

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: P240042

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-A-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240042
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-AF24-70-D-U-SL3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 5727.3 lumens
Efficiency: N/A
Efficacy: 77.4 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: B1 - 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

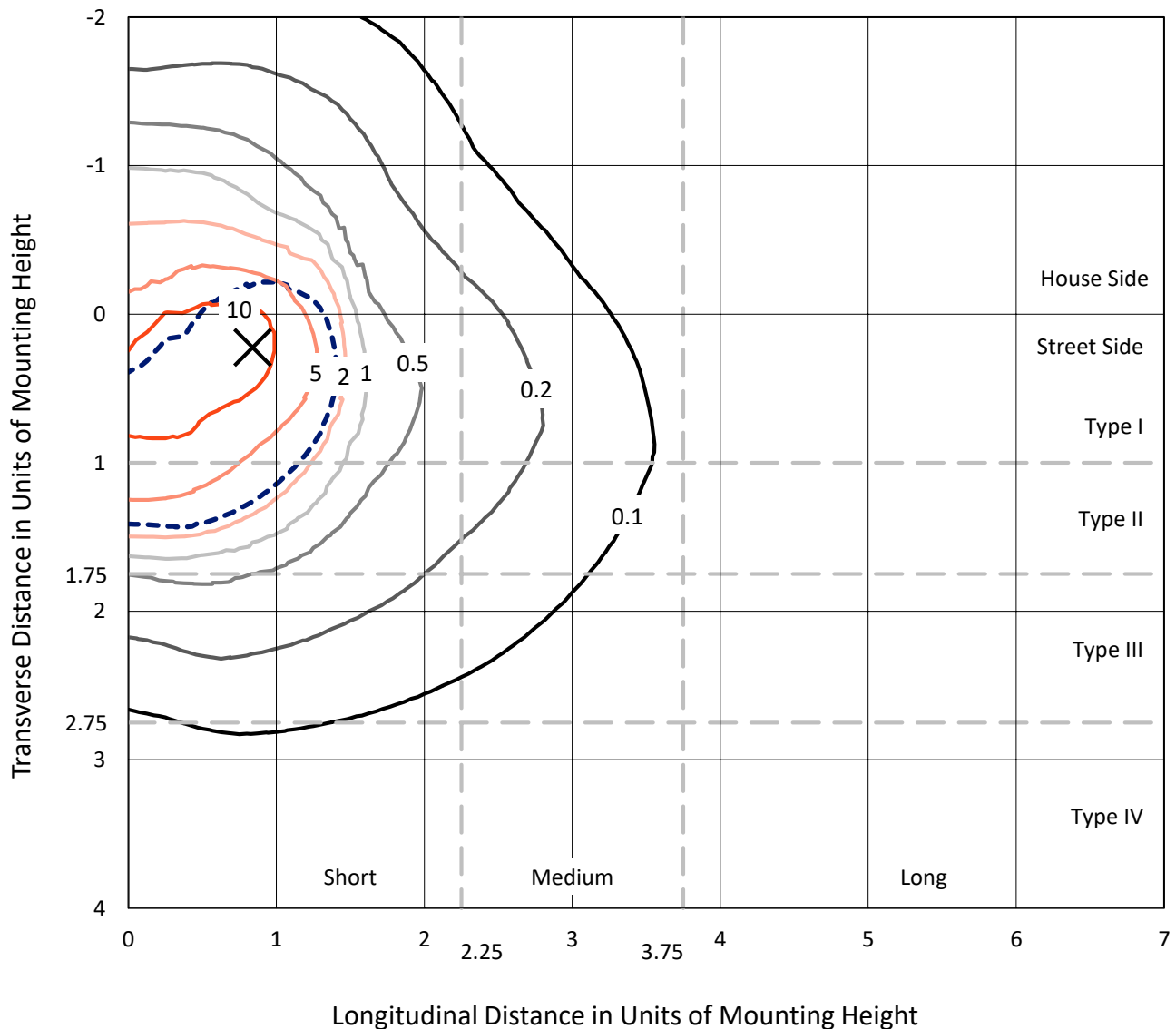


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

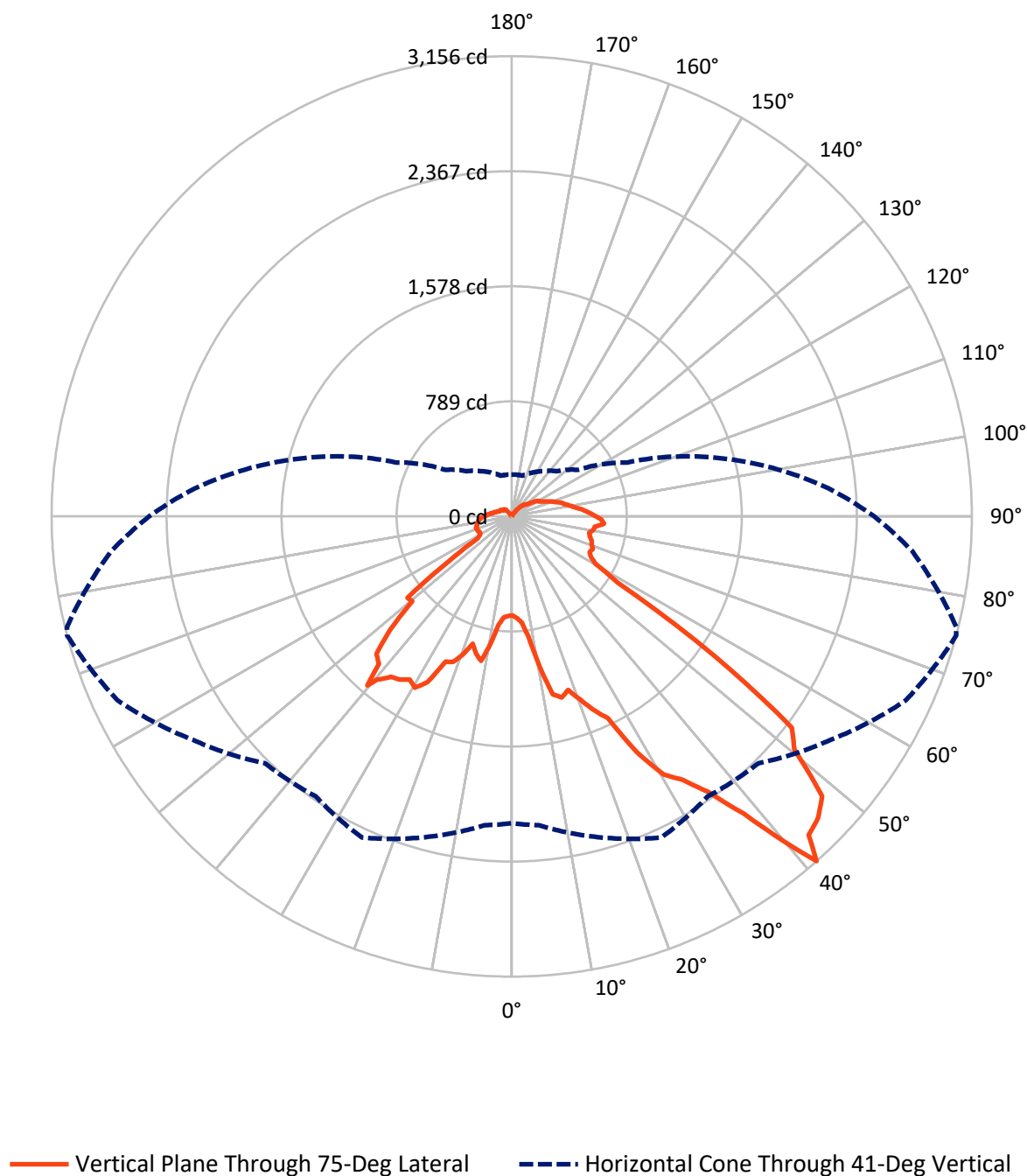


Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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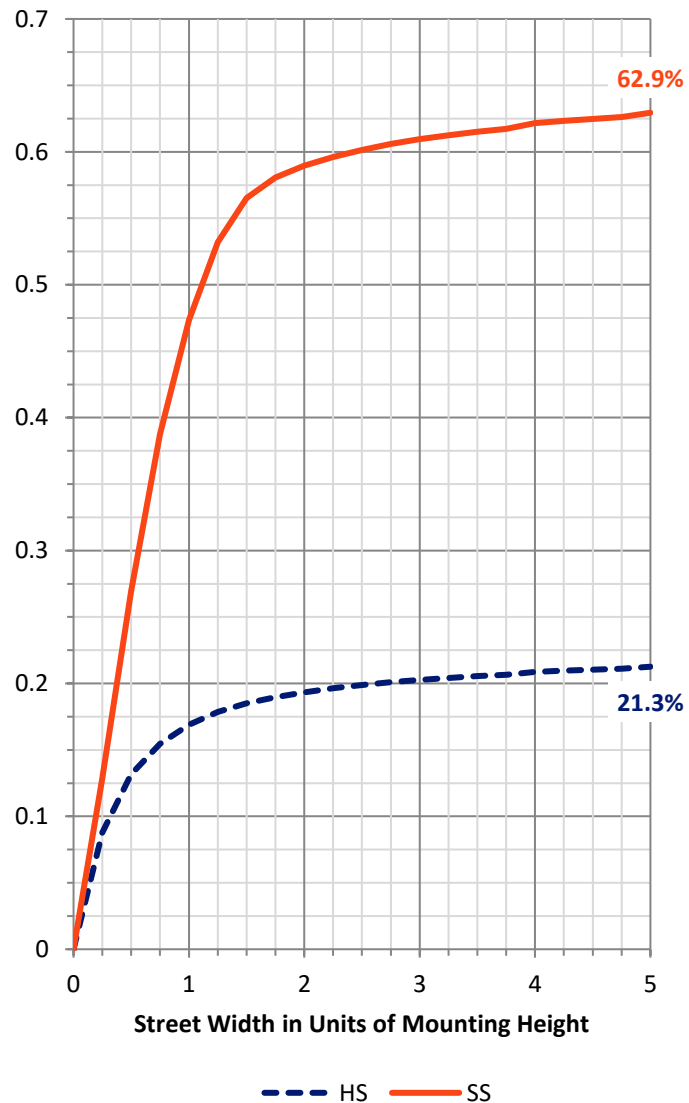
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1263.4	161.1	1424.5
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	3715.7	587.2	4302.8
	% Fixture	64.9	10.3	75.1
Total	Lumens	4979.1	748.3	5727.3
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	1.2
10°-20°	283.4	4.9
20°-30°	582.3	10.2
30°-40°	948.0	16.6
40°-50°	1231.3	21.5
50°-60°	873.0	15.2
60°-70°	354.9	6.2
70°-80°	321.1	5.6
80°-90°	313.6	5.5
90°-100°	269.0	4.7
100°-110°	194.8	3.4
110°-120°	132.9	2.3
120°-130°	86.3	1.5
130°-140°	51.5	0.9
140°-150°	13.1	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4979.1	86.9
0°-180°	5727.3	100.0

Coefficient of Utilization



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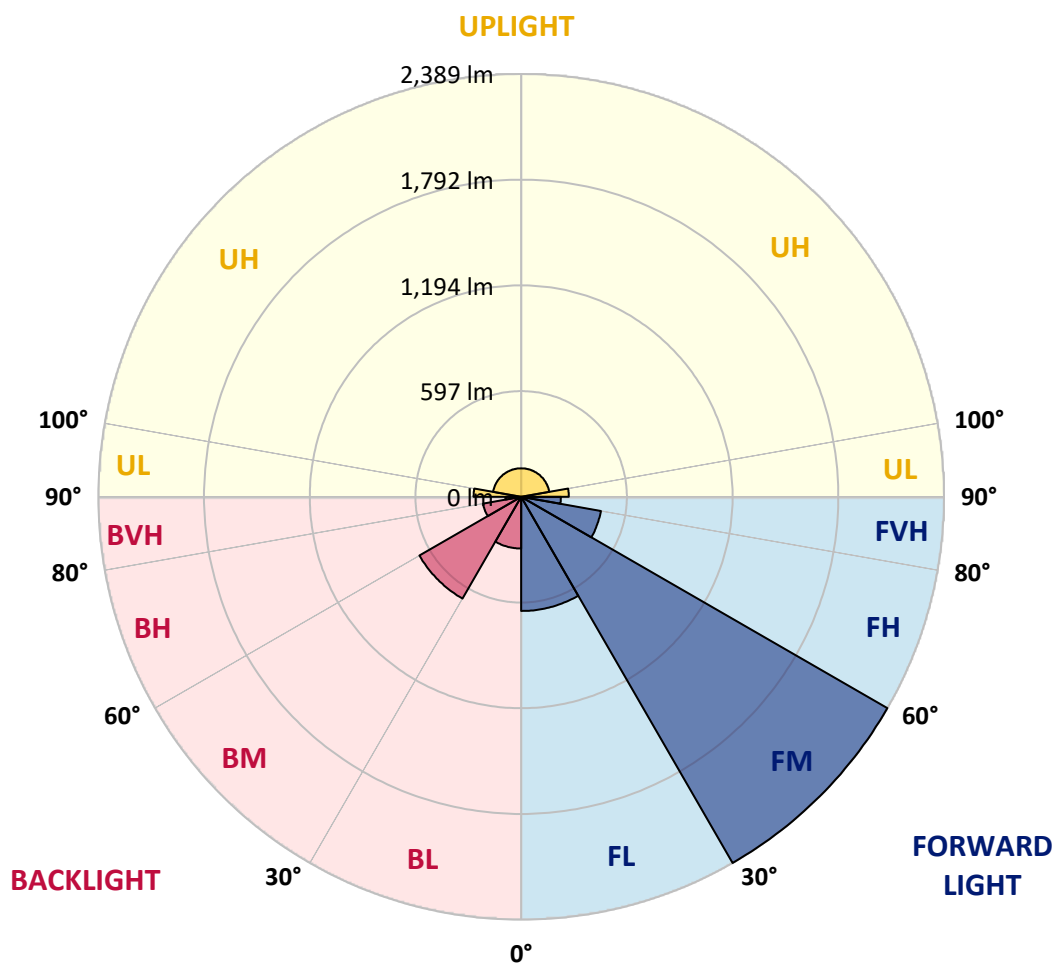
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	644.9	11.3			
