

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: P266485

Luminaire Tested: **UTLD-AF24-80-D-U-T3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
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-T3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6350.1 lumens
Efficiency: N/A
Efficacy: 76.5 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: B2 - 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

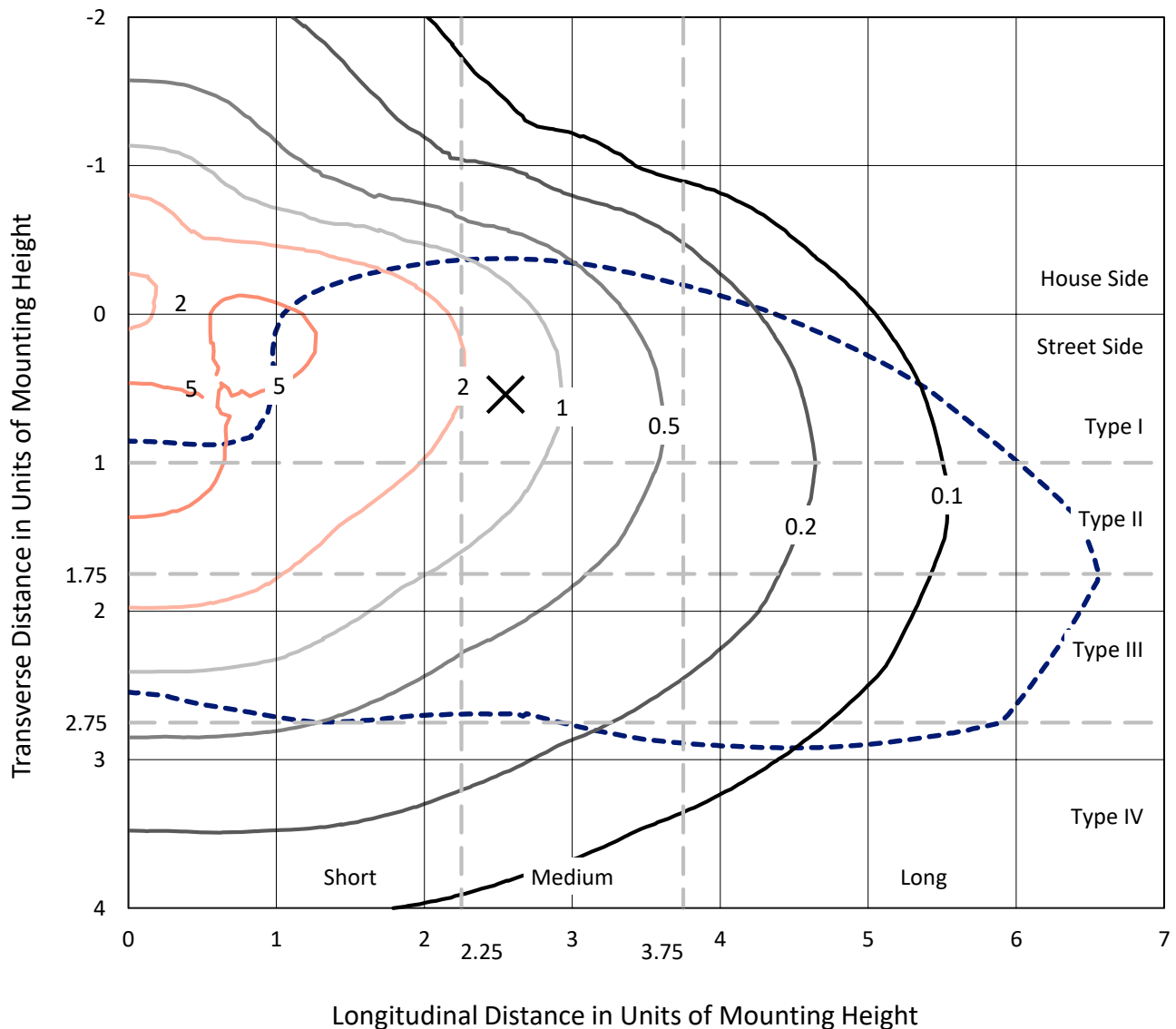


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

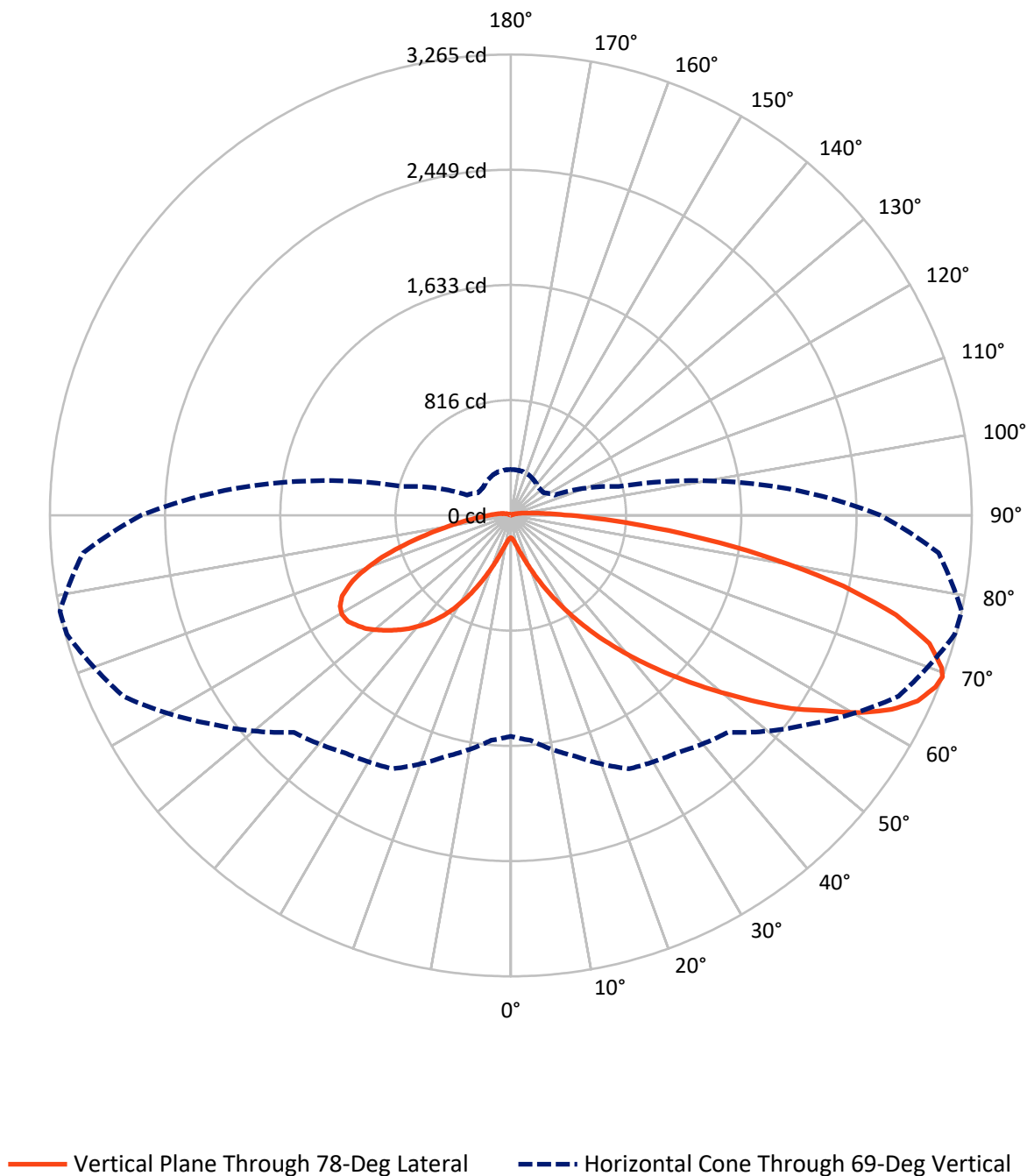


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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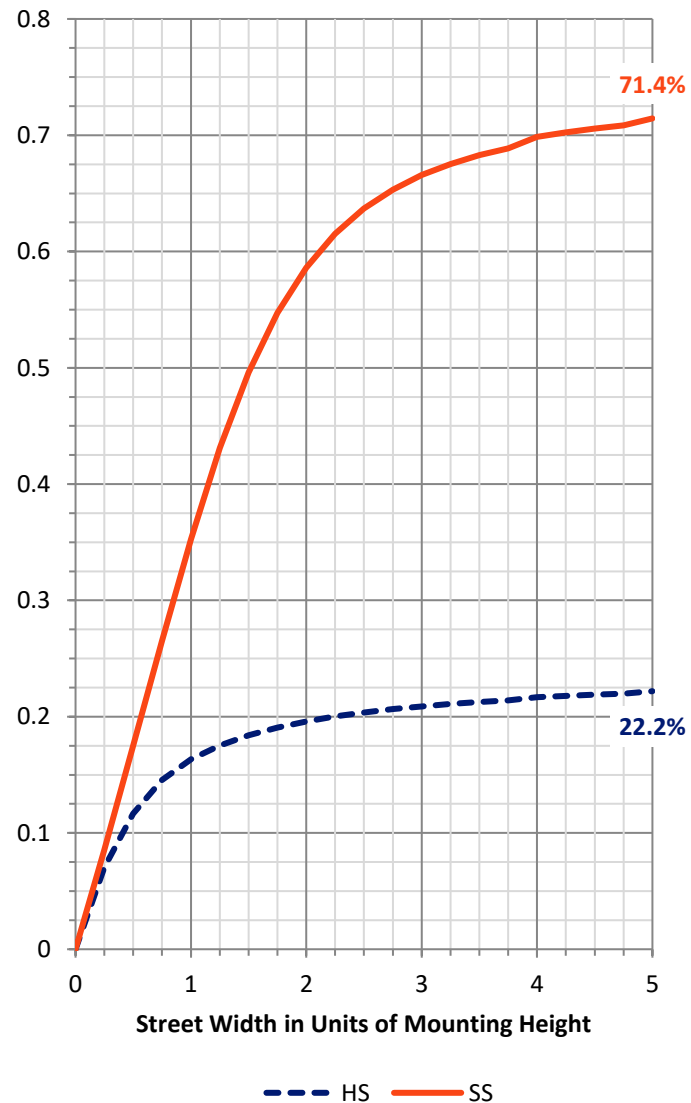
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1475.1	110.8	1585.9
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	4642.4	121.8	4764.2
	% Fixture	73.1	1.9	75.0
Total	Lumens	6117.6	232.6	6350.1
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.6	0.3
10°-20°	81.6	1.3
20°-30°	232.7	3.7
30°-40°	494.5	7.8
40°-50°	857.3	13.5
50°-60°	1283.4	20.2
60°-70°	1527.6	24.1
70°-80°	1165.2	18.3
80°-90°	457.8	7.2
90°-100°	134.4	2.1
100°-110°	54.4	0.9
110°-120°	24.5	0.4
120°-130°	11.9	0.2
130°-140°	5.6	0.1
140°-150°	1.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6117.6	96.3
0°-180°	6350.1	100.0

Coefficient of Utilization



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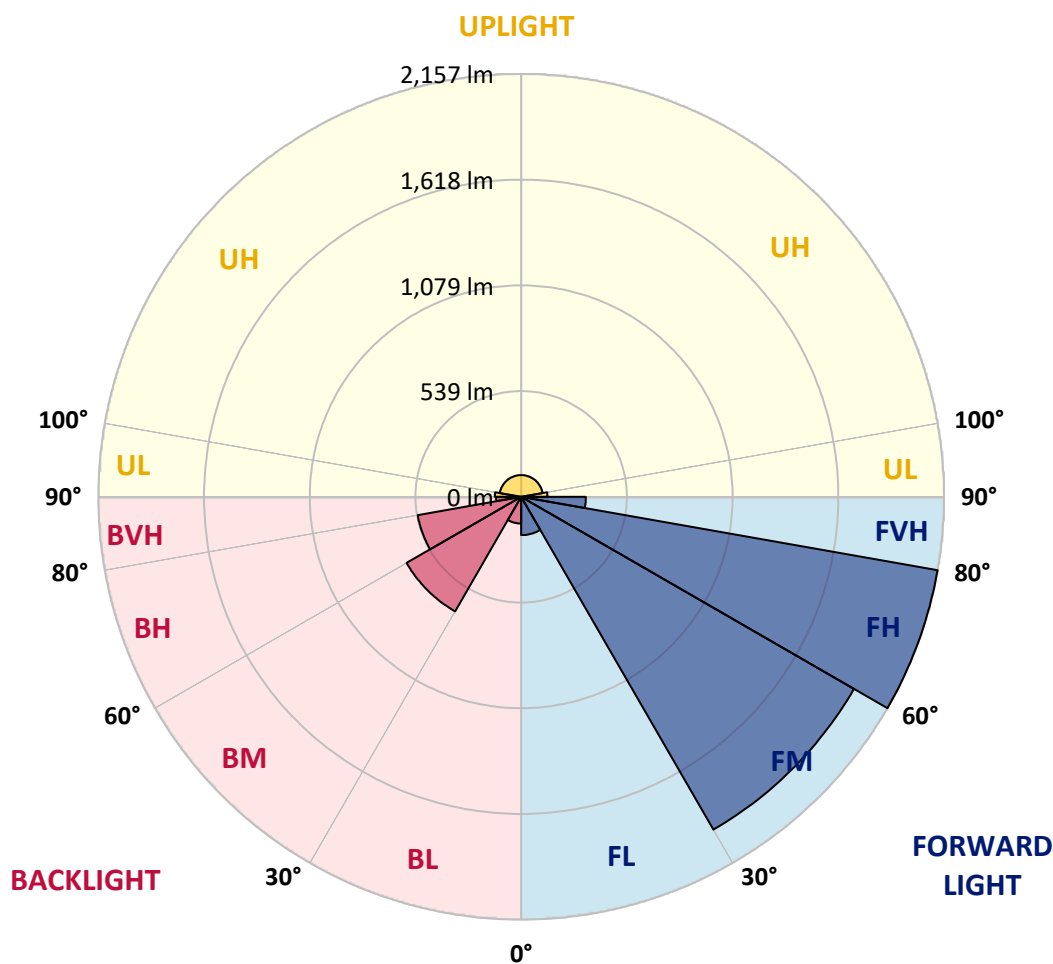
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.4	3.1			
