

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: P266444

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
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-T2U-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5850.6 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

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

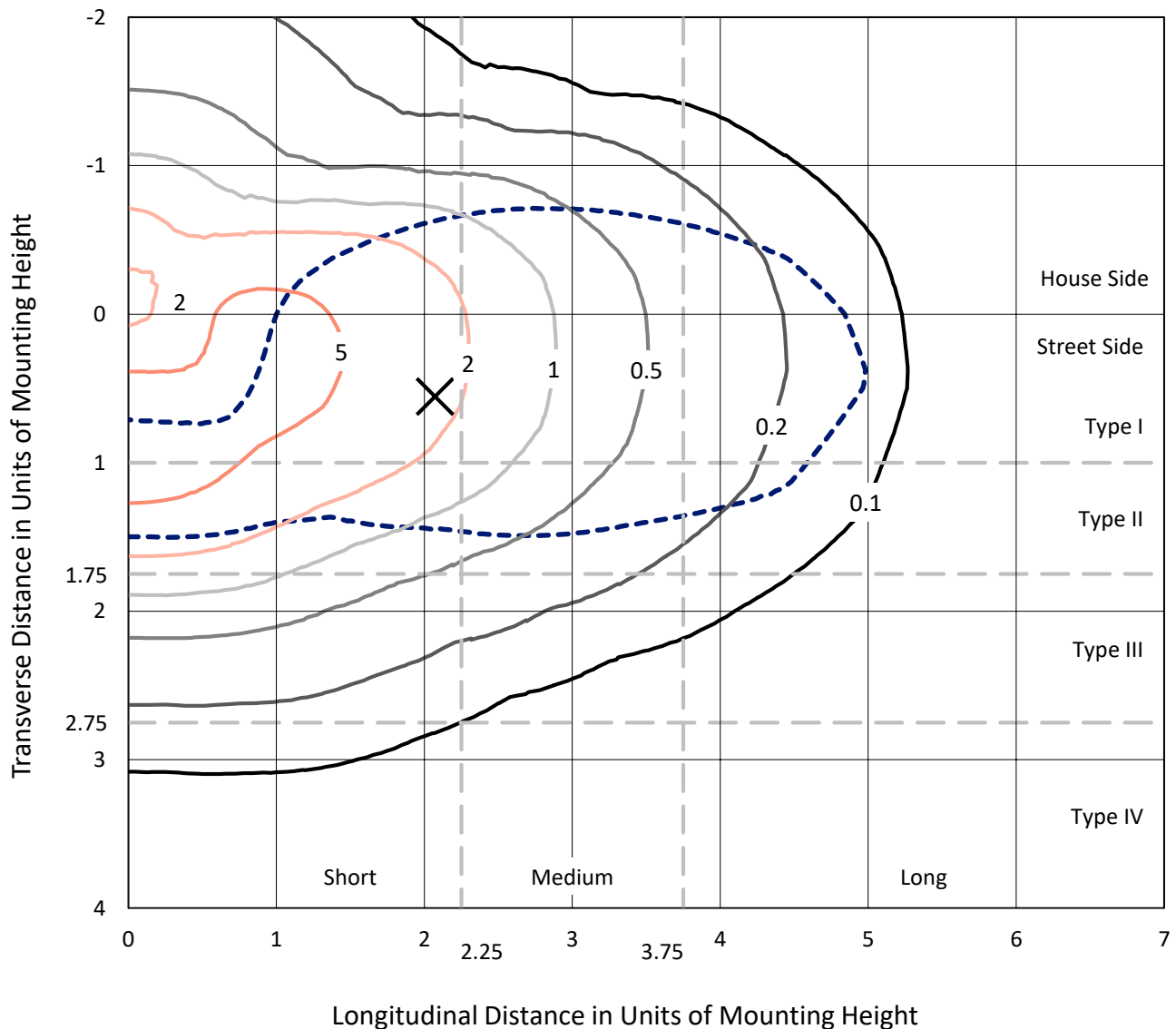


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

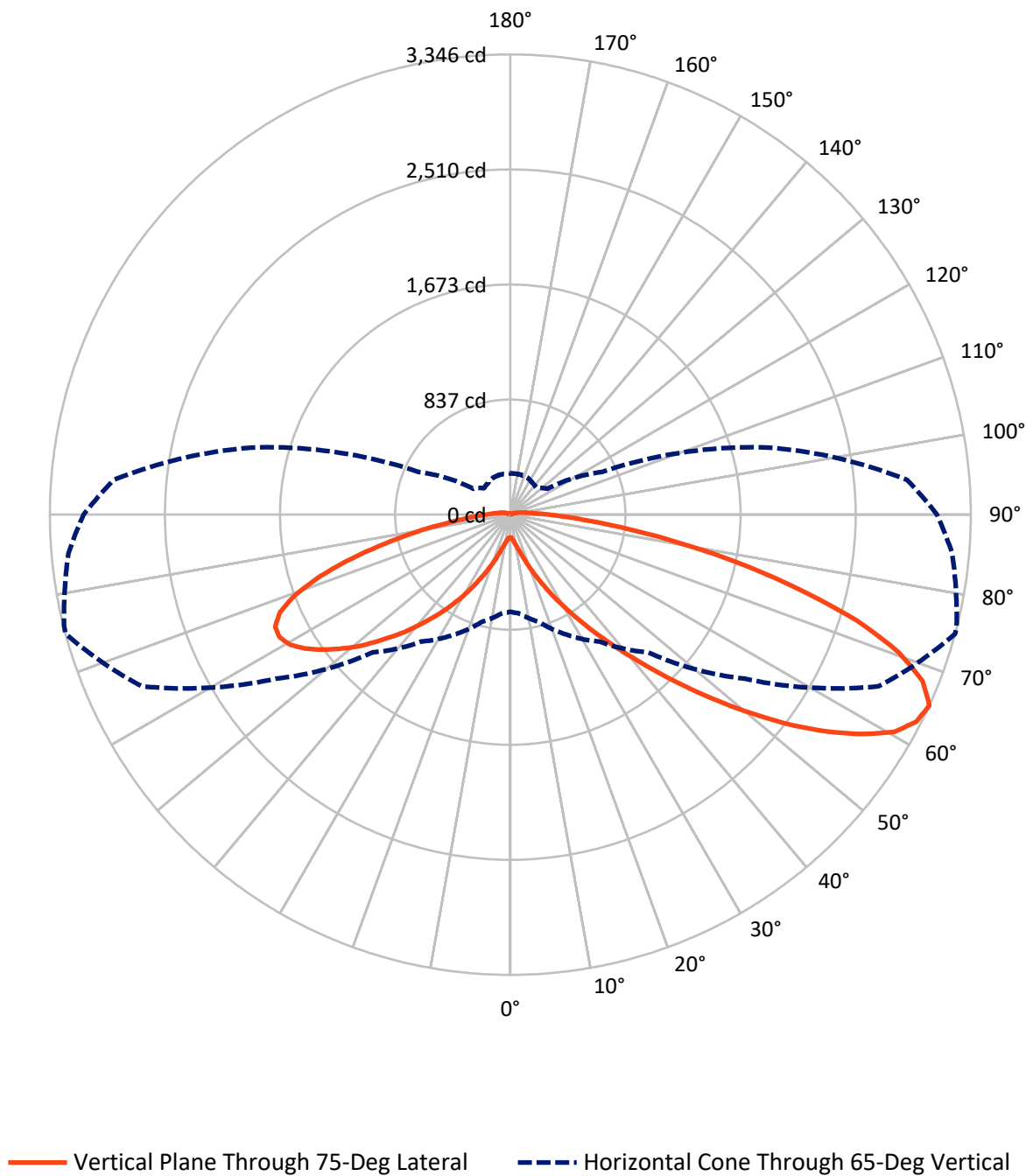


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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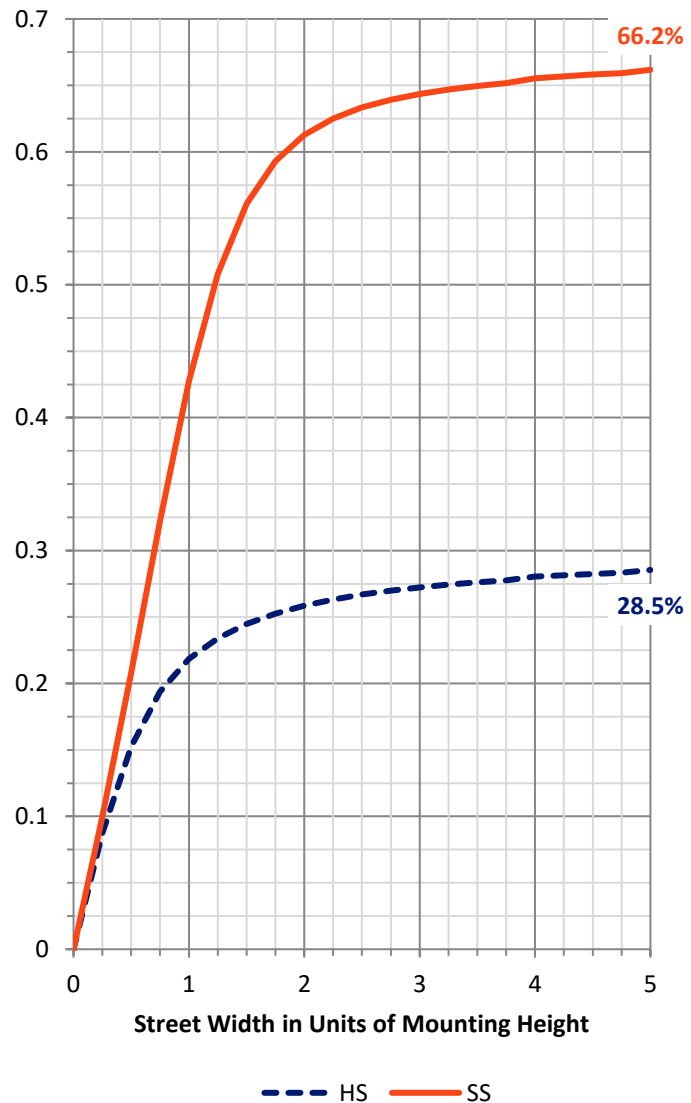
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.5	103.6	1831.1
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	3926.3	93.2	4019.5
	% Fixture	67.1	1.6	68.7
Total	Lumens	5653.8	196.8	5850.6
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.3	0.3
10°-20°	84.6	1.4
20°-30°	246.7	4.2
30°-40°	553.4	9.5
40°-50°	984.8	16.8
50°-60°	1338.3	22.9
60°-70°	1299.6	22.2
70°-80°	819.2	14.0
80°-90°	308.9	5.3
90°-100°	105.2	1.8
100°-110°	47.6	0.8
110°-120°	22.9	0.4
120°-130°	12.1	0.2
130°-140°	6.3	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°	5653.8	96.6
0°-180°	5850.6	100.0

Coefficient of Utilization



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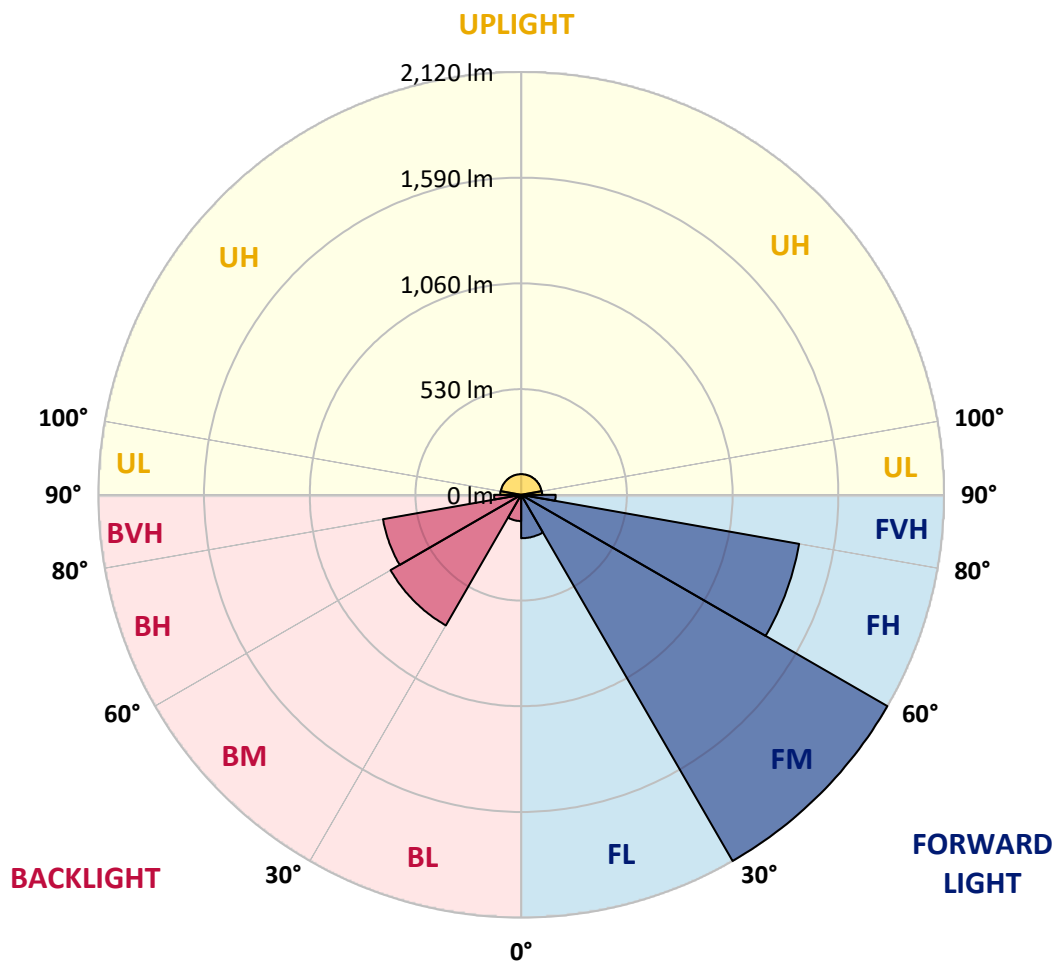
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.9	3.7			
FM	(30°-60°)	2120.3	36.2			
FH	(60°-80°)	1415.3	24.2			G1/1800
FVH	(80°-90°)	172.9	3.0			G2/225
