

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: P240963

Luminaire Tested: **UTLD-AF24-100-D-U-T3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7894 lumens
Efficiency: N/A
Efficacy: 82.2 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): 96
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

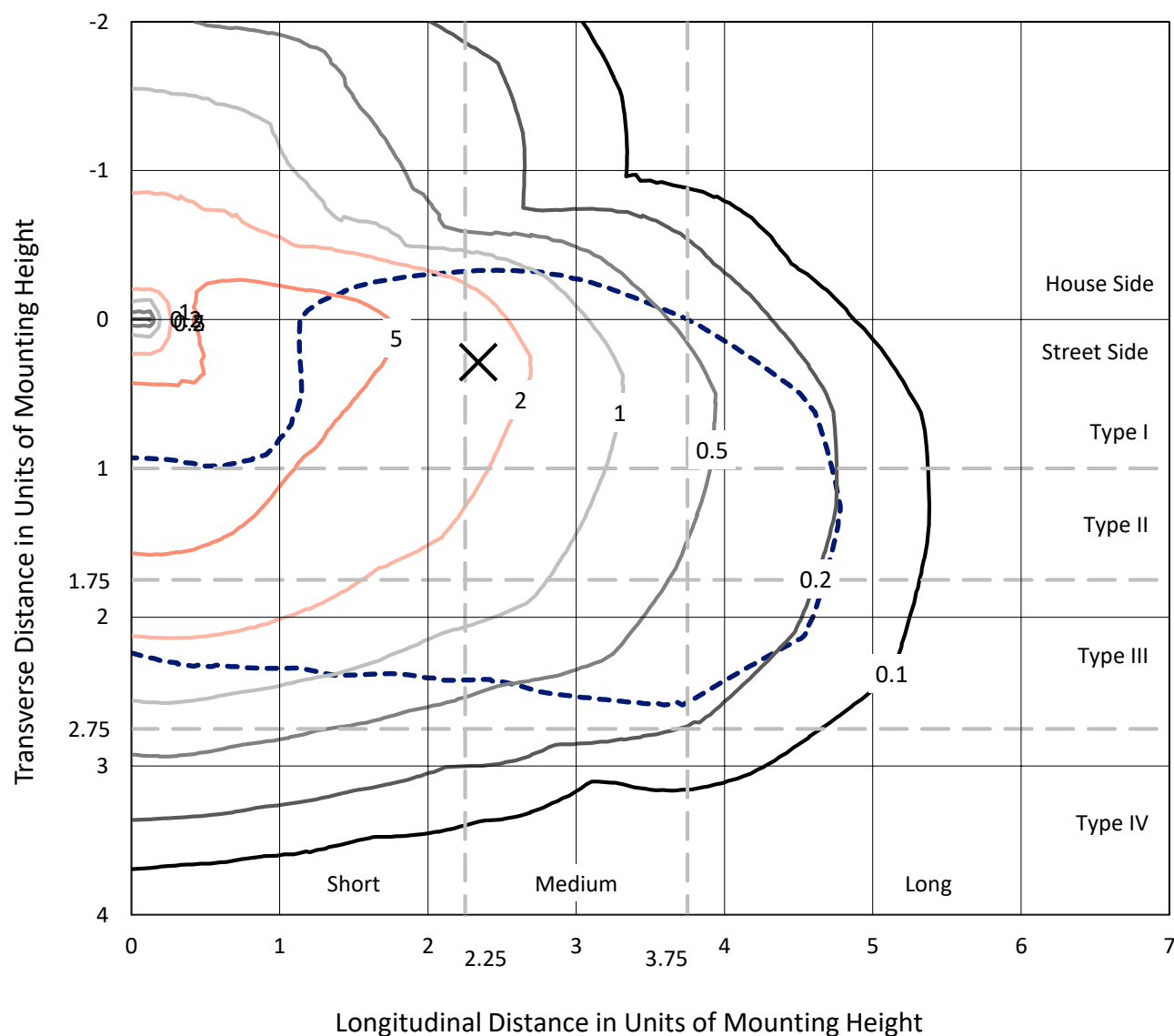


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

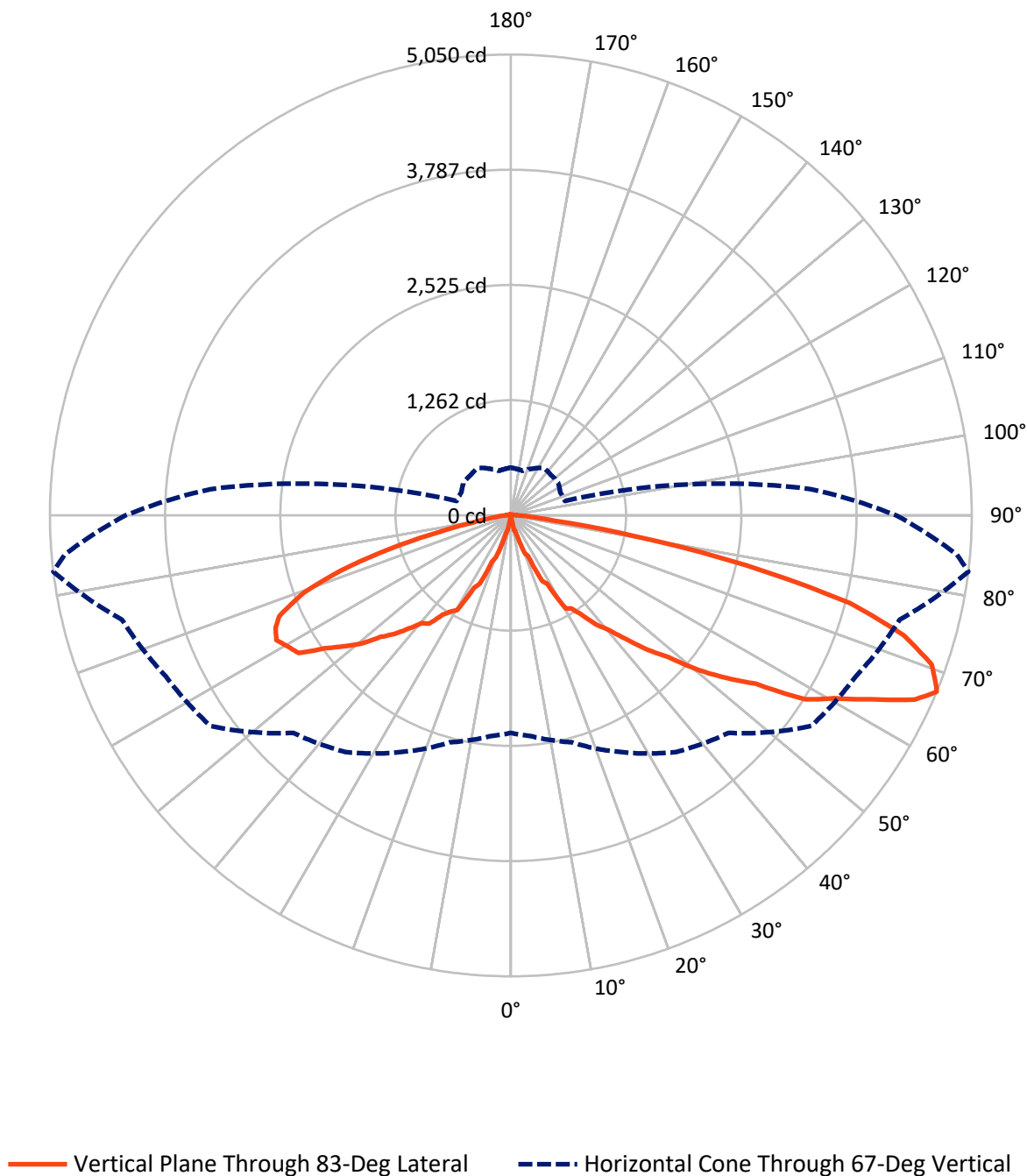


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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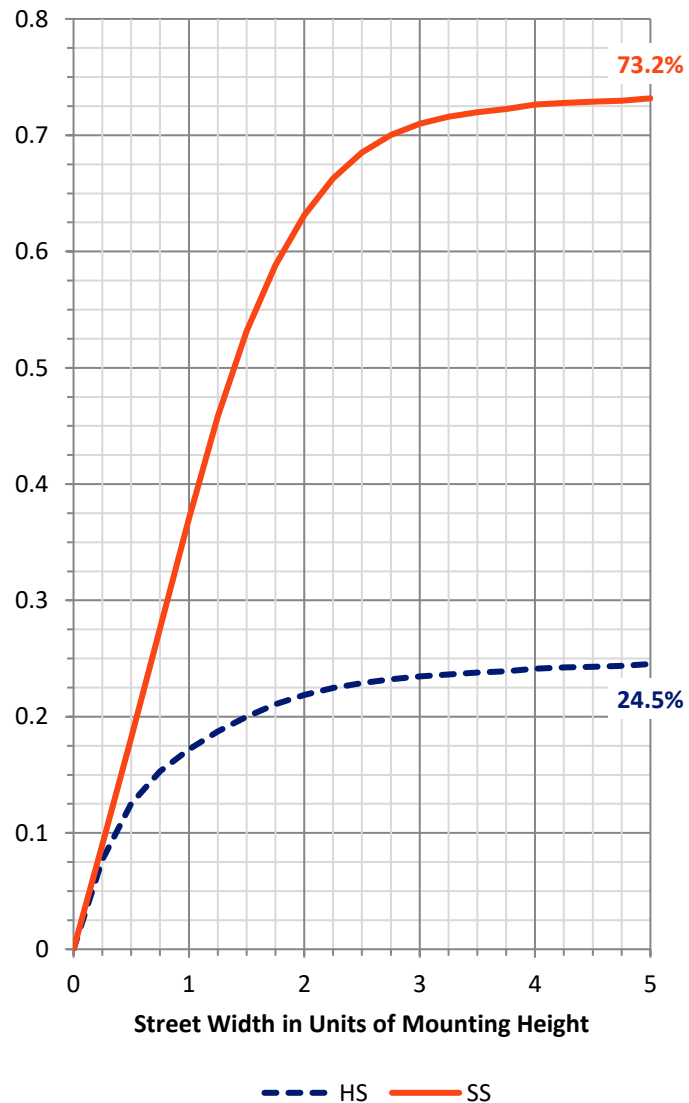
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1980.8	52.4	2033.2
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	5816.8	44.1	5860.8
	% Fixture	73.7	0.6	74.2
Total	Lumens	7797.5	96.5	7894.0
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	71.4	0.9
20°-30°	286.9	3.6
30°-40°	633.6	8.0
40°-50°	1129.2	14.3
50°-60°	1812.0	23.0
60°-70°	2204.8	27.9
70°-80°	1420.7	18.0
80°-90°	233.4	3.0
90°-100°	48.0	0.6
100°-110°	22.0	0.3
110°-120°	11.0	0.1
120°-130°	8.0	0.1
130°-140°	4.9	0.1
140°-150°	2.2	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7797.5	98.8
0°-180°	7894.0	100.0

Coefficient of Utilization



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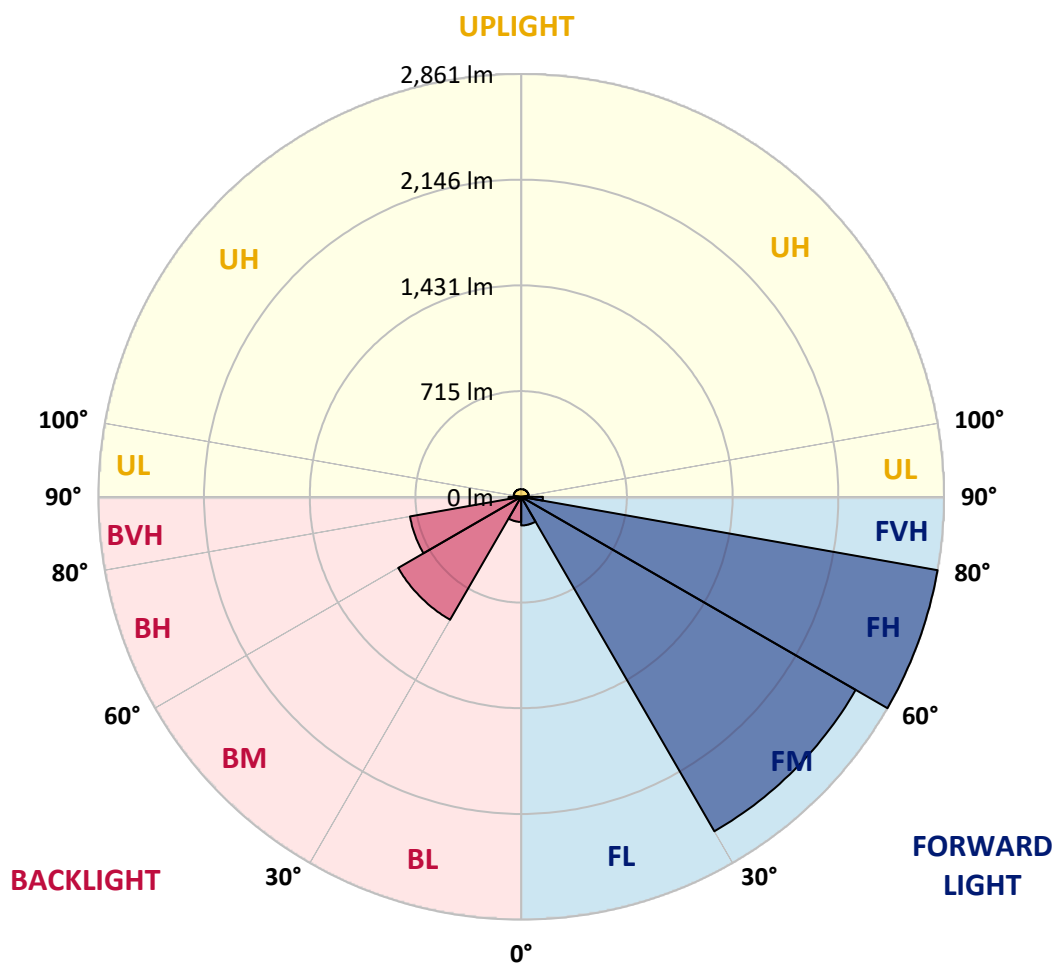
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.9	2.5			
FM	(30°-60°)	2613.8	33.1			
FH	(60°-80°)	2861.5	36.2			G2/5000
