

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: P266458

Luminaire Tested: **UTLD-AF24-70-D-U-T4W-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T4W-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5756.4 lumens
Efficiency: N/A
Efficacy: 77.8 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): 74
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

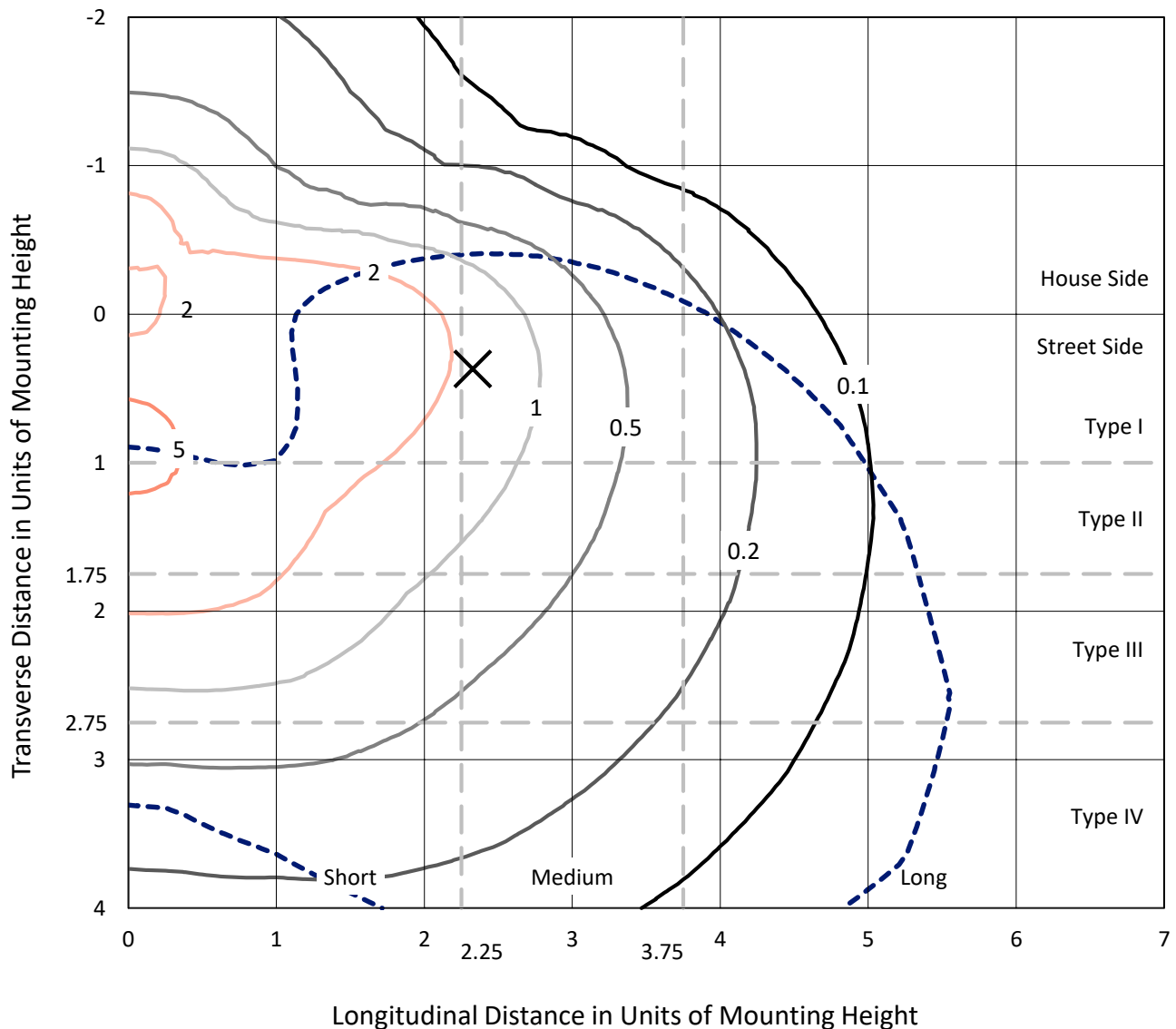


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

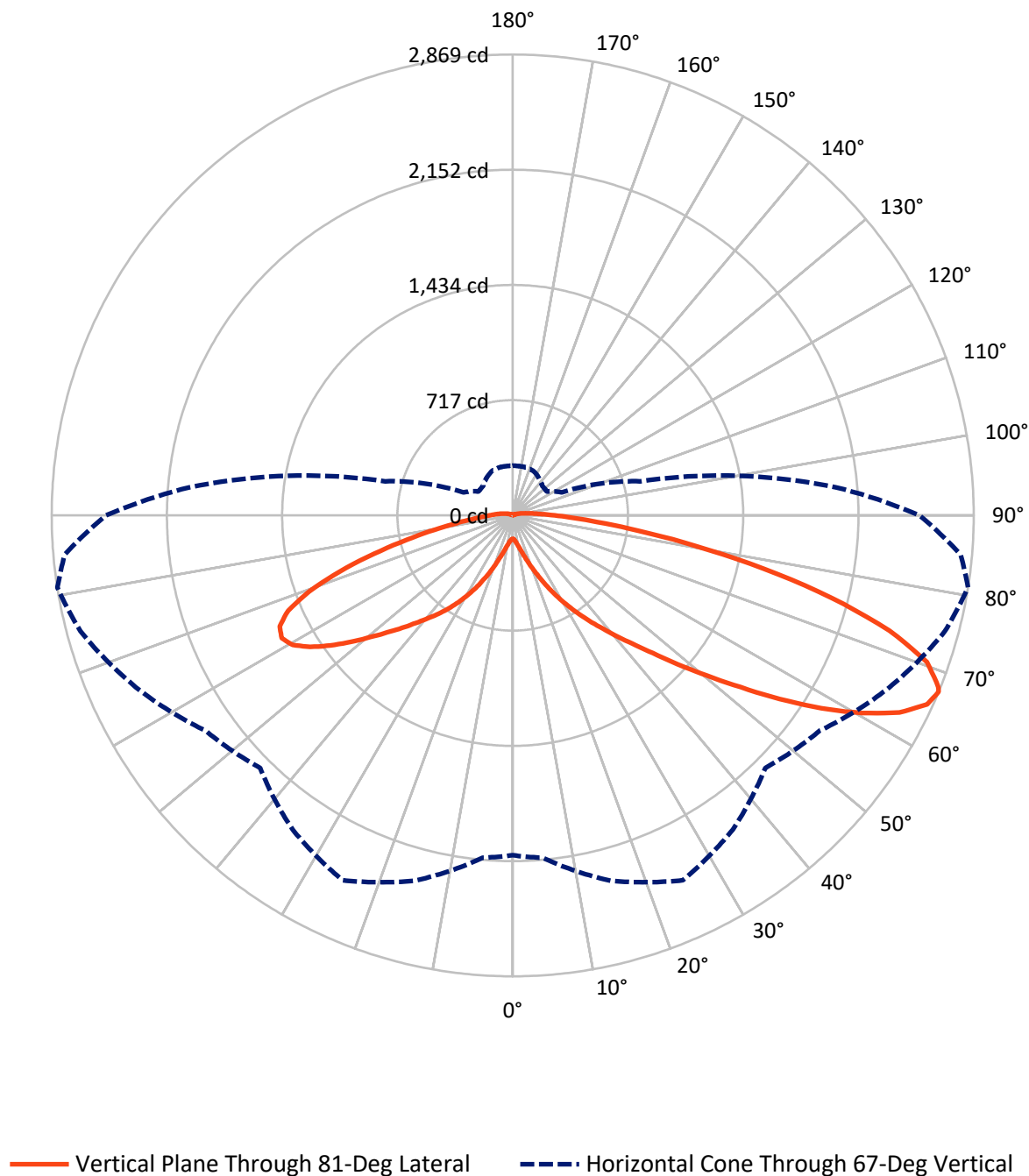


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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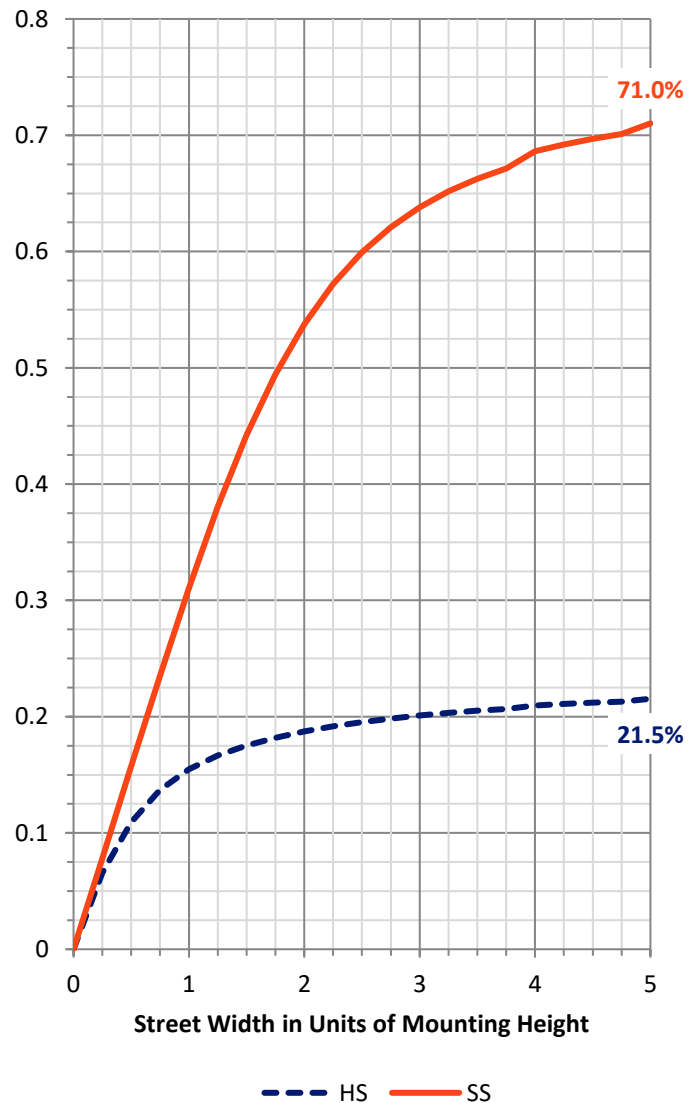
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1308.2	105.3	1413.5
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	4222.7	120.3	4342.9
	% Fixture	73.4	2.1	75.4
Total	Lumens	5530.9	225.5	5756.4
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.3
10°-20°	72.7	1.3
20°-30°	196.3	3.4
30°-40°	394.0	6.8
40°-50°	666.0	11.6
50°-60°	1064.8	18.5
60°-70°	1454.9	25.3
70°-80°	1199.3	20.8
80°-90°	466.8	8.1
90°-100°	134.4	2.3
100°-110°	51.5	0.9
110°-120°	22.3	0.4
120°-130°	10.7	0.2
130°-140°	5.0	0.1
140°-150°	1.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5530.9	96.1
0°-180°	5756.4	100.0

Coefficient of Utilization



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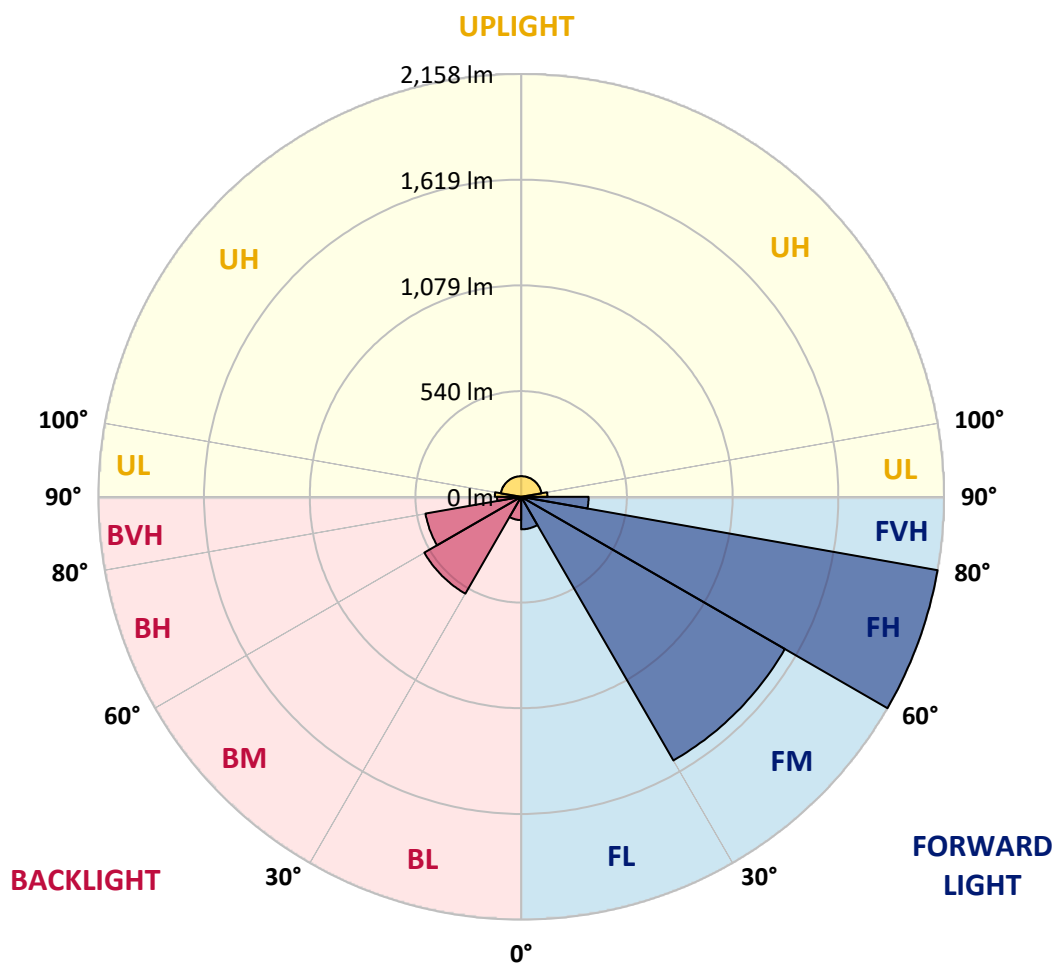
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	166.3	2.9			
FM	(30°-60°)	1554.1	27.0			
