

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: P240529

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
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-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6826.5 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 IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

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

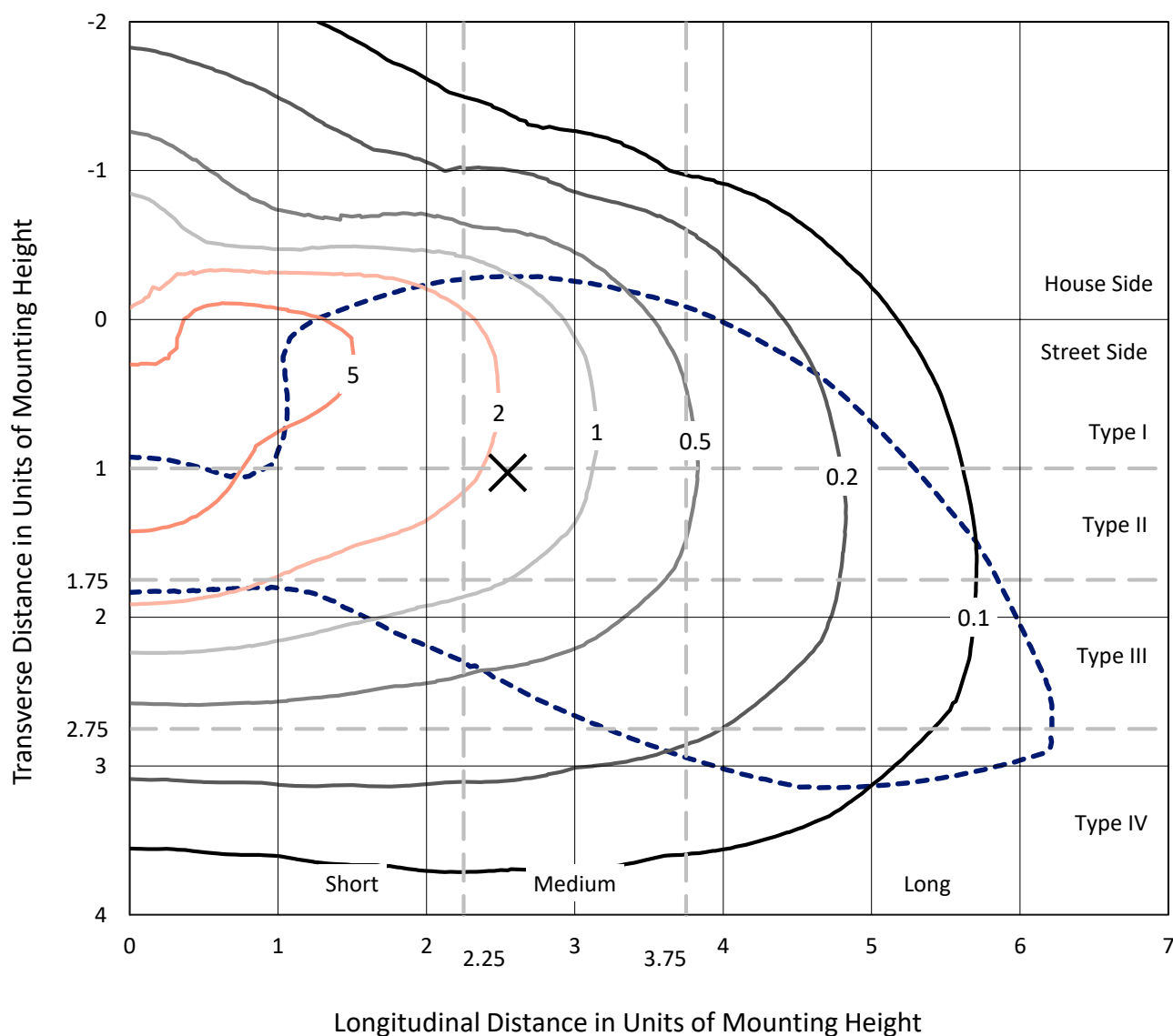


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

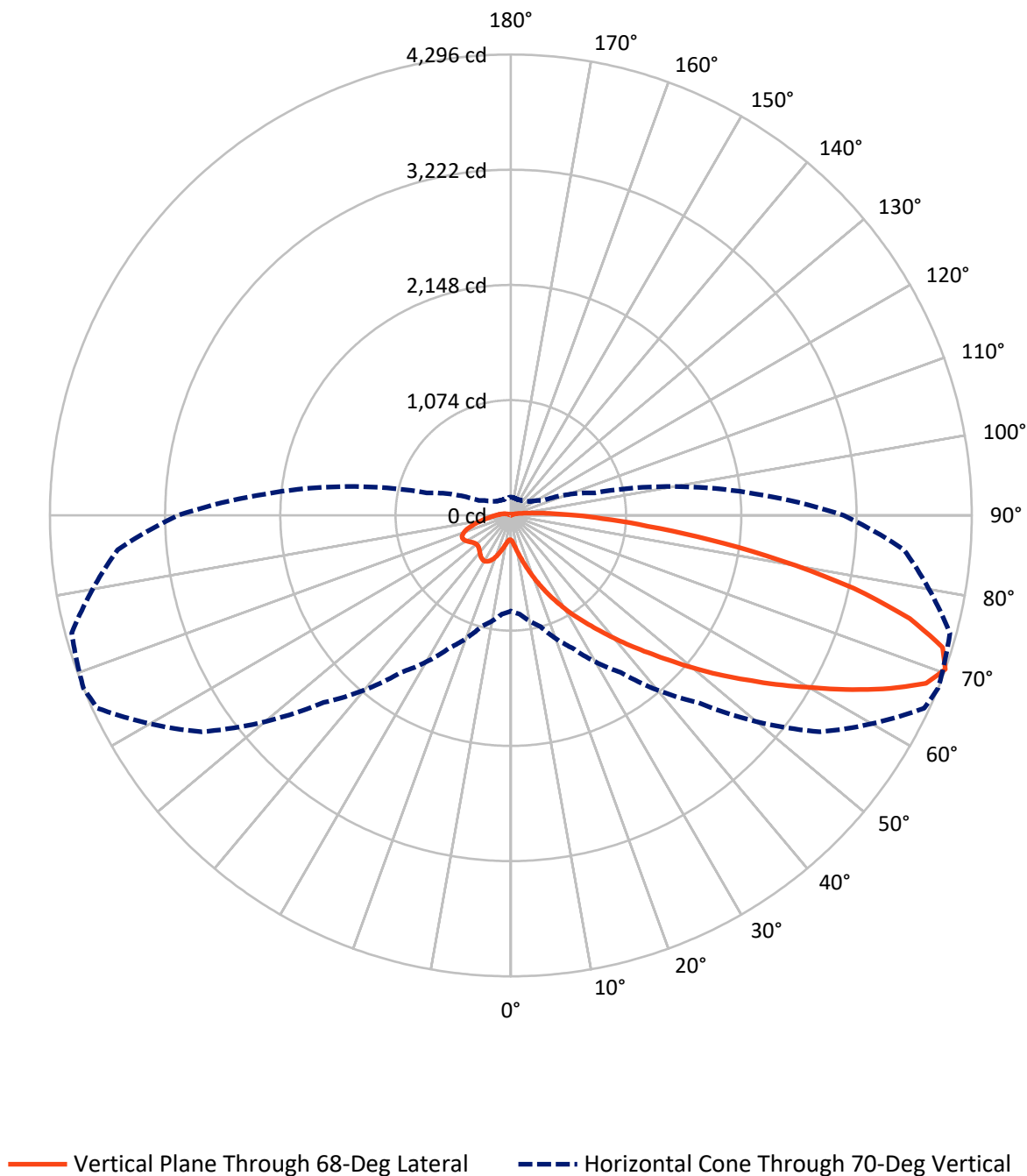


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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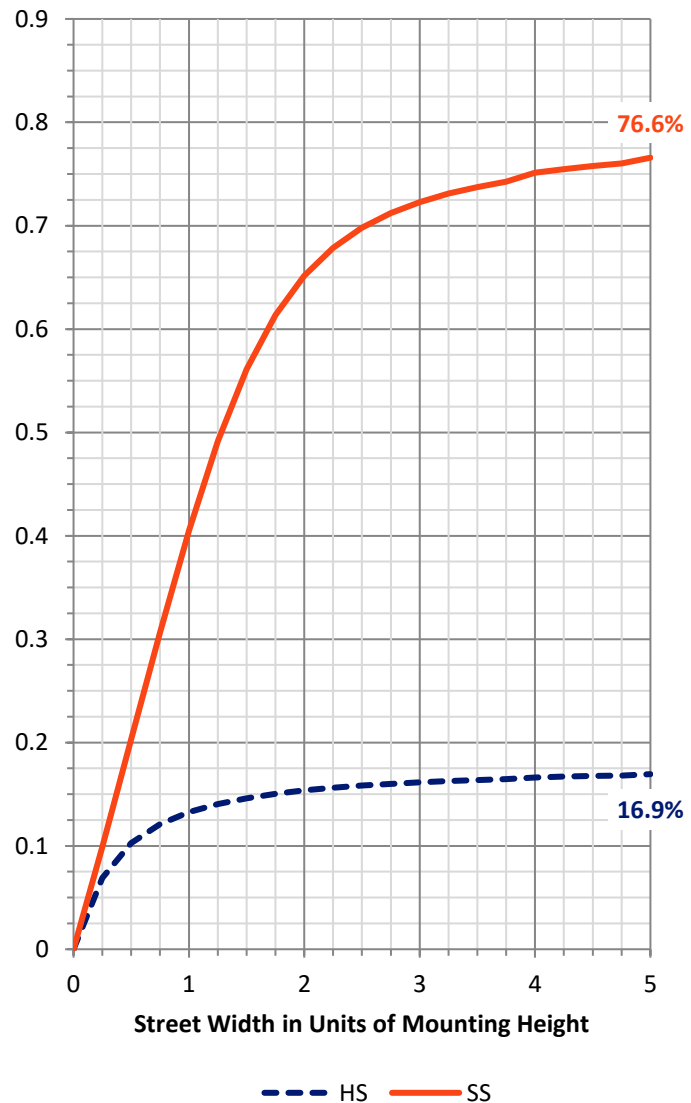
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1206.7	110.9	1317.5
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	5357.2	151.8	5509.0
	% Fixture	78.5	2.2	80.7
Total	Lumens	6563.9	262.7	6826.5
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	0.4
10°-20°	108.4	1.6
20°-30°	274.0	4.0
30°-40°	531.1	7.8
40°-50°	895.4	13.1
50°-60°	1338.8	19.6
60°-70°	1623.4	23.8
70°-80°	1266.6	18.6
80°-90°	501.2	7.3
90°-100°	153.5	2.2
100°-110°	60.3	0.9
110°-120°	26.7	0.4
120°-130°	13.2	0.2
130°-140°	6.5	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6563.9	96.2
0°-180°	6826.5	100.0

Coefficient of Utilization



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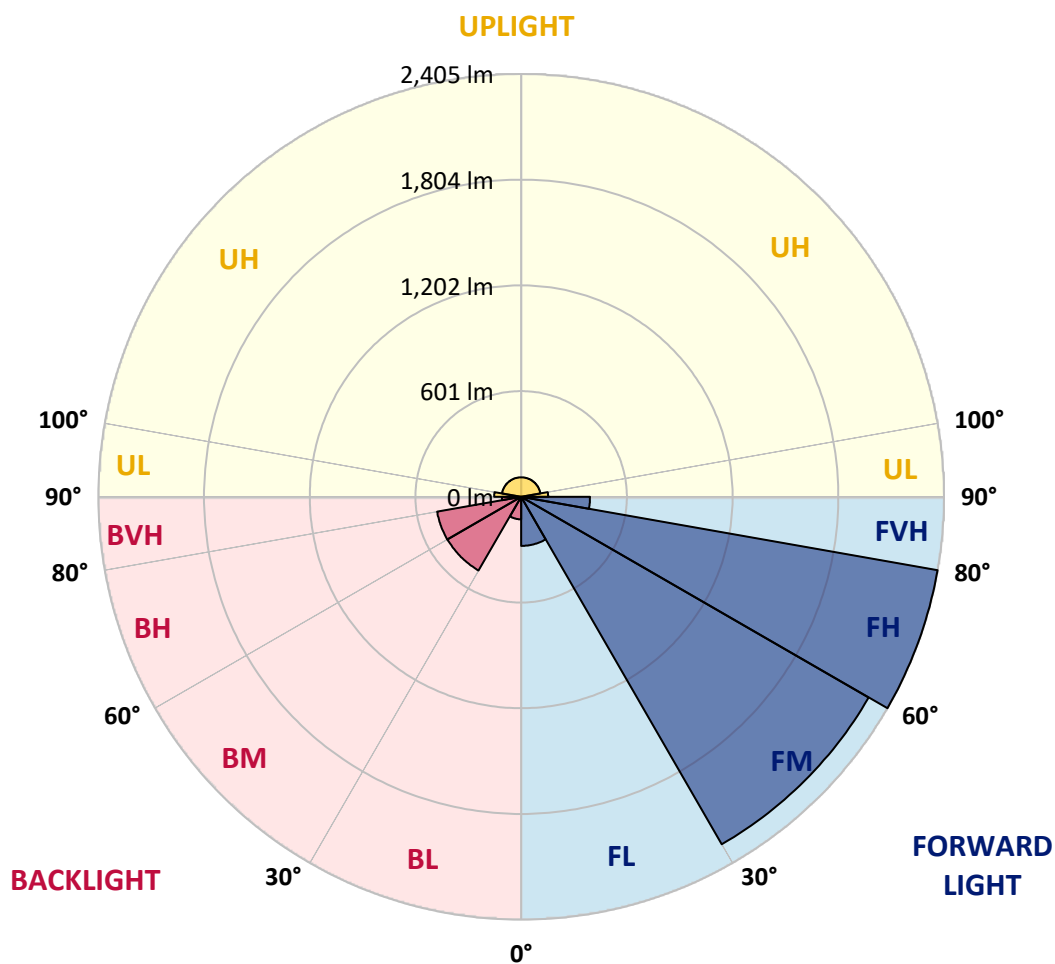
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	279.1	4.1			
FM	(30°-60°)	2281.7	33.4			
