

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: P240591

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240591
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 6888.5 lumens
Efficiency: N/A
Efficacy: 93.1 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

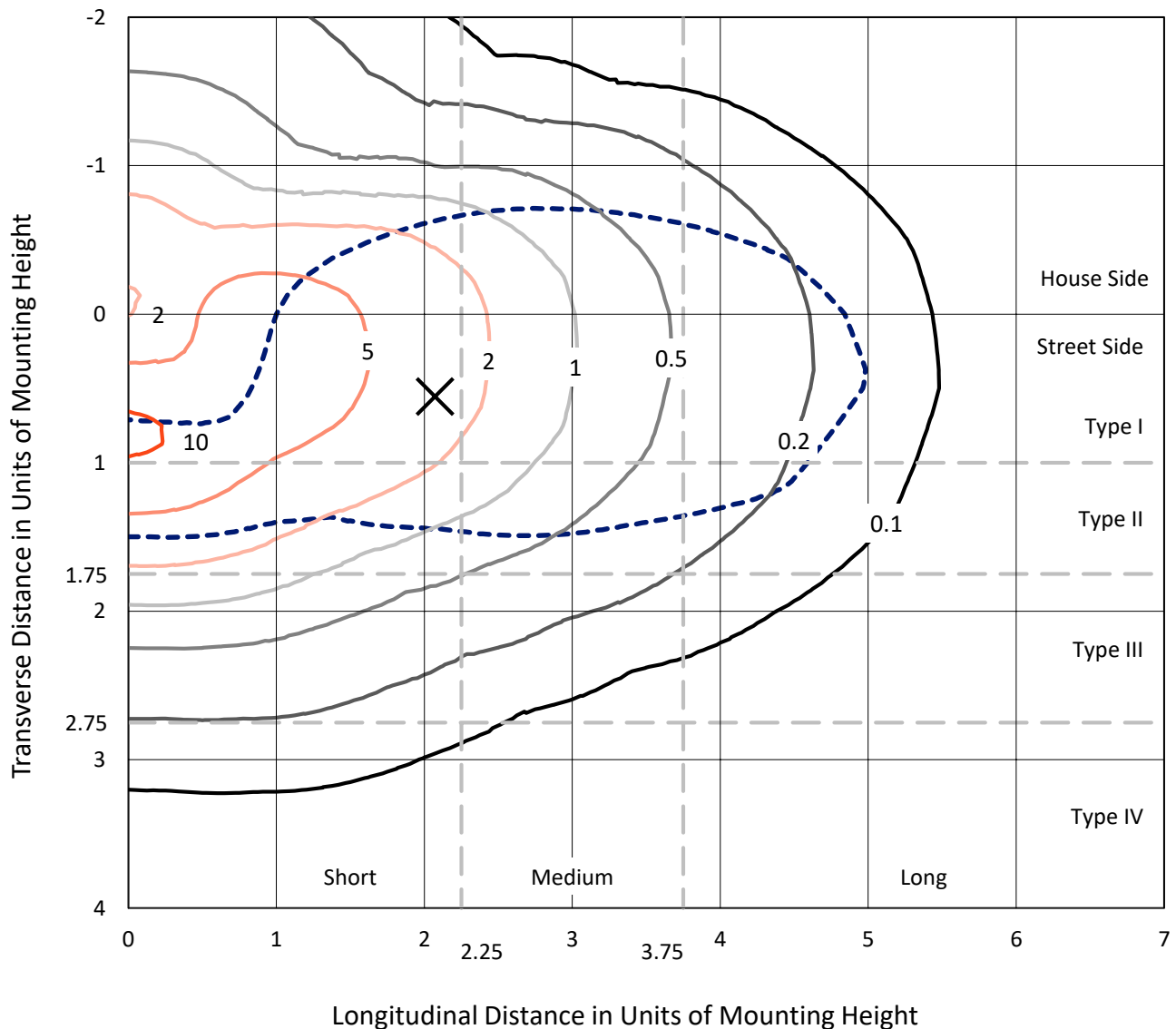


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

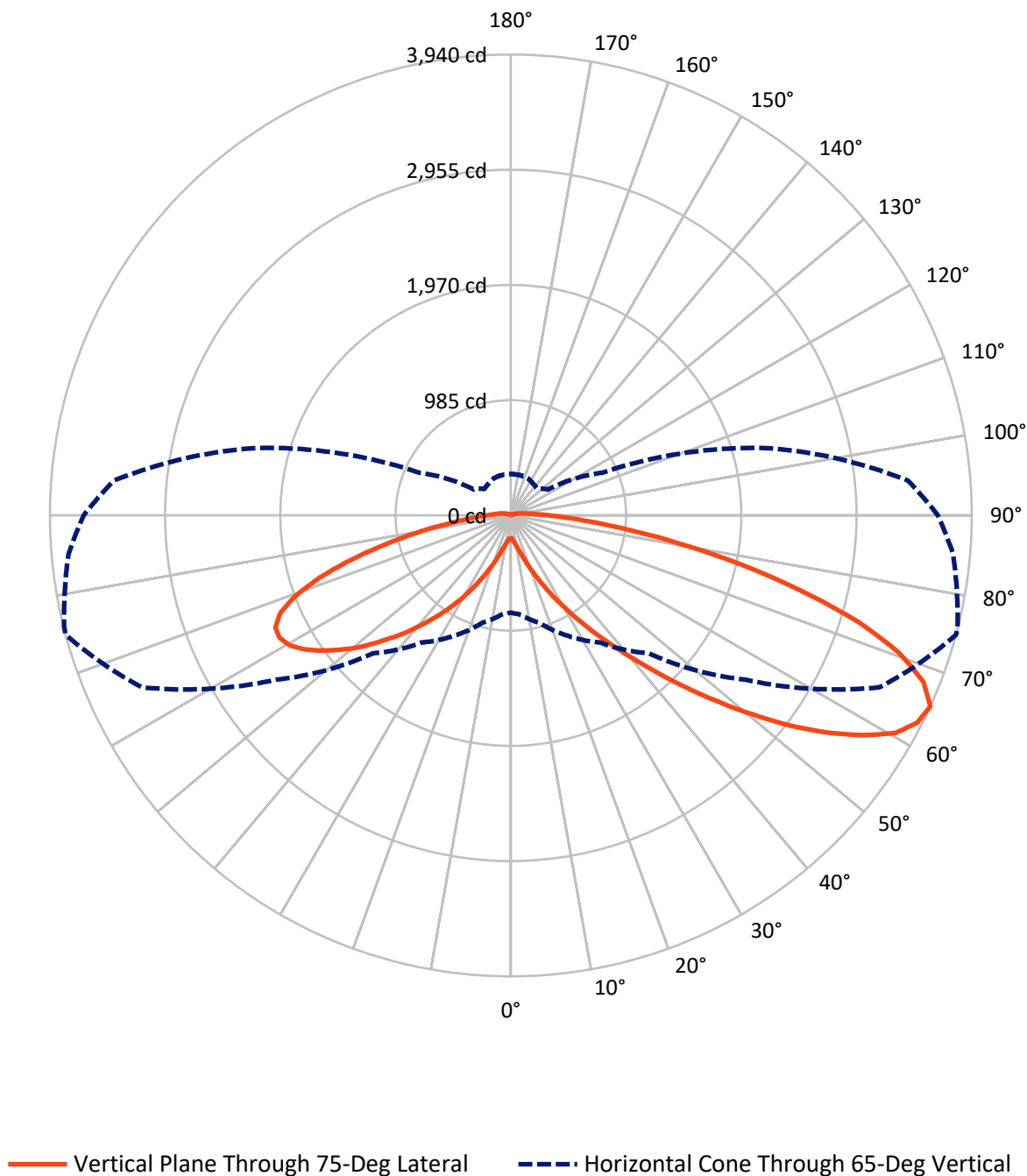


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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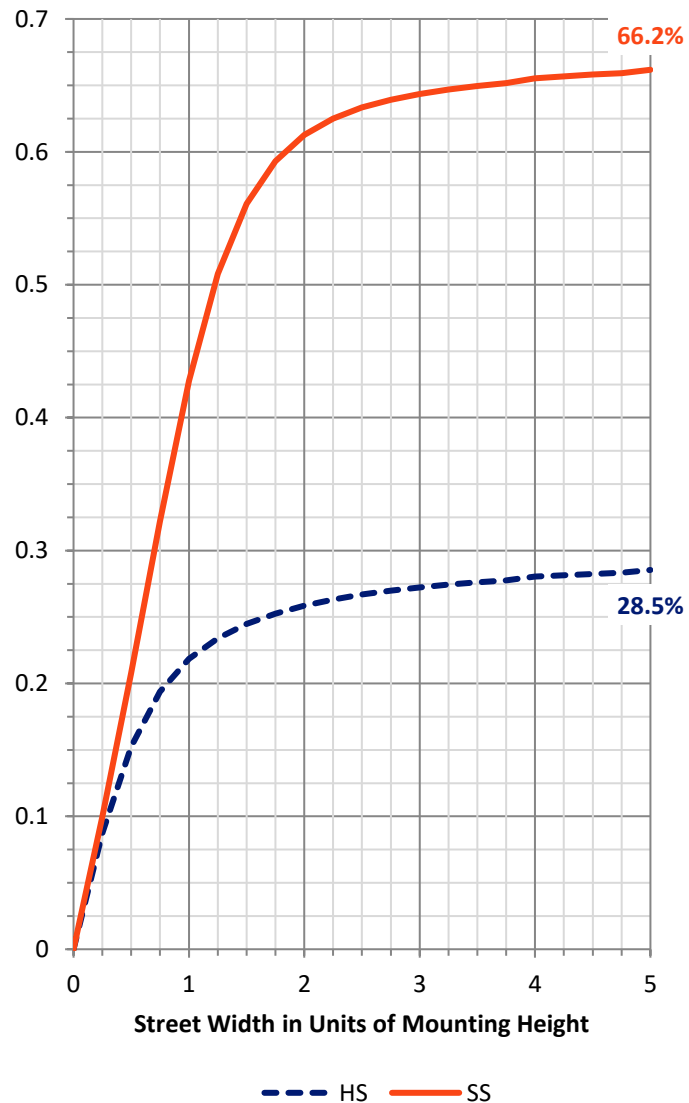
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2033.9	122.0	2155.9
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	4622.9	109.7	4732.6
	% Fixture	67.1	1.6	68.7
Total	Lumens	6656.8	231.7	6888.5
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.3
10°-20°	99.6	1.4
20°-30°	290.5	4.2
30°-40°	651.6	9.5
40°-50°	1159.5	16.8
50°-60°	1575.7	22.9
60°-70°	1530.2	22.2
70°-80°	964.5	14.0
80°-90°	363.7	5.3
90°-100°	123.8	1.8
100°-110°	56.0	0.8
110°-120°	27.0	0.4
120°-130°	14.2	0.2
130°-140°	7.4	0.1
140°-150°	2.7	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6656.8	96.6
0°-180°	6888.5	100.0

Coefficient of Utilization



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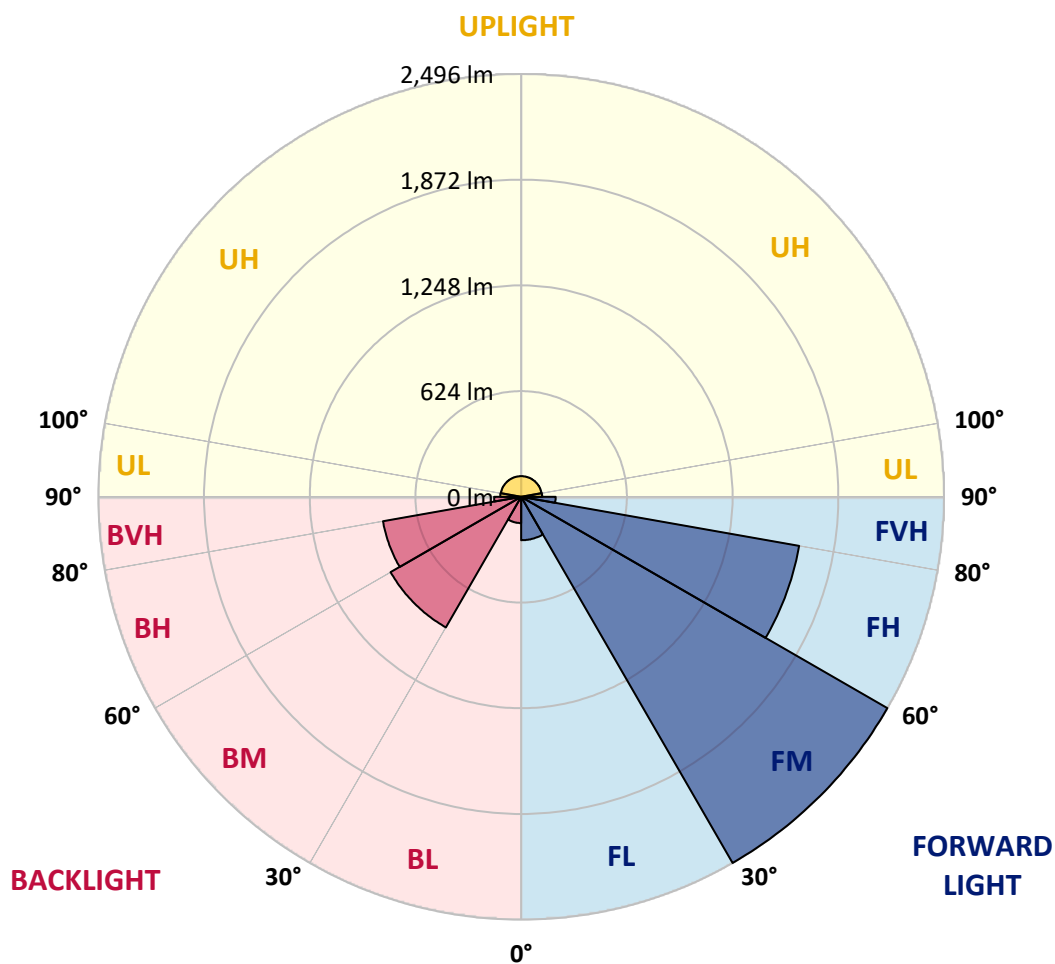
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	256.5	3.7			
FM	(30°-60°)	2496.5	36.2			
FH	(60°-80°)	1666.3	24.2			G1/1800
FVH	(80°-90°)	203.6	3.0			G2/225