FVH	(80°-90°)	147.6	1.9			G2/225
BL	(0°-30°)	169.9	2.2	B1/500		
BM	(30°-60°)	961.0	12.2	B1/1000		
BH	(60°-80°)	764.1	9.7	B2/1000		G2/1000
BVH	(80°-90°)	85.8	1.1			G1/100
UL	(90°-100°)	48.0	0.6		U2/50	
UH	(100°-180°)	52.4	0.7		U3/500	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	39.7	39.7	39.7	35.8	30.9	25.1	22.3	19.3	18.3	18.3	18.3
5°	88.1	91.9	88.1	87.1	78.3	95.7	38.7	26.1	19.3	17.4	17.4
7.5°	124.8	126.7	102.4	94.7	76.4	104.5	84.1	47.4	24.1	19.3	18.3
10°	216.7	186.7	158.7	156.7	147.0	110.3	75.4	67.7	37.7	29.1	29.9
12.5°	209.9	215.7	211.9	205.1	188.6	157.7	100.6	129.6	142.1	167.2	157.7
15°	257.3	253.4	224.4	226.2	214.7	228.3	204.1	215.7	203.1	177.0	184.7
17.5°	398.5	384.9	403.2	309.5	226.2	277.6	282.4	252.4	269.9	278.5	309.5
20°	455.5	436.2	459.4	393.7	375.3	315.3	300.8	457.5	426.5	447.8	451.7
22.5°	629.7	619.0	552.2	450.7	479.7	402.3	429.4	474.8	484.6	479.7	495.2
25°	794.0	793.1	785.3	693.5	511.7	570.7	496.1	541.6	699.3	796.0	804.7
27.5°	940.0	932.3	877.3	851.1	716.6	644.1	591.8	750.5	800.8	847.2	857.9
30°	1188.6	1238.9	1120.0	968.1	867.5	741.8	796.0	792.1	964.2	1182.8	1194.4
32.5°	1395.6	1367.6	1243.8	1116.1	1013.6	916.9	838.6	1106.5	1153.8	1213.8	1240.8
35°	1701.2	1711.9	1581.3	1244.7	1160.6	1027.1	1096.8	1201.2	1234.1	1333.7	1341.4
37.5°	1777.6	1861.8	1785.4	1492.4	1234.1	1122.8	1179.9	1314.4	1422.7	1514.6	1456.5
40°	2114.1	2071.7	1908.2	1672.2	1386.0	1257.3	1443.0	1522.3	1538.7	1646.1	1659.6
42.5°	2444.0	2462.3	2260.2	1960.4	1583.2	1461.4	1623.8	1602.7	1759.3	1852.1	1902.4
