

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: P239881

Luminaire Tested: **UTLD-AF24-80-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5998 lumens
Efficiency: N/A
Efficacy: 72.3 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: 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



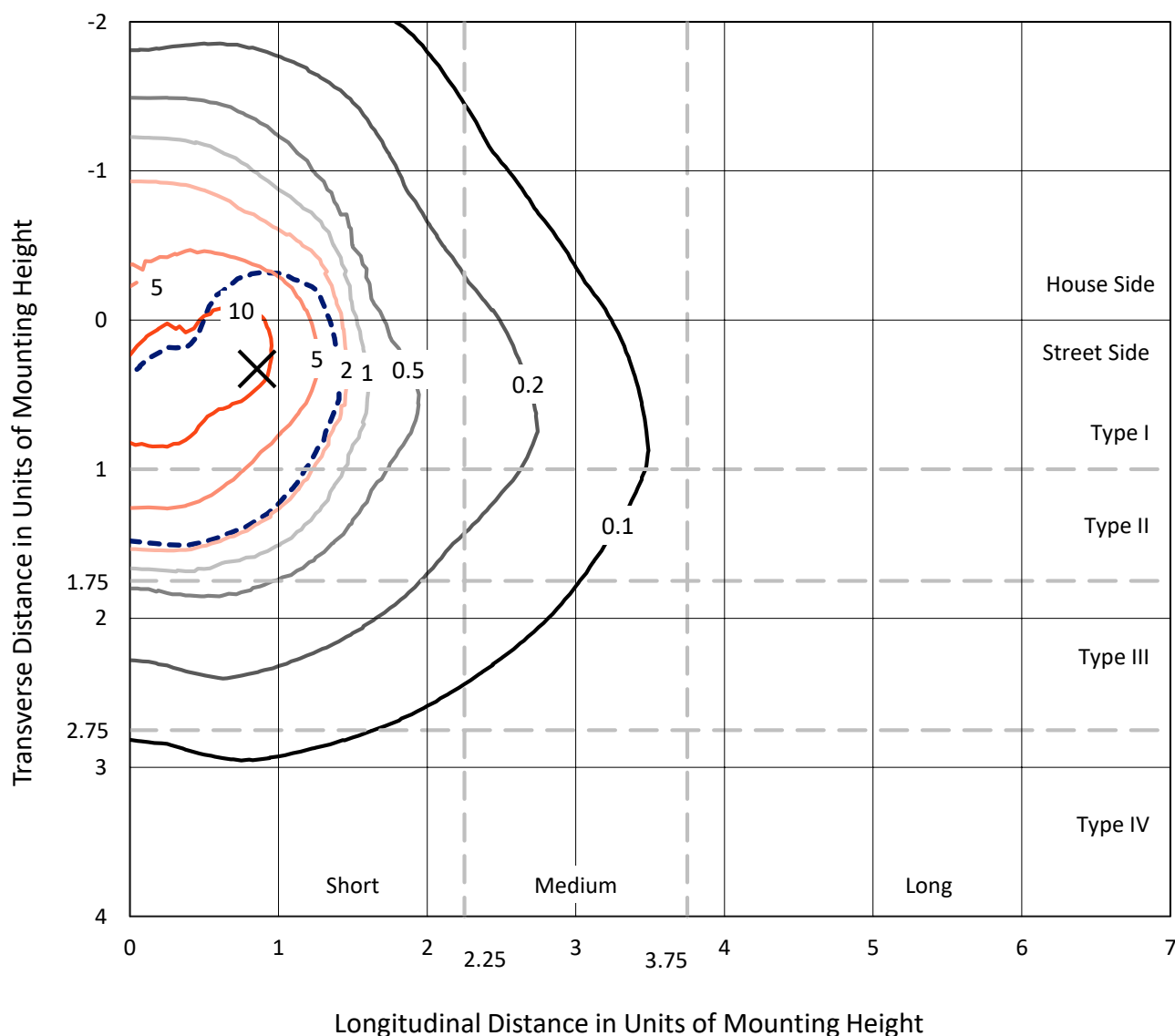
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

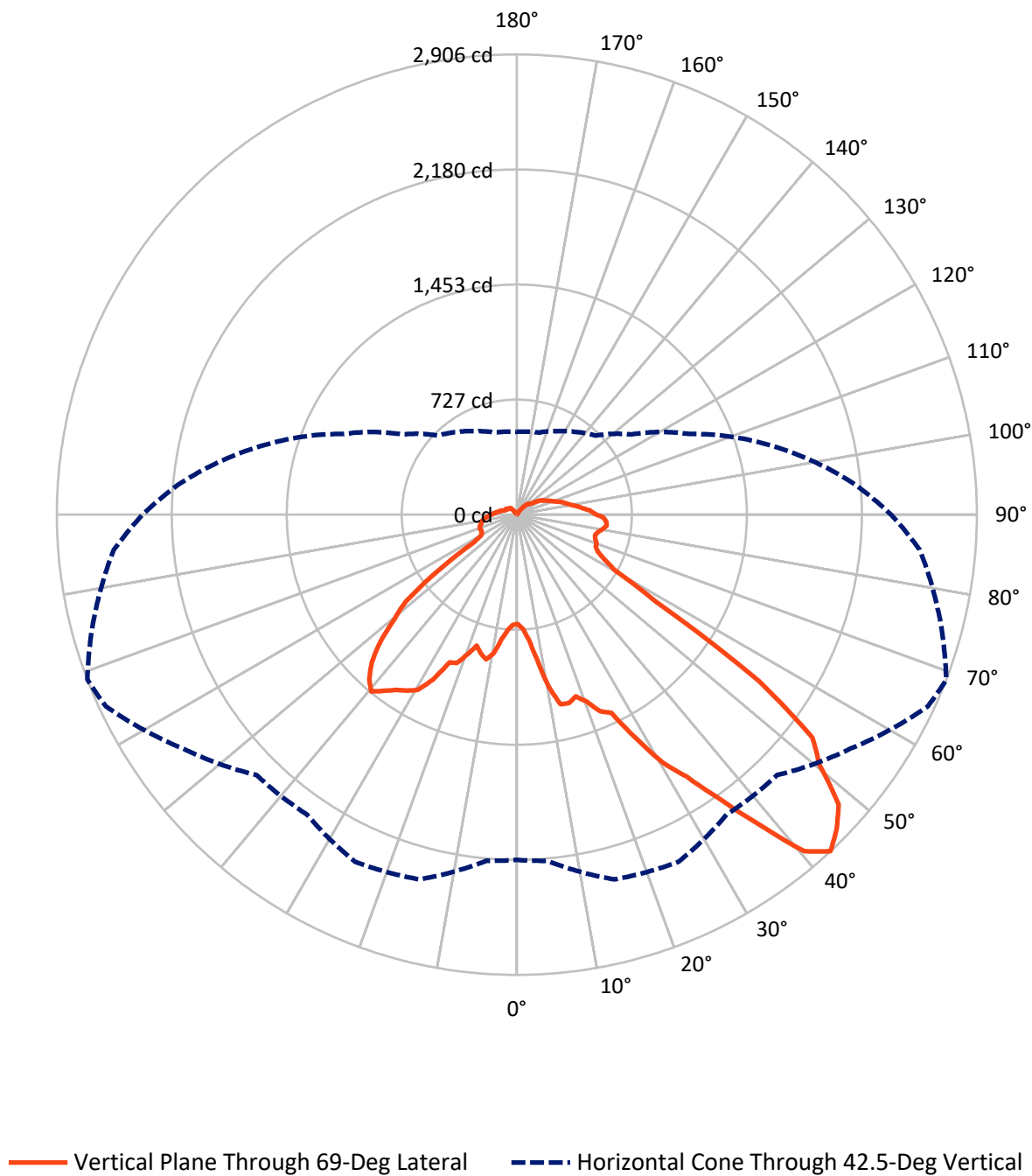


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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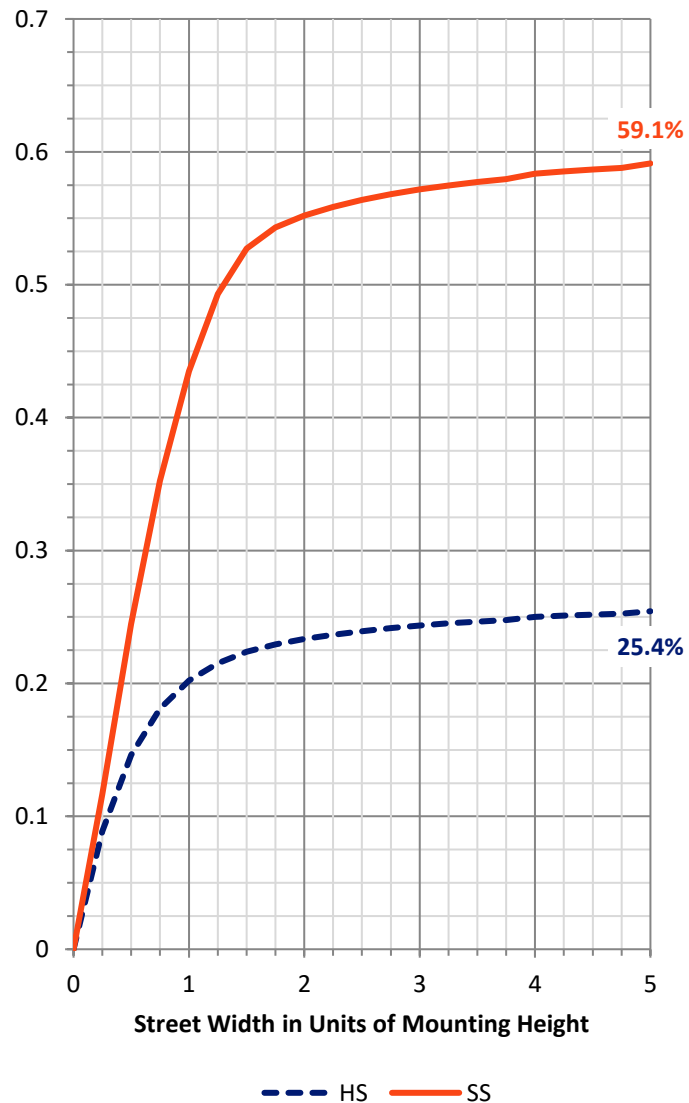
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1580.4	190.5	1770.8
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	3662.1	565.1	4227.2
	% Fixture	61.1	9.4	70.5
Total	Lumens	5242.5	755.5	5998.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.3
10°-20°	288.5	4.8
20°-30°	590.2	9.8
30°-40°	992.6	16.5
40°-50°	1314.0	21.9
50°-60°	947.6	15.8
60°-70°	372.2	6.2
70°-80°	335.4	5.6
80°-90°	326.9	5.4
90°-100°	275.7	4.6
100°-110°	196.0	3.3
110°-120°	132.1	2.2
120°-130°	86.4	1.4
130°-140°	51.7	0.9
140°-150°	13.1	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5242.5	87.4
0°-180°	5998.0	100.0

Coefficient of Utilization



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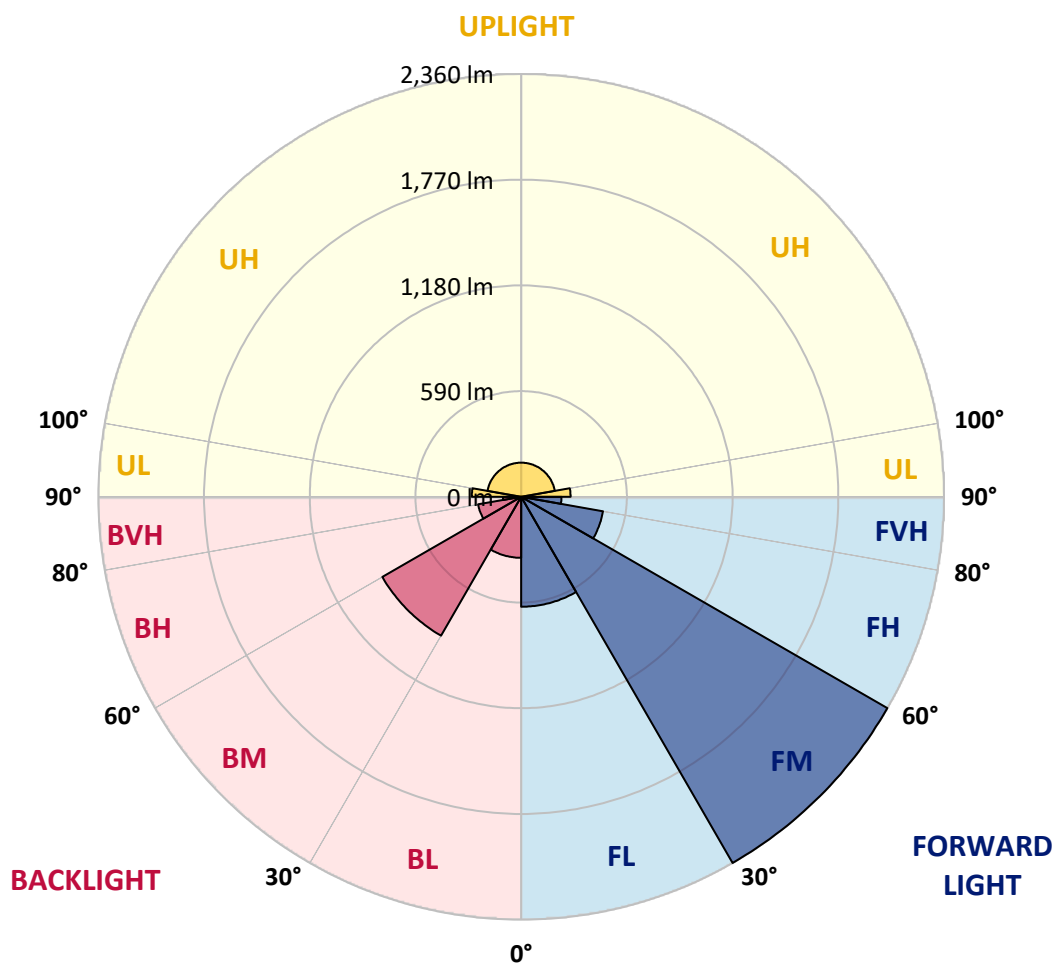
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	613.5	10.2			
FM	(30°-60°)	2359.6	39.3			
FH	(60°-80°)	463.8	7.7			G0/660
FVH	(80°-90°)	225.2	3.8			G3/500
BL	(0°-30°)	340.4	5.7	B1/500		
BM	(30°-60°)	894.5	14.9	B1/1000		
