

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: P266415

Luminaire Tested: **UTLD-AF24-60-D-U-T3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-T3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5344.1 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U2 - 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

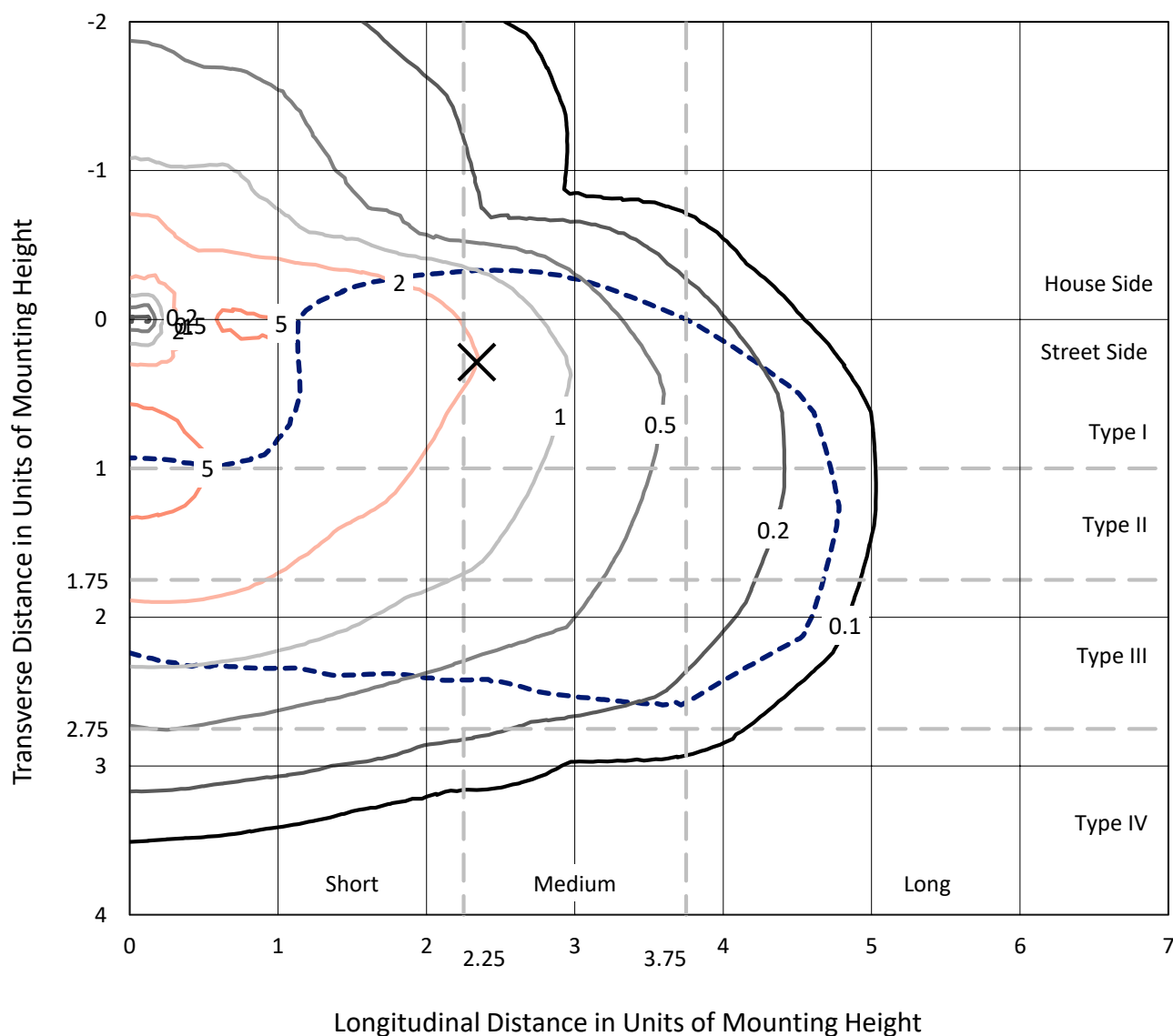


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

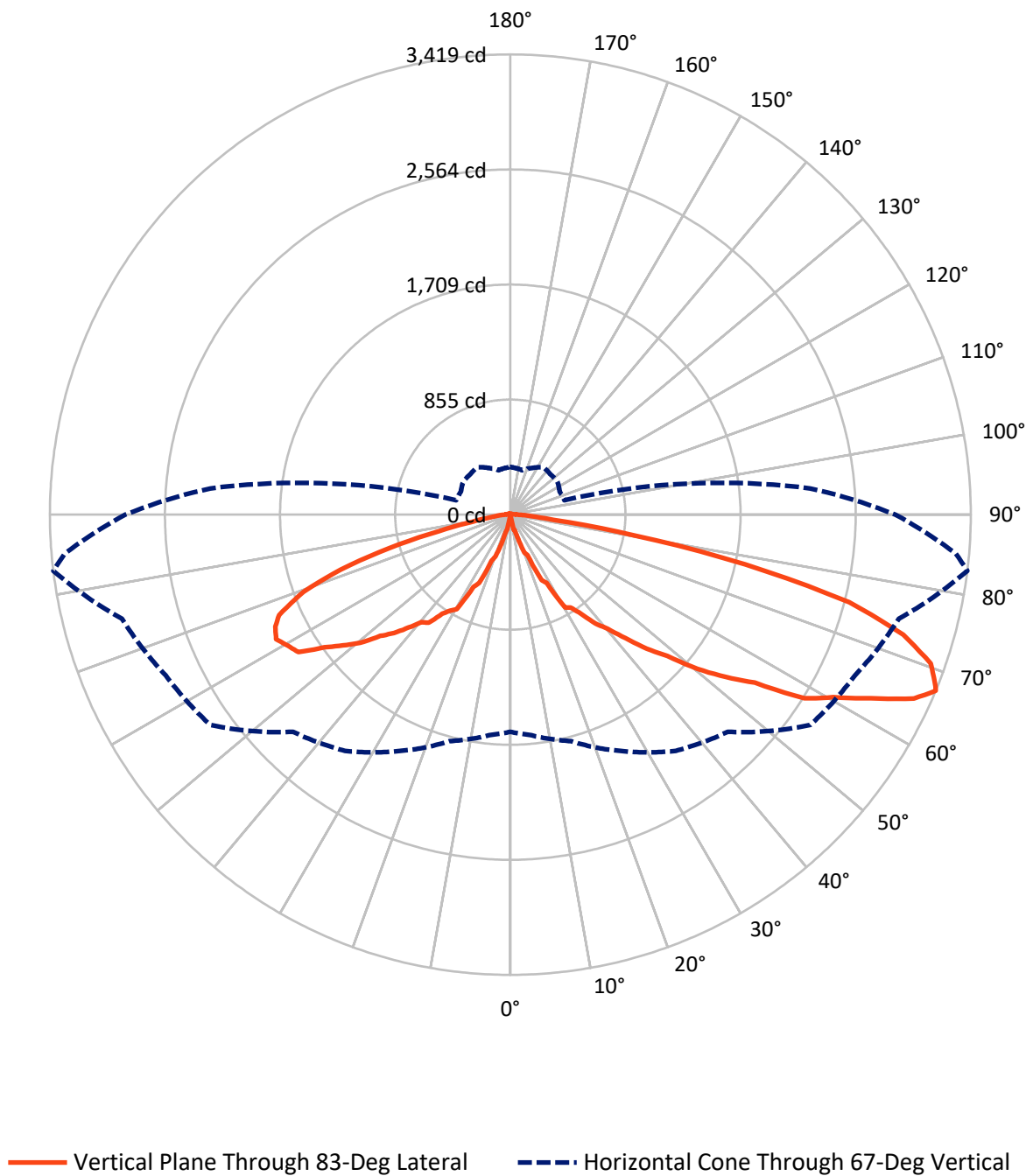


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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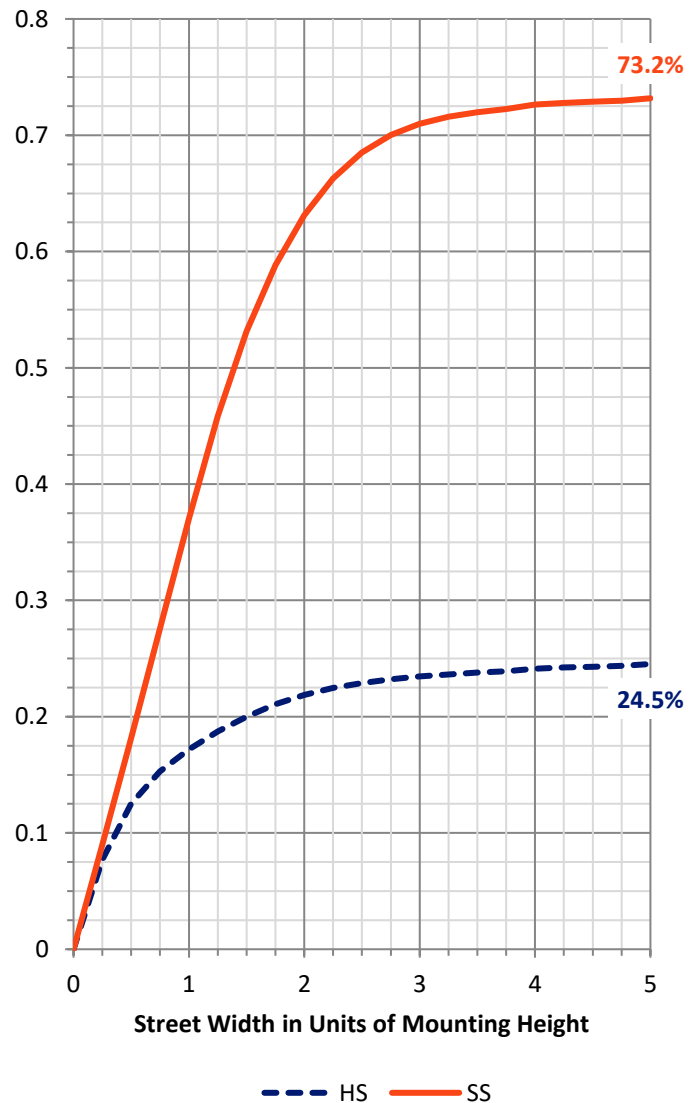
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1340.9	35.4	1376.4
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	3937.9	29.8	3967.7
	% Fixture	73.7	0.6	74.2
Total	Lumens	5278.8	65.2	5344.1
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	48.3	0.9
20°-30°	194.2	3.6
30°-40°	428.9	8.0
40°-50°	764.4	14.3
50°-60°	1226.7	23.0
60°-70°	1492.6	27.9
70°-80°	961.8	18.0
80°-90°	158.0	3.0
90°-100°	32.5	0.6
100°-110°	14.8	0.3
110°-120°	7.4	0.1
120°-130°	5.4	0.1
130°-140°	3.3	0.1
140°-150°	1.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5278.8	98.8
0°-180°	5344.1	100.0

Coefficient of Utilization



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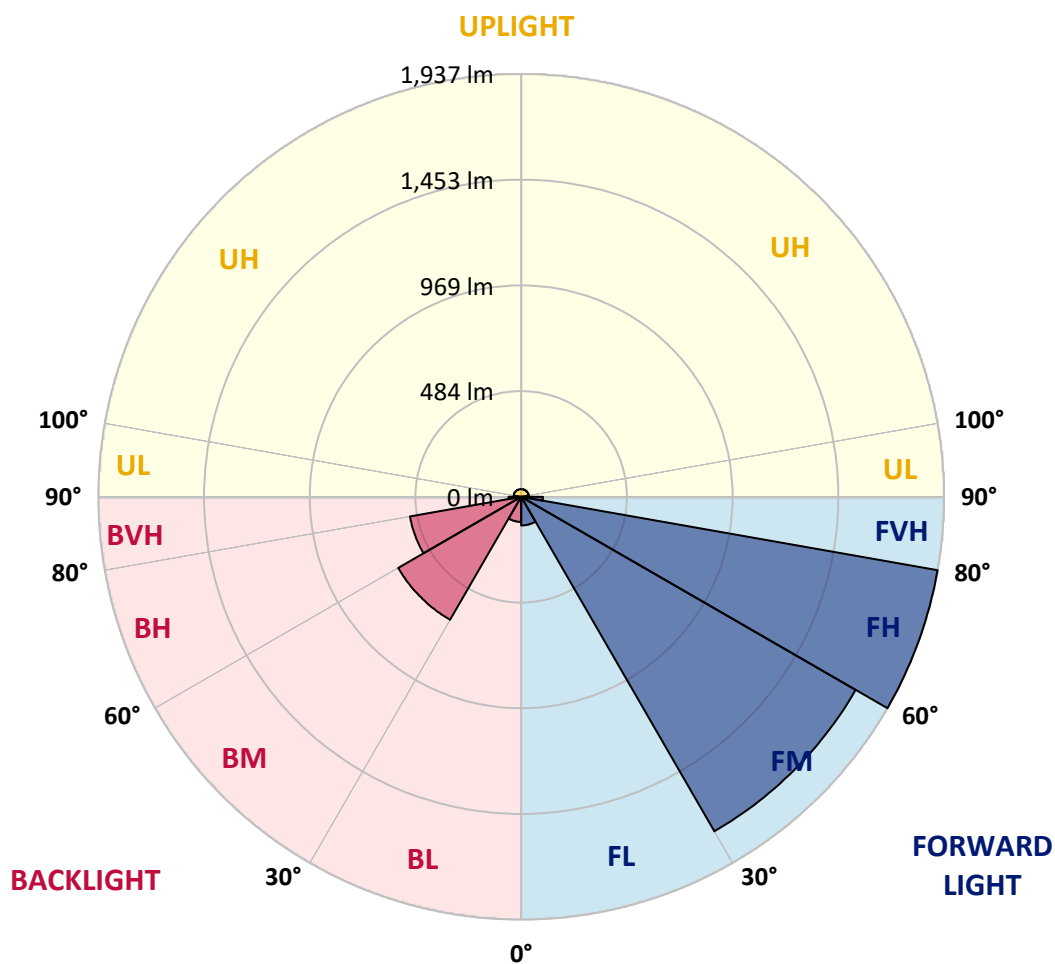
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	131.3	2.5			
FM	(30°-60°)	1769.5	33.1			
FH	(60°-80°)	1937.2	36.2			G2/5000