FM	(30°-60°)	1960.2	30.9			
FH	(60°-80°)	2157.0	34.0			G2/5000
FVH	(80°-90°)	329.8	5.2			G3/500
BL	(0°-30°)	136.4	2.1	B1/500		
BM	(30°-60°)	675.0	10.6	B1/1000		
BH	(60°-80°)	535.8	8.4	B2/1000		G2/1000
BVH	(80°-90°)	127.9	2.0			G2/225
UL	(90°-100°)	134.4	2.1		U3/500	
UH	(100°-180°)	110.8	1.7		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4
2.5°	172.4	172.4	171.5	171.5	170.8	169.2	166.7	165.2	164.3	164.3	162.8
5°	191.6	191.6	190.0	190.0	187.6	185.2	181.9	178.0	175.6	174.8	172.4
7.5°	217.3	216.4	215.7	213.3	210.8	206.0	201.9	198.0	193.2	192.3	189.3
10°	250.2	248.6	248.6	245.2	240.4	234.8	227.7	222.2	217.3	216.4	213.3
12.5°	293.4	291.8	289.4	283.0	275.8	266.9	260.6	254.9	250.2	248.6	244.5
15°	344.7	344.0	337.6	329.5	316.7	305.5	298.2	293.4	291.8	290.2	286.2
17.5°	408.9	404.9	398.5	382.4	365.6	349.5	343.2	344.0	344.7	344.7	341.5
20°	480.2	478.5	468.9	447.4	424.1	404.1	398.5	403.2	409.6	409.6	408.9
22.5°	573.9	569.2	551.6	521.0	488.1	468.1	460.2	470.6	488.1	489.0	492.2
25°	676.7	675.0	647.0	602.0	560.5	536.4	530.7	543.6	575.6	578.0	586.9
27.5°	790.5	786.5	760.9	697.4	642.9	607.8	605.3	633.3	667.8	679.8	692.7
30°	928.4	924.4	875.5	802.5	735.9	689.4	690.3	726.3	779.3	789.7	808.1
32.5°	1071.0	1067.0	1016.5	925.2	837.0	779.3	780.8	834.5	895.5	908.4	928.4
35°	1235.3	1233.8	1167.3	1055.0	943.6	873.8	885.9	942.9	1018.1	1039.0	1056.6
37.5°	1413.5	1395.7	1330.7	1200.1	1060.7	984.5	993.3	1069.4	1158.5	1168.1	1185.8
40°	1592.2	1588.2	1510.4	1363.6	1195.4	1100.8	1112.8	1198.6	1294.7	1312.3	1321.9