BL	(0°-30°)	131.8	2.3	B1/500		
BM	(30°-60°)	756.2	12.9	B1/1000		
BH	(60°-80°)	703.5	12.0	B2/1000		G2/1000
BVH	(80°-90°)	136.0	2.3			G2/225
UL	(90°-100°)	105.2	1.8		U3/500	
UH	(100°-180°)	103.6	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4
2.5°	181.0	180.3	180.3	180.3	178.9	177.3	175.1	173.6	171.4	170.7	170.0
5°	200.1	200.1	199.3	198.5	197.1	193.4	189.8	186.8	183.2	182.4	179.5
7.5°	230.1	229.3	228.6	224.9	222.8	217.6	211.8	207.4	200.9	200.9	196.4
10°	269.6	268.1	266.0	262.3	254.3	247.7	241.0	233.0	226.5	225.7	219.0
12.5°	316.6	316.6	313.6	306.3	296.0	286.5	275.5	266.6	258.0	257.2	251.3
15°	381.1	381.8	372.2	361.3	346.6	332.0	318.0	309.9	299.7	301.9	293.8
17.5°	460.9	459.5	451.4	429.4	405.1	386.1	370.0	361.3	353.2	353.9	348.1
20°	561.4	559.9	545.9	516.5	477.0	448.4	429.4	423.6	419.1	417.0	411.1
22.5°	685.0	677.9	650.0	611.8	564.1	523.2	502.6	493.9	492.5	493.1	487.3
25°	823.6	820.6	785.5	724.7	663.0	610.4	578.9	577.4	579.5	576.0	576.0
27.5°	992.1	984.1	943.0	858.8	770.8	707.9	671.2	667.5	677.9	674.8	670.5
30°	1189.3	1176.8	1121.1	1013.4	900.6	816.3	773.8	773.8	784.8	784.8	783.3
32.5°	1395.1	1392.9	1306.5	1180.5	1047.1	935.7	899.1	893.2	904.1	910.1	902.7
35°	1626.7	1609.9	1510.1	1367.3	1195.0	1072.8	1027.3	1035.3	1044.1	1044.9	1033.1
37.5°	1862.5	1845.7	1731.5	1554.8	1354.0	1222.2	1175.3	1181.1	1195.0	1195.0	1179.7
40°	2064.8	2046.5	1934.4	1750.4	1530.0	1388.5	1338.7	1355.5	1365.1	1368.7	1343.9
42.5°	2224.6	2211.4	2110.9	1923.5	1699.2	1555.5	1523.3	1551.3	1560.7	1568.0	1532.1
