

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: P240971

Luminaire Tested: **UTLD-AF24-90-D-U-T3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240971
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-AF24-90-D-U-T3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8332 lumens
Efficiency: N/A
Efficacy: 88.6 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 - U3 - G2

Input Watts (W): 94
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

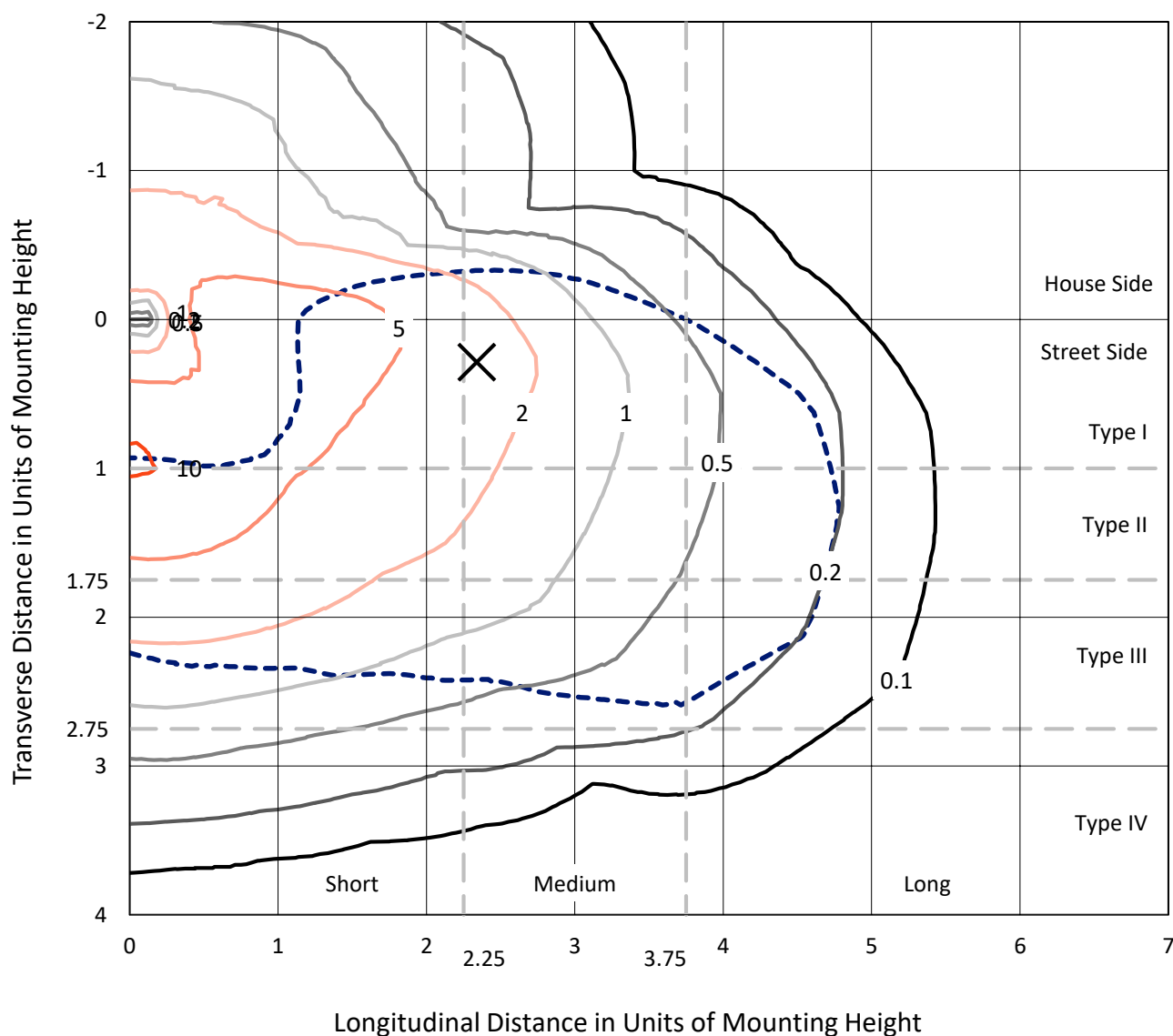


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

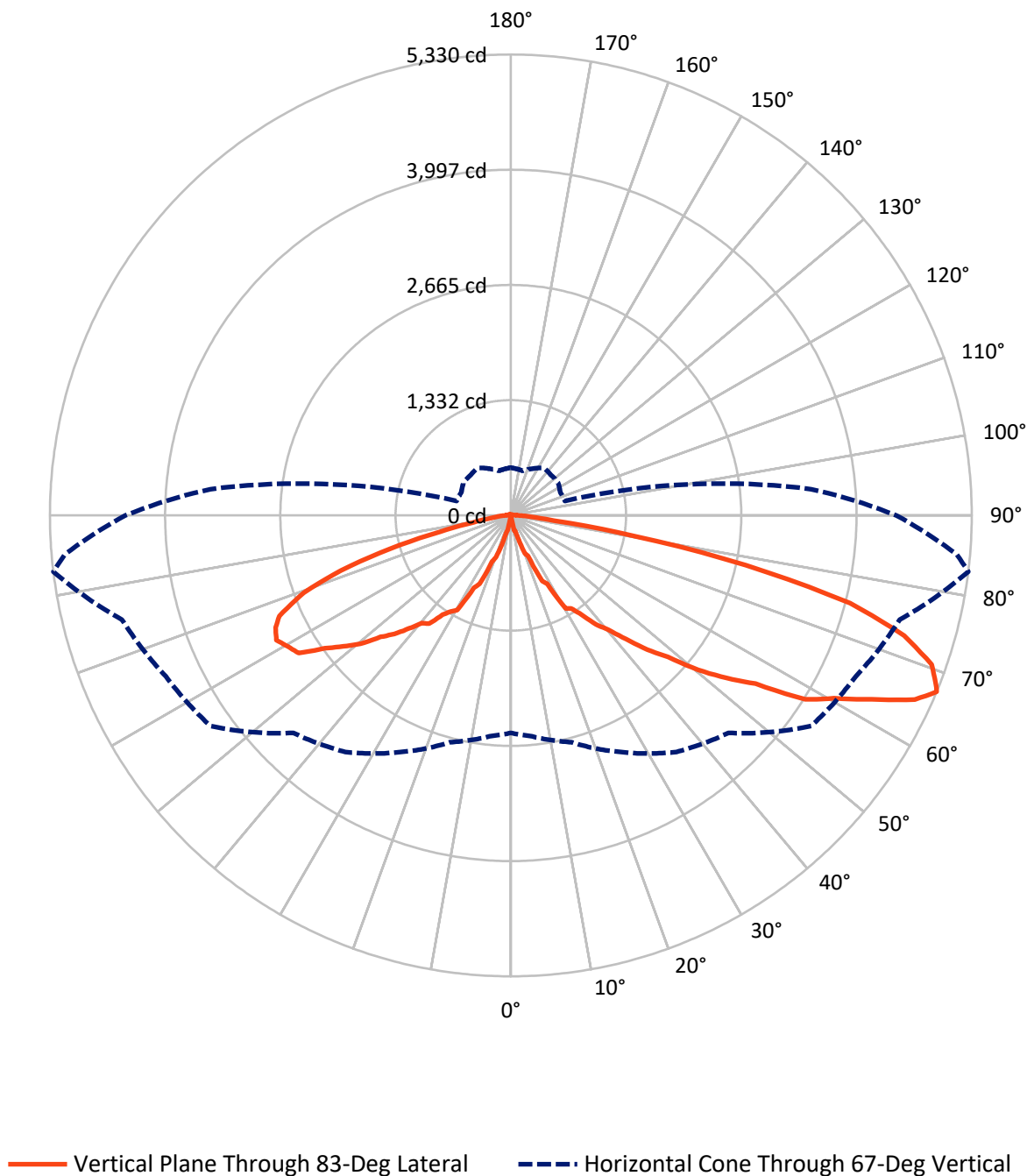


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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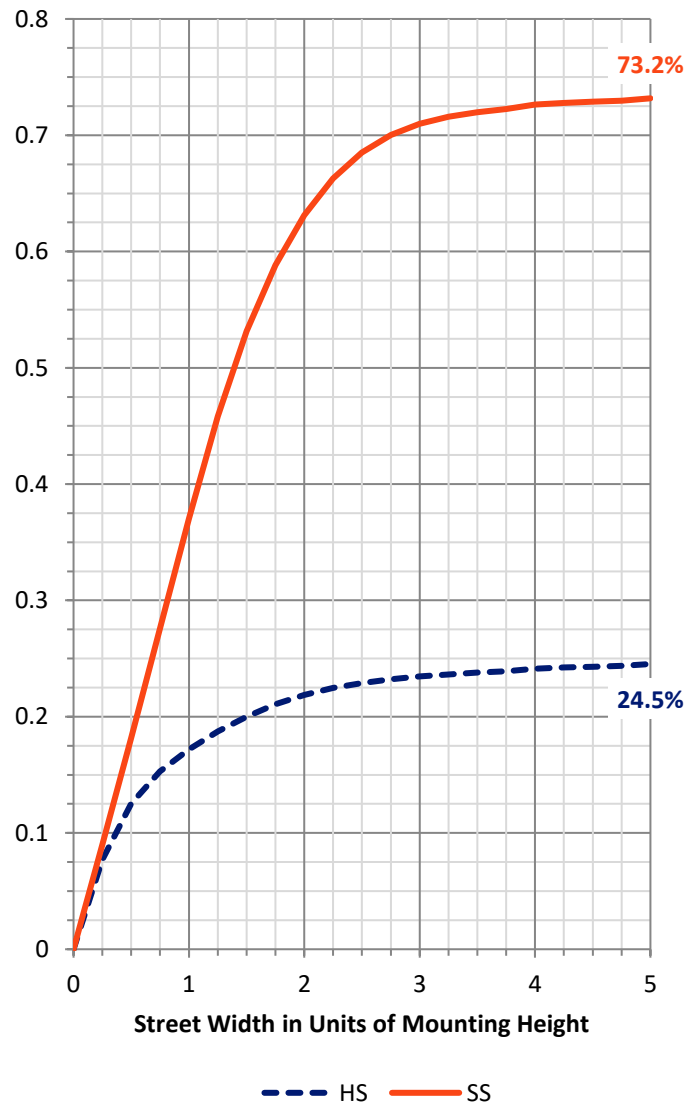
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2090.7	55.3	2146.0
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	6139.5	46.6	6186.0
	% Fixture	73.7	0.6	74.2
Total	Lumens	8230.1	101.9	8332.0
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	75.4	0.9
20°-30°	302.8	3.6
30°-40°	668.7	8.0
40°-50°	1191.8	14.3
50°-60°	1912.6	23.0
60°-70°	2327.1	27.9
70°-80°	1499.6	18.0
80°-90°	246.4	3.0
90°-100°	50.7	0.6
100°-110°	23.2	0.3
110°-120°	11.7	0.1
120°-130°	8.4	0.1
130°-140°	5.2	0.1
140°-150°	2.3	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8230.1	98.8
0°-180°	8332.0	100.0