FH	(60°-80°)	2158.4	37.5			G2/5000
FVH	(80°-90°)	343.9	6.0			G3/500
BL	(0°-30°)	118.8	2.1	B1/500		
BM	(30°-60°)	570.7	9.9	B1/1000		
BH	(60°-80°)	495.8	8.6	B1/500		G1/500
BVH	(80°-90°)	122.9	2.1			G2/225
UL	(90°-100°)	134.4	2.3		U3/500	
UH	(100°-180°)	105.3	1.8		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°	75°	81°	85°
0°	145.7	145.7	145.7	145.7	145.7	145.7	145.7	145.7	145.7	145.7	145.7
2.5°	157.6	157.6	157.6	156.8	156.0	154.6	153.2	151.6	150.9	150.1	149.5
5°	173.6	174.5	173.6	173.0	170.7	168.5	165.6	163.4	160.4	159.0	158.2
7.5°	197.7	197.7	197.1	193.4	191.2	187.6	184.0	179.5	176.5	174.5	171.4
10°	228.6	227.1	225.7	222.1	216.9	211.0	206.6	201.5	196.3	194.9	192.0
12.5°	265.2	265.2	261.5	256.5	246.9	241.0	233.6	227.8	222.7	219.7	218.3
15°	314.2	312.2	305.6	297.5	285.8	274.1	266.0	261.5	256.5	256.5	251.3
17.5°	364.2	366.2	356.1	343.6	327.5	312.8	303.3	302.5	300.4	299.0	298.1
20°	429.3	427.1	414.7	393.4	370.0	352.3	345.8	346.6	352.3	351.6	348.7
22.5°	499.6	499.6	480.7	452.0	419.1	397.8	391.2	397.8	410.3	410.3	411.8
25°	583.2	580.2	556.1	512.8	473.2	445.4	442.5	452.7	474.8	478.3	476.9
27.5°	677.0	666.7	635.2	581.7	529.7	498.2	493.1	512.2	542.1	552.4	556.1
30°	776.6	777.4	729.0	659.4	589.0	547.2	545.1	575.9	611.7	629.4	633.8
32.5°	891.6	888.0	832.3	745.1	654.2	600.0	597.8	640.3	685.8	708.5	711.4
35°	1034.5	1017.6	955.3	841.1	721.7	660.2	658.6	704.8	764.1	792.8	800.0
37.5°	1165.6	1156.7	1085.7	940.6	798.6	720.9	717.9	778.0	848.4	881.3	891.6
40°	1318.7	1308.6	1225.0	1059.5	890.1	791.2	789.8	857.9	939.3	980.9	989.8
