

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: P266542

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
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-T2U-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6472.9 lumens
Efficiency: N/A
Efficacy: 67.4 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 - U4 - 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



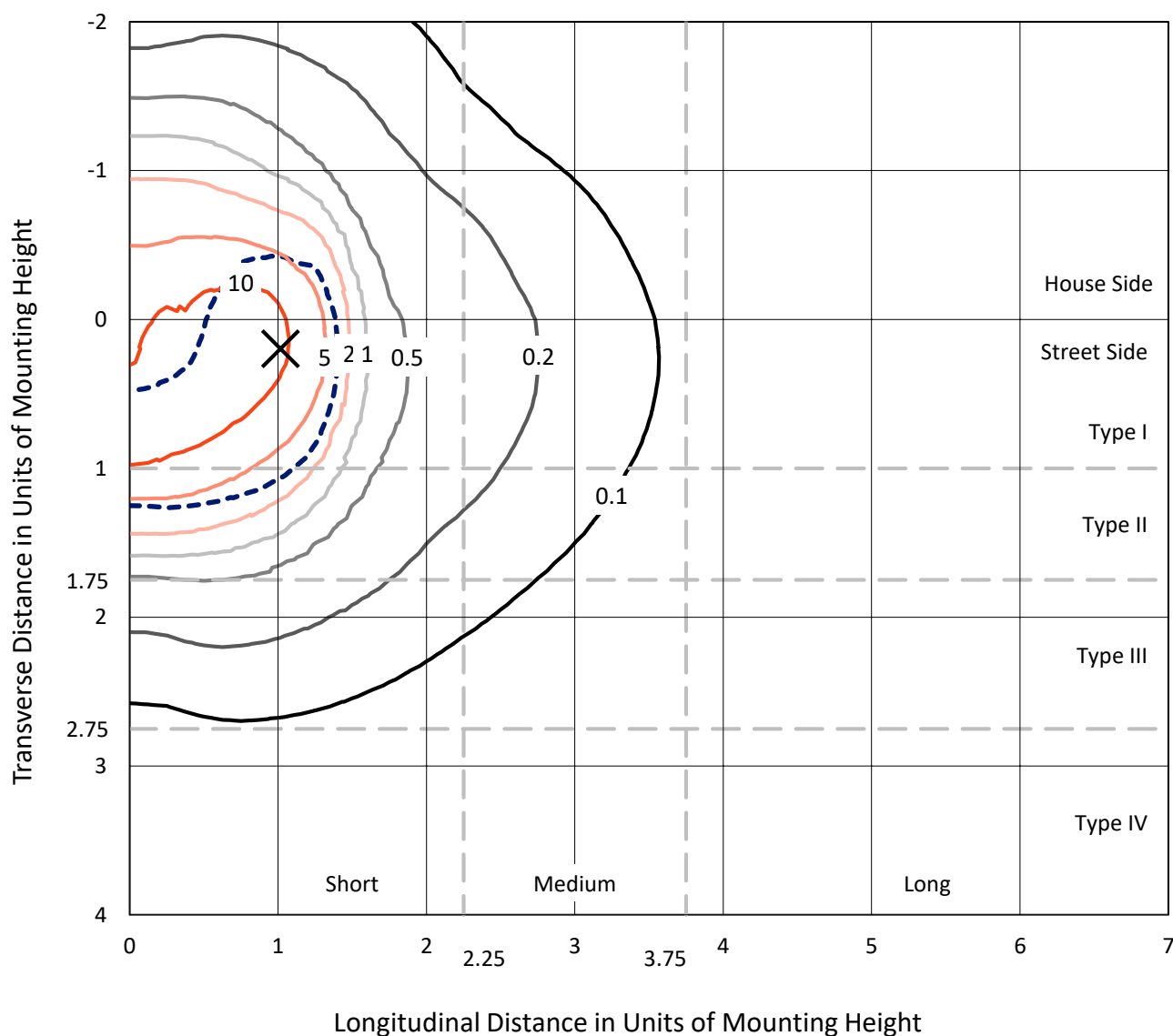
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

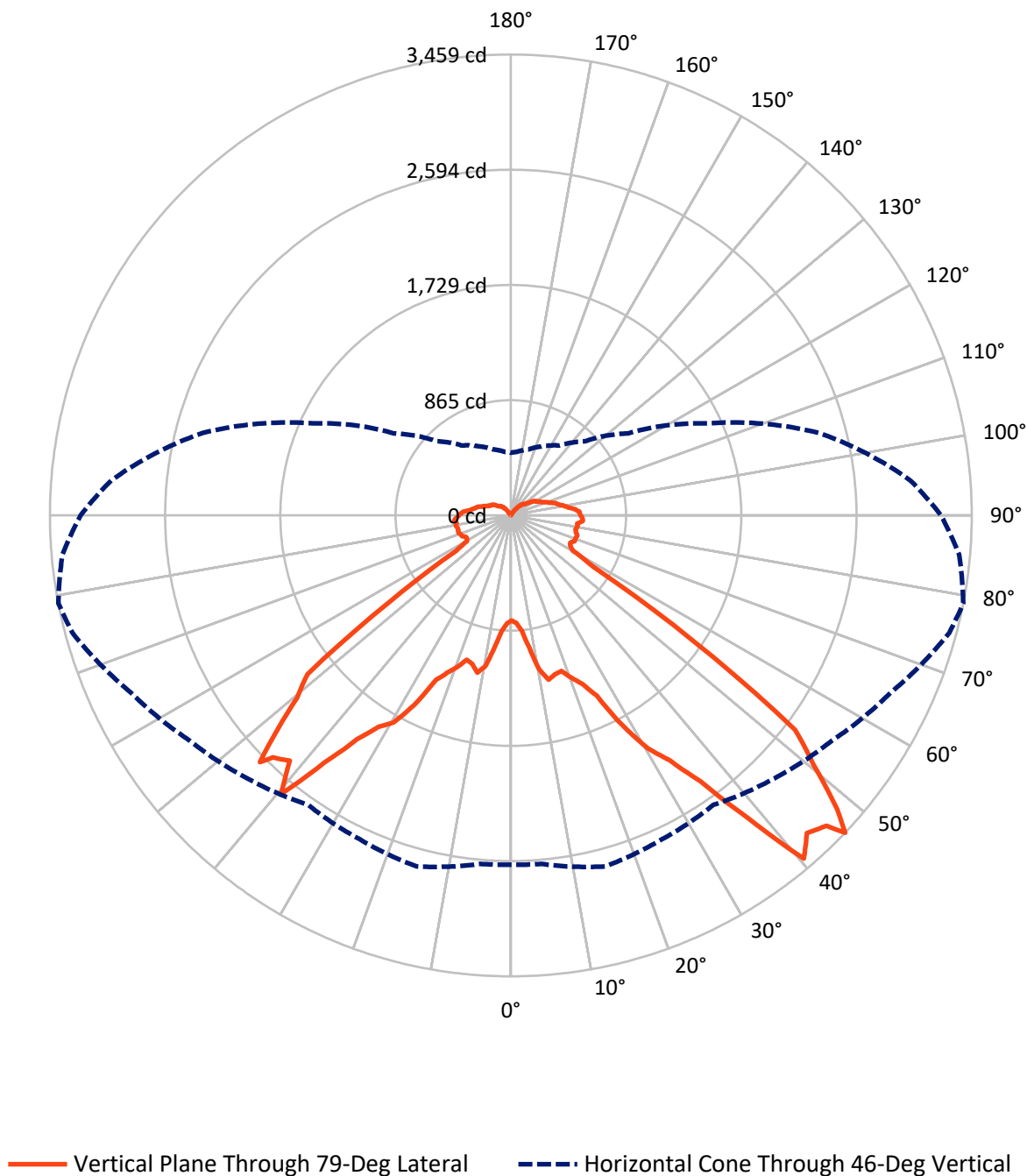


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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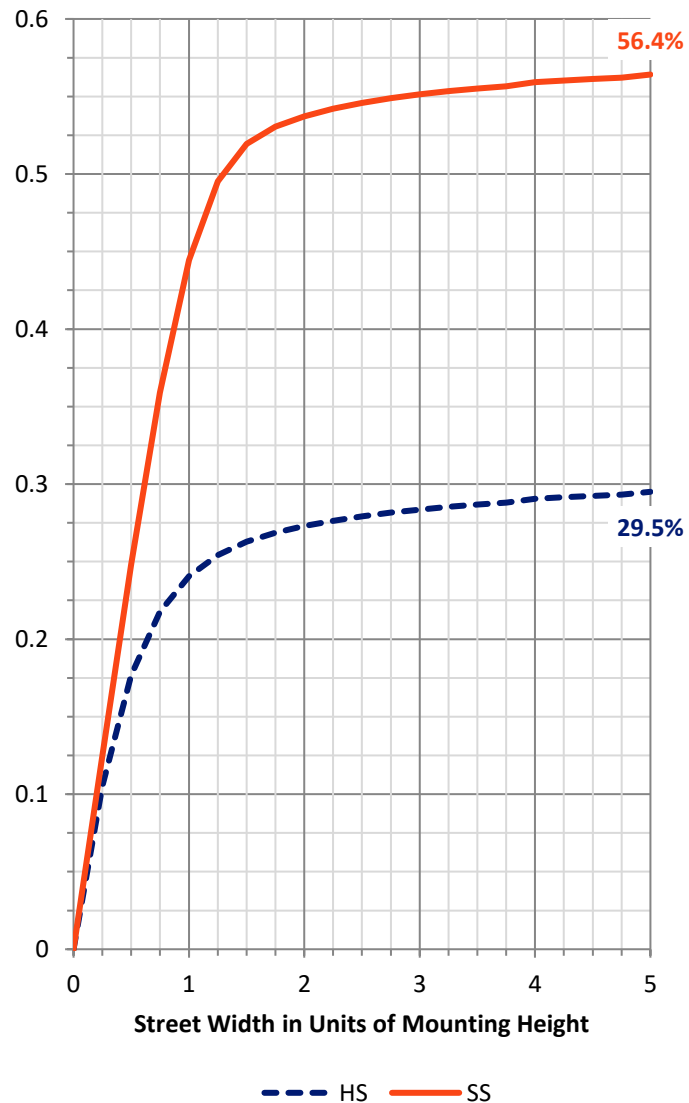
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1973.1	245.4	2218.5
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	3722.0	532.4	4254.4
	% Fixture	57.5	8.2	65.7
Total	Lumens	5695.1	777.8	6472.9
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.3
10°-20°	307.5	4.8
20°-30°	621.3	9.6
30°-40°	1137.4	17.6
40°-50°	1571.7	24.3
50°-60°	1003.2	15.5
60°-70°	359.4	5.6
70°-80°	322.7	5.0
80°-90°	286.9	4.4
90°-100°	263.2	4.1
100°-110°	204.6	3.2
110°-120°	142.0	2.2
120°-130°	95.1	1.5
130°-140°	57.0	0.9
140°-150°	15.1	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5695.1	88.0
0°-180°	6472.9	100.0

Coefficient of Utilization



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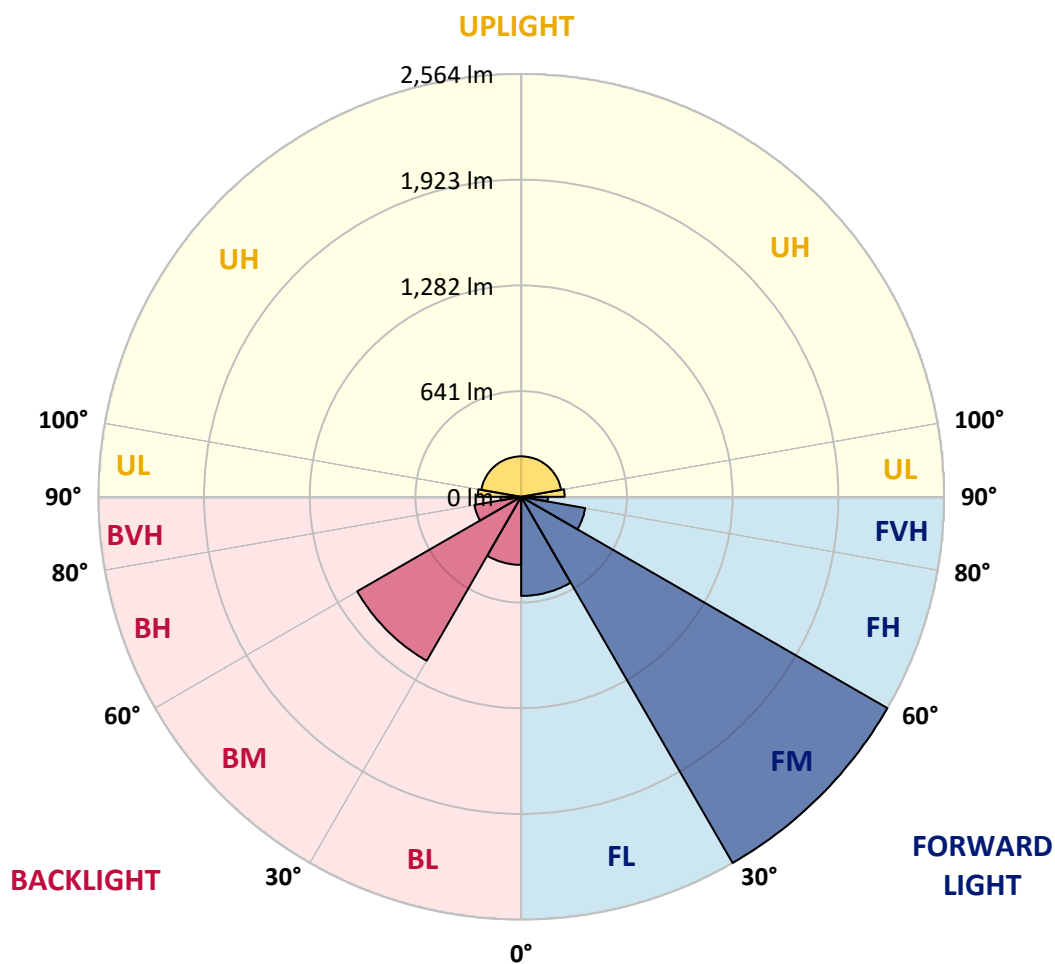