FVH	(80°-90°)	99.9	1.9			G1/100
BL	(0°-30°)	115.0	2.2	B1/500		
BM	(30°-60°)	650.6	12.2	B1/1000		
BH	(60°-80°)	517.3	9.7	B2/1000		G2/1000
BVH	(80°-90°)	58.1	1.1			G1/100
UL	(90°-100°)	32.5	0.6		U2/50	
UH	(100°-180°)	35.4	0.7		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	26.9	26.9	26.9	24.3	20.9	17.0	15.0	13.0	12.4	12.4	12.4
5°	59.6	62.3	59.6	58.8	53.0	64.8	26.2	17.6	13.0	11.8	11.8
7.5°	84.5	85.8	69.3	64.1	51.7	70.6	57.0	32.1	16.3	13.0	12.4
10°	146.7	126.4	107.3	106.1	99.5	74.6	51.1	45.9	25.5	19.7	20.3
12.5°	142.1	146.1	143.4	138.8	127.6	106.7	68.1	87.8	96.3	113.2	106.7
15°	174.2	171.5	152.0	153.3	145.3	154.5	138.2	146.1	137.5	119.8	125.0
17.5°	269.8	260.6	273.1	209.6	153.3	187.9	191.2	170.9	182.6	188.6	209.6
20°	308.4	295.4	311.1	266.4	254.0	213.4	203.6	309.6	288.7	303.2	305.8
22.5°	426.2	419.1	373.9	305.2	324.7	272.4	290.7	321.6	328.1	324.7	335.2
25°	537.5	536.8	531.6	469.5	346.3	386.4	335.8	366.7	473.3	538.9	544.7
27.5°	636.4	631.1	593.9	576.3	485.2	436.0	400.7	508.1	542.1	573.6	580.8
30°	804.7	838.7	758.2	655.5	587.3	502.2	538.9	536.3	652.8	800.7	808.7
32.5°	944.7	925.9	842.0	755.6	686.1	620.6	567.6	749.0	781.2	821.7	840.0
35°	1151.6	1159.0	1070.5	842.7	785.7	695.4	742.4	813.2	835.5	902.8	908.1
37.5°	1203.4	1260.4	1208.7	1010.4	835.5	760.1	798.9	889.9	963.2	1025.3	986.1
40°	1431.3	1402.6	1291.9	1132.0	938.3	851.1	976.8	1030.5	1041.8	1114.3	1123.6
42.5°	1654.6	1667.1	1530.2	1327.2	1071.9	989.4	1099.3	1085.0	1191.1	1253.9	1287.9