45°	2765.2	2773.8	2614.2	2235.1	1899.5	1801.8	1722.5	1813.3	2074.5	2096.8	2109.4
47.5°	2982.7	2983.7	2916.0	2535.0	2166.4	1945.9	1920.8	2018.4	2277.6	2317.3	2328.9
50°	3322.1	3313.5	3157.8	2735.1	2519.4	2231.2	2328.9	2292.2	2516.6	2659.7	2690.6
52.5°	3455.7	3412.1	3328.9	3026.3	2836.7	2551.3	2506.9	2573.6	2830.0	2959.5	3062.0
55°	3368.6	3444.1	3428.5	3210.9	2930.5	2832.8	2716.7	2967.3	3054.3	3253.5	3435.3
57.5°	3187.7	3317.3	3378.3	3297.0	3144.3	2922.8	3130.8	3092.9	3426.6	3803.9	3925.6
60°	3063.9	3144.3	3268.1	3366.8	3255.5	3174.2	3376.3	3573.7	3701.2	4068.9	4231.3
62.5°	2841.5	2917.9	3116.2	3259.3	3196.5	3223.4	3649.0	3752.5	4128.8	4435.4	4656.8
65°	2577.4	2649.0	2881.1	3031.1	3181.0	3287.4	3822.2	4022.4	4289.3	4863.7	4894.9
67°	2383.1	2424.7	2572.6	2860.9	3162.6	3369.5	4019.5	4170.4	4410.2	5049.5	4903.4
67.5°	2318.3	2358.9	2479.7	2778.7	3151.9	3382.1	4075.6	4213.9	4427.6	5030.2	4901.6
70°	1784.4	1928.5	1931.3	2216.8	2814.4	3289.2	4175.3	4363.9	4533.0	4890.9	4732.2
72.5°	1068.7	1068.7	1118.0	1398.5	1995.3	2942.2	4175.3	4311.6	4457.7	4506.0	4239.0
75°	517.5	493.2	560.0	671.2	1004.8	1984.5	3763.2	3951.8	3970.2	3838.6	3438.3
77.5°	426.5	370.4	352.1	344.2	538.7	742.8	2514.6	3085.3	3086.2	2633.5	2304.8
80°	266.9	269.9	277.6	238.8	308.5	383.9	1002.9	1879.2	1708.0	1368.5	1152.8
82.5°	188.6	195.3	198.3	177.0	215.7	179.8	333.7	793.1	690.5	476.8	404.3
85°	132.5	128.6	144.1	119.9	129.6	106.4	183.8	341.4	388.8	236.0	223.4