FH	(60°-80°)	2404.7	35.2			G2/5000
FVH	(80°-90°)	391.7	5.7			G3/500
BL	(0°-30°)	128.3	1.9	B1/500		
BM	(30°-60°)	483.7	7.1	B1/1000		
BH	(60°-80°)	485.3	7.1	B1/500		G1/500
BVH	(80°-90°)	109.5	1.6			G2/225
UL	(90°-100°)	153.5	2.2		U3/500	
UH	(100°-180°)	110.9	1.6		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	229.3	229.3	229.3	229.3	229.3	229.3	229.3	229.3	229.3	229.3	229.3
2.5°	255.2	256.1	256.1	253.5	252.6	249.8	245.4	243.6	241.9	240.1	236.5
5°	289.2	289.2	287.4	284.7	281.2	278.5	274.0	268.7	267.8	261.4	255.2
7.5°	327.6	328.5	329.3	324.8	319.5	315.1	309.8	302.5	300.8	294.6	282.9
10°	378.5	379.3	377.5	373.1	365.9	360.5	354.3	347.2	344.5	339.1	323.1
12.5°	440.0	439.1	433.8	427.5	419.4	413.2	405.3	399.9	398.0	392.7	375.8
15°	505.1	508.7	502.5	488.2	478.3	468.6	465.0	465.0	466.7	460.5	444.4
17.5°	589.0	591.7	581.0	561.4	545.3	534.6	531.0	538.2	540.9	543.6	529.3
20°	686.3	687.2	670.3	642.6	614.0	600.7	601.6	618.5	624.8	634.6	617.7
22.5°	805.0	797.9	773.8	731.0	689.9	668.4	676.6	710.4	715.7	736.3	727.3
25°	929.1	928.1	888.1	830.9	771.2	743.5	756.8	798.8	814.0	845.2	833.6
27.5°	1072.0	1068.3	1016.5	946.0	864.8	823.9	835.4	895.2	913.1	965.8	953.2
30°	1223.6	1224.5	1163.8	1065.6	964.8	907.7	914.8	997.9	1021.0	1081.6	1078.2
32.5°	1404.8	1394.0	1326.3	1197.7	1073.7	996.0	1005.8	1102.2	1134.3	1206.7	1196.0
35°	1586.9	1573.5	1483.3	1342.4	1187.0	1095.1	1099.5	1213.8	1247.7	1341.4	1321.0
37.5°	1754.7	1747.5	1657.4	1495.0	1313.8	1204.9	1210.3	1333.4	1376.2	1480.7	1455.7