BH	(60°-80°)	243.8	4.1	B1/500		G1/500
BVH	(80°-90°)	101.6	1.7			G2/225
UL	(90°-100°)	275.7	4.6		U3/500	
UH	(100°-180°)	190.5	3.2		U3/500	

BUG Rating: B1-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	735.1	731.0	729.4	729.4	726.9	726.1	727.7	725.3	721.2	720.4	715.5
5°	786.5	784.9	784.1	790.6	796.3	798.0	796.3	796.3	791.4	791.4	775.9
7.5°	869.0	866.6	873.1	889.5	895.2	912.3	932.7	920.5	923.8	914.8	885.4
10°	964.6	960.5	990.7	1012.8	1063.4	1084.7	1110.8	1108.3	1103.4	1087.9	1038.9
12.5°	1051.2	1048.7	1087.9	1168.0	1235.8	1304.4	1310.1	1253.7	1228.4	1172.9	1111.6
15°	1159.0	1161.4	1221.1	1334.6	1435.0	1462.8	1393.4	1282.3	1234.9	1177.8	1087.1
17.5°	1333.0	1341.1	1442.4	1571.4	1638.4	1526.5	1377.9	1250.5	1205.5	1143.5	1056.1
20°	1434.2	1439.1	1578.0	1752.8	1772.4	1591.0	1436.7	1299.5	1260.3	1211.3	1139.4
22.5°	1494.7	1512.6	1671.9	1885.9	1874.5	1741.3	1527.3	1397.5	1348.5	1281.5	1222.7
25°	1591.9	1604.9	1757.7	1964.3	1913.7	1790.3	1608.2	1435.0	1386.9	1337.9	1279.0
27.5°	1723.4	1735.6	1907.1	2026.4	1973.3	1855.7	1729.1	1618.0	1592.7	1584.5	1559.2
30°	1793.6	1801.8	1994.5	2095.0	2004.3	1949.6	1914.5	1825.5	1818.1	1801.8	1743.8
32.5°	1833.6	1864.7	2088.5	2146.4	2028.0	2021.5	2042.7	1988.0	1973.3	1945.5	1878.5
35°	1869.6	1885.1	2095.8	2184.0	2066.4	2063.1	2209.3	2234.7	2202.0	2144.8	1984.7
37.5°	2146.4	2153.8	2298.4	2267.3	2117.0	2135.0	2376.0	2507.5	2478.0	2407.0	2296.7
40°	2296.7	2309.8	2443.7	2379.2	2224.0	2244.5	2496.0	2768.8	2794.9	2792.5	2696.1
42.5°	2179.9	2193.8	2384.1	2418.4	2311.4	2325.3	2574.4	2864.4	2906.0	2777.8	2555.6