45°	2313.9	2303.0	2233.4	2064.0	1841.3	1722.6	1728.5	1762.2	1780.5	1772.4	1733.5
47.5°	2327.9	2319.1	2280.3	2151.4	1971.8	1883.0	1938.8	1989.3	2017.2	2018.0	1951.9
50°	2241.5	2245.0	2245.9	2171.8	2045.0	2013.6	2135.2	2248.7	2269.9	2258.2	2180.5
52.5°	2073.6	2071.4	2113.9	2113.9	2058.2	2094.2	2300.0	2502.9	2532.3	2529.4	2421.7
55°	1824.5	1826.8	1905.8	1968.0	1988.6	2110.9	2434.9	2733.1	2781.4	2777.0	2658.4
57.5°	1514.5	1535.8	1633.3	1752.8	1845.7	2039.2	2497.2	2930.9	3010.0	3010.8	2867.2
60°	1213.4	1235.3	1349.0	1502.1	1636.9	1900.8	2455.3	3033.4	3207.2	3199.1	3046.7
62.5°	927.0	949.6	1058.8	1233.3	1389.9	1679.4	2313.2	3054.7	3312.0	3306.8	3175.7
65°	705.6	720.4	808.1	961.4	1126.3	1414.9	2079.4	2953.6	3346.4	3342.8	3223.3
67.5°	527.6	534.1	617.7	741.6	884.4	1144.5	1756.4	2710.4	3232.1	3235.8	3169.0
70°	405.9	410.3	471.2	578.9	685.0	894.6	1422.9	2359.4	2991.7	3001.2	2999.0
72.5°	322.4	329.0	377.4	455.8	532.6	677.9	1100.6	1908.8	2635.6	2655.4	2714.8
75°	266.0	273.4	309.9	367.9	423.6	515.8	800.1	1464.7	2166.7	2208.5	2340.4
77.5°	219.8	227.1	258.0	303.4	337.9	394.1	586.1	1082.9	1702.1	1719.7	1894.0
80°	180.3	186.8	214.7	249.9	274.8	307.8	427.1	760.5	1241.3	1263.2	1433.2
82.5°	143.5	149.5	175.1	203.6	224.1	246.9	316.6	520.9	864.6	880.8	992.8
85°	110.6	116.5	138.5	163.4	181.0	199.3	242.5	362.6	572.3	591.4	673.4
87.5°	82.9	87.9	106.3	127.5	145.9	161.2	186.8	250.5	381.8	397.9	436.7
90°	60.8	64.5	80.6	96.7	113.5	130.4	146.6	183.2	254.3	260.9	287.9
