

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: P266422

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
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-T4W-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5322.5 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - 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

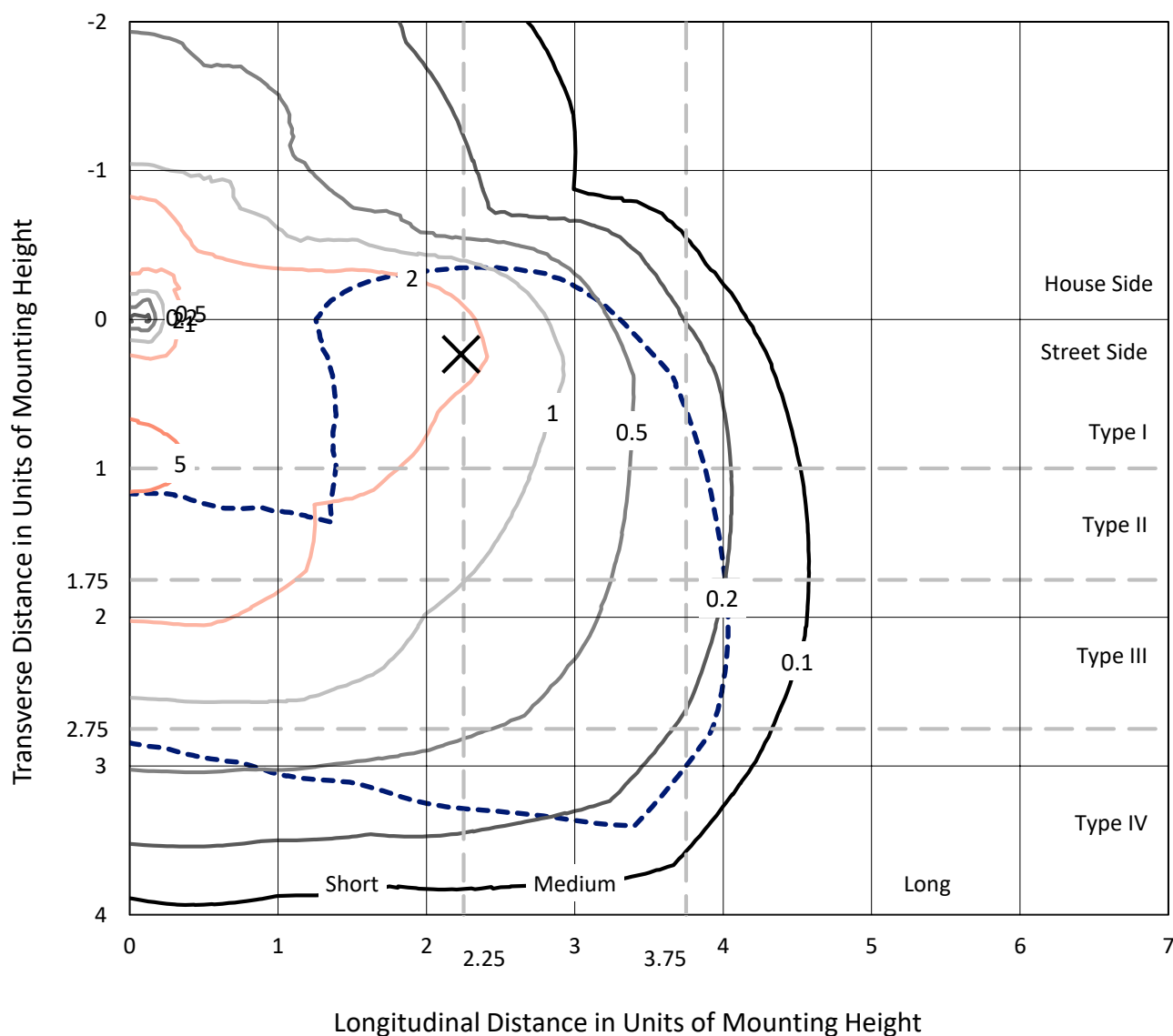


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

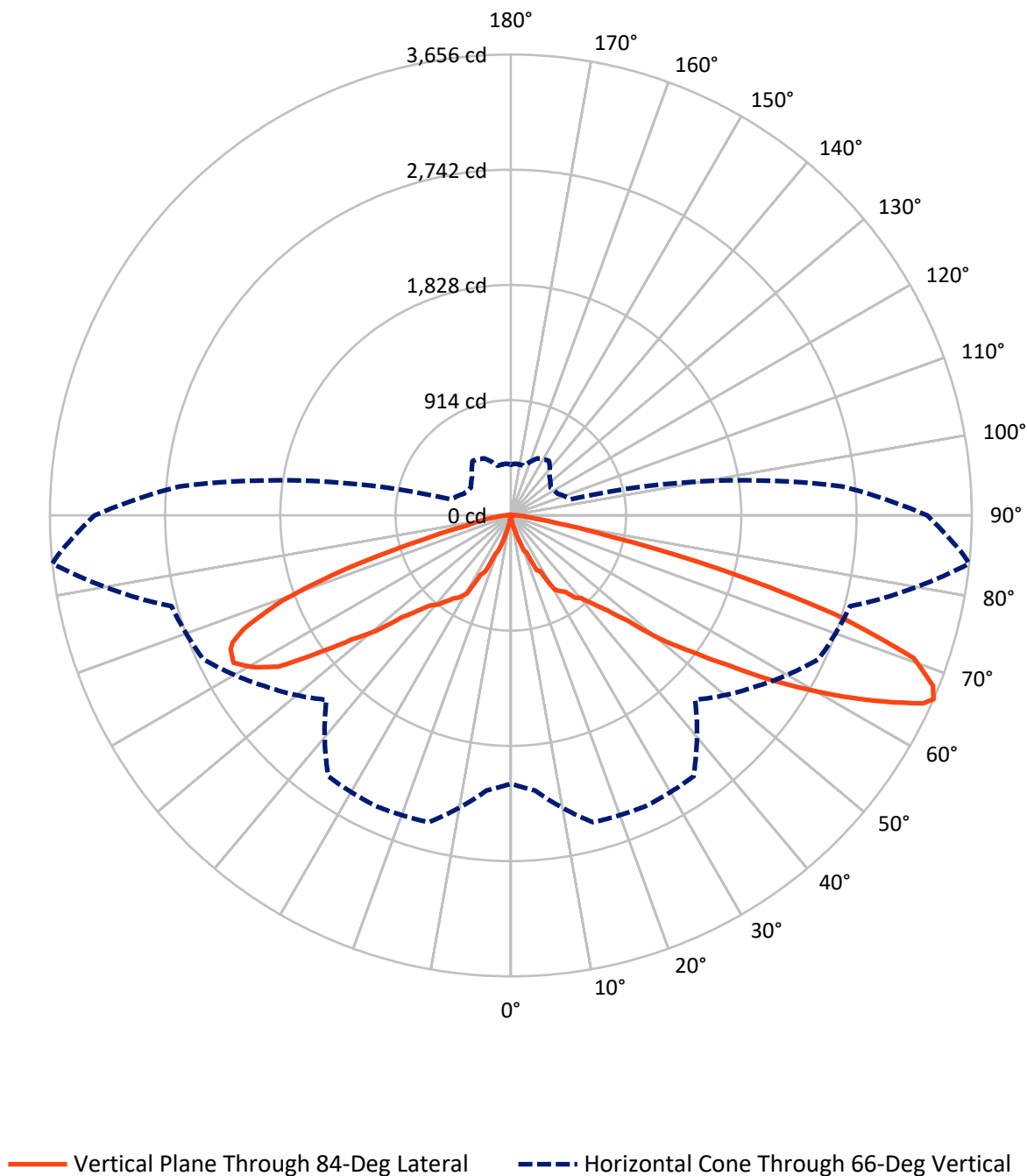


Based on 10 foot mounting height. Maximum calculated value = 6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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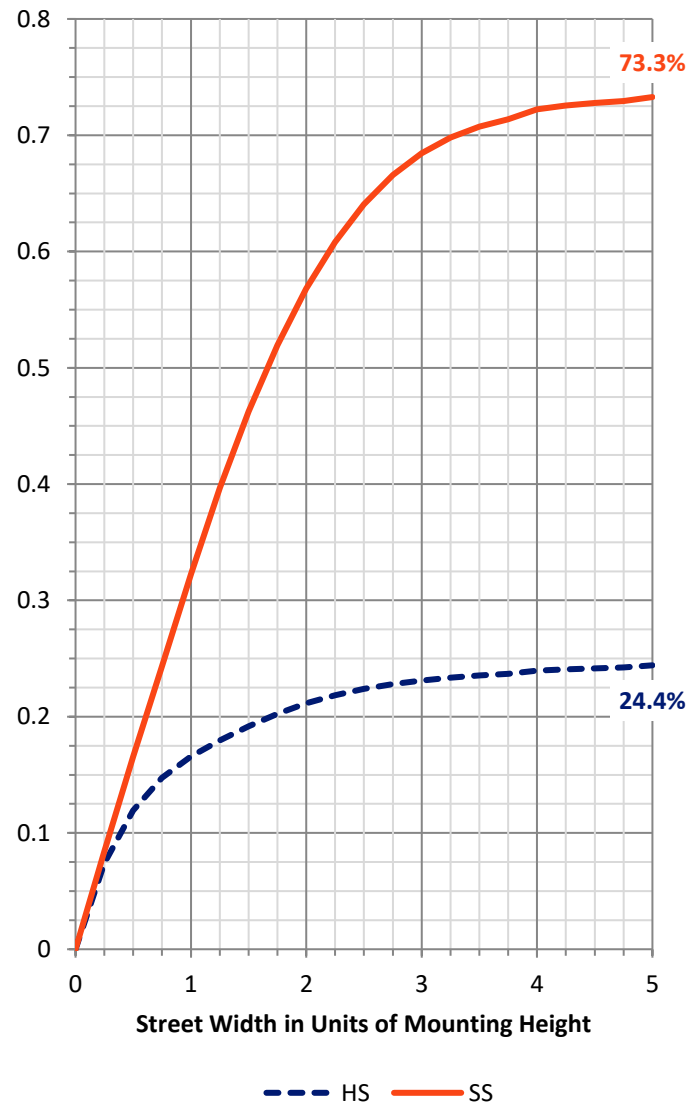
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1331.9	32.4	1364.2
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	3927.8	30.4	3958.2
	% Fixture	73.8	0.6	74.4
Total	Lumens	5259.7	62.8	5322.5
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.1
10°-20°	49.4	0.9
20°-30°	182.6	3.4
30°-40°	375.4	7.1
40°-50°	622.8	11.7
50°-60°	1086.0	20.4
60°-70°	1599.8	30.1
70°-80°	1167.5	21.9
80°-90°	172.2	3.2
90°-100°	32.1	0.6
100°-110°	14.7	0.3
110°-120°	6.9	0.1
120°-130°	4.8	0.1
130°-140°	2.8	0.1
140°-150°	1.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5259.7	98.8
0°-180°	5322.5	100.0

Coefficient of Utilization