FM	(30°-60°)	2388.7	41.7			
FH	(60°-80°)	457.3	8.0			G0/660
FVH	(80°-90°)	224.7	3.9			G2/225
BL	(0°-30°)	292.3	5.1	B1/500		
BM	(30°-60°)	663.6	11.6	B1/1000		
BH	(60°-80°)	218.6	3.8	B1/500		G1/500
BVH	(80°-90°)	89.0	1.6			G1/100
UL	(90°-100°)	269.0	4.7		U3/500	
UH	(100°-180°)	161.1	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°	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4
2.5°	726.7	728.3	725.1	722.6	721.0	716.0	712.1	706.4	698.1	697.4	694.2
5°	792.7	792.7	792.7	787.1	780.5	769.9	761.0	747.9	732.5	731.6	719.4
7.5°	899.6	899.6	894.8	886.5	871.9	855.6	854.0	852.3	831.1	828.6	806.7
10°	1014.6	1011.4	1013.8	1020.4	1027.7	1049.7	1063.5	1065.2	1042.4	1036.7	1004.8
12.5°	1059.5	1062.8	1091.3	1143.5	1231.6	1319.7	1365.3	1327.8	1252.0	1242.2	1167.1
15°	1128.0	1132.0	1179.4	1266.7	1413.5	1540.7	1501.5	1407.7	1287.8	1278.9	1163.1
17.5°	1311.5	1330.2	1375.9	1514.6	1663.8	1612.4	1480.4	1359.6	1251.1	1240.5	1143.5
20°	1440.4	1451.0	1539.0	1672.0	1777.2	1698.9	1608.4	1486.9	1340.8	1340.8	1265.0
22.5°	1547.2	1544.0	1615.7	1816.3	1877.5	1827.0	1721.7	1597.8	1442.8	1435.4	1336.8
25°	1715.3	1725.9	1849.8	2071.7	2015.4	1886.5	1747.8	1634.5	1532.6	1523.5	1424.8
27.5°	1813.1	1840.8	1983.6	2176.0	2140.2	1966.4	1845.0	1827.8	1835.1	1827.8	1720.2
30°	1837.5	1849.8	2026.0	2216.9	2192.4	2063.5	2063.5	2092.1	2054.5	2043.9	1899.6
32.5°	1898.7	1928.1	2096.9	2245.4	2185.8	2161.3	2174.5	2168.7	2152.4	2137.7	1969.7
35°	1998.3	2023.5	2181.8	2293.5	2185.0	2194.0	2311.5	2379.1	2320.4	2307.3	2057.1
37.5°	2260.0	2284.5	2427.3	2420.7	2243.0	2260.0	2473.0	2596.9	2586.2	2584.6	2336.7