42.5°	1780.6	1779.0	1687.6	1527.3	1334.8	1229.1	1240.2	1338.0	1445.5	1462.4	1467.1
45°	1981.0	1969.8	1879.2	1699.7	1495.9	1365.3	1385.4	1486.3	1613.0	1626.7	1629.0
47.5°	2153.3	2139.0	2070.9	1883.9	1653.2	1512.8	1528.0	1653.9	1787.0	1801.5	1795.8
50°	2309.0	2302.4	2233.5	2068.3	1825.4	1662.0	1683.6	1820.7	1970.6	1988.2	1982.6
52.5°	2410.7	2406.6	2378.6	2219.2	1977.0	1814.2	1844.7	1993.8	2171.1	2196.6	2167.0
55°	2461.3	2461.3	2466.8	2351.5	2115.7	1958.6	2005.8	2186.3	2379.4	2415.5	2373.9
57.5°	2457.3	2452.5	2498.9	2442.0	2222.2	2074.7	2167.0	2390.7	2593.4	2607.9	2586.3
60°	2365.9	2381.0	2462.9	2473.3	2298.5	2178.2	2321.0	2579.9	2798.0	2836.4	2770.7
62.5°	2219.9	2248.7	2368.2	2437.2	2319.3	2252.1	2453.2	2745.8	2987.9	3027.2	2933.4
65°	2018.8	2048.3	2195.1	2328.1	2277.7	2276.8	2543.8	2897.4	3139.4	3167.6	3041.7
67.5°	1766.2	1775.8	1944.9	2136.4	2159.7	2239.1	2587.1	3001.5	3249.3	3244.5	3080.2
69°	1564.8	1599.4	1766.2	1980.3	2052.4	2173.4	2579.0	3030.4	3255.6	3265.2	3041.7
70°	1463.1	1469.4	1633.8	1851.1	1977.0	2114.2	2551.8	3024.1	3245.2	3238.1	2997.6
72.5°	1135.9	1148.8	1299.6	1536.0	1710.1	1916.9	2418.0	2915.8	3119.5	3100.9	2770.7
75°	810.5	832.2	970.9	1192.9	1399.0	1659.4	2171.1	2683.2	2860.5	2818.0	2444.4
77.5°	553.1	575.6	679.1	882.7	1087.8	1371.7	1831.0	2331.3	2453.2	2409.2	1997.8
80°	355.2	370.5	452.1	613.4	809.0	1053.4	1458.3	1867.9	1976.2	1897.6	1527.3
82.5°	234.8	244.5	301.4	415.2	566.0	776.9	1081.5	1395.7	1443.8	1394.2	1070.3