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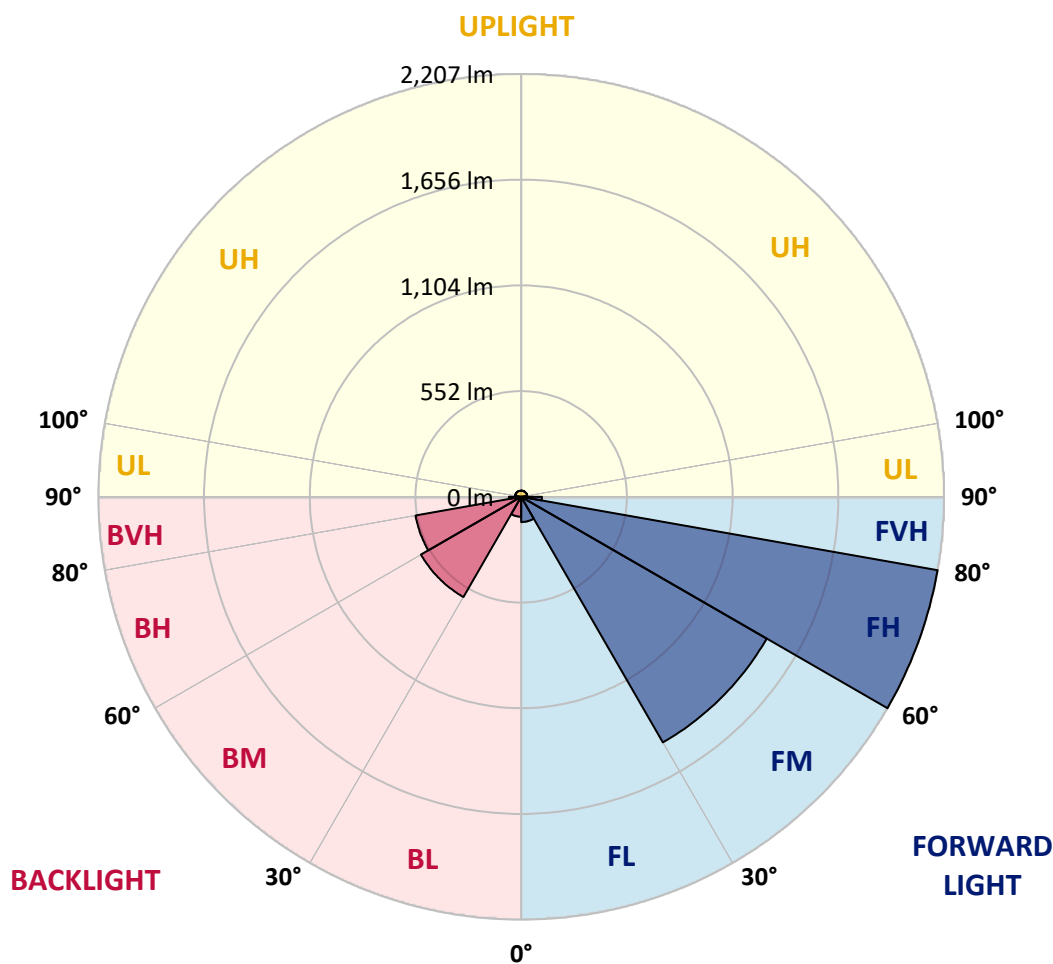
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	131.7	2.5			
FM	(30°-60°)	1480.3	27.8			
FH	(60°-80°)	2207.5	41.5			G2/5000
FVH	(80°-90°)	108.3	2.0			G2/225
BL	(0°-30°)	104.2	2.0	B0/110		
BM	(30°-60°)	603.9	11.3	B1/1000		
BH	(60°-80°)	559.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	63.9	1.2			G1/100
UL	(90°-100°)	32.1	0.6		U2/50	
UH	(100°-180°)	32.4	0.6		U2/50	

BUG Rating: B2-U2-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	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°	31.4	28.1	28.1	26.9	24.3	21.6	17.0	14.5	12.4	12.4	11.8
5°	60.2	63.5	73.3	67.5	55.7	72.7	32.8	21.6	13.7	11.8	11.8
7.5°	95.6	100.8	77.3	68.7	68.7	73.3	59.6	36.0	18.3	13.7	13.0
10°	200.3	189.3	131.6	133.6	113.2	79.2	54.3	47.8	28.1	22.3	20.3
12.5°	194.5	191.9	195.8	170.9	172.1	125.0	69.3	111.3	100.8	96.3	106.1
15°	250.7	248.1	199.1	202.9	184.1	191.2	161.1	160.3	155.1	130.3	125.0
17.5°	348.4	345.7	389.5	259.3	184.6	238.9	207.6	178.8	185.3	195.8	203.6
20°	347.6	343.7	362.0	311.1	314.9	246.9	221.3	325.5	297.2	298.5	281.6
22.5°	513.3	489.8	430.2	324.7	354.9	288.7	328.1	321.5	299.9	317.6	312.3
25°	498.3	507.5	487.2	480.7	361.4	413.8	360.8	371.3	458.3	481.9	482.6
27.5°	578.1	560.5	544.7	493.7	485.9	402.7	371.3	494.3	480.0	501.6	500.9