45°	2560.5	2571.2	2678.2	2427.4	2251.8	2304.9	2513.2	2794.9	2832.5	2794.9	2604.6
47.5°	2559.7	2546.7	2635.7	2452.7	2247.7	2211.8	2380.0	2661.8	2736.1	2650.4	2443.7
50°	2250.2	2249.4	2469.1	2363.7	2203.6	2120.3	2233.8	2456.8	2474.8	2374.3	2097.4
52.5°	1965.1	1963.5	2217.5	2163.6	2059.0	1977.4	2047.6	2269.8	2338.4	2250.2	2019.0
55°	1712.7	1783.0	2006.0	1890.8	1847.5	1766.7	1836.9	1891.6	1856.5	1611.5	1087.1
57.5°	1037.3	1114.9	1405.6	1489.0	1498.8	1440.8	1281.5	1094.5	1027.5	820.8	490.1
60°	483.5	502.3	737.5	897.6	1095.3	1001.3	810.2	705.7	705.7	619.9	425.5
62.5°	340.6	353.7	484.3	579.1	655.9	646.9	575.0	589.7	619.1	580.7	410.0
65°	320.2	328.3	431.2	459.8	489.2	495.0	485.2	530.1	561.1	556.2	415.7
67.5°	297.3	307.9	393.7	412.5	435.3	446.0	453.3	505.6	538.2	556.2	432.1
70°	270.3	282.6	363.5	389.6	411.6	436.1	445.1	501.5	535.0	552.9	437.8
72.5°	245.0	255.6	323.4	356.1	395.3	423.9	459.8	494.1	517.0	535.8	441.0
75°	220.5	232.8	289.9	327.5	373.3	427.2	470.5	495.8	511.3	526.0	437.0
77.5°	204.2	217.3	262.2	305.5	360.2	434.5	483.5	516.2	525.2	527.6	432.1
80°	189.5	204.2	251.6	297.3	356.9	437.8	499.0	538.2	550.5	556.2	459.8
82.5°	200.1	213.2	254.0	309.6	367.5	437.0	495.0	557.0	570.9	567.6	468.8
85°	226.2	236.9	286.7	339.0	383.9	429.6	480.3	548.0	567.6	584.8	496.6
87.5°	275.2	280.1	316.1	364.3	401.0	415.7	466.4	530.1	548.0	553.8	483.5
90°	301.4	306.3	348.8	388.8	400.2	405.1	415.7	479.4	492.5	515.4	462.3
92.5°	331.6	331.6	375.7	399.4	399.4	379.0	386.3	443.5	465.6	478.6	429.6
