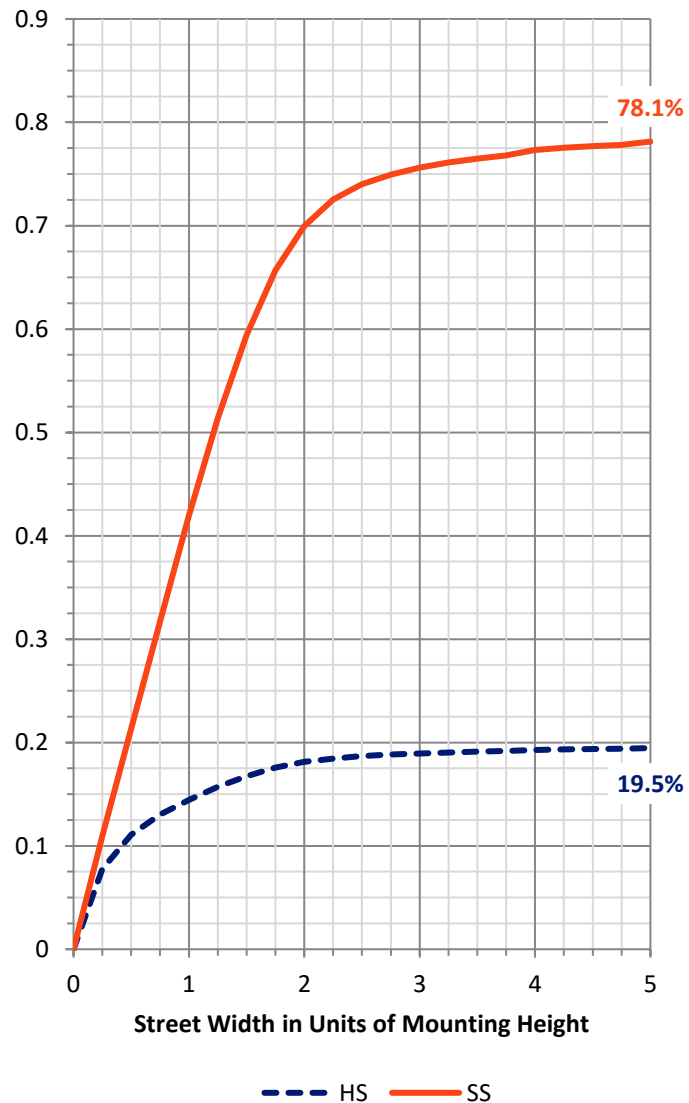
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1395.2	43.5	1438.7
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	5564.7	44.9	5609.6
	% Fixture	79.0	0.6	79.6
Total	Lumens	6959.9	88.4	7048.3
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.1
10°-20°	94.1	1.3
20°-30°	276.9	3.9
30°-40°	549.2	7.8
40°-50°	947.7	13.4
50°-60°	1532.1	21.7
60°-70°	1941.7	27.5
70°-80°	1391.2	19.7
80°-90°	218.2	3.1
90°-100°	44.0	0.6
100°-110°	19.6	0.3
110°-120°	10.0	0.1
120°-130°	7.4	0.1
130°-140°	4.6	0.1
140°-150°	2.3	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6959.9	98.7
0°-180°	7048.3	100.0

Coefficient of Utilization



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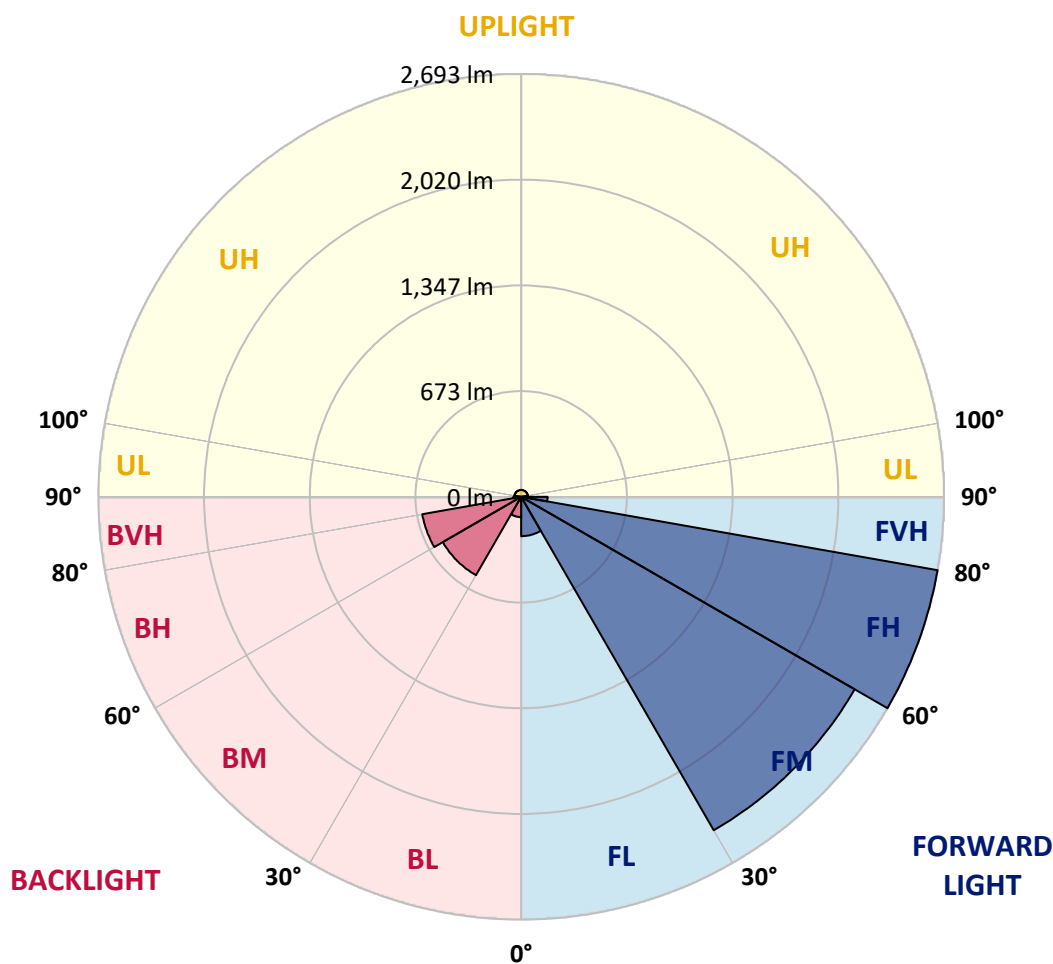
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.6	3.6			
FM	(30°-60°)	2452.7	34.8			
FH	(60°-80°)	2693.5	38.2			G2/5000
FVH	(80°-90°)	167.9	2.4			G2/225
BL	(0°-30°)	129.1	1.8	B1/500		
BM	(30°-60°)	576.4	8.2	B1/1000		
BH	(60°-80°)	639.4	9.1	B2/1000		G2/1000
BVH	(80°-90°)	50.3	0.7			G1/100
UL	(90°-100°)	44.0	0.6		U2/50	
UH	(100°-180°)	43.5	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°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
2.5°	49.0	43.7	45.6	40.2	33.9	27.7	23.2	20.5	20.5	19.6	17.8
5°	170.5	174.0	195.5	164.2	149.0	194.6	54.4	31.2	29.5	20.5	16.9
7.5°	227.6	238.3	170.5	141.9	133.0	214.1	159.7	87.4	72.3	26.8	18.8
10°	431.0	401.6	271.3	296.3	275.8	175.8	116.9	119.6	109.8	43.7	30.4
12.5°	385.5	389.9	398.9	362.3	373.0	276.7	141.9	232.9	249.0	280.2	263.4
15°	449.8	431.0	362.3	394.4	375.8	437.2	367.6	342.6	376.6	387.4	322.2
17.5°	610.4	597.0	693.4	473.0	343.6	491.7	437.2	400.7	381.1	424.8	513.2
20°	561.4	562.2	602.3	534.6	555.0	452.5	440.0	647.1	776.4	736.3	715.7
22.5°	845.1	819.2	680.9	531.0	586.2	518.6	618.4	721.9	685.4	668.4	721.9
25°	821.1	830.8	789.8	797.8	587.3	693.4	644.3	689.0	732.7	1051.3	1185.1