30°	689.4	683.6	679.7	548.7	525.8	443.9	500.3	504.8	582.7	680.9	701.2
32.5°	796.8	768.7	705.2	635.1	527.8	524.5	496.9	627.2	668.5	715.1	722.1
35°	967.0	966.4	859.0	678.9	590.5	557.2	643.6	675.7	675.0	745.1	787.6
37.5°	1112.5	1119.6	1007.0	819.8	610.8	563.1	671.8	728.7	731.4	826.4	809.9
40°	1333.8	1314.8	1213.9	978.9	698.0	600.3	736.6	745.1	798.9	862.4	885.9
42.5°	1490.8	1483.7	1450.9	1164.8	798.9	669.1	813.1	776.6	845.9	961.1	986.1
45°	1589.1	1553.7	1585.8	1300.9	960.5	816.5	830.3	879.4	953.3	1075.1	1145.2
47.5°	1687.9	1714.9	1639.4	1403.8	1105.9	884.7	913.3	1068.5	1139.9	1249.3	1293.7
50°	1859.5	1830.7	1804.4	1558.3	1329.9	993.3	1142.6	1121.7	1321.9	1545.3	1553.1
52.5°	1964.2	1964.2	1921.7	1693.1	1484.3	1153.7	1219.2	1293.7	1592.3	1794.6	1868.0
55°	2113.0	2143.6	2135.8	1852.2	1666.4	1371.7	1419.5	1576.6	1839.9	2099.8	2281.2
57.5°	2218.4	2260.9	2353.2	2022.5	1843.1	1460.7	1712.2	1887.0	2172.6	2488.8	2708.1
60°	2374.8	2375.5	2470.3	2173.1	2066.5	1630.3	1825.4	2175.1	2355.1	2862.5	2978.5
62.5°	2390.5	2417.3	2616.5	2407.5	2289.1	1807.1	2196.0	2323.7	2560.8	3238.4	3339.9
65°	2200.6	2272.6	2606.0	2517.5	2492.6	1970.2	2304.7	2617.8	2727.8	3594.6	3565.8
66°	2127.9	2188.8	2519.4	2541.8	2526.0	2067.7	2368.2	2694.2	2786.0	3656.1	3605.7
