

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: P240041

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-A-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-SL3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5117.7 lumens
Efficiency: N/A
Efficacy: 80.0 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 - G2

Input Watts (W): 64
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



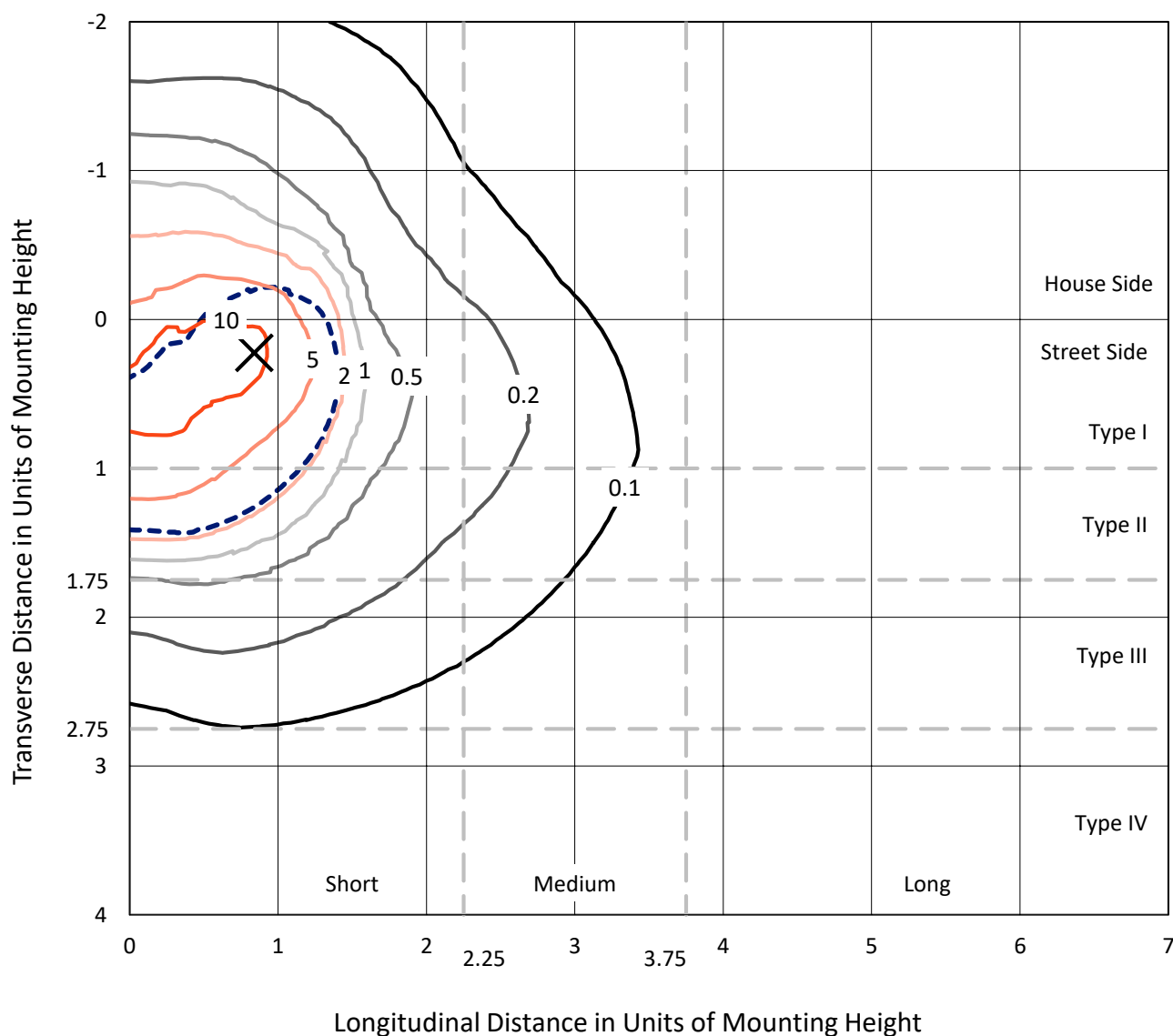
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

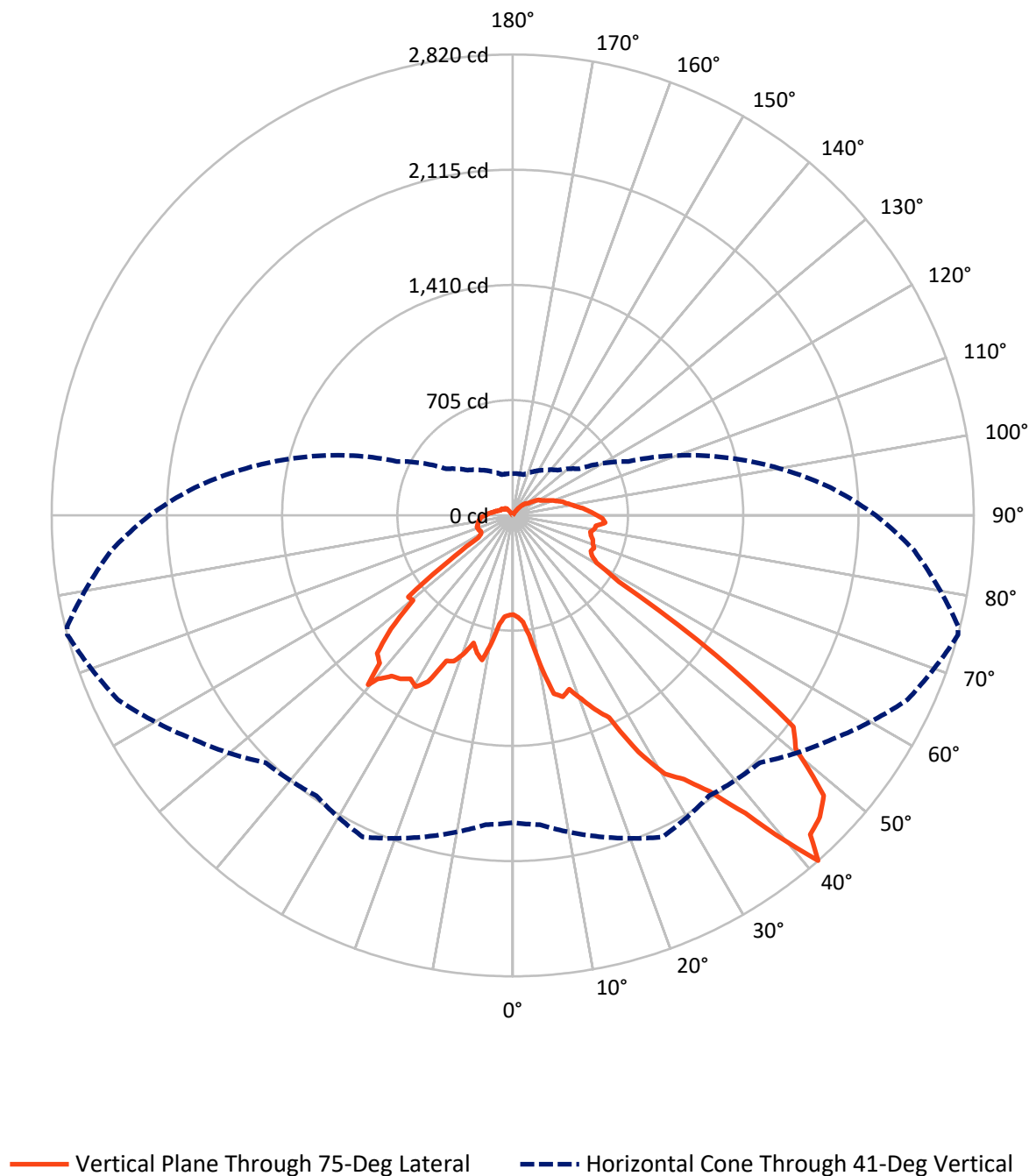


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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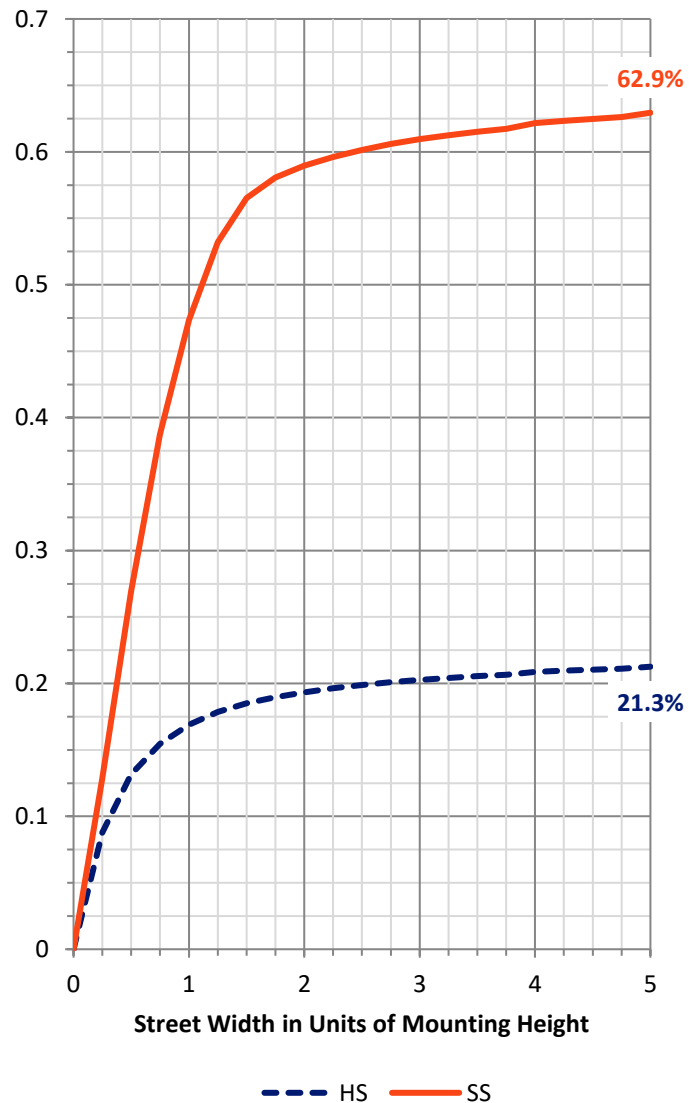
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.9	144.0	1272.9
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	3320.1	524.7	3844.8
	% Fixture	64.9	10.3	75.1
Total	Lumens	4449.0	668.6	5117.7
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.2
10°-20°	253.3	4.9
20°-30°	520.3	10.2
30°-40°	847.1	16.6
40°-50°	1100.2	21.5
50°-60°	780.1	15.2
60°-70°	317.1	6.2
70°-80°	286.9	5.6
80°-90°	280.2	5.5
90°-100°	240.4	4.7
100°-110°	174.1	3.4
110°-120°	118.8	2.3
120°-130°	77.2	1.5
130°-140°	46.0	0.9
140°-150°	11.7	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4449.0	86.9
0°-180°	5117.7	100.0

Coefficient of Utilization



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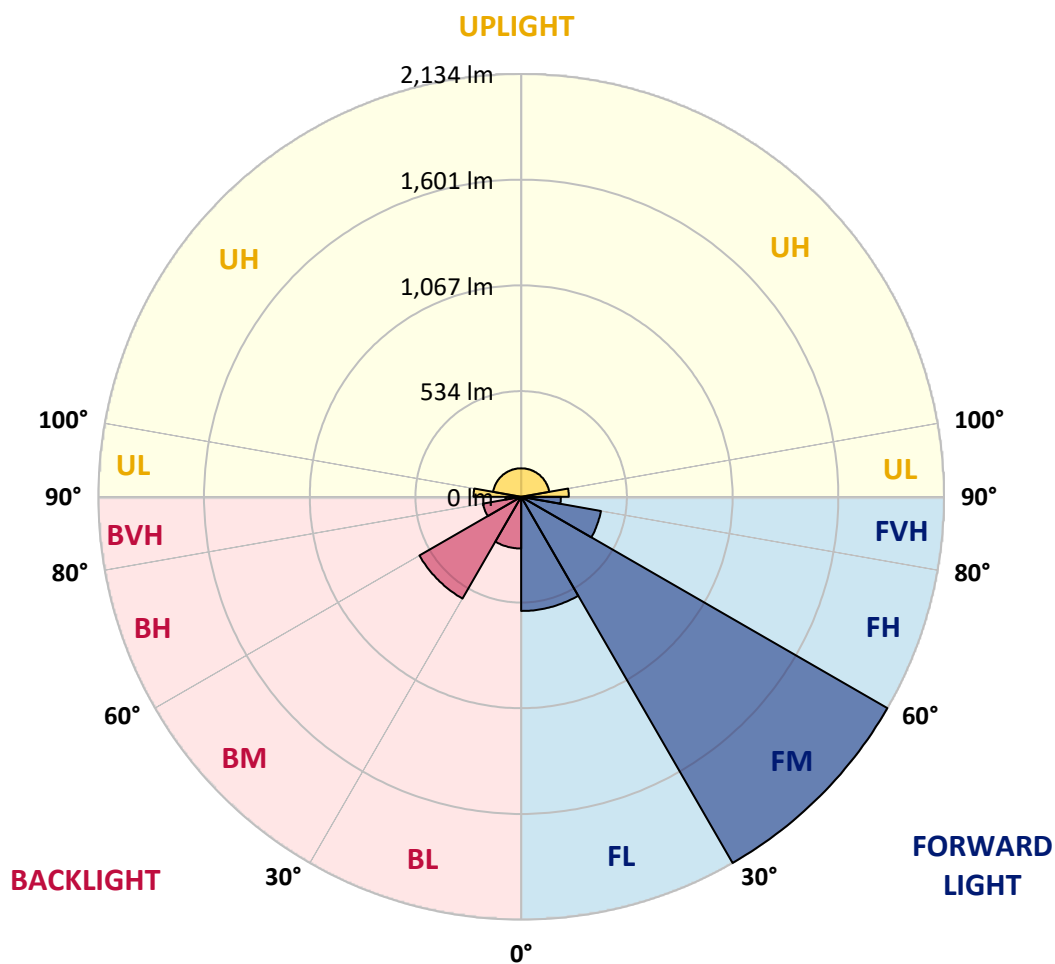
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.3	11.3			
FM	(30°-60°)	2134.4	41.7			
FH	(60°-80°)	408.7	8.0			G0/660