85°	158.7	165.2	206.0	282.2	396.8	546.8	765.6	970.9	1010.1	941.2	713.6
87.5°	109.1	115.4	148.3	197.2	275.8	381.6	513.1	652.6	640.5	608.5	465.9
90°	77.8	83.5	106.5	140.2	194.8	265.4	342.3	413.0	411.2	380.1	297.3
92.5°	56.1	60.9	80.9	105.0	144.3	185.9	230.9	259.8	259.8	246.9	197.2
95°	42.5	45.8	61.8	80.2	108.2	137.9	161.2	176.3	173.2	163.5	142.7
97.5°	33.6	36.1	48.9	64.9	85.8	106.5	120.3	121.9	119.5	116.2	105.8
100°	28.0	29.6	41.0	54.4	71.3	86.5	93.1	90.5	87.3	86.5	80.9
102.5°	24.1	24.9	35.3	47.3	60.9	72.1	74.6	70.5	66.6	65.8	63.3
105°	21.6	21.6	30.5	41.0	52.1	60.1	61.8	57.0	51.4	49.6	48.9
107.5°	19.3	20.0	26.5	36.1	44.8	51.4	51.4	45.8	39.3	37.6	37.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	17.6	17.6	23.3	32.1	39.3	44.0	43.3	36.9	30.5	28.8	29.6
112.5°	16.0	16.0	20.8	28.0	34.5	37.6	36.1	29.6	24.1	23.3	23.3
115°	15.2	15.2	18.4	24.9	29.6	32.1	30.5	24.1	19.3	18.4	19.3
117.5°	13.7	14.5	16.9	21.6	25.6	28.0	25.6	20.0	16.0	15.2	16.9
120°	12.8	13.7	15.2	18.4	22.5	24.1	20.8	16.9	13.7	13.7	14.5
122.5°	12.0	12.8	13.7	16.9	19.3	20.0	17.6	13.7	11.1	12.0	12.8
125°	12.0	12.0	12.8	14.5	16.9	16.9	14.5	11.1	10.4	10.4	11.1
127.5°	11.1	11.1	11.1	12.8	14.5	14.5	12.0	9.6	8.9	9.6	10.4
130°	10.4	10.4	10.4	11.1	12.0	12.0	10.4	8.1	8.1	8.1	8.9
132.5°	9.6	9.6	9.6	9.6	10.4	9.6	8.1	6.4	7.2	7.2	8.1
135°	8.9	8.9	8.9	8.9	8.1	7.2	5.6	5.6	6.4	6.4	7.2
137.5°	8.1	8.1	8.1	7.2	6.4	5.6	4.9	4.9	5.6	5.6	6.4
140°	7.2	7.2	7.2	5.6	4.9	4.0	3.2	3.2	4.9	4.9	4.9
142.5°	6.4	6.4	5.6	4.9	4.0	2.4	1.5	2.4	3.2	3.2	4.0