40°	2207.9	2288.7	2461.5	2488.5	2329.4	2348.2	2602.7	2871.8	2995.8	2992.5	2685.0
41°	2103.5	2125.5	2276.4	2429.0	2343.3	2393.0	2670.3	2982.7	3155.6	3143.4	2758.4
42.5°	2140.9	2180.2	2269.9	2320.4	2326.9	2426.4	2723.3	2996.6	2987.5	2981.9	2667.0
45°	2460.7	2477.0	2514.5	2417.5	2253.6	2377.5	2694.0	2947.6	2946.8	2920.7	2778.8
47.5°	2306.6	2353.0	2512.9	2426.4	2246.2	2244.5	2452.6	2796.0	2864.4	2826.9	2473.7
50°	2181.8	2215.2	2308.2	2216.0	2136.9	2135.3	2331.0	2589.6	2511.4	2500.6	2015.4
52.5°	1935.4	1968.1	2034.2	2011.4	1966.4	1961.5	2110.8	2381.7	2406.1	2397.9	2034.2
55°	1471.4	1494.2	1743.0	1749.5	1716.0	1732.5	1853.0	1963.2	1689.1	1645.1	1143.5
57.5°	864.6	923.2	1164.7	1315.6	1384.9	1398.0	1356.4	1161.4	857.2	826.2	527.7
60°	426.5	456.7	624.8	784.6	964.1	970.6	838.4	742.2	658.2	639.5	461.6
62.5°	304.2	322.2	432.2	517.2	617.5	633.7	587.3	627.2	609.2	597.8	449.4
65°	275.7	291.1	383.4	428.2	469.9	495.1	506.5	573.4	587.3	579.9	446.1
67.5°	252.1	267.4	349.8	384.1	415.1	455.9	480.4	546.6	599.5	594.6	473.1
70°	222.7	240.6	315.6	357.3	395.5	442.1	475.5	544.8	583.1	576.7	458.4
72.5°	194.9	211.2	272.4	321.3	377.6	430.6	480.4	531.0	573.4	567.7	464.2
75°	169.7	186.0	239.0	289.5	354.0	433.9	483.7	526.8	553.8	545.6	455.9
77.5°	152.5	168.8	214.4	264.3	336.1	438.7	528.5	544.8	544.0	535.8	446.1
80°	138.6	154.9	198.2	246.3	319.7	449.4	565.2	581.5	566.8	556.2	448.6
82.5°	134.6	150.1	190.0	243.1	323.0	455.9	575.8	616.6	575.0	561.9	446.1
85°	149.2	159.1	200.6	260.1	344.1	467.3	571.8	636.2	635.4	621.4	487.0