40°	1935.0	1935.0	1842.9	1666.3	1454.8	1323.5	1331.7	1466.4	1518.1	1632.5	1590.5
42.5°	2125.9	2119.7	2022.4	1822.5	1594.8	1451.2	1467.3	1616.3	1674.3	1795.6	1752.8
45°	2314.2	2300.9	2200.1	1992.1	1735.0	1594.8	1619.0	1780.6	1841.2	1995.6	1935.8
47.5°	2476.7	2462.3	2363.4	2144.6	1882.3	1744.0	1777.8	1971.6	2035.8	2219.7	2128.6
50°	2592.7	2588.3	2491.8	2266.0	2013.5	1897.5	1968.9	2175.1	2251.9	2437.5	2351.7
52.5°	2660.6	2652.5	2575.8	2375.9	2144.6	2056.4	2165.2	2396.4	2477.6	2677.5	2577.5
55°	2645.3	2640.0	2585.6	2433.9	2247.4	2208.9	2383.0	2642.7	2718.6	2934.6	2815.8
57.5°	2525.7	2532.9	2516.9	2437.5	2323.2	2366.9	2606.2	2902.5	2982.8	3193.4	3066.7
60°	2312.5	2309.8	2355.3	2368.7	2353.6	2503.4	2875.6	3198.8	3260.3	3472.7	3311.2
62.5°	1997.5	1990.2	2089.4	2217.0	2331.3	2618.6	3118.4	3514.7	3576.3	3747.6	3536.9
65°	1610.9	1643.2	1767.2	1977.8	2220.5	2662.3	3354.0	3836.8	3887.8	3978.7	3714.6
67.5°	1221.0	1252.2	1412.8	1679.7	2035.8	2611.6	3504.0	4126.0	4175.2	4199.3	3792.3
70°	891.7	921.9	1073.7	1366.4	1785.0	2464.3	3515.5	4250.9	4295.6	4236.7	3678.0
72.5°	634.6	650.6	780.9	1058.5	1499.4	2206.3	3369.2	4170.7	4207.2	4043.9	3376.3
75°	448.9	456.0	568.4	805.0	1221.0	1914.4	3021.1	3811.0	3839.6	3634.3	2871.3
77.5°	306.2	322.2	411.5	614.0	979.1	1571.7	2560.6	3267.5	3267.5	3006.9	2271.4
80°	216.9	230.3	295.4	458.8	766.7	1259.3	2068.9	2596.3	2555.2	2259.8	1636.8
82.5°	156.2	166.9	218.6	349.8	595.4	995.2	1569.9	1922.4	1866.2	1577.0	1081.6
85°	113.3	124.0	166.0	257.1	456.0	772.0	1176.2	1335.1	1279.9	1045.2	702.4