BL	(0°-30°)	155.1	2.3	B1/500		
BM	(30°-60°)	890.3	12.9	B1/1000		
BH	(60°-80°)	828.3	12.0	B2/1000		G2/1000
BVH	(80°-90°)	160.2	2.3			G2/225
UL	(90°-100°)	123.8	1.8		U3/500	
UH	(100°-180°)	122.0	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°	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8
2.5°	213.1	212.3	212.3	212.3	210.5	208.8	206.2	204.5	201.8	201.0	200.2
5°	235.5	235.5	234.7	233.8	232.1	227.7	223.4	220.0	215.6	214.8	211.3
7.5°	270.9	270.1	269.1	264.8	262.3	256.2	249.3	244.2	236.4	236.4	231.2
10°	317.5	315.8	313.1	308.8	299.3	291.6	283.9	274.4	266.6	265.8	258.0
12.5°	372.7	372.7	369.3	360.6	348.5	337.4	324.4	314.0	303.7	302.8	295.9
15°	448.6	449.5	438.2	425.3	408.1	390.8	374.4	364.9	352.8	355.5	346.0
17.5°	542.7	540.9	531.4	505.5	477.1	454.7	435.7	425.3	415.8	416.6	409.8
20°	660.8	659.1	642.7	608.2	561.6	527.9	505.5	498.7	493.5	490.9	484.0
22.5°	806.6	798.0	765.3	720.4	664.3	616.0	591.8	581.4	579.7	580.6	573.7
25°	969.7	966.3	924.8	853.2	780.7	718.6	681.6	679.9	682.4	678.1	678.1
27.5°	1168.1	1158.6	1110.3	1011.1	907.6	833.4	790.2	785.9	798.0	794.5	789.4
30°	1400.2	1385.5	1319.9	1193.2	1060.3	961.1	911.0	911.0	923.9	923.9	922.3
32.5°	1642.7	1640.0	1538.2	1389.9	1232.9	1101.7	1058.5	1051.7	1064.6	1071.5	1062.8
35°	1915.3	1895.4	1778.1	1609.8	1407.1	1263.0	1209.5	1219.1	1229.4	1230.2	1216.4
37.5°	2193.0	2173.2	2038.6	1830.7	1594.3	1439.0	1383.8	1390.7	1407.1	1407.1	1389.0
40°	2431.1	2409.6	2277.6	2061.0	1801.3	1634.9	1576.2	1596.0	1607.3	1611.6	1582.2