92.5°	45.5	47.6	60.8	74.6	90.9	105.6	115.8	134.8	178.9	179.5	198.5
95°	33.6	35.9	46.9	58.6	72.6	86.4	95.3	104.8	131.2	133.4	145.0
97.5°	27.0	27.8	37.4	47.6	59.4	71.1	78.4	83.5	100.4	102.5	110.6
100°	22.6	23.4	31.5	40.3	50.6	60.8	65.9	68.1	79.1	81.3	87.1
102.5°	19.9	19.9	27.0	35.2	43.9	51.4	54.9	56.5	63.8	63.8	68.1
105°	17.5	17.5	23.4	30.8	38.1	44.6	46.9	46.9	49.9	50.6	52.8
107.5°	16.1	16.1	21.3	27.8	33.6	38.8	40.3	38.8	39.5	39.5	41.1
110°	14.6	14.6	18.3	25.0	30.1	33.6	34.5	33.0	30.8	30.8	32.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	13.1	14.0	16.9	22.0	26.4	30.1	30.1	27.8	24.2	24.2	25.6
115°	12.4	12.4	15.5	19.9	23.4	26.4	26.4	23.4	19.9	19.0	20.5
117.5°	11.7	11.7	13.1	17.5	21.3	23.4	23.4	19.9	16.1	16.1	17.5
120°	11.0	11.0	12.4	16.1	19.0	21.3	20.5	17.5	14.0	14.0	15.5
122.5°	11.0	11.0	11.7	14.6	16.9	18.3	17.5	14.6	11.7	11.7	13.1
125°	10.3	10.3	11.0	13.1	15.5	16.9	15.5	12.4	11.0	11.0	11.7
127.5°	10.3	10.3	10.3	11.7	14.0	14.6	14.0	11.0	9.5	9.5	11.0
130°	9.5	9.5	10.3	11.0	12.4	13.1	11.7	9.5	8.9	8.9	10.3
132.5°	9.5	9.5	9.5	9.5	10.3	11.0	9.5	7.4	8.1	8.1	8.9
135°	8.9	8.9	8.9	8.9	9.5	9.5	8.1	6.6	7.4	7.4	8.1
137.5°	8.1	8.1	8.1	8.1	8.1	7.4	6.6	5.8	6.6	6.6	7.4
140°	7.4	7.4	7.4	6.6	5.8	5.8	5.1	4.4	5.1	5.1	5.8
142.5°	6.6	6.6	6.6	5.8	5.1	4.4	3.7	3.7	4.4	4.4	5.1
145°	5.8	5.8	5.1	4.4	3.7	3.0	2.2	3.0	3.7	3.7	4.4
147.5°	4.4	4.4	4.4	3.7	2.2	1.4	1.4	2.2	3.0	3.0	3.0
150°	3.7	3.7	3.7	3.0	1.4	0.7	0.7	1.4	1.4	1.4	2.2
152.5°	2.2	2.2	2.2	2.2	0.7	0.0	0.0	0.7	1.4	1.4	1.4