FVH	(80°-90°)	200.7	3.9			G2/225
BL	(0°-30°)	261.2	5.1	B1/500		
BM	(30°-60°)	592.9	11.6	B1/1000		
BH	(60°-80°)	195.3	3.8	B1/500		G1/500
BVH	(80°-90°)	79.5	1.6			G1/100
UL	(90°-100°)	240.4	4.7		U3/500	
UH	(100°-180°)	144.0	2.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1
2.5°	649.3	650.8	647.9	645.7	644.3	639.9	636.2	631.1	623.9	623.1	620.1
5°	708.4	708.4	708.4	703.3	697.4	688.0	679.9	668.3	654.5	653.7	642.8
7.5°	803.8	803.8	799.4	792.2	779.1	764.5	763.0	761.5	742.6	740.4	720.8
10°	906.7	903.7	905.9	911.8	918.4	938.0	950.3	951.7	931.4	926.3	897.9
12.5°	946.7	949.6	975.1	1021.8	1100.5	1179.2	1220.0	1186.4	1118.7	1110.0	1042.9
15°	1007.9	1011.5	1053.8	1131.8	1263.0	1376.6	1341.7	1257.9	1150.7	1142.8	1039.3
17.5°	1172.0	1188.6	1229.5	1353.4	1486.7	1440.8	1322.8	1214.9	1117.9	1108.6	1021.8
20°	1287.1	1296.5	1375.2	1494.0	1588.1	1518.0	1437.2	1328.6	1198.1	1198.1	1130.4
22.5°	1382.5	1379.6	1443.8	1623.0	1677.6	1632.5	1538.5	1427.7	1289.3	1282.7	1194.5
25°	1532.7	1542.0	1652.9	1851.2	1800.8	1685.7	1561.8	1460.5	1369.4	1361.4	1273.2
27.5°	1620.1	1644.9	1772.4	1944.4	1912.4	1757.1	1648.5	1633.2	1639.8	1633.2	1537.1
30°	1641.9	1652.9	1810.3	1980.9	1959.0	1843.9	1843.9	1869.3	1835.8	1826.4	1697.4
32.5°	1696.6	1722.9	1873.7	2006.3	1953.1	1931.2	1942.9	1937.8	1923.3	1910.2	1760.0
35°	1785.6	1808.1	1949.5	2049.3	1952.5	1960.4	2065.4	2125.8	2073.4	2061.7	1838.1
37.5°	2019.4	2041.4	2168.9	2163.0	2004.2	2019.4	2209.7	2320.4	2311.1	2309.5	2088.0
40°	1972.9	2045.0	2199.5	2223.5	2081.4	2098.3	2325.6	2566.1	2676.9	2673.9	2399.3