87.5°	83.0	90.1	124.0	193.7	345.4	584.5	863.0	906.8	857.6	675.7	450.7
90°	58.9	65.1	94.6	146.4	258.8	439.1	606.1	595.4	541.7	424.8	298.1
92.5°	42.8	47.3	70.5	111.6	192.8	322.2	416.9	384.7	354.3	273.1	207.0
95°	32.1	35.7	55.2	86.6	141.9	226.7	281.2	252.6	229.3	186.5	152.6
97.5°	25.9	28.5	45.6	69.6	109.8	165.1	194.6	166.9	156.2	134.7	117.8
100°	22.3	24.1	38.4	58.0	86.6	124.0	137.4	116.9	110.7	101.7	91.9
102.5°	20.5	21.5	33.9	49.9	70.5	92.9	99.1	87.5	83.0	77.7	72.3
105°	18.8	19.6	30.4	43.7	59.8	72.3	75.8	66.9	64.3	58.9	55.2
107.5°	17.8	17.8	26.8	38.4	51.0	59.8	59.8	52.7	49.9	44.6	42.8
110°	16.9	16.9	24.1	34.9	43.7	51.0	49.0	41.9	39.3	33.9	33.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	16.1	16.1	22.3	30.4	38.4	42.8	41.1	33.9	31.2	25.9	25.9
115°	15.2	15.2	19.6	26.8	33.9	36.6	34.9	27.7	25.9	20.5	21.5
117.5°	15.2	15.2	18.8	24.1	29.5	32.1	29.5	22.3	20.5	16.9	18.8
120°	14.3	14.3	16.9	21.5	25.9	27.7	25.0	18.8	16.9	14.3	16.1
122.5°	14.3	14.3	16.1	18.8	23.2	24.1	21.5	16.1	14.3	12.4	14.3
125°	13.4	13.4	15.2	16.9	19.6	20.5	17.8	13.4	12.4	11.6	12.4
127.5°	13.4	13.4	14.3	15.2	17.8	17.8	15.2	10.7	10.7	9.9	11.6
130°	12.4	13.4	13.4	14.3	15.2	15.2	12.4	9.0	9.0	9.0	10.7
132.5°	12.4	12.4	12.4	12.4	13.4	12.4	9.9	8.0	8.0	8.0	9.9
135°	11.6	11.6	11.6	11.6	10.7	9.9	8.0	6.2	6.2	7.1	9.0
137.5°	11.6	11.6	10.7	9.9	9.9	8.0	6.2	5.4	5.4	7.1	8.0
140°	10.7	10.7	9.9	9.0	7.1	6.2	4.5	4.5	4.5	5.4	6.2
142.5°	9.0	9.0	9.0	7.1	5.4	3.6	2.7	2.7	3.6	4.5	5.4
145°	8.0	8.0	7.1	6.2	3.6	1.7	0.9	1.7	2.7	3.6	4.5