45°	1872.0	1877.8	1769.8	1513.1	1286.0	1219.8	1166.1	1227.7	1404.5	1419.5	1428.0
47.5°	2019.3	2019.8	1974.0	1716.1	1466.7	1317.4	1300.3	1366.5	1541.9	1568.8	1576.6
50°	2249.0	2243.2	2137.7	1851.6	1705.6	1510.5	1576.6	1551.8	1703.6	1800.7	1821.6
52.5°	2339.5	2310.0	2253.7	2048.8	1920.3	1727.3	1697.2	1742.4	1915.8	2003.6	2073.0
55°	2280.4	2331.6	2321.1	2173.8	1983.8	1917.8	1839.2	2008.8	2067.7	2202.6	2325.7
57.5°	2158.1	2245.9	2287.1	2232.1	2128.7	1978.6	2119.5	2093.9	2319.9	2575.1	2657.6
60°	2074.2	2128.7	2212.4	2279.2	2203.9	2148.9	2285.7	2419.3	2505.7	2754.6	2864.5
62.5°	1923.7	1975.5	2109.6	2206.5	2163.9	2182.3	2470.3	2540.4	2795.2	3002.8	3152.6
65°	1745.0	1793.3	1950.5	2052.0	2153.4	2225.6	2587.6	2723.1	2903.9	3292.7	3313.7
67°	1613.4	1641.5	1741.6	1936.7	2141.1	2281.2	2721.1	2823.4	2985.6	3418.5	3319.6
67.5°	1569.5	1596.9	1678.8	1881.1	2133.8	2289.7	2759.1	2852.7	2997.5	3405.4	3318.2
70°	1208.0	1305.5	1307.6	1500.7	1905.3	2226.8	2826.5	2954.3	3068.8	3311.2	3203.7
72.5°	723.6	723.6	756.9	946.8	1350.7	1991.8	2826.5	2919.0	3017.8	3050.6	2869.7
75°	350.2	333.9	379.2	454.5	680.2	1343.5	2547.7	2675.3	2687.8	2598.7	2327.7
77.5°	288.7	250.7	238.3	233.1	364.7	502.8	1702.4	2088.6	2089.4	1782.9	1560.3
80°	180.6	182.6	187.9	161.8	208.9	259.9	678.9	1272.2	1156.3	926.5	780.4
82.5°	127.6	132.3	134.2	119.8	146.1	121.8	226.0	536.8	467.5	322.9	273.8
85°	89.7	87.0	97.6	81.1	87.8	72.0	124.4	231.1	263.3	159.8	151.3