42.5°	1468.9	1462.4	1372.3	1191.2	986.9	870.4	867.5	946.5	1042.6	1089.5	1100.5
45°	1630.2	1613.3	1526.1	1326.1	1094.6	961.9	963.4	1049.1	1167.7	1222.8	1233.7
47.5°	1767.9	1757.5	1684.3	1471.9	1213.3	1061.5	1063.8	1178.0	1322.3	1386.2	1391.2
50°	1918.1	1912.1	1839.5	1626.4	1356.1	1185.5	1189.0	1318.1	1492.4	1565.7	1591.3
52.5°	2042.6	2043.4	1988.4	1785.4	1496.8	1318.7	1329.8	1485.1	1677.0	1775.2	1790.5
55°	2164.1	2160.6	2128.3	1959.8	1663.8	1468.2	1480.6	1669.7	1897.5	2016.2	2036.6
57.5°	2252.1	2261.7	2265.3	2126.7	1825.7	1618.3	1659.3	1861.6	2137.7	2265.3	2283.6
60°	2312.9	2317.3	2368.7	2294.6	2000.9	1795.7	1849.2	2074.8	2363.5	2497.6	2509.2
62.5°	2307.0	2326.2	2425.8	2420.7	2170.8	1964.1	2032.3	2274.8	2559.8	2701.9	2704.2
65°	2228.7	2260.1	2427.2	2500.4	2311.5	2124.0	2211.7	2455.1	2721.0	2833.9	2804.5
67°	2115.1	2139.3	2353.9	2505.6	2387.7	2222.8	2334.2	2566.4	2784.7	2868.9	2798.0
67.5°	2067.4	2110.7	2326.8	2500.4	2395.7	2244.1	2353.9	2595.7	2798.0	2858.0	2781.8
70°	1838.1	1871.9	2114.4	2395.7	2398.7	2308.6	2436.1	2630.9	2748.1	2734.9	2597.2
72.5°	1527.6	1542.8	1808.8	2164.9	2288.7	2282.9	2411.8	2540.0	2538.6	2451.4	2284.3
75°	1157.6	1198.6	1438.1	1817.6	2059.5	2140.0	2257.3	2299.8	2198.6	2052.1	1849.9
77.5°	816.9	838.1	1049.8	1429.4	1740.7	1890.9	1973.7	1954.0	1767.9	1594.9	1411.7
80°	528.9	549.5	695.3	1024.2	1364.9	1525.3	1600.8	1542.2	1354.6	1151.6	997.8
82.5°	320.2	337.8	440.3	687.3	1003.0	1182.4	1220.5	1164.2	955.3	786.8	666.0