42.5°	2619.3	2603.7	2485.5	2264.6	2000.7	1831.6	1793.6	1826.4	1837.6	1846.2	1804.0
45°	2724.4	2711.5	2629.6	2430.3	2168.0	2028.3	2035.2	2074.9	2096.4	2086.9	2041.2
47.5°	2740.9	2730.5	2684.8	2532.9	2321.6	2217.1	2282.7	2342.3	2375.1	2375.9	2298.3
50°	2639.1	2643.4	2644.2	2557.1	2407.8	2370.8	2514.0	2647.7	2672.7	2659.0	2567.5
52.5°	2441.5	2438.9	2488.9	2488.9	2423.4	2465.6	2708.1	2947.0	2981.6	2978.1	2851.3
55°	2148.2	2150.8	2243.9	2317.3	2341.4	2485.5	2866.8	3218.0	3274.9	3269.8	3129.9
57.5°	1783.2	1808.3	1923.0	2063.6	2173.2	2401.0	2940.2	3450.9	3544.0	3544.9	3375.8
60°	1428.7	1454.5	1588.2	1768.6	1927.3	2237.9	2891.0	3571.6	3776.1	3766.6	3587.2
62.5°	1091.4	1118.1	1246.7	1452.0	1636.6	1977.4	2723.6	3596.7	3899.5	3893.5	3739.0
65°	830.8	848.0	951.5	1131.9	1326.1	1665.9	2448.4	3477.6	3940.0	3935.7	3795.1
67.5°	621.1	628.9	727.3	873.1	1041.3	1347.5	2067.9	3191.2	3805.5	3809.8	3731.3
70°	477.9	483.1	554.7	681.6	806.6	1053.3	1675.4	2777.9	3522.5	3533.7	3531.1
72.5°	379.6	387.4	444.3	536.6	627.2	798.0	1295.8	2247.4	3103.2	3126.5	3196.4
75°	313.1	321.8	364.9	433.1	498.7	607.3	942.1	1724.6	2551.0	2600.2	2755.5
77.5°	258.8	267.4	303.7	357.2	397.7	464.1	690.2	1275.1	2004.1	2024.8	2230.1
80°	212.3	220.0	252.8	294.2	323.6	362.3	503.0	895.5	1461.5	1487.4	1687.5
82.5°	169.1	175.9	206.2	239.9	264.0	290.7	372.7	613.4	1018.0	1037.0	1169.0
85°	130.2	137.2	163.1	192.4	213.1	234.7	285.6	427.1	673.8	696.2	792.9
87.5°	97.5	103.5	125.1	150.1	171.7	189.8	220.0	295.0	449.5	468.4	514.1