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.2	9.3			
FM	(30°-60°)	2564.3	39.6			
FH	(60°-80°)	394.4	6.1			G0/660
FVH	(80°-90°)	162.1	2.5			G2/225
BL	(0°-30°)	412.6	6.4	B1/500		
BM	(30°-60°)	1147.9	17.7	B2/2500		
BH	(60°-80°)	287.7	4.4	B1/500		G1/500
BVH	(80°-90°)	124.9	1.9			G2/225
UL	(90°-100°)	263.2	4.1		U3/500	
UH	(100°-180°)	245.4	3.8		U3/500	

BUG Rating: B2-U4-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	788.9	788.9	788.9	788.9	788.9	788.9	788.9	788.9	788.9	788.9	788.9
2.5°	801.9	804.5	803.7	801.9	805.4	807.1	807.1	806.3	807.1	809.0	812.3
5°	840.2	839.2	841.9	848.9	858.4	861.0	868.8	867.1	871.4	871.4	876.7
7.5°	907.1	907.9	916.6	923.5	934.0	956.5	978.3	1007.0	1006.1	1004.3	1011.3
10°	976.5	976.5	994.0	1019.1	1061.7	1109.4	1130.3	1155.6	1181.6	1177.3	1170.3
12.5°	998.2	1001.8	1032.2	1094.8	1186.8	1268.4	1310.2	1305.0	1278.9	1264.2	1240.6
15°	1038.4	1042.7	1075.6	1171.2	1280.7	1353.7	1369.2	1305.0	1248.6	1238.1	1218.1
17.5°	1188.5	1188.5	1222.5	1310.2	1392.7	1376.3	1314.6	1284.1	1247.7	1227.7	1199.0
20°	1292.8	1298.9	1352.8	1414.6	1459.7	1405.8	1406.7	1350.2	1312.9	1300.7	1273.7
22.5°	1393.6	1402.3	1418.0	1514.5	1527.4	1537.9	1506.5	1455.3	1392.7	1372.8	1344.9
25°	1607.3	1609.9	1626.6	1672.6	1637.8	1620.5	1575.2	1533.4	1509.2	1498.7	1469.2
27.5°	1861.1	1853.3	1860.2	1863.7	1810.7	1762.8	1696.9	1741.2	1775.9	1785.6	1759.4