85°	187.6	201.5	273.3	443.3	683.5	853.5	867.5	802.9	641.7	526.0	443.9
87.5°	114.3	121.6	173.0	283.5	453.6	575.9	604.4	544.4	432.3	351.6	299.0
90°	74.0	79.1	110.6	186.0	297.5	380.3	397.8	363.4	293.0	239.6	205.9
92.5°	50.6	55.7	77.0	124.5	195.7	252.1	263.1	238.8	197.1	168.5	150.1
95°	38.8	41.1	58.6	87.9	133.4	168.5	178.8	162.7	137.7	123.8	112.8
97.5°	31.5	33.0	46.9	68.1	96.7	120.9	125.3	113.5	101.9	93.1	87.9
100°	27.0	27.8	39.5	55.7	75.5	91.5	93.8	85.0	77.0	72.6	68.1
102.5°	24.2	25.0	34.5	47.6	61.5	72.6	72.6	65.9	58.6	55.7	53.4
105°	21.2	22.0	30.8	41.1	52.7	59.4	59.4	52.0	45.5	42.5	41.7
107.5°	19.0	19.9	26.4	35.9	44.6	49.9	49.0	41.7	34.5	31.5	31.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	17.5	17.5	23.4	31.5	38.1	42.5	40.3	33.6	26.4	24.2	25.0
112.5°	16.1	16.1	20.5	27.0	33.6	36.7	33.6	27.8	20.5	19.0	19.9
115°	15.5	15.5	18.3	24.2	29.4	30.8	28.6	22.6	16.9	15.5	16.1
117.5°	14.0	14.0	16.9	21.2	25.0	26.4	24.2	18.3	14.0	13.1	14.0
120°	13.1	13.1	14.6	18.3	22.0	22.6	20.5	15.5	11.7	11.7	12.4
122.5°	12.4	12.4	14.0	16.1	19.0	19.9	17.5	12.4	10.3	10.3	11.0
125°	12.4	12.4	12.4	14.6	16.1	16.9	14.6	11.0	9.5	9.5	10.3
127.5°	11.7	11.7	11.7	12.4	14.0	14.0	12.4	8.9	8.1	8.9	8.9
130°	11.0	11.0	11.0	11.7	12.4	11.7	10.3	7.4	7.4	8.1	8.1
132.5°	10.3	10.3	10.3	10.3	10.3	9.5	8.1	6.6	6.6	7.4	7.4
135°	9.5	9.5	9.5	8.9	8.9	8.1	6.6	5.1	5.8	6.6	6.6
137.5°	8.9	8.9	8.9	8.1	7.4	5.8	4.4	4.4	5.1	5.8	5.8
140°	8.1	8.1	7.4	6.6	5.8	4.4	3.0	3.7	4.4	4.4	5.1
142.5°	6.6	6.6	6.6	5.1	3.7	3.0	2.2	2.2	3.7	3.7	3.7
145°	5.8	5.8	5.1	4.4	3.0	1.4	0.7	1.4	2.2	3.0	3.0