155°	1.4	1.4	1.4	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.7
160°	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.0
162.5°	0.0	0.0	0.0	0.7	0.7	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°	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4
2.5°	169.3	168.5	167.1	165.6	164.1	162.7	161.2	160.4	159.0	159.0	159.0
5°	178.0	175.9	173.0	170.0	167.1	164.8	162.7	160.4	159.0	158.3	157.6
7.5°	194.2	191.2	186.0	181.6	176.5	172.1	168.5	165.6	164.1	163.4	163.4
10°	216.1	212.4	205.9	197.1	191.2	184.6	178.9	175.1	172.1	171.4	170.7
12.5°	245.4	241.9	230.9	221.3	210.4	200.1	193.4	189.1	186.8	186.0	186.0
15°	287.2	282.8	265.3	249.1	231.6	219.0	210.4	206.6	207.4	209.6	207.4
17.5°	339.3	332.6	312.2	285.8	259.4	240.3	232.3	233.0	236.0	238.1	237.4
20°	403.8	394.1	365.6	328.3	292.4	266.6	258.6	259.4	263.1	269.6	269.0
22.5°	479.2	464.6	428.0	377.4	326.9	297.5	282.8	285.0	293.0	299.7	299.7
25°	562.0	548.9	496.9	429.4	366.4	323.1	304.9	307.8	319.4	326.9	329.0
27.5°	660.2	639.7	575.2	487.3	403.8	345.8	323.1	324.6	339.3	348.8	350.2
30°	764.9	740.8	660.2	545.1	436.7	363.5	334.1	337.0	353.2	364.2	366.4
32.5°	882.9	854.4	748.8	605.9	467.5	373.6	340.0	343.0	359.9	372.2	373.6
35°	1014.0	972.3	844.0	661.6	488.0	377.4	340.0	343.6	359.9	372.2	374.5
37.5°	1147.5	1100.6	937.1	715.1	500.4	374.5	334.9	339.3	353.9	365.6	367.9
40°	1302.8	1242.7	1039.0	759.1	504.8	366.4	326.1	331.1	343.6	353.2	354.7
42.5°	1480.0	1395.1	1146.0	796.4	498.3	356.1	317.3	323.1	333.5	340.0	340.6