30°	1913.2	1900.2	1953.2	2009.7	1983.5	1926.2	1921.8	1974.8	2040.1	2027.8	1991.5
32.5°	2123.5	2103.6	2127.7	2133.8	2129.5	2113.1	2106.0	2173.0	2219.9	2192.9	2139.9
35°	2292.8	2292.0	2206.0	2226.0	2238.1	2276.3	2314.7	2405.8	2447.5	2449.3	2404.9
37.5°	2655.2	2629.1	2597.0	2470.1	2403.2	2420.7	2552.7	2714.3	2808.1	2869.7	2799.4
40°	2779.4	2790.8	2763.7	2749.9	2652.5	2611.7	2763.7	3041.8	3296.4	3386.8	3378.0
42.5°	2575.3	2601.3	2585.7	2682.1	2759.5	2811.5	2994.9	3233.0	3281.6	3258.2	3133.9
45°	2745.5	2745.5	2703.9	2643.9	2670.8	2840.3	2985.3	3146.0	3298.1	3322.4	3253.8
46°	2622.2	2624.8	2727.3	2682.1	2651.6	2792.6	2943.7	3146.0	3405.8	3458.8	3378.0
47.5°	2394.5	2390.2	2578.8	2593.4	2614.3	2729.9	2895.9	3145.2	3292.1	3295.5	3194.7
50°	1897.6	1905.3	2164.2	2301.5	2438.9	2552.7	2776.8	2917.5	2950.7	2944.6	2835.1
52.5°	1540.5	1561.3	1698.5	1871.4	2037.4	2256.5	2517.1	2648.3	2720.3	2672.5	2571.8
55°	1067.8	1113.0	1286.0	1441.4	1684.7	1895.0	2120.0	2132.1	1802.9	1652.5	1465.8
57.5°	660.3	669.0	821.9	1041.8	1224.2	1389.3	1392.0	1081.6	841.9	731.6	608.2
60°	366.7	374.5	510.0	672.6	850.5	870.5	777.7	625.6	561.4	532.6	489.1
62.5°	272.8	279.0	367.5	467.5	538.7	567.4	522.2	511.8	512.7	499.5	470.9
65°	245.9	249.4	322.3	372.7	414.5	420.5	437.0	473.5	493.4	491.0	478.7
67.5°	223.3	227.6	293.7	330.1	355.4	385.0	398.8	455.4	509.1	517.9	506.6
70°	199.0	205.9	265.0	303.2	332.0	360.6	388.3	458.8	502.2	514.4	509.1