87.5°	79.3	79.3	96.7	81.3	88.9	76.4	111.2	167.2	193.4	133.6	124.8
90°	47.4	43.4	45.5	46.4	50.3	43.4	60.0	80.3	84.1	67.7	62.0
92.5°	35.8	35.8	38.7	36.7	45.5	39.7	52.2	62.9	76.4	58.0	54.2
95°	23.2	26.1	29.1	29.9	34.9	29.9	43.4	51.3	57.1	44.5	42.5
97.5°	21.3	23.2	25.1	25.1	29.1	24.1	35.8	45.5	45.5	34.9	31.9
100°	20.3	21.3	22.3	22.3	24.1	19.3	28.1	39.7	39.7	29.1	27.1
102.5°	18.3	19.3	18.3	17.4	20.3	15.6	23.2	34.9	28.1	22.3	23.2
105°	18.3	18.3	16.4	14.5	16.4	12.6	20.3	25.1	19.3	18.3	19.3
107.5°	17.4	17.4	13.5	12.6	13.5	10.6	16.4	17.4	15.6	17.4	18.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	16.4	15.6	12.6	10.6	10.6	9.8	12.6	12.6	12.6	16.4	18.3
112.5°	14.5	13.5	10.6	8.7	8.7	7.7	8.7	9.8	11.6	15.6	17.4
115°	13.5	12.6	9.8	7.7	6.8	6.8	7.7	7.7	10.6	15.6	17.4
117.5°	13.5	12.6	8.7	7.7	5.8	5.8	6.8	7.7	10.6	15.6	17.4
120°	12.6	12.6	8.7	6.8	5.8	4.8	5.8	6.8	10.6	16.4	17.4
122.5°	12.6	11.6	8.7	6.8	4.8	4.8	4.8	5.8	9.8	15.6	16.4
125°	11.6	11.6	7.7	5.8	4.8	3.9	4.8	5.8	10.6	15.6	16.4
127.5°	11.6	10.6	7.7	5.8	3.9	3.9	4.8	4.8	9.8	14.5	15.6
130°	11.6	10.6	7.7	4.8	3.9	3.9	3.9	4.8	9.8	13.5	14.5
132.5°	9.8	9.8	6.8	4.8	3.9	2.9	3.9	3.9	7.7	11.6	12.6
135°	9.8	8.7	6.8	4.8	3.9	2.9	2.9	3.9	7.7	10.6	10.6
137.5°	8.7	7.7	6.8	4.8	2.9	2.9	1.9	2.9	6.8	8.7	9.8
140°	7.7	7.7	5.8	4.8	2.9	1.9	1.9	2.9	4.8	6.8	7.7
142.5°	7.7	7.7	6.8	4.8	2.9	1.9	1.9	1.9	3.9	5.8	5.8
145°	6.8	6.8	5.8	3.9	1.9	1.0	1.0	1.9	2.9	3.9	4.8
147.5°	6.8	6.8	5.8	3.9	1.9	1.0	1.0	1.9	2.9	3.9	3.9