45°	1664.0	1561.4	1250.0	825.8	488.8	343.6	308.5	315.0	323.8	325.4	326.9
47.5°	1862.5	1748.3	1363.5	843.4	471.9	330.4	301.9	308.5	314.3	313.6	314.3
50°	2082.5	1941.7	1479.4	850.7	452.8	319.4	296.8	304.0	308.5	304.9	304.9
52.5°	2297.1	2153.4	1584.9	853.6	431.5	309.1	293.0	301.9	304.0	300.5	300.5
55°	2525.8	2349.2	1690.4	845.6	410.3	301.1	291.6	301.1	302.5	297.5	297.5
57.5°	2736.7	2558.0	1785.7	833.1	390.6	293.8	289.4	300.5	301.9	297.5	298.1
60°	2930.9	2735.2	1859.8	812.5	369.4	286.5	287.9	300.5	301.9	299.0	300.5
62.5°	3049.7	2852.5	1898.5	780.4	348.8	279.9	285.8	299.0	301.9	299.7	301.1
65°	3100.9	2894.2	1893.4	734.2	329.0	271.8	281.3	296.0	299.7	299.7	301.1
67.5°	3062.1	2856.3	1818.6	674.8	310.6	263.8	275.5	290.2	295.4	296.8	299.0
70°	2917.8	2698.7	1668.4	600.1	291.0	254.9	268.1	282.1	287.9	291.0	292.4
72.5°	2629.8	2434.1	1455.3	525.4	270.4	244.0	257.2	270.4	276.9	280.6	280.6
75°	2264.2	2068.4	1198.0	446.3	251.3	231.6	244.0	254.9	262.3	266.0	264.6
77.5°	1821.6	1639.0	930.6	365.6	230.9	216.9	228.6	238.1	244.0	246.9	243.4
80°	1349.8	1233.3	699.1	301.9	210.4	200.1	209.6	217.6	224.1	223.5	220.5
82.5°	957.0	847.0	489.4	250.5	189.8	181.6	189.1	194.2	198.5	197.1	192.0
85°	637.4	565.7	345.8	204.5	168.5	162.0	166.4	169.3	171.4	167.9	164.1
87.5°	414.7	369.4	249.1	168.5	145.9	141.5	143.5	144.4	145.0	141.5	137.0
90°	271.1	252.1	185.4	139.1	125.4	122.3	122.3	119.5	120.2	115.8	111.4
92.5°	191.2	179.5	144.4	114.4	107.0	104.8	104.1	100.4	99.6	95.3	92.3
95°	142.9	137.8	116.5	96.7	90.9	90.1	88.7	85.0	82.0	77.7	76.1