95°	361.0	359.4	383.9	397.8	376.5	347.9	360.2	405.1	419.0	432.9	399.4
97.5°	370.0	369.2	383.9	375.7	340.6	313.6	329.2	367.5	382.2	396.9	362.6
100°	360.2	356.1	360.2	342.2	309.6	289.1	298.1	330.0	345.5	357.7	326.7
102.5°	339.0	336.5	338.1	320.2	285.9	261.4	273.6	307.1	318.5	328.3	300.6
105°	329.2	325.1	317.7	291.6	258.1	240.9	251.6	285.0	295.7	315.3	292.4
107.5°	280.1	276.9	271.2	257.3	240.1	227.1	236.0	259.7	266.3	276.1	254.8
110°	241.8	240.1	238.5	235.2	224.6	215.6	220.5	233.6	241.8	249.1	227.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	233.6	231.1	229.5	223.8	209.9	200.1	203.4	218.1	223.0	225.4	202.6
115°	223.0	220.5	211.5	203.4	193.6	188.7	189.5	201.7	205.0	206.6	192.8
117.5°	197.7	195.2	189.5	186.2	180.5	178.1	182.1	188.7	189.5	190.3	178.1
120°	183.0	182.1	178.9	173.2	169.1	163.4	169.9	176.4	178.9	181.3	173.2
122.5°	166.6	165.0	161.7	154.4	154.4	151.1	150.3	154.4	155.2	161.7	157.6
125°	147.0	145.4	142.1	135.6	143.7	143.7	138.0	129.0	131.5	137.2	133.9
127.5°	131.5	129.9	126.6	123.3	134.8	138.8	129.0	112.7	114.3	116.0	113.5
130°	129.0	127.4	123.3	117.6	120.9	133.1	116.0	102.9	105.4	107.0	105.4
132.5°	126.6	125.8	120.1	112.7	108.6	120.1	100.5	97.2	99.6	102.1	100.5
135°	118.4	117.6	112.7	102.1	90.7	96.4	80.0	84.9	89.0	92.3	90.7
137.5°	105.4	104.5	100.5	89.8	74.3	69.4	61.3	72.7	76.0	80.0	80.0
140°	84.9	84.1	80.0	69.4	52.3	36.8	39.2	55.5	58.8	63.7	64.5
142.5°	62.1	60.4	56.4	46.6	29.4	12.3	22.1	33.5	37.6	42.5	45.7
145°	42.5	41.7	35.9	27.8	13.9	1.6	9.8	20.4	22.9	26.1	29.4
147.5°	27.0	27.0	22.9	15.5	4.1	1.6	2.5	10.6	13.1	16.3	18.8