72.5°	172.0	180.6	230.2	270.2	302.4	333.6	381.4	441.3	500.4	522.2	525.7
75°	151.2	162.5	203.2	238.9	272.8	310.2	360.6	435.3	491.0	504.8	511.8
77.5°	136.5	148.6	179.8	212.9	245.0	285.8	344.1	433.5	481.3	497.0	509.1
80°	125.1	137.4	163.3	189.5	216.3	262.3	326.7	430.9	491.0	507.5	514.4
82.5°	116.4	127.6	150.2	173.7	195.6	237.2	314.5	426.6	488.3	502.2	505.7
85°	117.3	126.0	146.9	168.5	188.6	224.1	308.5	428.3	520.5	542.1	545.6
87.5°	123.3	129.4	151.2	176.3	199.0	235.4	319.7	424.9	517.0	536.9	545.6
90°	133.8	139.0	165.1	194.7	221.5	255.5	317.1	415.2	502.2	520.5	525.7
92.5°	165.9	170.3	199.0	231.1	254.6	265.9	306.7	430.1	504.8	515.2	515.2
95°	214.7	219.8	247.7	271.9	276.3	270.2	301.6	382.3	460.6	483.1	496.1
97.5°	268.5	270.2	285.8	290.2	277.1	263.3	294.6	357.0	417.9	433.5	437.0
100°	285.8	285.8	296.4	292.8	267.6	248.6	266.7	324.9	384.0	401.5	406.7
102.5°	289.3	291.1	301.6	290.2	256.2	225.0	237.2	292.8	347.6	366.7	377.1
105°	306.7	307.6	301.6	273.7	232.0	204.2	214.7	270.2	328.4	346.7	358.0
107.5°	286.6	284.1	267.6	241.6	213.7	193.8	205.9	246.8	291.1	305.9	313.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	237.2	235.4	229.3	219.8	202.5	187.7	195.6	232.8	275.4	286.6	293.7
112.5°	228.4	226.7	220.8	209.3	189.5	178.1	191.2	223.3	249.4	254.6	255.5
115°	219.8	218.1	204.2	191.2	175.4	170.3	179.0	208.5	232.8	238.9	244.2
117.5°	189.5	187.7	177.2	169.4	163.3	165.9	180.6	197.2	214.7	219.8	223.3