150°	5.8	5.8	4.8	2.9	1.0	0.0	0.0	1.0	1.9	2.9	2.9
152.5°	3.9	3.9	2.9	1.9	0.0	0.0	0.0	1.0	1.9	1.9	1.9
155°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	18.3	18.3	18.3	18.3	18.3	18.3	17.4	17.4	17.4	17.4	17.4
5°	16.4	16.4	17.4	17.4	17.4	17.4	17.4	18.3	19.3	19.3	20.3
7.5°	18.3	18.3	17.4	17.4	18.3	20.3	32.9	69.6	131.5	121.9	120.8
10°	29.1	29.1	26.1	24.1	26.1	94.7	148.9	141.2	119.0	116.1	112.2
12.5°	183.8	171.2	138.3	87.1	126.7	119.9	139.3	163.5	212.7	223.4	215.7
15°	184.7	192.6	207.9	225.3	285.2	126.7	245.7	300.8	321.1	321.1	327.9
17.5°	321.1	346.3	265.9	239.9	284.3	348.2	274.7	305.6	302.7	303.7	295.0
20°	522.3	472.0	520.3	467.1	319.1	389.7	342.4	327.9	442.0	526.1	526.1
22.5°	517.5	548.4	541.6	536.8	561.9	346.3	437.1	474.8	492.3	470.1	503.9
25°	863.7	830.8	785.3	535.8	538.7	481.7	472.0	442.9	481.7	519.3	511.7
27.5°	903.3	911.1	825.0	797.9	564.9	541.6	444.9	515.4	561.9	564.9	560.0
30°	1233.1	1248.7	973.9	735.0	634.5	494.2	520.3	497.1	519.3	545.4	560.0
32.5°	1304.7	1281.5	1075.4	827.8	621.9	523.3	478.8	497.1	581.3	581.3	576.5
35°	1389.8	1372.4	1108.3	786.3	678.0	489.4	442.9	495.2	519.3	561.9	564.9
37.5°	1561.0	1551.3	1216.7	784.4	603.5	462.2	487.4	500.0	507.7	517.5	508.7
40°	1674.2	1599.7	1249.6	819.2	584.2	535.8	507.7	471.0	477.8	453.7	442.9
42.5°	1886.9	1762.2	1281.5	796.0	569.7	591.0	472.0	465.2	448.7	423.6	423.6
45°	2103.6	1943.9	1324.0	748.5	549.3	573.5	486.5	475.9	461.3	457.5	448.7
47.5°	2324.1	2109.4	1317.2	778.6	616.1	536.8	609.3	511.7	440.1	477.8	474.8