41°	1879.6	1899.3	2034.1	2170.3	2093.9	2138.3	2386.1	2665.2	2819.7	2808.7	2464.8
42.5°	1913.1	1948.1	2028.2	2073.4	2079.2	2168.1	2433.4	2677.6	2669.5	2664.5	2383.2
45°	2198.8	2213.4	2246.9	2160.2	2013.6	2124.4	2407.2	2633.8	2633.1	2609.7	2483.0
47.5°	2061.0	2102.5	2245.4	2168.1	2007.1	2005.7	2191.5	2498.3	2559.5	2526.0	2210.5
50°	1949.5	1979.4	2062.5	1980.1	1909.5	1908.0	2082.9	2313.9	2243.9	2234.5	1800.8
52.5°	1729.5	1758.5	1817.6	1797.2	1757.1	1752.7	1886.2	2128.1	2149.9	2142.7	1817.6
55°	1314.7	1335.1	1557.4	1563.3	1533.4	1547.9	1655.9	1754.1	1509.3	1470.0	1021.8
57.5°	772.6	825.0	1040.7	1175.5	1237.5	1249.2	1212.0	1037.9	765.9	738.3	471.6
60°	381.2	408.1	558.2	701.1	861.4	867.3	749.2	663.2	588.2	571.4	412.5
62.5°	271.8	287.9	386.2	462.0	551.6	566.3	524.8	560.4	544.4	534.2	401.5
65°	246.4	260.1	342.5	382.6	419.8	442.4	452.6	512.3	524.8	518.2	398.7
67.5°	225.2	239.1	312.7	343.3	370.9	407.4	429.3	488.3	535.7	531.3	422.8
70°	199.0	215.0	282.0	319.2	353.5	395.0	424.9	486.9	521.0	515.2	409.6
72.5°	174.2	188.8	243.4	287.2	337.4	384.8	429.3	474.4	512.3	507.3	414.6
75°	151.6	166.2	213.5	258.7	316.3	387.8	432.1	470.8	494.8	487.6	407.4
77.5°	136.2	150.9	191.6	236.1	300.3	392.1	472.2	486.9	486.1	478.8	398.7
80°	123.9	138.4	177.1	220.0	285.7	401.5	505.1	519.6	506.5	497.0	400.9
82.5°	120.3	134.1	169.8	217.2	288.6	407.4	514.5	551.0	513.8	502.1	398.7
85°	133.4	142.1	179.3	232.5	307.6	417.6	510.9	568.4	567.7	555.4	435.1
87.5°	158.9	166.2	202.5	256.5	328.0	423.4	556.0	579.4	548.8	542.9	439.4
90°	196.7	201.9	239.9	289.3	349.1	420.5	458.5	488.3	508.7	504.3	416.9