120°	168.5	167.8	162.5	157.3	153.8	155.5	171.1	189.5	206.8	212.0	214.7
122.5°	159.0	158.1	152.1	144.2	144.2	144.2	156.3	170.3	189.5	193.8	199.9
125°	139.9	139.9	133.8	127.6	136.5	139.9	142.6	143.4	158.1	165.1	167.8
127.5°	124.2	125.1	120.0	115.5	131.2	139.0	137.4	126.0	134.7	139.9	143.4
130°	122.4	122.4	116.4	111.2	119.0	134.7	129.4	118.1	128.5	132.1	133.8
132.5°	119.0	119.0	112.9	105.1	106.9	124.2	112.9	110.3	120.0	123.3	124.2
135°	109.5	109.5	105.1	94.7	87.8	105.1	91.2	96.5	106.0	108.7	109.5
137.5°	97.2	97.2	93.0	84.4	69.4	79.1	70.3	81.7	91.2	93.9	94.7
140°	79.9	79.1	76.4	66.0	50.3	44.2	47.8	65.1	74.6	76.4	79.1
142.5°	59.1	59.9	55.7	46.9	30.5	16.4	27.8	41.7	52.1	54.7	56.5
145°	43.5	42.6	38.3	30.5	16.4	2.6	13.0	26.1	33.0	35.7	37.4
147.5°	28.7	28.7	25.2	18.2	5.2	0.9	3.5	13.0	20.8	22.5	23.4
150°	19.1	19.1	14.0	5.2	0.9	0.9	0.9	2.6	8.8	10.4	12.1
152.5°	6.1	6.1	2.6	1.7	0.9	0.0	0.0	0.9	1.7	1.7	2.6
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	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°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	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°	788.9	788.9	788.9	788.9	788.9	788.9	788.9	788.9	788.9	788.9	788.9
2.5°	813.2	812.3	809.7	807.1	800.2	791.5	782.9	776.8	773.4	770.7	769.8
5°	874.9	876.7	864.4	844.5	825.5	808.0	791.5	775.9	767.2	760.2	757.6
7.5°	1006.1	1008.7	984.5	953.1	904.5	845.3	795.0	761.1	736.8	722.0	719.5