67.5°	2102.5	2146.9	2416.0	2568.0	2639.3	2244.4	2523.3	2731.7	2892.7	3611.6	3591.3
70°	1925.0	1980.7	2233.4	2740.8	2881.0	2568.7	2723.1	2821.9	2968.0	3391.0	3303.2
72.5°	1468.0	1525.0	1711.5	2261.6	2901.3	3047.9	3032.8	2935.9	2723.1	2694.2	2553.5
75°	728.0	789.0	920.7	1318.1	2257.6	2994.2	3015.2	2647.1	2200.6	1737.7	1629.6
77.5°	376.5	424.3	355.5	504.8	1160.9	2124.0	2133.8	1745.5	1275.5	811.9	758.2
80°	256.6	267.2	242.3	248.8	478.0	1085.6	1012.2	929.0	513.3	372.5	389.0
82.5°	188.6	174.2	166.9	181.4	258.0	339.2	364.1	402.0	274.3	189.3	199.8
85°	89.0	98.3	96.3	110.6	157.2	115.9	178.1	241.6	182.6	121.8	119.8
87.5°	55.7	54.9	58.8	68.1	95.0	76.6	97.6	119.8	110.0	75.9	74.6
90°	36.7	32.8	30.8	36.7	53.0	38.0	52.5	68.1	62.3	41.2	38.6
92.5°	25.0	25.0	26.9	30.8	45.9	40.7	37.3	38.6	38.6	32.1	30.8
95°	18.3	19.7	22.3	22.8	27.5	23.5	30.2	33.3	34.0	26.2	25.5
97.5°	15.7	17.0	18.3	19.0	22.8	19.0	25.0	29.5	28.8	20.9	21.6
100°	14.5	15.7	15.7	16.3	18.3	14.5	20.3	27.5	26.2	18.3	17.6
102.5°	13.7	13.7	13.0	13.0	14.5	11.0	17.0	24.3	19.7	15.0	13.7
105°	13.0	13.0	11.0	10.5	11.0	9.2	13.7	18.3	13.7	12.4	12.4
107.5°	12.4	11.8	9.8	8.5	9.2	7.1	11.0	11.8	9.8	11.0	11.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	11.0	11.0	8.5	7.1	7.1	5.8	7.8	8.5	8.5	11.0	11.8
112.5°	10.5	9.8	7.1	5.8	5.8	5.2	5.8	6.6	7.1	10.5	11.0
115°	9.8	9.2	6.6	5.2	4.6	4.0	4.6	5.2	6.6	10.5	10.5