92.5°	234.0	240.5	274.8	311.2	338.1	361.4	398.7	467.8	470.8	467.2	400.9
95°	277.6	282.0	301.8	319.9	325.8	333.8	370.9	401.5	435.1	430.7	386.2
97.5°	301.8	304.0	312.7	310.6	296.6	298.1	339.6	372.5	392.8	387.8	338.1
100°	295.9	298.1	299.5	286.4	267.4	273.2	307.6	346.9	363.0	360.8	313.3
102.5°	277.0	280.6	281.4	268.2	250.7	252.2	285.7	315.5	332.3	329.4	292.3
105°	271.8	273.2	266.7	249.2	228.8	231.7	263.9	295.9	315.5	314.1	276.2
107.5°	244.8	246.4	236.9	220.0	212.8	220.8	249.9	270.4	283.5	283.5	246.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	205.5	205.5	203.3	199.7	201.1	212.8	236.9	249.9	260.9	260.1	225.2
112.5°	199.0	197.5	195.3	192.4	188.0	197.5	213.5	229.6	231.7	231.0	201.1
115°	196.0	193.8	186.7	178.5	173.5	180.8	193.2	207.7	213.5	212.8	191.6
117.5°	173.5	173.5	167.6	161.8	159.6	169.2	184.4	193.8	194.6	196.0	175.7
120°	155.2	155.2	151.6	148.7	150.1	154.5	171.3	179.3	186.7	185.8	168.4
122.5°	141.4	142.1	139.2	133.4	138.4	142.8	152.3	160.3	168.4	167.6	155.2
125°	127.5	126.8	123.9	117.4	129.0	134.8	135.6	134.8	142.8	142.8	131.8
127.5°	113.0	112.2	109.4	105.7	121.0	129.0	127.5	116.0	121.0	120.3	115.2
130°	111.6	110.8	105.7	101.3	108.6	122.5	116.0	107.8	112.2	113.0	107.8
132.5°	110.8	110.1	105.0	97.7	95.5	110.1	98.4	99.9	105.0	105.0	100.6
135°	103.5	102.8	98.4	88.2	78.0	91.1	78.0	86.0	92.6	92.6	88.9
137.5°	91.1	90.3	86.0	77.2	62.8	64.9	59.0	72.1	79.4	80.2	77.2
140°	72.1	72.8	68.5	59.8	45.3	34.3	38.7	56.2	63.4	63.4	62.8
142.5°	54.0	54.0	49.6	40.9	26.2	12.3	21.9	34.3	43.0	43.7	45.3
145°	37.9	37.9	33.6	26.2	13.1	2.1	10.2	20.4	27.0	27.0	29.2