27.5°	1009.3	954.1	906.8	826.4	808.5	652.4	622.9	936.2	961.2	1054.0	1111.0
30°	1327.9	1300.3	1213.7	943.4	844.2	701.5	852.2	896.0	912.1	1240.4	1535.0
32.5°	1685.8	1584.0	1334.2	1234.2	918.4	865.7	802.3	1133.3	1114.7	1375.2	1551.1
35°	1949.0	1888.3	1652.8	1342.2	1103.9	925.4	1079.8	1089.7	1185.1	1439.5	1565.3
37.5°	1893.7	1910.7	1813.3	1601.8	1214.6	1000.4	1168.2	1269.0	1277.9	1559.0	1659.0
40°	2037.3	2048.1	2014.2	1777.7	1401.1	1151.3	1312.8	1407.4	1332.4	1706.3	1773.3
42.5°	2121.3	2138.2	2203.4	2033.0	1580.4	1316.3	1539.5	1472.5	1406.5	1833.1	2016.9
45°	2304.3	2295.3	2323.8	2121.3	1846.4	1656.4	1616.2	1595.6	1620.7	2060.6	2251.7
47.5°	2559.5	2595.1	2454.2	2164.1	2046.3	1740.2	1831.3	1870.5	1965.1	2355.1	2489.9
50°	2937.0	2891.4	2722.7	2354.2	2243.5	1850.9	2243.5	2063.3	2014.2	2623.8	2845.9
52.5°	3090.5	3061.0	2821.8	2434.6	2366.7	2060.6	2313.1	2267.6	2250.7	2995.1	3242.2
55°	3151.1	3129.7	3030.7	2448.8	2478.2	2373.8	2653.2	2705.8	2677.3	3230.6	3641.9
57.5°	2990.5	3026.2	3033.4	2506.9	2554.2	2410.5	3187.7	2806.7	3011.0	3526.1	3952.6
60°	2772.8	2774.5	2869.1	2499.7	2624.6	2644.3	3303.8	3252.0	3443.0	3682.1	4038.2
62.5°	2234.7	2297.9	2454.2	2449.7	2722.7	2947.7	3874.0	3540.2	3615.2	3841.0	4306.8
65°	1482.3	1516.2	1705.4	2031.1	2547.8	3189.5	4342.5	3988.3	4094.5	4143.5	4697.7
67.5°	884.4	926.3	953.1	1297.6	2127.5	3237.7	5314.4	4783.4	4687.0	4601.4	5089.6
70°	738.9	766.6	689.0	776.4	1300.3	2939.6	5782.9	5947.1	5633.9	5220.6	5172.5
72.5°	619.4	680.0	587.3	621.1	791.6	1744.7	5413.5	6778.0	6550.4	5324.2	4666.5
75°	459.6	544.3	489.1	557.8	731.0	896.0	4084.6	5727.6	5656.2	4614.7	3463.5
77.5°	358.8	373.8	306.2	421.2	702.3	740.7	2450.5	3775.9	3714.3	2942.4	1606.3
80°	251.7	258.0	241.9	219.5	542.6	694.4	1241.4	2093.6	1963.3	913.9	533.6
82.5°	158.9	169.6	189.2	149.0	263.4	647.9	684.5	921.8	821.1	310.6	265.1
85°	95.5	104.5	116.9	104.5	123.1	495.3	530.1	473.8	432.7	189.2	167.8