150°	16.3	16.3	12.3	4.9	0.8	0.8	0.8	1.6	4.1	7.4	9.8
152.5°	4.1	4.1	2.5	1.6	0.8	0.0	0.8	0.8	0.8	0.8	1.6
155°	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.0	0.8	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°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	713.0	708.1	701.6	692.6	683.6	674.6	665.7	660.8	658.3	656.7	655.9
5°	771.8	761.2	744.1	720.4	691.0	673.8	661.6	646.9	637.1	633.8	631.4
7.5°	875.6	858.4	824.1	773.5	737.5	686.9	643.6	615.8	595.4	584.0	584.0
10°	1014.4	989.9	930.3	860.9	768.6	679.5	612.6	561.9	538.2	528.4	526.0
12.5°	1075.7	1052.0	981.7	900.9	802.9	699.1	614.2	553.8	525.2	513.7	515.4
15°	1044.6	1012.0	951.5	875.6	798.8	733.4	662.4	587.2	538.2	525.2	529.3
17.5°	1013.6	980.1	915.6	831.5	756.3	713.0	663.2	612.6	566.0	547.2	544.0
20°	1104.3	1079.8	992.4	896.8	784.1	674.6	639.5	616.7	601.1	602.0	594.6
22.5°	1190.8	1157.3	1077.3	965.4	843.7	748.2	691.0	660.8	643.6	651.0	651.8
25°	1248.8	1223.5	1105.1	971.1	869.8	798.8	716.3	673.8	645.2	645.2	642.0
27.5°	1543.7	1480.8	1292.9	1087.9	936.8	819.2	719.6	670.6	634.6	624.0	625.6
30°	1698.0	1636.0	1421.2	1172.0	1013.6	868.2	728.5	652.6	643.6	636.3	638.7
32.5°	1830.4	1738.9	1484.9	1194.1	999.7	875.6	748.2	656.7	613.4	606.0	609.3
35°	1895.7	1793.6	1535.5	1213.7	1006.2	844.5	724.5	639.5	611.8	604.4	606.9
37.5°	2197.1	2044.3	1615.5	1243.1	1004.6	803.7	692.6	624.0	572.5	550.5	550.5
40°	2543.4	2318.8	1755.2	1241.5	942.5	768.6	657.5	593.8	552.9	535.8	535.0
42.5°	2363.7	2149.7	1673.5	1204.7	882.1	704.9	637.9	580.7	536.6	525.2	522.7