10°	1168.5	1161.7	1132.9	1066.1	977.4	886.2	791.5	718.6	679.5	661.2	660.3
12.5°	1234.6	1225.1	1192.9	1137.3	1044.4	925.3	808.0	711.5	653.3	629.9	629.1
15°	1204.2	1187.6	1128.6	1077.3	1040.9	974.8	869.6	759.3	679.5	650.0	642.1
17.5°	1178.1	1161.7	1112.1	1038.4	969.6	941.0	889.7	798.5	715.1	673.4	664.7
20°	1254.7	1244.2	1182.4	1084.3	1008.7	894.1	852.3	789.8	727.2	701.1	694.2
22.5°	1325.0	1319.8	1242.4	1139.9	1038.4	958.3	874.9	828.9	768.1	749.8	742.0
25°	1456.2	1431.9	1305.0	1166.9	1079.1	1000.9	894.1	821.9	748.1	724.7	720.4
27.5°	1764.6	1708.1	1523.0	1315.4	1139.1	1014.8	892.2	786.2	705.4	676.0	674.2
30°	1961.0	1909.7	1701.2	1472.7	1233.0	1047.9	881.0	753.3	692.5	663.8	664.7
32.5°	2080.0	2011.3	1776.8	1487.5	1254.7	1064.3	888.0	742.0	660.3	623.9	623.0
35°	2338.1	2242.4	1901.9	1606.4	1297.2	1040.0	858.4	718.6	642.9	616.0	612.6
37.5°	2705.5	2597.9	2136.4	1702.9	1314.6	1007.9	820.2	691.5	601.2	563.9	561.4
40°	3236.5	3078.3	2461.4	1819.3	1300.7	983.6	778.6	650.7	576.1	551.6	544.0
42.5°	2973.2	2794.2	2267.7	1796.8	1265.9	916.6	738.5	630.8	561.4	542.1	531.7
45°	3137.4	2928.8	2291.1	1670.8	1132.9	817.5	670.8	590.8	521.2	494.3	491.7
46°	3228.6	3010.5	2392.7	1632.6	1072.1	786.2	640.3	572.6	512.7	477.9	470.1
47.5°	3030.5	2788.1	2199.9	1557.8	1023.4	715.9	600.3	544.0	503.1	470.9	465.7
50°	2657.7	2420.7	1902.8	1328.5	881.0	631.7	535.2	501.3	460.6	425.7	419.7