147.5°	6.2	6.2	5.4	4.5	1.7	0.9	0.0	0.9	1.7	1.7	2.7
150°	4.5	4.5	4.5	2.7	0.9	0.0	0.0	0.9	0.9	0.9	1.7
152.5°	3.6	3.6	2.7	1.7	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.9	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°	229.3	229.3	229.3	229.3	229.3	229.3	229.3	229.3	229.3	229.3	229.3
2.5°	233.9	232.9	228.5	225.0	220.4	216.9	213.3	210.7	209.8	207.9	208.8
5°	249.8	246.4	237.4	229.3	220.4	212.4	205.3	200.0	195.5	193.7	192.8
7.5°	277.5	272.2	256.1	241.9	227.6	213.3	201.7	192.8	187.4	183.9	183.9
10°	317.7	306.2	285.6	261.4	237.4	216.9	200.8	188.4	180.3	177.6	177.6
12.5°	366.8	354.3	322.2	285.6	251.8	223.1	201.7	188.4	180.3	176.7	175.8
15°	432.0	413.2	365.9	314.1	265.1	228.5	202.5	189.2	183.9	182.0	182.0
17.5°	508.7	485.5	416.9	345.4	280.2	231.2	205.3	194.6	191.9	191.9	191.9
20°	599.8	565.9	473.9	373.1	290.9	233.9	207.0	199.1	199.1	200.8	201.7
22.5°	697.1	654.3	529.3	398.9	294.6	235.7	206.2	200.8	205.3	209.8	210.7
25°	800.6	740.8	579.2	414.9	296.3	231.2	203.4	201.7	210.7	216.9	218.6
27.5°	910.3	829.2	622.1	421.3	290.9	223.1	199.1	200.0	213.3	222.3	224.0
30°	1011.2	912.1	656.0	419.4	279.3	213.3	193.7	197.2	213.3	225.8	228.5
32.5°	1115.6	994.3	676.6	411.5	265.1	202.5	187.4	194.6	212.4	226.7	229.3
35°	1220.1	1066.6	686.3	395.4	249.0	192.8	181.2	190.1	209.8	225.8	227.6
37.5°	1324.4	1137.9	689.0	374.9	234.7	184.7	176.7	187.4	205.3	224.0	226.7
40°	1437.0	1208.4	683.6	354.3	221.4	179.4	173.1	183.9	201.7	221.4	225.0
42.5°	1562.7	1283.5	677.4	333.8	212.4	175.8	170.5	180.3	196.3	218.6	223.1