90°	71.6	75.9	94.9	113.9	133.7	153.5	172.6	215.6	299.3	307.1	339.0
92.5°	53.5	56.1	71.6	88.0	107.0	124.2	136.4	158.8	210.5	211.3	233.8
95°	39.7	42.2	55.2	69.0	85.4	101.8	112.1	123.4	154.5	157.0	170.8
97.5°	31.9	32.7	44.0	56.1	69.9	83.7	92.3	98.3	118.2	120.8	130.2
100°	26.7	27.6	37.1	47.5	59.5	71.6	77.6	80.2	93.2	95.7	102.7
102.5°	23.3	23.3	31.9	41.4	51.8	60.4	64.8	66.4	75.1	75.1	80.2
105°	20.7	20.7	27.6	36.2	44.9	52.6	55.2	55.2	58.6	59.5	62.1
107.5°	19.0	19.0	25.1	32.7	39.7	45.7	47.5	45.7	46.5	46.5	48.3
110°	17.3	17.3	21.6	29.4	35.4	39.7	40.5	38.9	36.2	36.2	38.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	15.5	16.4	19.8	25.9	31.1	35.4	35.4	32.7	28.4	28.4	30.2
115°	14.6	14.6	18.1	23.3	27.6	31.1	31.1	27.6	23.3	22.4	24.1
117.5°	13.8	13.8	15.5	20.7	25.1	27.6	27.6	23.3	19.0	19.0	20.7
120°	13.0	13.0	14.6	19.0	22.4	25.1	24.1	20.7	16.4	16.4	18.1
122.5°	13.0	13.0	13.8	17.3	19.8	21.6	20.7	17.3	13.8	13.8	15.5
125°	12.1	12.1	13.0	15.5	18.1	19.8	18.1	14.6	13.0	13.0	13.8
127.5°	12.1	12.1	12.1	13.8	16.4	17.3	16.4	13.0	11.3	11.3	13.0
130°	11.3	11.3	12.1	13.0	14.6	15.5	13.8	11.3	10.3	10.3	12.1
132.5°	11.3	11.3	11.3	11.3	12.1	13.0	11.3	8.6	9.5	9.5	10.3
135°	10.3	10.3	10.3	10.3	11.3	11.3	9.5	7.8	8.6	8.6	9.5
137.5°	9.5	9.5	9.5	9.5	9.5	8.6	7.8	6.9	7.8	7.8	8.6
140°	8.6	8.6	8.6	7.8	6.9	6.9	6.0	5.2	6.0	6.0	6.9
142.5°	7.8	7.8	7.8	6.9	6.0	5.2	4.3	4.3	5.2	5.2	6.0
145°	6.9	6.9	6.0	5.2	4.3	3.5	2.6	3.5	4.3	4.3	5.2
147.5°	5.2	5.2	5.2	4.3	2.6	1.7	1.7	2.6	3.5	3.5	3.5