50°	2686.8	2378.2	1323.0	719.6	614.1	527.0	610.3	484.6	471.0	500.0	502.9
52.5°	2982.7	2561.0	1403.3	685.7	594.8	610.3	577.4	587.0	555.1	546.4	557.1
55°	3336.7	2795.1	1351.1	645.0	579.3	575.5	679.9	591.0	561.9	590.0	592.8
57.5°	3780.6	3121.0	1362.7	579.3	584.2	554.2	665.4	661.6	644.1	630.5	625.7
60°	4037.9	3225.5	1254.4	618.0	565.8	611.2	706.1	685.7	593.9	689.5	705.0
62.5°	4240.1	3387.9	988.5	611.2	628.7	583.2	648.0	669.3	625.7	698.2	707.0
65°	4289.3	3379.3	757.2	627.7	621.9	648.0	767.0	657.6	546.4	557.1	561.9
67°	4221.7	3302.8	614.1	597.6	630.5	623.8	634.5	564.9	504.9	515.4	523.3
67.5°	4183.0	3240.9	582.3	595.8	651.8	622.9	621.9	543.6	493.2	506.8	509.7
70°	3823.2	2903.3	487.4	588.1	646.0	565.8	581.3	478.8	435.2	440.1	442.0
72.5°	3273.9	2329.9	465.2	585.1	634.5	472.0	446.9	391.7	370.4	363.7	354.0
75°	2512.6	1605.4	459.4	528.0	521.2	356.8	357.9	325.9	327.9	313.3	307.6
77.5°	1513.6	899.4	390.7	446.9	390.7	272.7	296.0	289.2	296.9	281.5	271.7
80°	725.4	439.1	308.5	328.9	275.7	213.7	252.4	263.1	265.0	242.8	232.0
82.5°	310.4	227.3	208.9	206.0	196.3	165.4	204.1	214.7	216.7	203.1	162.5
85°	182.8	154.7	144.1	138.3	136.3	102.4	146.1	173.0	173.0	143.1	123.8
87.5°	114.1	113.2	101.5	101.5	106.4	72.5	100.6	119.0	112.2	85.1	67.7
90°	54.2	58.0	60.9	62.0	72.5	40.7	64.8	68.7	64.8	46.4	32.9
92.5°	43.4	49.2	53.2	55.1	65.8	34.9	58.0	62.0	59.0	46.4	32.9
95°	35.8	44.5	53.2	52.2	55.1	27.1	51.3	56.0	54.2	40.7	28.1