87.5°	53.7	53.7	65.4	54.9	60.2	51.7	75.3	113.2	131.0	90.4	84.5
90°	32.1	29.5	30.8	31.4	34.0	29.5	40.7	54.3	57.0	45.9	42.0
92.5°	24.3	24.3	26.2	25.0	30.8	26.9	35.4	42.6	51.7	39.3	36.7
95°	15.7	17.6	19.7	20.3	23.5	20.3	29.5	34.8	38.6	30.2	28.8
97.5°	14.5	15.7	17.0	17.0	19.7	16.3	24.3	30.8	30.8	23.5	21.6
100°	13.7	14.5	15.0	15.0	16.3	13.0	19.0	26.9	26.9	19.7	18.3
102.5°	12.4	13.0	12.4	11.8	13.7	10.5	15.7	23.5	19.0	15.0	15.7
105°	12.4	12.4	11.0	9.8	11.0	8.5	13.7	17.0	13.0	12.4	13.0
107.5°	11.8	11.8	9.2	8.5	9.2	7.1	11.0	11.8	10.5	11.8	12.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	11.0	10.5	8.5	7.1	7.1	6.6	8.5	8.5	8.5	11.0	12.4
112.5°	9.8	9.2	7.1	5.8	5.8	5.2	5.8	6.6	7.8	10.5	11.8
115°	9.2	8.5	6.6	5.2	4.6	4.6	5.2	5.2	7.1	10.5	11.8
117.5°	9.2	8.5	5.8	5.2	4.0	4.0	4.6	5.2	7.1	10.5	11.8
120°	8.5	8.5	5.8	4.6	4.0	3.2	4.0	4.6	7.1	11.0	11.8
122.5°	8.5	7.8	5.8	4.6	3.2	3.2	3.2	4.0	6.6	10.5	11.0
125°	7.8	7.8	5.2	4.0	3.2	2.6	3.2	4.0	7.1	10.5	11.0
127.5°	7.8	7.1	5.2	4.0	2.6	2.6	3.2	3.2	6.6	9.8	10.5
130°	7.8	7.1	5.2	3.2	2.6	2.6	2.6	3.2	6.6	9.2	9.8
132.5°	6.6	6.6	4.6	3.2	2.6	1.9	2.6	2.6	5.2	7.8	8.5
135°	6.6	5.8	4.6	3.2	2.6	1.9	1.9	2.6	5.2	7.1	7.1
137.5°	5.8	5.2	4.6	3.2	1.9	1.9	1.3	1.9	4.6	5.8	6.6
140°	5.2	5.2	4.0	3.2	1.9	1.3	1.3	1.9	3.2	4.6	5.2
142.5°	5.2	5.2	4.6	3.2	1.9	1.3	1.3	1.3	2.6	4.0	4.0
145°	4.6	4.6	4.0	2.6	1.3	0.7	0.7	1.3	1.9	2.6	3.2
147.5°	4.6	4.6	4.0	2.6	1.3	0.7	0.7	1.3	1.9	2.6	2.6
150°	4.0	4.0	3.2	1.9	0.7	0.0	0.0	0.7	1.3	1.9	1.9
152.5°	2.6	2.6	1.9	1.3	0.0	0.0	0.0	0.7	1.3	1.3	1.3