87.5°	177.8	186.0	226.7	287.2	367.0	473.8	622.3	648.5	614.1	607.6	491.7
90°	220.2	225.9	268.3	323.9	390.7	470.6	513.0	546.6	569.4	564.5	466.5
92.5°	261.7	269.1	307.4	348.3	378.5	404.6	446.1	523.6	526.8	522.8	448.6
95°	310.8	315.6	337.6	358.1	364.6	373.5	415.1	449.4	487.0	482.1	432.2
97.5°	337.6	340.2	349.8	347.5	331.9	333.6	380.1	416.9	439.7	433.9	378.5
100°	331.2	333.6	335.2	320.5	299.4	305.8	344.1	388.2	406.2	403.7	350.7
102.5°	310.0	314.0	314.7	300.1	280.6	282.2	319.7	353.1	371.9	368.6	327.0
105°	304.2	305.8	298.5	278.9	256.1	259.4	295.2	331.2	353.1	351.5	309.1
107.5°	274.0	275.7	265.1	246.3	238.1	247.2	279.7	302.5	317.3	317.3	275.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	230.0	230.0	227.6	223.4	225.1	238.1	265.1	279.7	291.9	291.1	252.1
112.5°	222.7	221.0	218.6	215.3	210.5	221.0	239.0	256.9	259.4	258.5	225.1
115°	219.4	217.0	208.8	199.8	194.2	202.2	216.2	232.5	239.0	238.1	214.4
117.5°	194.2	194.2	187.6	181.1	178.6	189.2	206.4	217.0	217.8	219.4	196.5
120°	173.7	173.7	169.7	166.4	168.0	172.9	191.6	200.6	208.8	208.0	188.4
122.5°	158.2	159.1	155.8	149.2	154.9	159.8	170.5	179.4	188.4	187.6	173.7
125°	142.7	141.9	138.6	131.3	144.3	150.9	151.7	150.9	159.8	159.8	147.6
127.5°	126.4	125.6	122.4	118.2	135.4	144.3	142.7	129.7	135.4	134.6	128.8
130°	124.8	124.0	118.2	113.4	121.5	137.0	129.7	120.7	125.6	126.4	120.7
132.5°	124.0	123.1	117.5	109.3	106.8	123.1	110.2	111.8	117.5	117.5	112.5
135°	115.9	115.0	110.2	98.7	87.3	101.9	87.3	96.2	103.6	103.6	99.5
137.5°	101.9	101.2	96.2	86.5	70.2	72.5	66.1	80.8	88.9	89.7	86.5
140°	80.8	81.5	76.7	66.8	50.6	38.4	43.2	62.9	70.9	70.9	70.2