87.5°	55.2	58.0	70.5	72.3	91.9	288.2	423.1	352.5	309.6	125.8	108.8
90°	38.4	35.7	35.7	37.4	47.3	125.8	207.0	123.1	124.0	66.0	57.2
92.5°	29.5	29.5	32.1	32.1	45.6	110.7	95.5	66.0	62.5	55.2	45.6
95°	22.3	24.1	24.1	25.9	31.2	33.9	47.3	49.0	49.0	49.9	40.2
97.5°	18.8	20.5	20.5	21.5	25.0	25.9	33.0	42.8	42.8	41.9	33.0
100°	17.8	18.8	17.8	17.8	20.5	19.6	26.8	36.6	38.4	36.6	28.5
102.5°	16.9	17.8	16.1	14.3	17.8	14.3	22.3	33.0	33.9	26.8	22.3
105°	16.9	16.9	14.3	11.6	14.3	11.6	18.8	23.2	23.2	18.8	21.5
107.5°	16.9	16.1	12.4	9.9	10.7	9.9	15.2	15.2	15.2	14.3	20.5
110°	15.2	14.3	11.6	9.0	8.0	8.0	10.7	10.7	10.7	12.4	20.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	13.4	12.4	9.9	7.1	6.2	6.2	7.1	8.0	8.0	11.6	19.6
115°	11.6	11.6	9.0	7.1	5.4	5.4	6.2	7.1	7.1	10.7	18.8
117.5°	11.6	11.6	8.0	6.2	4.5	4.5	5.4	6.2	6.2	10.7	19.6
120°	11.6	11.6	8.0	5.4	4.5	3.6	4.5	5.4	5.4	11.6	20.5
122.5°	10.7	10.7	8.0	5.4	3.6	3.6	3.6	5.4	5.4	10.7	18.8
125°	10.7	10.7	7.1	5.4	3.6	3.6	3.6	4.5	5.4	11.6	18.8
127.5°	9.9	9.9	8.0	5.4	3.6	2.7	3.6	4.5	4.5	10.7	17.8
130°	9.9	9.9	7.1	4.5	2.7	2.7	2.7	3.6	4.5	9.9	16.1
132.5°	9.0	9.0	6.2	4.5	2.7	1.7	2.7	3.6	3.6	9.0	14.3
135°	9.0	9.0	7.1	4.5	2.7	1.7	2.7	3.6	3.6	8.0	12.4
137.5°	8.0	8.0	6.2	4.5	2.7	1.7	1.7	2.7	3.6	8.0	11.6
140°	8.0	8.0	7.1	5.4	2.7	1.7	1.7	2.7	2.7	6.2	9.0
142.5°	9.0	9.0	7.1	4.5	2.7	1.7	1.7	1.7	2.7	4.5	7.1
145°	8.0	8.0	6.2	4.5	2.7	0.9	0.9	1.7	2.7	4.5	6.2
147.5°	8.0	8.0	7.1	4.5	1.7	0.9	0.9	1.7	1.7	3.6	5.4
150°	7.1	7.1	5.4	2.7	0.9	0.0	0.9	1.7	1.7	2.7	4.5
152.5°	5.4	5.4	3.6	1.7	0.0	0.0	0.0	0.9	0.9	1.7	2.7
155°	2.7	2.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7
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°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
2.5°	17.8	17.8	17.8	17.8	16.9	16.9	16.1	16.1	16.1	16.1	16.1
5°	16.9	16.9	16.9	16.1	15.2	14.3	15.2	14.3	14.3	14.3	14.3
7.5°	17.8	17.8	16.1	15.2	15.2	15.2	19.6	118.6	262.3	224.8	233.9