117.5°	9.2	8.5	5.8	4.6	4.0	3.2	4.0	4.6	6.6	10.5	10.5
120°	9.2	8.5	5.8	4.0	3.2	3.2	3.2	4.0	7.1	10.5	11.0
122.5°	8.5	8.5	5.8	4.0	3.2	2.6	2.6	4.0	6.6	9.8	9.8
125°	8.5	8.5	5.2	3.2	2.6	2.6	2.6	3.2	6.6	9.2	9.8
127.5°	7.8	7.8	5.2	3.2	2.6	1.9	1.9	3.2	5.8	9.2	9.2
130°	7.8	7.8	5.2	2.6	1.9	1.9	1.9	2.6	5.8	8.5	8.5
132.5°	6.6	6.6	4.6	2.6	1.9	1.3	1.9	2.6	5.2	7.1	7.8
135°	6.6	6.6	4.6	2.6	1.9	1.3	1.3	2.6	4.6	6.6	6.6
137.5°	5.8	5.8	4.0	2.6	1.9	1.3	1.3	1.9	4.0	5.8	5.8
140°	5.2	5.2	4.6	2.6	1.9	1.3	1.3	1.3	3.2	4.6	4.6
142.5°	5.2	5.2	4.0	2.6	1.3	0.7	0.7	1.3	2.6	3.2	3.2
145°	4.6	4.6	4.0	2.6	1.3	0.7	0.7	1.3	1.9	2.6	2.6
147.5°	4.6	4.6	4.0	1.9	0.7	0.7	0.7	1.3	1.9	2.6	2.6
150°	4.0	4.0	2.6	1.3	0.0	0.0	0.7	0.7	1.3	1.9	1.9
152.5°	2.6	2.6	1.9	0.7	0.0	0.0	0.0	0.7	1.3	1.3	1.3
155°	1.3	1.3	0.7	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	0.7
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°	11.8	11.8	11.8	11.8	11.8	11.8	11.0	11.0	11.0	11.0	11.0
5°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.8	12.4	12.4	12.4
7.5°	12.4	12.4	11.8	11.0	11.8	13.0	19.7	45.2	66.1	81.1	80.6
10°	20.3	20.3	19.0	16.3	20.3	44.6	87.8	88.5	73.3	67.5	70.1
12.5°	107.3	95.6	81.1	66.7	65.4	79.2	74.6	104.2	116.5	125.0	123.7
15°	123.1	130.3	119.1	133.6	136.8	81.1	127.0	170.1	183.3	188.6	194.5
17.5°	202.9	224.5	160.3	152.0	152.5	162.4	171.5	180.1	184.1	182.0	182.6