147.5°	24.8	24.8	21.1	14.5	3.6	0.8	2.9	10.2	16.1	16.1	17.5
150°	15.3	15.3	11.7	4.4	0.8	0.0	0.8	2.1	7.3	7.3	9.5
152.5°	5.1	4.4	2.1	1.4	0.8	0.0	0.0	0.8	0.8	0.8	2.1
155°	1.4	1.4	1.4	0.8	0.0	0.0	0.0	0.0	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	0.8
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°	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1
2.5°	616.6	615.1	610.0	603.4	595.5	585.2	578.6	575.8	572.1	569.2	570.7
5°	637.0	631.8	620.1	599.1	579.4	564.8	553.2	542.9	537.9	533.5	533.5
7.5°	711.3	702.5	669.8	634.0	589.6	549.5	521.0	506.5	489.7	485.3	484.7
10°	873.1	862.2	792.9	706.9	623.1	544.4	473.0	434.5	416.2	406.7	408.8
12.5°	1007.2	982.5	903.7	806.0	690.2	563.3	464.3	395.0	364.4	352.7	348.3
15°	996.2	954.7	869.4	777.0	686.4	594.0	494.8	416.9	353.5	332.3	328.0
17.5°	972.2	928.4	815.5	696.7	591.1	534.2	478.8	422.0	373.8	341.8	336.0
20°	1094.7	1045.1	897.9	779.8	631.1	487.6	424.2	392.1	361.4	345.5	341.8
22.5°	1147.1	1096.9	961.3	811.9	664.7	540.8	437.2	378.2	354.2	351.3	346.9
25°	1225.8	1162.4	978.1	790.1	647.9	546.7	438.0	379.6	343.9	343.9	341.8
27.5°	1480.1	1387.6	1142.0	877.5	672.7	525.4	427.1	363.0	319.9	303.2	299.5
30°	1593.9	1505.7	1204.7	900.1	683.6	530.6	406.7	333.0	304.7	292.3	290.7
32.5°	1676.2	1561.1	1178.5	845.4	628.2	495.6	389.2	322.1	293.7	282.8	279.8
35°	1717.0	1565.4	1213.5	825.7	594.7	454.7	368.8	309.8	292.3	283.5	283.5
37.5°	1916.0	1727.9	1231.0	820.6	569.2	415.4	350.5	310.6	273.2	260.9	261.6
40°	2190.7	1923.3	1296.5	782.8	519.6	401.5	338.9	296.6	262.3	254.3	251.4