150°	4.3	4.3	4.3	3.5	1.7	0.8	0.8	1.7	1.7	1.7	2.6
152.5°	2.6	2.6	2.6	2.6	0.8	0.0	0.0	0.8	1.7	1.7	1.7
155°	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8
160°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8
2.5°	199.3	198.5	196.7	195.0	193.2	191.5	189.8	188.9	187.2	187.2	187.2
5°	209.6	207.0	203.6	200.2	196.7	194.2	191.5	188.9	187.2	186.4	185.5
7.5°	228.6	225.2	219.1	214.0	208.0	202.7	198.5	195.0	193.2	192.4	192.4
10°	254.5	250.2	242.4	232.1	225.2	217.4	210.5	206.2	202.7	201.8	201.0
12.5°	289.0	284.7	271.8	260.5	247.6	235.5	227.7	222.6	220.0	219.1	219.1
15°	338.2	333.0	312.3	293.3	272.6	258.0	247.6	243.3	244.2	246.7	244.2
17.5°	399.5	391.7	367.5	336.4	305.5	282.9	273.4	274.4	277.8	280.4	279.6
20°	475.4	464.1	430.5	386.5	344.2	314.0	304.5	305.5	309.7	317.5	316.6
22.5°	564.3	547.0	503.8	444.3	384.7	350.3	333.0	335.6	345.0	352.8	352.8
25°	661.7	646.2	584.9	505.5	431.4	380.4	358.9	362.3	376.1	384.7	387.4
27.5°	777.3	753.2	677.2	573.7	475.4	407.2	380.4	382.2	399.5	410.6	412.4
30°	900.7	872.2	777.3	641.9	514.1	427.9	393.4	396.8	415.8	428.8	431.4
32.5°	1039.6	1006.0	881.7	713.5	550.4	440.0	400.3	403.8	423.6	438.2	440.0
35°	1194.0	1144.8	993.9	779.1	574.6	444.3	400.3	404.6	423.6	438.2	440.9
37.5°	1351.0	1295.8	1103.5	842.0	589.2	440.9	394.2	399.5	416.6	430.5	433.1
40°	1533.9	1463.1	1223.3	893.8	594.4	431.4	383.9	389.9	404.6	415.8	417.6
42.5°	1742.7	1642.7	1349.3	937.7	586.7	419.3	373.6	380.4	392.5	400.3	401.2