142.5°	60.3	60.3	55.5	45.7	29.4	13.8	24.5	38.4	48.1	48.9	50.6
145°	42.4	42.4	37.4	29.4	14.6	2.4	11.5	22.8	30.1	30.1	32.7
147.5°	27.8	27.8	23.6	16.3	4.1	0.8	3.3	11.5	17.9	17.9	19.5
150°	17.2	17.2	13.0	4.9	0.8	0.0	0.8	2.4	8.2	8.2	10.6
152.5°	5.7	4.9	2.4	1.6	0.8	0.0	0.0	0.8	0.8	0.8	2.4
155°	1.6	1.6	1.6	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°	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4
2.5°	690.0	688.4	682.7	675.3	666.4	654.9	647.6	644.3	640.3	637.0	638.6
5°	712.8	707.1	694.2	670.5	648.5	632.1	619.1	607.6	601.9	597.0	597.0
7.5°	796.1	786.2	749.5	709.5	659.8	615.0	583.1	566.8	548.1	543.2	542.4
10°	977.1	964.9	887.4	791.1	697.4	609.2	529.4	486.1	465.7	455.1	457.6
12.5°	1127.2	1099.4	1011.4	902.1	772.4	630.4	519.5	442.1	407.7	394.8	389.8
15°	1115.0	1068.4	973.1	869.4	768.3	664.8	553.8	466.5	395.5	371.9	367.0
17.5°	1088.0	1039.0	912.7	779.7	661.4	597.8	535.8	472.2	418.5	382.5	376.0
20°	1225.1	1169.6	1004.8	872.7	706.4	545.6	474.7	438.7	404.6	386.6	382.5
22.5°	1283.8	1227.5	1075.7	908.6	743.8	605.2	489.4	423.3	396.4	393.2	388.2
25°	1371.9	1301.0	1094.6	884.1	725.1	611.8	490.1	424.9	384.9	384.9	382.5
27.5°	1656.5	1552.9	1278.2	982.0	752.8	588.1	477.9	406.2	358.1	339.2	335.2
30°	1783.7	1685.1	1348.3	1007.3	765.1	593.8	455.1	372.7	340.9	327.0	325.5
32.5°	1875.9	1747.0	1318.9	946.0	703.1	554.6	435.5	360.4	328.7	316.5	313.2
35°	1921.6	1752.0	1358.0	924.2	665.5	508.9	412.7	346.7	327.0	317.3	317.3
37.5°	2144.2	1933.8	1377.5	918.5	637.0	464.9	392.3	347.5	305.8	291.9	292.9