97.5°	29.1	35.8	43.4	43.4	50.3	23.2	47.4	53.2	52.2	36.7	27.1
100°	26.1	31.9	38.7	37.7	44.5	18.3	42.5	46.4	45.5	29.9	24.1
102.5°	23.2	26.1	29.9	29.9	32.9	15.6	31.9	35.8	33.9	25.1	24.1
105°	21.3	22.3	21.3	20.3	21.3	13.5	20.3	23.2	20.3	19.3	19.3
107.5°	20.3	20.3	17.4	16.4	15.6	11.6	14.5	15.6	13.5	17.4	19.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	20.3	19.3	15.6	14.5	12.6	10.6	11.6	11.6	11.6	17.4	18.3
112.5°	19.3	19.3	14.5	12.6	11.6	9.8	9.8	8.7	10.6	17.4	19.3
115°	19.3	18.3	13.5	11.6	9.8	8.7	7.7	7.7	9.8	17.4	19.3
117.5°	19.3	18.3	13.5	10.6	9.8	7.7	6.8	6.8	9.8	17.4	19.3
120°	19.3	19.3	13.5	9.8	8.7	7.7	6.8	6.8	9.8	16.4	18.3
122.5°	18.3	18.3	12.6	9.8	7.7	6.8	5.8	5.8	9.8	16.4	17.4
125°	17.4	17.4	12.6	8.7	6.8	5.8	5.8	5.8	9.8	15.6	17.4
127.5°	16.4	16.4	11.6	7.7	5.8	5.8	4.8	4.8	9.8	15.6	16.4
130°	15.6	15.6	10.6	6.8	5.8	4.8	3.9	4.8	9.8	14.5	15.6
132.5°	13.5	13.5	9.8	5.8	4.8	3.9	3.9	3.9	8.7	13.5	14.5
135°	11.6	11.6	8.7	5.8	4.8	3.9	2.9	3.9	7.7	11.6	12.6
137.5°	10.6	10.6	7.7	4.8	3.9	2.9	2.9	3.9	7.7	10.6	11.6
140°	7.7	7.7	5.8	3.9	2.9	2.9	1.9	2.9	6.8	8.7	9.8
142.5°	5.8	5.8	4.8	3.9	2.9	1.9	1.9	2.9	5.8	7.7	7.7
145°	4.8	4.8	3.9	2.9	2.9	1.9	1.0	1.9	4.8	6.8	6.8
147.5°	3.9	3.9	3.9	2.9	1.9	1.0	1.0	1.0	2.9	4.8	4.8
150°	2.9	2.9	2.9	2.9	1.9	0.0	0.0	0.0	1.9	2.9	2.9
152.5°	1.9	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	1.0	1.0
155°	1.0	1.9	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	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

(END OF REPORT)