41°	2221.3	1951.7	1362.1	782.0	496.2	391.3	338.1	295.1	258.0	256.5	255.7
42.5°	2139.8	1860.5	1214.9	710.6	465.7	374.6	336.7	293.7	253.6	257.3	256.5
45°	2233.0	1956.1	1182.0	650.8	412.5	346.9	319.2	285.7	250.7	244.2	244.8
47.5°	1940.0	1658.0	1017.4	566.3	365.2	317.1	295.1	267.4	243.4	239.9	239.9
50°	1545.0	1300.1	800.3	497.7	321.4	292.3	271.8	253.6	228.8	219.4	222.3
52.5°	1574.2	1316.9	811.1	463.5	292.3	266.7	253.6	231.0	201.9	184.4	187.3
55°	865.8	750.6	474.4	355.6	271.1	247.8	232.5	209.1	177.1	157.5	159.6
57.5°	392.8	326.4	252.2	244.8	234.7	228.2	211.3	190.2	159.6	137.7	137.7
60°	351.3	287.9	225.2	204.8	209.9	210.7	193.2	172.7	142.8	117.4	118.1
62.5°	343.3	280.6	218.6	195.3	199.7	199.7	182.9	162.5	135.6	109.4	109.4
65°	341.8	277.6	219.4	192.4	195.3	196.0	179.3	162.5	144.3	125.3	126.8
67.5°	362.2	293.7	226.6	190.2	193.2	193.2	179.3	166.8	155.9	144.3	145.8
70°	351.3	288.6	225.2	190.2	188.8	188.8	178.5	167.6	161.8	151.6	152.3
72.5°	355.6	297.3	229.6	188.8	182.9	181.5	175.0	168.4	163.3	158.1	158.9
75°	349.1	294.5	222.3	181.5	174.2	171.3	166.8	165.4	166.2	164.0	162.5
77.5°	338.9	289.3	217.2	174.2	166.2	159.6	156.7	157.5	160.3	158.1	155.9
80°	337.4	290.1	215.0	169.8	155.9	145.0	141.4	142.8	143.5	139.2	134.8
82.5°	333.0	284.2	204.8	158.1	140.6	126.8	123.9	126.0	126.8	122.5	118.1
85°	358.6	299.5	201.9	147.2	127.5	113.0	107.8	108.6	103.5	96.9	92.6
87.5°	368.8	302.4	190.2	130.4	114.4	102.0	95.5	91.1	83.0	72.1	69.3
90°	350.5	287.2	171.3	112.2	100.6	91.1	83.0	77.2	67.0	56.2	52.5
92.5°	339.6	275.5	157.5	100.6	88.2	80.2	72.8	64.1	54.0	41.5	39.4