155°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.7	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	0.0	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°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	12.4	12.4	12.4	12.4	12.4	12.4	11.8	11.8	11.8	11.8	11.8
5°	11.0	11.0	11.8	11.8	11.8	11.8	11.8	12.4	13.0	13.0	13.7
7.5°	12.4	12.4	11.8	11.8	12.4	13.7	22.3	47.2	89.0	82.6	81.8
10°	19.7	19.7	17.6	16.3	17.6	64.1	100.8	95.6	80.6	78.6	75.9
12.5°	124.4	115.9	93.7	58.8	85.8	81.1	94.3	110.6	144.1	151.3	146.1
15°	125.0	130.3	140.8	152.5	193.1	85.8	166.2	203.6	217.4	217.4	222.1
17.5°	217.4	234.4	180.1	162.4	192.4	235.7	185.9	206.9	205.0	205.6	199.8
20°	353.6	319.5	352.2	316.3	216.0	263.8	231.9	222.1	299.2	356.2	356.2
22.5°	350.2	371.3	366.7	363.4	380.4	234.4	295.9	321.6	333.4	318.2	341.1
25°	584.6	562.3	531.6	362.7	364.7	326.1	319.5	299.9	326.1	351.5	346.3
27.5°	611.6	616.7	558.4	540.2	382.4	366.7	301.2	349.0	380.4	382.4	379.2
30°	834.9	845.2	659.4	497.7	429.5	334.6	352.2	336.5	351.5	369.4	379.2
32.5°	883.3	867.6	728.0	560.5	421.0	354.2	324.1	336.5	393.5	393.5	390.3
35°	940.9	929.0	750.4	532.3	458.9	331.4	299.9	335.2	351.5	380.4	382.4
37.5°	1056.8	1050.2	823.7	531.0	408.5	313.0	329.9	338.5	343.7	350.2	344.4
40°	1133.4	1082.9	845.9	554.6	395.4	362.7	343.7	318.9	323.5	307.1	299.9
42.5°	1277.4	1192.9	867.6	538.9	385.6	400.0	319.5	314.9	303.7	286.7	286.7
45°	1424.2	1316.0	896.4	506.7	371.9	388.2	329.4	322.1	312.3	309.6	303.7