145°	4.9	4.9	4.9	4.0	2.4	1.5	0.8	1.5	2.4	2.4	3.2
147.5°	4.0	4.0	4.0	3.2	1.5	0.8	0.8	0.8	1.5	1.5	2.4
150°	3.2	3.2	2.4	2.4	0.8	0.0	0.0	0.8	0.8	1.5	1.5
152.5°	2.4	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	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°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4
2.5°	162.0	161.2	160.3	158.7	157.9	156.3	154.7	153.2	153.2	153.2	152.4
5°	171.5	170.0	167.5	164.3	162.0	159.4	157.2	154.7	153.9	153.2	153.2
7.5°	186.8	185.2	180.4	176.3	171.5	168.3	164.3	162.8	161.2	160.3	160.3
10°	210.1	206.8	200.4	194.0	188.5	181.9	178.0	175.6	173.2	172.4	173.2
12.5°	241.4	235.6	227.7	218.1	208.4	200.4	195.7	193.2	192.3	191.6	191.6
15°	284.7	280.6	264.6	247.8	234.1	222.9	216.4	214.1	218.8	220.4	220.4
17.5°	340.7	333.5	314.2	291.1	262.9	246.1	241.4	245.2	249.3	254.1	254.9
20°	410.4	398.5	373.5	336.0	298.2	274.3	270.2	275.1	284.7	291.1	291.8
22.5°	486.6	478.5	440.1	384.0	333.5	305.5	296.6	303.8	319.1	327.9	328.7
25°	584.4	571.6	513.9	436.9	370.5	331.0	320.6	331.0	349.5	363.2	364.0
27.5°	691.1	671.0	595.7	489.8	401.6	352.8	339.9	353.6	378.4	394.4	396.1
30°	801.6	773.6	676.7	539.5	429.7	367.1	353.6	370.5	398.5	417.0	419.2
32.5°	918.0	884.3	751.3	582.8	448.2	375.2	360.8	380.8	410.4	429.7	432.2
35°	1036.6	994.2	821.0	614.1	457.0	376.7	361.6	384.0	413.0	433.0	435.3
37.5°	1161.7	1099.2	881.9	635.7	458.6	372.0	358.3	380.8	408.1	426.5	428.1
40°	1282.7	1201.8	933.2	645.3	452.9	364.8	350.3	373.5	396.8	410.4	412.1
42.5°	1415.8	1312.3	978.1	645.3	441.7	356.0	341.5	363.2	381.6	391.2	392.0