10°	33.0	31.2	26.8	22.3	20.5	117.8	224.8	206.2	157.2	131.2	134.7
12.5°	327.6	294.5	190.1	132.1	151.8	156.1	141.1	154.4	251.7	230.2	231.1
15°	327.6	335.5	274.9	309.6	267.6	125.0	240.9	287.4	279.3	257.0	269.6
17.5°	553.3	549.7	342.6	315.0	258.8	261.4	226.7	197.2	182.9	180.3	182.9
20°	820.1	683.6	653.3	475.8	290.9	266.8	187.4	158.9	202.5	249.8	256.1
22.5°	721.9	721.9	586.2	424.8	359.7	228.5	204.4	202.5	242.8	240.1	251.7
25°	1219.0	1059.3	759.5	409.6	314.1	232.0	207.0	188.3	211.5	243.6	240.9
27.5°	1124.5	1043.2	750.5	492.6	246.3	252.6	190.9	185.6	238.3	256.1	258.0
30°	1419.0	1307.4	758.6	370.4	248.1	194.6	176.7	189.2	199.0	216.0	217.8
32.5°	1469.9	1330.6	728.2	333.8	261.4	187.4	179.4	178.5	202.5	232.9	235.6
35°	1438.6	1277.0	686.2	281.2	262.3	189.2	183.9	203.4	185.6	216.9	221.4
37.5°	1652.8	1303.8	619.4	262.3	240.9	194.6	240.9	194.6	193.6	203.4	205.3
40°	1650.2	1363.7	543.4	320.3	240.9	320.3	251.7	202.5	174.0	190.9	191.9
42.5°	1783.1	1397.5	476.6	330.2	259.7	371.3	234.7	197.2	207.0	217.8	228.5
45°	1936.5	1504.6	446.3	297.1	292.7	287.4	244.5	257.0	187.4	300.8	313.2
47.5°	2146.3	1642.0	405.2	290.9	397.1	289.1	465.9	239.2	206.2	356.0	363.2
50°	2459.5	1883.9	408.7	319.5	364.2	309.6	313.2	259.7	278.4	370.4	372.1
52.5°	2793.3	2086.6	384.6	352.5	357.9	380.2	333.8	388.2	274.0	356.0	356.0
55°	3088.6	2385.4	396.3	371.3	373.8	331.0	470.4	286.5	273.0	357.9	366.8
57.5°	3474.2	2704.9	475.8	388.2	383.7	353.5	363.2	355.2	321.2	364.2	369.6
60°	3678.5	2937.9	596.1	436.4	401.6	407.9	430.2	341.8	291.8	425.7	442.6
62.5°	4002.5	3273.4	755.0	494.4	509.5	417.7	366.8	372.1	310.6	339.1	342.6
65°	4376.5	3622.4	833.5	551.5	548.8	464.1	415.8	289.1	201.7	186.5	185.6
67.5°	4657.5	3757.1	763.0	616.7	684.5	445.3	285.6	205.3	155.2	146.4	149.0
70°	4476.4	3449.2	653.3	739.8	692.4	345.4	246.3	163.4	133.0	125.0	129.4
72.5°	3883.8	2786.9	599.8	780.8	607.7	232.9	183.9	143.6	119.6	111.6	113.3
75°	2745.1	1791.1	615.7	661.2	431.9	168.7	158.9	119.6	106.2	95.5	95.5