40°	2451.8	2152.4	1451.0	875.9	581.5	449.4	379.2	331.9	293.6	284.6	281.4
41°	2485.9	2184.2	1524.3	875.1	555.5	438.0	378.5	330.3	288.8	287.2	286.3
42.5°	2394.6	2082.3	1359.6	795.2	521.1	419.2	376.8	328.7	283.8	287.9	287.2
45°	2499.1	2189.1	1322.9	728.3	461.6	388.2	357.3	319.7	280.6	273.2	274.0
47.5°	2171.2	1855.5	1138.6	633.7	408.6	354.8	330.3	299.4	272.4	268.3	268.3
50°	1729.1	1455.0	895.5	557.1	359.7	327.0	304.2	283.8	256.1	245.5	248.8
52.5°	1761.7	1473.8	907.7	518.8	327.0	298.5	283.8	258.5	225.9	206.4	209.6
55°	968.9	840.1	531.0	398.0	303.4	277.3	260.1	234.1	198.2	176.1	178.6
57.5°	439.7	365.4	282.2	274.0	262.7	255.3	236.5	212.8	178.6	154.2	154.2
60°	393.2	322.2	252.1	229.2	234.9	235.7	216.2	193.3	159.8	131.3	132.1
62.5°	384.1	314.0	244.6	218.6	223.4	223.4	204.8	181.9	151.7	122.4	122.4
65°	382.5	310.8	245.5	215.3	218.6	219.4	200.6	181.9	161.4	140.3	141.9
67.5°	405.4	328.7	253.7	212.8	216.2	216.2	200.6	186.8	174.5	161.4	163.2
70°	393.2	323.0	252.1	212.8	211.2	211.2	199.8	187.6	181.1	169.7	170.5
72.5°	398.0	332.8	256.9	211.2	204.8	203.1	195.8	188.4	182.7	177.0	177.8
75°	390.7	329.5	248.8	203.1	194.9	191.6	186.8	185.2	186.0	183.5	181.9
77.5°	379.2	323.9	243.1	194.9	186.0	178.6	175.4	176.1	179.4	177.0	174.5
80°	377.6	324.6	240.6	190.0	174.5	162.4	158.2	159.8	160.7	155.8	150.9
82.5°	372.7	318.1	229.2	177.0	157.5	141.9	138.6	141.1	141.9	137.0	132.1
85°	401.3	335.2	225.9	164.8	142.7	126.4	120.7	121.5	115.9	108.5	103.6
87.5°	412.7	338.4	212.8	146.0	128.1	114.1	106.8	101.9	93.0	80.8	77.5
90°	392.3	321.3	191.6	125.6	112.5	101.9	93.0	86.5	75.1	62.9	58.7