45°	1703.0	1365.5	673.8	317.7	207.0	174.0	169.6	177.6	193.7	216.9	221.4
47.5°	1853.7	1469.1	677.4	307.0	204.5	175.0	169.6	175.8	190.1	213.3	218.6
50°	2037.5	1587.7	690.8	299.1	203.4	175.8	170.5	174.0	186.5	207.9	213.3
52.5°	2227.7	1709.2	712.3	297.1	204.5	177.6	171.3	173.1	181.2	200.8	205.3
55°	2424.9	1869.8	748.9	299.9	206.2	180.3	172.3	171.3	176.7	191.9	197.2
57.5°	2648.0	2036.7	794.4	306.2	208.8	182.0	173.1	169.6	171.3	183.9	188.4
60°	2869.3	2206.3	840.7	314.1	214.1	184.7	174.0	168.7	168.7	178.5	182.0
62.5°	3070.1	2355.3	879.1	324.8	218.6	186.5	174.0	166.9	166.0	174.0	177.6
65°	3207.7	2433.9	888.1	331.2	223.1	187.4	172.3	165.1	164.2	170.5	174.0
67.5°	3244.2	2421.4	870.1	333.8	225.8	187.4	172.3	163.4	164.2	169.6	172.3
70°	3101.5	2291.9	811.2	328.5	225.0	186.5	170.5	161.6	163.4	168.7	170.5
72.5°	2760.6	2024.2	720.2	315.1	220.4	183.0	166.9	158.9	161.6	167.8	169.6
75°	2317.0	1677.0	612.3	293.6	212.4	178.5	163.4	155.2	159.7	166.0	166.9
77.5°	1782.3	1285.2	500.7	265.9	201.7	172.3	158.0	149.9	156.2	163.4	162.5
80°	1265.5	937.1	395.4	237.4	187.4	163.4	150.9	143.6	150.9	158.0	156.2
82.5°	872.0	635.5	316.0	209.8	172.3	153.5	142.8	136.6	144.5	150.9	148.1
85°	571.2	429.3	249.0	183.9	158.0	143.6	133.9	127.7	135.7	141.1	137.4
87.5°	368.6	299.1	199.1	159.7	142.8	133.0	124.0	118.6	126.7	131.2	127.7
90°	256.1	217.8	164.2	138.3	128.5	121.4	114.2	108.9	116.1	119.6	117.8
92.5°	183.0	166.9	136.6	121.4	116.1	109.8	103.6	99.1	106.2	108.9	107.1