20°	305.8	291.4	313.0	267.2	204.3	217.4	199.1	196.4	259.3	314.9	307.7
22.5°	312.3	337.3	308.4	282.2	312.3	221.3	274.3	291.4	299.9	307.1	316.3
25°	505.4	493.7	432.2	324.1	308.4	295.4	297.9	304.4	320.9	345.7	360.8
27.5°	536.8	534.3	478.0	436.8	328.7	369.3	305.8	367.9	397.4	423.6	428.9
30°	722.1	729.5	550.0	419.7	381.2	316.3	354.9	379.2	402.0	438.7	439.4
32.5°	767.4	782.5	608.2	464.2	399.3	327.4	356.8	375.2	462.3	496.4	497.7
35°	779.2	817.7	627.2	447.9	385.6	326.1	329.4	392.2	435.4	504.8	529.7
37.5°	902.8	874.8	666.5	453.7	360.8	313.6	355.5	376.5	444.7	489.0	497.7
40°	955.3	939.5	692.1	465.5	356.2	349.0	329.4	351.0	383.0	415.0	415.0
42.5°	1052.9	991.3	706.4	457.0	346.3	374.6	300.6	324.7	354.9	335.8	343.7
45°	1182.4	1100.0	755.6	411.9	328.1	318.2	288.7	326.1	307.1	307.1	303.2
47.5°	1350.2	1237.4	739.2	396.2	369.3	301.2	381.2	306.4	282.8	293.3	293.9
50°	1615.3	1481.8	789.6	385.6	350.2	295.4	326.1	295.9	295.9	303.2	300.6
52.5°	1947.9	1684.7	811.2	385.1	331.4	343.7	323.5	354.2	306.4	332.0	328.7
55°	2308.0	1990.5	833.4	379.8	328.1	310.4	395.4	339.2	318.2	364.7	366.0
57.5°	2764.4	2344.7	925.2	369.3	329.4	311.1	373.2	379.8	387.6	418.4	423.0
60°	3048.6	2541.0	844.0	389.0	326.1	354.9	434.2	424.3	400.0	514.0	531.0
62.5°	3265.2	2689.7	695.4	405.2	385.6	357.4	448.6	495.0	472.8	518.5	531.6