95°	333.0	271.1	148.7	89.6	78.6	70.7	63.4	55.4	45.3	35.7	34.3
97.5°	290.1	234.7	131.2	80.2	69.3	62.0	55.4	47.4	37.9	30.6	29.2
100°	269.7	218.6	121.8	72.1	61.1	54.6	48.8	42.3	34.3	29.2	28.4
102.5°	252.2	203.3	110.8	64.9	54.6	48.1	43.0	37.1	31.3	27.0	27.7
105°	239.1	193.8	106.4	59.8	48.8	43.7	37.9	33.6	27.7	24.8	24.8
107.5°	212.1	172.0	94.0	54.0	44.5	39.4	35.0	30.6	26.2	24.0	24.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	196.0	159.6	89.6	51.8	42.3	36.5	32.0	27.7	23.3	23.3	23.3
112.5°	174.2	143.5	83.0	48.8	39.4	34.3	29.8	24.8	20.4	21.1	21.9
115°	166.8	138.4	80.2	46.7	37.9	32.8	27.7	23.3	18.2	19.6	20.4
117.5°	153.7	128.3	78.0	46.7	36.5	30.6	26.2	21.9	17.5	18.9	18.9
120°	149.3	126.0	78.0	45.9	35.0	29.2	24.8	18.9	16.1	17.5	17.5
122.5°	139.2	118.1	74.3	45.3	33.6	27.7	24.0	16.1	13.8	15.3	15.3
125°	119.5	102.8	67.0	42.3	32.0	27.7	23.3	13.1	13.1	14.5	14.5
127.5°	104.3	90.3	61.1	41.5	32.8	29.2	21.9	10.9	11.7	13.1	13.1
130°	99.1	88.2	63.4	45.3	35.7	30.6	16.1	10.2	10.9	12.3	13.1
132.5°	94.0	85.2	64.9	48.8	37.9	29.8	13.1	9.5	10.2	11.7	11.7
135°	83.8	77.2	60.5	46.7	35.7	24.0	9.5	7.9	9.5	10.9	10.9
137.5°	73.6	68.5	55.4	43.0	32.8	18.9	6.5	7.3	7.9	8.7	8.7
140°	60.5	56.2	45.9	35.0	24.0	10.2	4.4	5.8	6.5	7.3	7.3
142.5°	43.7	40.9	32.8	23.3	13.8	3.6	2.9	4.4	5.1	5.8	5.8
145°	29.2	27.0	21.1	14.5	5.1	2.1	1.4	2.9	4.4	4.4	5.1
147.5°	17.5	16.7	12.3	6.5	2.1	1.4	1.4	2.1	2.9	3.6	3.6
150°	8.7	8.7	5.8	2.1	1.4	0.8	0.8	0.8	1.4	2.1	2.1
152.5°	2.1	1.4	1.4	1.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.8	0.8	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)