45°	1959.3	1838.4	1471.8	972.3	575.4	404.6	363.2	370.9	381.4	383.1	384.7
47.5°	2193.0	2058.5	1605.5	993.0	555.6	389.1	355.5	363.2	370.1	369.3	370.1
50°	2451.8	2286.2	1741.9	1001.6	533.2	376.1	349.4	358.0	363.2	358.9	358.9
52.5°	2704.6	2535.5	1866.1	1005.0	508.1	364.1	345.0	355.5	358.0	353.7	353.7
55°	2973.8	2765.9	1990.3	995.5	483.1	354.6	343.4	354.6	356.3	350.3	350.3
57.5°	3222.3	3011.8	2102.5	980.9	459.8	346.0	340.7	353.7	355.5	350.3	351.1
60°	3450.9	3220.6	2189.6	956.8	434.9	337.4	339.0	353.7	355.5	352.0	353.7
62.5°	3590.7	3358.6	2235.4	918.8	410.6	329.6	336.4	352.0	355.5	352.8	354.6
65°	3651.0	3407.8	2229.3	864.5	387.4	320.1	331.3	348.5	352.8	352.8	354.6
67.5°	3605.3	3362.8	2141.2	794.5	365.8	310.6	324.4	341.7	347.7	349.4	352.0
70°	3435.4	3177.4	1964.4	706.6	342.5	300.2	315.8	332.2	339.0	342.5	344.2
72.5°	3096.3	2866.0	1713.3	618.6	318.3	287.2	302.8	318.3	326.1	330.4	330.4
75°	2665.8	2435.4	1410.5	525.4	295.9	272.6	287.2	300.2	308.8	313.1	311.5
77.5°	2144.7	1929.9	1095.7	430.5	271.8	255.3	269.1	280.4	287.2	290.7	286.4
80°	1589.2	1452.0	823.1	355.5	247.6	235.5	246.7	256.2	264.0	263.1	259.7
82.5°	1126.7	997.3	576.3	295.0	223.4	214.0	222.6	228.6	233.8	232.1	226.1
85°	750.5	666.0	407.2	240.7	198.5	190.7	195.8	199.3	201.8	197.5	193.2
87.5°	488.3	434.9	293.3	198.5	171.7	166.5	169.1	169.9	170.8	166.5	161.3
90°	319.2	296.8	218.3	163.9	147.5	144.0	144.0	140.7	141.5	136.4	131.1
92.5°	225.2	211.3	169.9	134.6	125.9	123.4	122.5	118.2	117.3	112.1	108.7