45°	1551.4	1423.0	1013.4	637.3	427.4	344.7	332.7	352.0	366.4	370.5	370.5
47.5°	1707.6	1539.2	1046.3	623.8	411.2	333.5	323.8	341.5	352.0	352.0	352.8
50°	1864.7	1661.1	1071.0	604.5	392.7	323.8	316.7	333.5	341.5	336.8	336.8
52.5°	2034.8	1786.2	1094.3	579.6	376.0	315.0	311.8	329.5	335.1	327.9	326.3
55°	2206.2	1904.0	1099.2	548.3	356.7	307.8	309.5	326.3	332.0	323.8	323.1
57.5°	2389.9	2025.0	1098.4	512.4	339.9	302.2	307.0	325.5	331.0	323.1	322.3
60°	2531.8	2120.4	1072.7	474.7	324.6	296.6	306.2	324.6	331.0	324.6	324.6
62.5°	2660.1	2176.7	1024.5	434.5	310.3	292.6	303.8	323.1	329.5	326.3	326.3
65°	2718.6	2192.7	950.9	395.3	298.2	287.7	302.2	320.6	327.9	327.2	327.9
67.5°	2682.5	2118.2	853.0	360.0	287.0	282.2	298.2	316.7	324.6	326.3	327.2
69°	2619.9	2034.8	792.0	341.5	280.6	278.1	295.1	312.7	322.3	324.6	324.6
70°	2564.7	1963.3	741.6	330.2	275.8	275.8	293.4	310.3	319.8	322.3	323.1
72.5°	2296.8	1730.9	626.9	300.7	265.4	267.8	285.4	302.2	312.7	315.0	315.0
75°	1968.1	1419.9	510.6	275.8	253.3	258.9	275.8	291.8	301.4	303.8	303.1
77.5°	1567.4	1100.8	414.5	254.1	239.7	245.2	262.9	278.1	287.7	289.4	286.2
80°	1169.8	802.5	336.0	231.8	223.7	230.9	246.9	259.8	269.4	270.2	265.4
82.5°	810.5	579.6	273.4	210.1	206.0	211.6	226.1	237.3	246.1	243.7	241.4
85°	540.3	397.6	223.7	185.9	185.9	192.3	202.8	210.1	218.8	215.7	210.8
87.5°	356.0	274.3	183.7	162.8	164.3	170.0	178.0	180.4	188.5	185.9	180.4
90°	241.4	197.2	150.7	140.2	142.7	148.3	152.4	152.4	157.9	153.9	151.5