97.5°	111.4	109.1	95.9	82.9	78.4	77.0	76.1	71.9	69.6	65.1	63.8
100°	88.7	88.7	80.6	71.1	67.5	66.7	65.9	61.5	59.4	54.9	54.2
102.5°	71.1	71.9	67.5	61.5	58.6	57.1	55.7	52.8	49.0	46.2	46.2
105°	55.7	57.1	55.7	52.0	50.6	49.0	47.6	44.6	41.1	38.1	38.1
107.5°	43.9	45.5	45.5	44.6	42.5	41.9	41.1	37.4	34.5	31.5	31.5
110°	33.6	35.9	37.4	37.4	37.4	35.9	34.5	32.2	28.6	26.4	26.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27.0	28.6	30.8	31.5	31.5	31.5	30.1	26.4	23.4	22.0	22.6
115°	22.0	23.4	25.6	27.0	27.0	27.0	25.0	22.6	19.9	19.0	19.0
117.5°	18.3	19.9	21.3	23.4	23.4	23.4	22.0	19.0	16.1	16.1	16.1
120°	16.1	16.9	19.0	19.9	20.5	20.5	19.0	16.1	14.0	14.0	14.6
122.5°	14.0	14.6	16.1	17.5	18.3	17.5	16.1	13.1	11.7	12.4	12.4
125°	12.4	13.1	14.0	15.5	16.1	15.5	14.0	11.0	10.3	11.0	11.0
127.5°	11.7	11.7	12.4	13.1	14.0	13.1	11.7	9.5	8.9	10.3	10.3
130°	10.3	11.0	11.0	11.7	11.7	11.7	10.3	8.1	8.1	8.9	8.9
132.5°	9.5	9.5	9.5	10.3	10.3	9.5	8.1	6.6	7.4	8.1	8.1
135°	8.1	8.9	8.9	8.9	8.9	8.1	6.6	5.8	6.6	7.4	7.4
137.5°	7.4	7.4	7.4	7.4	7.4	6.6	5.8	5.1	5.8	5.8	5.8
140°	5.8	6.6	6.6	5.8	5.8	5.1	4.4	3.7	4.4	5.1	5.1
142.5°	5.1	5.1	5.1	5.1	4.4	3.7	3.0	3.0	3.7	3.7	3.7
145°	4.4	4.4	4.4	3.7	3.0	3.0	2.2	2.2	3.0	3.0	3.7
147.5°	3.0	3.0	3.0	3.0	2.2	2.2	1.4	1.4	2.2	2.2	2.2
150°	2.2	2.2	2.2	2.2	1.4	1.4	1.4	0.7	1.4	1.4	1.4
152.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	1.4	1.4	0.7	0.7	0.7	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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)