95°	168.3	162.2	137.2	113.9	107.0	106.1	104.3	100.0	96.7	91.5	89.7
97.5°	131.1	128.6	113.0	97.5	92.3	90.6	89.7	84.5	81.9	76.8	75.1
100°	104.3	104.3	94.9	83.7	79.4	78.5	77.6	72.4	69.9	64.8	63.8
102.5°	83.7	84.5	79.4	72.4	69.0	67.3	65.6	62.1	57.8	54.3	54.3
105°	65.6	67.3	65.6	61.3	59.5	57.8	56.1	52.6	48.3	44.9	44.9
107.5°	51.8	53.5	53.5	52.6	50.0	49.2	48.3	44.0	40.5	37.1	37.1
110°	39.7	42.2	44.0	44.0	44.0	42.2	40.5	38.0	33.7	31.1	31.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	31.9	33.7	36.2	37.1	37.1	37.1	35.4	31.1	27.6	25.9	26.7
115°	25.9	27.6	30.2	31.9	31.9	31.9	29.4	26.7	23.3	22.4	22.4
117.5°	21.6	23.3	25.1	27.6	27.6	27.6	25.9	22.4	19.0	19.0	19.0
120°	19.0	19.8	22.4	23.3	24.1	24.1	22.4	19.0	16.4	16.4	17.3
122.5°	16.4	17.3	19.0	20.7	21.6	20.7	19.0	15.5	13.8	14.6	14.6
125°	14.6	15.5	16.4	18.1	19.0	18.1	16.4	13.0	12.1	13.0	13.0
127.5°	13.8	13.8	14.6	15.5	16.4	15.5	13.8	11.3	10.3	12.1	12.1
130°	12.1	13.0	13.0	13.8	13.8	13.8	12.1	9.5	9.5	10.3	10.3
132.5°	11.3	11.3	11.3	12.1	12.1	11.3	9.5	7.8	8.6	9.5	9.5
135°	9.5	10.3	10.3	10.3	10.3	9.5	7.8	6.9	7.8	8.6	8.6
137.5°	8.6	8.6	8.6	8.6	8.6	7.8	6.9	6.0	6.9	6.9	6.9
140°	6.9	7.8	7.8	6.9	6.9	6.0	5.2	4.3	5.2	6.0	6.0
142.5°	6.0	6.0	6.0	6.0	5.2	4.3	3.5	3.5	4.3	4.3	4.3
145°	5.2	5.2	5.2	4.3	3.5	3.5	2.6	2.6	3.5	3.5	4.3
147.5°	3.5	3.5	3.5	3.5	2.6	2.6	1.7	1.7	2.6	2.6	2.6
150°	2.6	2.6	2.6	2.6	1.7	1.7	1.7	0.8	1.7	1.7	1.7
152.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	1.7	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)