45°	2438.8	2210.2	1614.7	1101.8	791.4	654.2	591.3	551.3	500.7	474.5	473.7
47.5°	2200.3	2016.6	1494.7	971.1	713.0	575.0	535.8	509.7	477.8	455.8	453.3
50°	1908.8	1723.4	1257.8	860.9	607.7	509.7	482.7	469.6	437.8	412.5	414.1
52.5°	1823.8	1599.2	1096.1	751.4	522.7	444.3	431.2	416.5	384.7	355.3	358.6
55°	904.2	749.0	666.5	584.0	438.6	386.3	380.6	371.6	339.8	314.5	315.3
57.5°	421.4	363.5	318.5	339.0	330.8	335.7	333.2	327.5	297.3	261.4	258.9
60°	377.3	323.4	270.3	256.5	272.0	293.2	291.6	273.6	235.2	192.8	187.9
62.5°	364.3	309.6	262.2	241.8	248.3	262.2	252.4	229.5	198.5	159.3	158.5
65°	370.8	312.8	261.4	236.0	240.9	246.7	232.8	216.4	197.7	170.7	170.7
67.5°	384.7	325.1	267.1	233.6	236.0	241.8	228.7	217.3	207.5	189.5	189.5
70°	388.8	330.8	270.3	234.4	232.0	236.9	227.9	217.3	211.5	196.8	196.0
72.5°	390.4	334.1	268.7	230.3	224.6	228.7	222.2	217.3	214.8	203.4	201.7
75°	383.1	330.8	260.5	221.3	215.6	217.3	215.6	214.8	218.1	210.7	208.3
77.5°	374.1	325.9	254.0	211.5	205.0	205.8	204.2	206.6	209.9	205.0	200.9
80°	392.9	339.8	254.8	204.2	191.9	187.9	188.7	191.1	195.2	184.6	178.9
82.5°	399.4	340.6	243.4	187.9	172.3	166.6	168.3	174.8	178.1	168.3	162.5
85°	423.9	356.1	235.2	173.2	155.2	149.5	151.1	155.2	153.6	142.1	137.2
87.5°	414.1	345.5	220.5	156.0	141.3	136.4	137.2	138.8	133.1	118.4	114.3
90°	400.2	333.2	204.2	137.2	125.0	123.3	121.7	119.2	109.4	93.9	89.8
92.5°	374.9	311.2	189.5	124.1	111.1	110.3	107.8	102.9	93.9	78.4	74.3
95°	353.7	291.6	175.6	113.5	99.6	96.4	96.4	91.5	81.7	68.6	67.0
97.5°	318.5	265.4	161.7	104.5	89.0	85.8	84.9	81.7	74.3	64.5	63.7