52.5°	2425.9	2226.9	1742.1	1205.0	748.1	532.6	477.9	448.3	406.7	365.8	360.6
55°	1333.7	1196.5	1076.4	905.3	620.4	450.1	416.2	398.8	356.2	316.3	313.7
57.5°	549.1	493.4	489.1	461.4	426.6	378.8	359.7	349.4	306.7	258.1	256.2
60°	462.2	411.9	363.2	319.7	317.1	316.3	310.2	291.9	245.0	194.7	192.9
62.5°	450.1	400.6	352.8	299.8	277.1	284.1	272.8	250.2	214.7	165.9	164.2
65°	458.8	407.6	351.0	291.1	266.7	269.3	257.2	239.8	215.5	180.6	179.0
67.5°	488.3	435.3	371.9	287.5	258.1	263.3	254.6	241.6	227.6	205.9	201.6
70°	492.6	445.6	372.7	289.3	248.6	254.6	252.0	240.7	231.1	212.0	209.3
72.5°	505.7	463.0	380.5	283.2	238.1	240.7	244.2	240.7	234.5	223.3	218.9
75°	493.4	456.1	377.1	278.0	227.6	226.0	234.5	238.9	240.7	236.3	231.1
77.5°	491.0	459.7	377.9	274.5	218.1	211.1	218.1	225.0	228.4	224.1	219.8
80°	494.3	467.5	389.2	275.4	207.7	190.4	193.8	201.6	202.5	194.7	188.6
82.5°	486.5	460.6	377.1	265.9	191.2	169.4	170.3	178.1	179.0	169.4	162.5
85°	521.2	490.0	385.7	253.7	173.7	154.7	155.5	159.0	153.8	143.4	136.5
87.5°	520.5	483.1	368.3	234.5	162.5	146.0	145.0	144.2	135.6	123.3	117.3
90°	502.2	463.0	344.9	206.8	143.4	133.8	131.2	126.0	113.8	99.9	95.6
92.5°	490.0	448.3	329.3	195.6	126.0	117.3	115.5	110.3	98.2	83.5	80.8
95°	477.0	436.1	303.2	171.1	111.2	102.5	99.9	94.7	85.2	73.0	71.2
97.5°	420.5	380.5	267.6	155.5	99.1	89.6	87.8	83.5	75.5	67.0	66.0
100°	388.3	352.8	248.6	142.6	88.7	78.2	77.3	74.6	69.4	63.4	62.5