47.5°	1573.4	1428.0	891.7	527.0	417.1	363.4	412.5	346.3	297.9	323.5	321.6
50°	1818.9	1610.0	895.7	487.2	415.7	356.8	413.1	328.1	318.9	338.5	340.5
52.5°	2019.3	1733.8	950.0	464.2	402.7	413.1	390.9	397.4	375.9	369.9	377.2
55°	2258.9	1892.3	914.7	436.8	392.2	389.5	460.3	400.0	380.4	399.3	401.4
57.5°	2559.5	2113.0	922.6	392.2	395.4	375.2	450.5	447.9	436.0	427.0	423.6
60°	2733.6	2183.6	849.2	418.4	383.0	413.8	478.0	464.2	402.0	466.8	477.3
62.5°	2870.4	2293.6	669.1	413.8	425.5	394.9	438.7	453.0	423.6	472.8	478.6
65°	2903.9	2287.8	512.7	425.0	421.0	438.7	519.2	445.2	369.9	377.2	380.4
67°	2858.0	2236.1	415.7	404.6	427.0	422.4	429.5	382.4	341.7	349.0	354.2
67.5°	2831.8	2194.1	394.1	403.2	441.2	421.7	421.0	367.9	333.9	343.2	345.0
70°	2588.2	1965.6	329.9	398.0	437.4	383.0	393.5	324.1	294.6	297.9	299.2
72.5°	2216.4	1577.3	314.9	396.2	429.5	319.5	302.5	265.2	250.7	246.1	239.7
75°	1701.1	1086.9	311.1	357.4	352.9	241.6	242.3	220.7	222.1	212.1	208.1
77.5°	1024.6	609.0	264.6	302.5	264.6	184.6	200.3	195.8	201.0	190.5	184.1
80°	491.1	297.2	208.9	222.6	186.6	144.6	170.9	178.1	179.4	164.3	157.2
82.5°	210.2	153.9	141.5	139.4	132.9	112.0	138.2	145.3	146.7	137.5	110.0
85°	123.7	104.7	97.6	93.7	92.3	69.3	98.9	117.1	117.1	96.8	83.8
87.5°	77.3	76.6	68.7	68.7	72.0	49.0	68.1	80.6	75.9	57.6	45.9
90°	36.7	39.3	41.2	42.0	49.0	27.5	43.8	46.5	43.8	31.4	22.3
92.5°	29.5	33.3	36.0	37.3	44.6	23.5	39.3	42.0	40.0	31.4	22.3
95°	24.3	30.2	36.0	35.4	37.3	18.3	34.8	38.0	36.7	27.5	19.0