100°	288.3	240.1	147.0	94.7	80.0	76.8	75.1	73.5	67.8	62.1	62.1
102.5°	267.1	222.2	137.2	86.6	71.9	68.6	68.6	67.0	63.7	59.6	59.6
105°	261.4	218.1	133.1	79.2	63.7	62.1	62.9	62.9	60.4	58.0	58.0
107.5°	227.1	187.9	114.3	70.2	58.0	56.4	57.2	58.0	57.2	56.4	56.4
110°	202.6	170.7	106.2	66.2	54.7	52.3	52.3	52.3	52.3	53.1	53.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	181.3	151.9	97.2	62.9	51.5	49.0	48.2	47.4	46.6	49.8	49.8
115°	173.2	147.8	94.7	61.3	49.0	46.6	44.1	42.5	40.8	43.3	44.1
117.5°	160.9	138.8	92.3	61.3	48.2	44.1	41.7	39.2	36.8	39.2	39.2
120°	157.6	138.0	93.9	62.1	46.6	40.8	38.4	35.1	33.5	35.9	36.8
122.5°	145.4	129.0	89.0	58.8	44.9	39.2	36.8	30.2	30.2	31.9	32.7
125°	123.3	109.4	76.8	53.1	42.5	39.2	35.9	27.0	27.8	29.4	29.4
127.5°	105.4	94.7	70.2	51.5	43.3	40.0	33.5	25.3	27.0	29.4	29.4
130°	99.6	90.7	71.1	53.9	44.9	40.8	27.8	22.1	26.1	28.6	28.6
132.5°	95.6	88.2	71.1	56.4	46.6	37.6	22.1	19.6	22.1	23.7	23.7
135°	86.6	81.7	67.8	53.9	42.5	29.4	18.0	17.2	20.4	22.1	22.1
137.5°	77.6	72.7	62.1	49.8	37.6	23.7	13.1	15.5	17.2	18.8	18.8
140°	63.7	60.4	51.5	40.8	27.8	13.1	9.8	12.3	14.7	16.3	16.3
142.5°	44.9	43.3	35.9	26.1	15.5	4.9	6.5	9.0	10.6	12.3	12.3
145°	29.4	27.8	22.9	16.3	6.5	1.6	4.1	5.7	8.2	9.0	9.0
147.5°	18.8	18.0	13.9	8.2	2.5	1.6	1.6	4.1	6.5	7.4	7.4
150°	9.0	8.2	5.7	2.5	1.6	0.8	0.8	1.6	4.1	4.9	4.9
152.5°	1.6	1.6	1.6	0.8	0.8	0.0	0.0	0.8	0.8	1.6	1.6
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	0.8	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	0.8	0.8	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)