147.5°	4.4	4.4	4.4	3.0	1.4	0.7	0.7	0.7	1.4	2.2	2.2
150°	3.7	3.7	3.0	2.2	0.7	0.0	0.0	0.7	1.4	1.4	1.4
152.5°	2.2	2.2	2.2	1.4	0.0	0.0	0.0	0.7	0.7	0.7	0.7
155°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.7	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°	145.7	145.7	145.7	145.7	145.7	145.7	145.7	145.7	145.7	145.7	145.7
2.5°	148.7	148.0	147.2	145.7	145.0	143.5	142.1	141.5	140.7	140.7	140.7
5°	156.8	156.0	153.9	150.9	148.7	146.6	145.0	143.5	142.1	142.1	142.1
7.5°	170.0	168.5	164.1	161.2	157.6	154.6	152.4	150.1	149.5	149.5	148.7
10°	189.1	186.8	181.6	175.8	170.7	167.1	164.1	162.0	161.2	161.2	161.2
12.5°	213.9	211.0	202.9	195.7	187.6	182.4	178.8	178.0	178.8	178.8	178.0
15°	249.8	244.0	231.6	219.7	207.2	199.2	197.1	197.1	200.7	202.2	202.9
17.5°	293.0	285.8	268.9	249.8	230.8	219.7	218.3	222.7	230.8	234.5	233.6
20°	346.6	336.2	312.8	284.3	258.0	244.0	242.5	250.5	261.5	268.9	268.1
22.5°	406.7	397.1	361.8	320.2	283.5	267.4	265.2	278.5	294.6	302.5	305.6
25°	473.2	460.1	413.8	356.7	310.6	287.9	287.2	303.3	324.6	339.2	341.4
27.5°	545.8	530.4	469.6	393.4	334.1	304.7	304.0	326.1	355.3	373.6	374.4
30°	625.7	602.3	524.6	424.2	351.6	316.6	318.0	343.6	381.1	402.3	405.9
32.5°	704.8	678.4	574.3	454.3	363.4	322.3	324.6	356.7	397.8	424.9	427.9
35°	788.4	754.5	624.2	474.0	370.0	323.1	325.2	361.8	406.7	435.9	438.8
37.5°	872.6	832.3	666.0	488.7	370.0	318.7	321.7	360.5	405.9	435.9	438.2
40°	972.1	913.5	705.4	494.5	364.2	310.6	314.2	352.3	394.9	422.7	424.9