95°	142.8	133.0	116.1	107.1	104.5	100.0	93.8	89.3	94.6	96.3	95.5
97.5°	114.2	109.8	100.0	94.6	92.9	89.3	84.7	80.3	83.9	84.7	83.9
100°	91.9	90.1	85.7	83.0	82.2	79.4	75.0	71.3	73.2	72.3	72.3
102.5°	73.2	73.2	72.3	71.3	71.3	68.8	65.1	61.6	61.6	59.8	59.8
105°	58.0	59.8	59.8	60.6	61.6	59.8	56.3	51.8	51.0	48.2	48.2
107.5°	45.6	47.3	49.9	51.0	51.8	49.9	47.3	42.8	40.2	37.4	38.4
110°	35.7	37.4	41.1	42.8	43.7	42.8	39.3	35.7	31.2	29.5	30.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27.7	30.4	33.9	35.7	36.6	35.7	32.1	28.5	24.1	23.2	23.2
115°	23.2	25.0	28.5	30.4	30.4	29.5	26.8	22.3	18.8	17.8	18.8
117.5°	19.6	21.5	24.1	25.9	25.9	25.0	22.3	17.8	15.2	15.2	15.2
120°	16.9	18.8	20.5	22.3	22.3	21.5	18.8	14.3	12.4	12.4	12.4
122.5°	15.2	16.1	17.8	18.8	18.8	17.8	15.2	11.6	9.9	10.7	10.7
125°	13.4	14.3	16.1	16.9	16.1	15.2	12.4	9.0	8.0	9.0	9.0
127.5°	12.4	13.4	14.3	14.3	14.3	12.4	10.7	7.1	7.1	8.0	8.0
130°	11.6	11.6	12.4	12.4	11.6	10.7	8.0	5.4	5.4	7.1	7.1
132.5°	10.7	10.7	11.6	10.7	10.7	9.0	6.2	4.5	5.4	6.2	6.2
135°	9.0	9.0	9.9	9.9	8.0	7.1	4.5	3.6	3.6	4.5	5.4
137.5°	8.0	9.0	9.0	8.0	7.1	5.4	3.6	2.7	3.6	3.6	4.5
140°	7.1	7.1	7.1	6.2	5.4	3.6	1.7	1.7	2.7	2.7	2.7
142.5°	5.4	6.2	6.2	5.4	3.6	1.7	0.9	0.9	1.7	1.7	1.7
145°	4.5	4.5	4.5	3.6	2.7	1.7	0.9	0.9	0.9	0.9	0.9
147.5°	2.7	3.6	3.6	2.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0
150°	1.7	1.7	2.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	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	0.9	0.9	0.9	0.9	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)