92.5°	171.5	150.7	125.9	121.0	123.4	128.3	129.0	125.9	130.7	128.3	125.0
95°	129.0	118.7	106.5	104.3	107.4	110.6	109.9	105.0	106.5	105.0	104.3
97.5°	100.3	96.9	90.5	89.0	92.2	94.6	93.1	87.3	88.3	86.5	85.0
100°	80.9	78.5	77.0	77.0	79.4	80.2	77.8	72.9	72.1	69.8	70.5
102.5°	64.0	64.0	64.9	66.6	68.1	68.1	64.9	60.9	59.3	57.0	57.0
105°	50.6	51.4	54.4	55.3	57.0	57.0	53.7	50.6	47.3	44.8	44.8
107.5°	39.3	41.0	44.0	46.5	48.1	47.3	44.8	41.7	37.6	35.3	35.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.4	32.9	36.1	39.3	40.1	40.1	37.6	33.6	28.8	28.0	28.0
112.5°	25.6	26.5	30.5	32.9	33.6	33.6	31.4	28.0	23.3	22.5	22.5
115°	20.8	21.6	24.9	27.3	28.0	28.0	26.5	23.3	18.4	18.4	18.4
117.5°	17.6	18.4	20.8	23.3	24.1	24.1	21.6	18.4	15.2	15.2	15.2
120°	15.2	16.0	17.6	19.3	20.0	20.0	18.4	15.2	12.8	12.8	12.8
122.5°	13.7	14.5	15.2	16.9	17.6	17.6	15.2	12.0	11.1	11.1	11.1
125°	12.0	12.8	13.7	14.5	15.2	14.5	12.8	10.4	9.6	10.4	10.4
127.5°	10.4	11.1	12.0	12.0	12.8	12.0	10.4	8.9	8.1	8.9	8.9
130°	9.6	9.6	10.4	10.4	11.1	10.4	8.9	7.2	7.2	8.1	8.1
132.5°	8.9	8.9	8.9	8.9	9.6	8.9	7.2	5.6	6.4	7.2	7.2
135°	7.2	7.2	8.1	7.2	8.1	6.4	5.6	4.9	5.6	6.4	6.4
137.5°	6.4	6.4	6.4	6.4	5.6	5.6	4.0	4.0	4.9	5.6	4.9
140°	5.6	5.6	5.6	4.9	4.9	4.0	3.2	3.2	4.0	4.0	4.0
142.5°	4.0	4.0	4.0	4.0	3.2	2.4	1.5	2.4	2.4	3.2	3.2
145°	3.2	3.2	3.2	2.4	1.5	1.5	0.8	1.5	1.5	2.4	2.4
147.5°	2.4	2.4	2.4	1.5	1.5	0.8	0.8	0.8	1.5	1.5	1.5
150°	1.5	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.8	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)