42.5°	1075.5	1005.2	742.9	493.1	353.8	300.4	304.0	339.2	376.6	399.2	401.5
45°	1200.0	1114.3	780.9	488.7	341.4	289.3	291.6	323.1	354.7	370.7	373.6
47.5°	1353.1	1231.5	819.9	480.7	327.5	279.2	280.6	308.5	331.1	341.4	343.6
50°	1523.2	1370.0	862.4	469.6	314.2	269.6	271.7	294.6	310.6	315.0	315.8
52.5°	1724.6	1526.8	901.9	456.3	302.5	262.2	265.2	285.8	296.7	297.5	298.1
55°	1942.1	1698.2	937.0	440.3	290.8	257.2	263.1	282.1	289.3	288.6	289.3
57.5°	2169.2	1863.1	961.1	423.5	281.3	254.2	263.7	282.1	289.3	287.9	289.3
60°	2372.2	2004.5	964.9	401.5	274.1	254.2	268.1	287.2	293.7	293.7	295.3
62.5°	2516.6	2085.8	940.6	379.5	267.4	255.7	274.1	293.7	300.4	300.4	301.8
65°	2575.3	2084.3	888.0	356.1	262.2	258.0	279.8	301.1	306.2	306.2	307.7
67°	2531.2	2016.2	819.9	338.5	259.3	260.1	284.3	305.6	309.8	309.1	309.8
67.5°	2504.1	1992.0	805.2	333.4	258.6	260.1	285.0	306.2	310.6	309.8	309.8
70°	2280.0	1786.1	704.0	311.4	253.5	260.1	287.9	307.7	310.6	309.1	309.1
72.5°	1933.4	1494.6	590.5	289.3	247.7	258.0	286.5	305.6	307.0	304.7	304.7
75°	1537.8	1169.2	485.1	270.3	239.6	252.8	281.3	299.0	301.1	299.0	296.7
77.5°	1138.5	866.0	392.0	249.8	230.1	244.7	272.5	289.3	291.6	289.3	287.2
80°	794.2	615.3	315.8	229.2	217.6	233.0	260.1	274.7	277.7	276.1	272.5
82.5°	531.2	422.7	252.8	206.6	201.5	217.6	243.3	256.5	258.6	257.2	252.8
85°	362.6	294.6	208.8	182.4	184.0	199.2	221.3	231.6	233.6	231.6	227.1
87.5°	244.0	211.0	170.7	159.0	163.4	178.0	195.7	200.7	205.2	201.5	198.5
90°	176.5	159.0	137.7	135.6	142.9	155.2	167.1	167.8	173.6	172.1	166.2