92.5°	380.1	308.3	176.1	112.5	98.7	89.7	81.5	71.8	60.3	46.6	44.0
95°	372.7	303.4	166.4	100.3	88.1	79.1	70.9	62.0	50.6	40.0	38.4
97.5°	324.6	262.7	146.9	89.7	77.5	69.4	62.0	53.0	42.4	34.3	32.7
100°	301.8	244.6	136.2	80.8	68.5	61.1	54.6	47.3	38.4	32.7	31.8
102.5°	282.2	227.6	124.0	72.5	61.1	53.9	48.1	41.6	35.1	30.1	31.0
105°	267.4	217.0	119.1	66.8	54.6	48.9	42.4	37.4	31.0	27.8	27.8
107.5°	237.3	192.6	105.2	60.3	49.7	44.0	39.2	34.3	29.4	26.9	27.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	219.4	178.6	100.3	57.9	47.3	40.8	35.8	31.0	26.1	26.1	26.1
112.5°	194.9	160.7	93.0	54.6	44.0	38.4	33.5	27.8	22.8	23.6	24.5
115°	186.8	154.9	89.7	52.2	42.4	36.7	31.0	26.1	20.4	22.1	22.8
117.5°	172.1	143.5	87.3	52.2	40.8	34.3	29.4	24.5	19.5	21.2	21.2
120°	167.1	141.1	87.3	51.4	39.2	32.7	27.8	21.2	17.9	19.5	19.5
122.5°	155.8	132.1	83.1	50.6	37.4	31.0	26.9	17.9	15.6	17.2	17.2
125°	133.8	115.0	75.1	47.3	35.8	31.0	26.1	14.6	14.6	16.3	16.3
127.5°	116.6	101.2	68.5	46.6	36.7	32.7	24.5	12.2	13.0	14.6	14.6
130°	110.9	98.7	70.9	50.6	40.0	34.3	17.9	11.5	12.2	13.8	14.6
132.5°	105.2	95.4	72.5	54.6	42.4	33.5	14.6	10.6	11.5	13.0	13.0
135°	93.8	86.5	67.7	52.2	40.0	26.9	10.6	9.0	10.6	12.2	12.2
137.5°	82.4	76.7	62.0	48.1	36.7	21.2	7.3	8.2	9.0	9.9	9.9
140°	67.7	62.9	51.4	39.2	26.9	11.5	4.9	6.5	7.3	8.2	8.2
142.5°	48.9	45.7	36.7	26.1	15.6	4.1	3.3	4.9	5.7	6.5	6.5
145°	32.7	30.1	23.6	16.3	5.7	2.4	1.6	3.3	4.9	4.9	5.7
147.5°	19.5	18.8	13.8	7.3	2.4	1.6	1.6	2.4	3.3	4.1	4.1
150°	9.9	9.9	6.5	2.4	1.6	0.8	0.8	0.8	1.6	2.4	2.4
152.5°	2.4	1.6	1.6	1.6	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)