102.5°	363.2	328.4	230.2	132.1	79.1	69.4	68.6	67.7	65.1	60.8	60.8
105°	344.1	311.1	220.8	123.3	71.2	63.4	62.5	62.5	59.9	57.3	57.3
107.5°	299.8	271.9	192.0	109.5	65.1	58.2	58.2	58.2	56.5	54.7	55.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	282.3	256.2	182.4	102.5	62.5	53.9	53.0	53.0	52.1	53.0	53.0
112.5°	243.4	220.8	160.7	98.2	60.8	51.3	48.7	46.9	45.2	46.9	47.8
115°	233.6	212.9	155.5	94.7	59.1	49.5	46.1	43.5	40.0	42.6	42.6
117.5°	214.7	195.6	144.2	92.0	59.1	46.9	43.5	40.9	37.4	39.0	39.0
120°	205.9	189.5	145.0	94.7	59.9	44.2	40.9	36.6	33.9	36.6	36.6
122.5°	193.8	179.0	136.5	89.6	57.3	43.5	40.0	31.4	29.6	32.2	32.2
125°	162.5	150.2	117.3	79.1	54.7	43.5	39.0	27.8	27.8	29.6	30.5
127.5°	138.2	128.5	101.7	73.8	55.7	46.1	37.4	24.3	26.1	28.7	28.7
130°	130.3	122.4	100.8	75.5	58.2	48.7	30.5	22.5	24.3	26.9	26.9
132.5°	121.6	114.8	97.2	77.3	59.1	46.1	25.2	20.8	22.5	24.3	24.3
135°	106.9	101.7	87.8	70.3	53.0	36.6	20.0	18.2	20.8	22.5	23.4
137.5°	93.9	89.6	77.3	63.4	47.8	31.4	14.0	16.4	18.2	19.1	20.0
140°	77.3	74.6	65.1	52.1	35.7	17.3	10.4	13.0	14.7	16.4	16.4
142.5°	56.5	54.7	46.1	33.9	21.6	6.9	6.9	9.5	11.3	13.0	13.0
145°	37.4	35.7	29.6	21.6	9.5	1.7	4.3	6.9	9.5	10.4	10.4
147.5°	23.4	22.5	18.2	11.3	3.5	1.7	1.7	5.2	6.9	7.8	7.8
150°	12.1	11.3	7.8	3.5	1.7	0.9	0.9	1.7	4.3	5.2	5.2
152.5°	2.6	2.6	1.7	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	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)