92.5°	132.6	124.5	114.3	114.3	122.3	132.6	140.0	138.5	142.1	142.1	137.7
95°	104.7	100.4	95.2	97.5	104.7	112.1	114.3	111.4	115.1	115.7	114.3
97.5°	84.3	82.7	81.3	82.7	89.4	95.2	94.5	89.4	92.3	93.8	92.3
100°	68.1	67.5	68.1	71.1	76.1	79.9	77.7	72.6	74.6	74.6	74.6
102.5°	54.9	54.9	57.1	60.0	63.7	66.7	63.7	59.4	60.0	59.4	59.4
105°	43.2	43.9	46.9	50.6	53.4	54.9	52.0	47.6	46.9	44.6	45.5
107.5°	33.6	35.2	38.1	41.7	44.6	45.5	43.2	38.8	35.9	34.5	34.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	26.4	27.8	31.5	34.5	36.7	37.4	35.2	30.8	27.0	26.4	26.4
112.5°	21.2	22.6	25.6	28.6	30.8	30.8	28.6	25.0	20.5	19.9	19.9
115°	17.5	18.3	21.2	23.4	25.6	25.6	23.4	19.9	16.1	15.5	16.1
117.5°	14.6	15.5	17.5	19.9	21.2	21.2	19.0	15.5	12.4	12.4	12.4
120°	13.1	14.0	15.5	16.9	17.5	17.5	16.1	12.4	10.3	10.3	10.3
122.5°	11.7	11.7	13.1	14.0	15.5	14.6	13.1	10.3	8.1	8.9	8.9
125°	10.3	11.0	11.0	12.4	12.4	12.4	10.3	8.1	7.4	7.4	7.4
127.5°	9.5	9.5	10.3	10.3	11.0	10.3	8.1	5.8	5.8	6.6	6.6
130°	8.9	8.9	8.9	8.9	8.9	8.1	6.6	5.1	5.1	5.8	5.8
132.5°	7.4	8.1	8.1	7.4	7.4	6.6	5.1	3.7	4.4	4.4	4.4
135°	6.6	7.4	6.6	6.6	5.8	5.1	3.7	3.0	3.7	3.7	3.7
137.5°	5.8	5.8	5.8	5.1	4.4	3.7	3.0	2.2	3.0	3.0	3.0
140°	5.1	5.1	5.1	4.4	3.7	3.0	1.4	1.4	2.2	2.2	2.2
142.5°	3.7	4.4	3.7	3.0	2.2	1.4	0.7	0.7	1.4	2.2	1.4
145°	3.0	3.0	3.0	2.2	1.4	0.7	0.0	0.0	0.7	0.7	0.7
147.5°	2.2	2.2	2.2	1.4	0.7	0.7	0.0	0.0	0.0	0.7	0.7
150°	1.4	1.4	1.4	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.7	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

(END OF REPORT)