97.5°	19.7	24.3	29.5	29.5	34.0	15.7	32.1	36.0	35.4	25.0	18.3
100°	17.6	21.6	26.2	25.5	30.2	12.4	28.8	31.4	30.8	20.3	16.3
102.5°	15.7	17.6	20.3	20.3	22.3	10.5	21.6	24.3	22.8	17.0	16.3
105°	14.5	15.0	14.5	13.7	14.5	9.2	13.7	15.7	13.7	13.0	13.0
107.5°	13.7	13.7	11.8	11.0	10.5	7.8	9.8	10.5	9.2	11.8	13.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	13.7	13.0	10.5	9.8	8.5	7.1	7.8	7.8	7.8	11.8	12.4
112.5°	13.0	13.0	9.8	8.5	7.8	6.6	6.6	5.8	7.1	11.8	13.0
115°	13.0	12.4	9.2	7.8	6.6	5.8	5.2	5.2	6.6	11.8	13.0
117.5°	13.0	12.4	9.2	7.1	6.6	5.2	4.6	4.6	6.6	11.8	13.0
120°	13.0	13.0	9.2	6.6	5.8	5.2	4.6	4.6	6.6	11.0	12.4
122.5°	12.4	12.4	8.5	6.6	5.2	4.6	4.0	4.0	6.6	11.0	11.8
125°	11.8	11.8	8.5	5.8	4.6	4.0	4.0	4.0	6.6	10.5	11.8
127.5°	11.0	11.0	7.8	5.2	4.0	4.0	3.2	3.2	6.6	10.5	11.0
130°	10.5	10.5	7.1	4.6	4.0	3.2	2.6	3.2	6.6	9.8	10.5
132.5°	9.2	9.2	6.6	4.0	3.2	2.6	2.6	2.6	5.8	9.2	9.8
135°	7.8	7.8	5.8	4.0	3.2	2.6	1.9	2.6	5.2	7.8	8.5
137.5°	7.1	7.1	5.2	3.2	2.6	1.9	1.9	2.6	5.2	7.1	7.8
140°	5.2	5.2	4.0	2.6	1.9	1.9	1.3	1.9	4.6	5.8	6.6
142.5°	4.0	4.0	3.2	2.6	1.9	1.3	1.3	1.9	4.0	5.2	5.2
145°	3.2	3.2	2.6	1.9	1.9	1.3	0.7	1.3	3.2	4.6	4.6
147.5°	2.6	2.6	2.6	1.9	1.3	0.7	0.7	0.7	1.9	3.2	3.2
150°	1.9	1.9	1.9	1.9	1.3	0.0	0.0	0.0	1.3	1.9	1.9
152.5°	1.3	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.0	0.7	0.7
155°	0.7	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.7	0.7	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)