65°	3304.5	2676.6	531.6	405.2	380.4	416.5	538.3	493.7	421.0	425.5	420.3
66°	3301.9	2636.6	489.8	408.5	385.6	434.2	528.5	499.5	407.2	411.9	402.0
67.5°	3194.0	2510.4	425.5	404.0	422.4	445.9	519.2	466.2	391.5	392.9	383.0
70°	2778.1	2117.5	362.0	415.0	438.1	447.1	567.6	434.2	359.4	350.2	348.4
72.5°	2043.5	1502.0	339.2	413.1	444.7	433.4	478.6	356.8	310.4	291.9	290.1
75°	1149.1	767.4	337.9	396.2	393.5	371.9	362.0	275.1	256.6	235.0	231.1
77.5°	529.7	369.9	286.1	318.9	297.2	293.9	269.8	229.2	218.6	204.3	198.3
80°	306.4	261.2	203.6	211.6	213.4	207.6	218.0	206.3	195.1	184.6	174.8
82.5°	178.8	165.6	148.6	139.4	139.4	149.3	179.4	171.5	163.0	153.9	132.3
85°	112.0	107.3	101.5	97.6	97.6	89.7	128.9	143.4	135.6	115.9	103.5
87.5°	73.3	76.6	68.1	68.7	66.7	59.6	87.0	96.3	82.6	66.1	54.9
90°	33.3	36.7	40.0	39.3	42.6	32.8	47.8	49.0	43.8	30.2	21.6
92.5°	25.5	30.2	33.3	33.3	36.7	22.3	34.8	38.6	36.0	28.1	20.3
95°	21.6	26.9	32.1	31.4	31.4	17.6	32.1	36.0	34.0	24.3	17.6
97.5°	17.6	21.6	26.2	26.2	28.8	15.0	29.5	34.8	32.8	24.3	17.0
100°	16.3	19.7	22.8	23.5	26.2	11.8	26.9	32.8	29.5	20.3	16.3
102.5°	15.0	16.3	19.0	19.0	19.7	10.5	21.6	26.9	23.5	15.7	15.7
105°	13.7	13.7	13.7	12.4	12.4	8.5	13.0	18.3	14.5	12.4	13.7
107.5°	13.0	12.4	10.5	9.8	9.2	7.1	9.2	11.0	8.5	11.0	12.4



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)