77.5°	1205.6	767.4	482.8	476.6	276.7	133.9	134.7	99.1	91.9	82.1	82.1
80°	485.4	406.0	283.7	275.8	184.7	105.3	107.1	82.1	83.0	69.6	65.1
82.5°	257.0	232.0	158.0	148.1	132.1	81.2	75.8	70.5	69.6	57.2	49.9
85°	168.7	152.6	103.5	96.3	98.2	59.8	63.4	66.9	61.6	47.3	33.0
87.5°	104.5	103.5	73.2	69.6	73.2	42.8	51.8	54.4	51.8	35.7	21.5
90°	49.0	53.5	49.0	48.2	48.2	20.5	40.2	42.8	41.9	28.5	16.9
92.5°	38.4	43.7	45.6	46.4	46.4	21.5	41.9	44.6	42.8	29.5	18.8
95°	33.0	38.4	44.6	44.6	43.7	16.9	39.3	43.7	41.1	27.7	17.8
97.5°	27.7	32.1	38.4	38.4	41.9	14.3	36.6	41.9	41.1	29.5	18.8
100°	25.9	30.4	33.9	34.9	38.4	13.4	33.0	37.4	36.6	24.1	19.6
102.5°	24.1	25.9	26.8	27.7	28.5	12.4	25.9	28.5	27.7	17.8	17.8
105°	22.3	22.3	19.6	18.8	18.8	11.6	16.1	19.6	16.1	14.3	16.1
107.5°	22.3	21.5	16.1	14.3	14.3	10.7	12.4	12.4	10.7	14.3	15.2
110°	22.3	20.5	14.3	12.4	11.6	9.9	9.9	9.0	9.0	14.3	15.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	21.5	19.6	12.4	10.7	10.7	9.0	8.0	7.1	8.0	14.3	16.1
115°	20.5	18.8	11.6	10.7	9.9	8.0	7.1	5.4	8.0	15.2	16.9
117.5°	20.5	18.8	11.6	9.9	9.0	7.1	6.2	5.4	8.0	15.2	16.9
120°	21.5	18.8	11.6	9.0	8.0	6.2	5.4	5.4	8.0	15.2	16.9
122.5°	20.5	17.8	10.7	8.0	7.1	6.2	5.4	5.4	8.0	15.2	16.1
125°	19.6	17.8	10.7	7.1	6.2	5.4	4.5	4.5	9.0	15.2	16.1
127.5°	18.8	16.9	9.9	6.2	5.4	5.4	4.5	4.5	9.0	14.3	15.2
130°	16.9	15.2	9.9	6.2	4.5	4.5	3.6	3.6	9.0	14.3	15.2
132.5°	15.2	14.3	9.0	5.4	3.6	3.6	3.6	3.6	8.0	12.4	13.4
135°	13.4	11.6	8.0	4.5	3.6	2.7	2.7	2.7	7.1	10.7	11.6
137.5°	11.6	10.7	7.1	4.5	2.7	2.7	1.7	1.7	6.2	9.9	10.7
140°	9.9	9.0	6.2	3.6	2.7	2.7	1.7	1.7	4.5	7.1	8.0
142.5°	7.1	7.1	5.4	3.6	2.7	1.7	1.7	1.7	4.5	6.2	7.1
145°	6.2	6.2	5.4	3.6	2.7	1.7	0.9	0.9	2.7	4.5	4.5
147.5°	5.4	5.4	4.5	3.6	1.7	0.9	0.9	0.9	1.7	2.7	2.7
150°	4.5	4.5	3.6	2.7	1.7	0.9	0.0	0.0	0.9	1.7	1.7
152.5°	2.7	2.7	2.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	1.7	1.7	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)