Coefficient of Utilization



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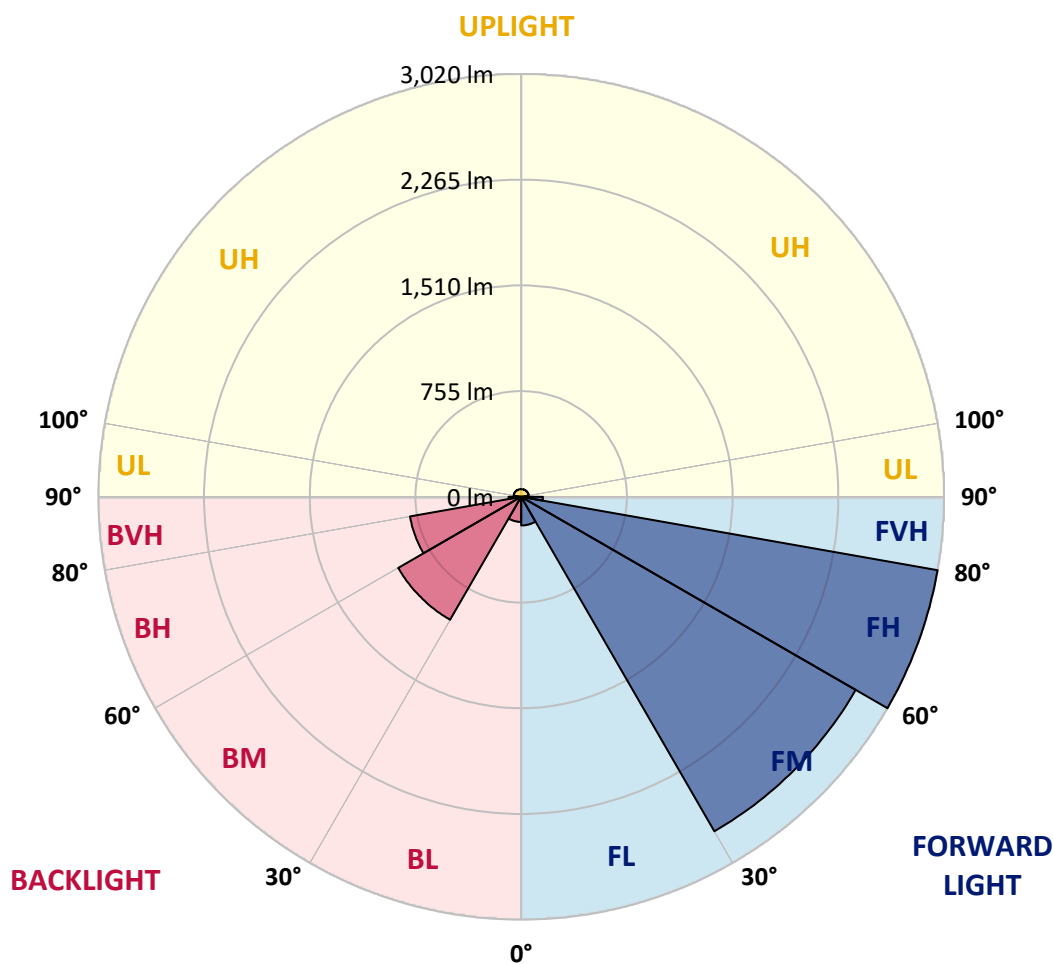
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.6	2.5			
FM	(30°-60°)	2758.8	33.1			
FH	(60°-80°)	3020.2	36.2			G2/5000
FVH	(80°-90°)	155.8	1.9			G2/225
BL	(0°-30°)	179.3	2.2	B1/500		
BM	(30°-60°)	1014.3	12.2	B2/2500		
BH	(60°-80°)	806.5	9.7	B2/1000		G2/1000
BVH	(80°-90°)	90.5	1.1			G1/100
UL	(90°-100°)	50.7	0.6		U3/500	
UH	(100°-180°)	55.3	0.7		U3/500	

BUG Rating: B2-U3-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	41.8	41.8	41.8	37.7	32.6	26.5	23.5	20.5	19.4	19.4	19.4
5°	92.9	97.0	92.9	91.9	82.7	101.1	40.8	27.5	20.5	18.4	18.4
7.5°	131.7	133.7	108.2	100.0	80.6	110.3	88.8	50.0	25.5	20.5	19.4
10°	228.6	197.0	167.5	165.4	155.2	116.4	79.6	71.5	39.8	30.6	31.6
12.5°	221.5	227.6	223.5	216.5	199.1	166.4	106.2	136.8	150.1	176.6	166.4
15°	271.5	267.5	236.8	238.9	226.6	240.9	215.4	227.6	214.4	186.8	195.0
17.5°	420.5	406.3	425.6	326.6	238.9	293.0	298.1	266.5	284.8	294.0	326.6
20°	480.8	460.4	484.9	415.4	396.1	332.8	317.4	482.8	450.2	472.6	476.7
22.5°	664.5	653.4	582.9	475.7	506.4	424.6	453.3	501.2	511.5	506.4	522.6
25°	838.1	837.1	828.9	731.9	540.0	602.3	523.6	571.6	738.1	840.1	849.4
27.5°	992.3	984.1	925.9	898.4	756.5	679.9	624.7	792.2	845.3	894.3	905.4
30°	1254.5	1307.6	1182.1	1021.8	915.6	783.0	840.1	836.1	1017.7	1248.4	1260.7
32.5°	1473.0	1443.4	1312.8	1178.0	1069.8	967.7	885.1	1167.8	1217.8	1281.1	1309.7
35°	1795.6	1806.8	1669.0	1313.8	1225.0	1084.1	1157.6	1267.8	1302.5	1407.7	1415.9
37.5°	1876.3	1965.1	1884.4	1575.1	1302.5	1185.2	1245.3	1387.3	1501.6	1598.6	1537.4
40°	2231.5	2186.6	2014.1	1765.0	1462.8	1327.1	1523.1	1606.7	1624.1	1737.4	1751.7
42.5°	2579.6	2599.0	2385.6	2069.2	1671.1	1542.4	1714.0	1691.4	1856.9	1954.9	2008.0
45°	2918.5	2927.7	2759.2	2359.1	2004.9	1901.8	1818.1	1914.0	2189.6	2213.2	2226.4
47.5°	3148.2	3149.3	3077.8	2675.5	2286.6	2053.9	2027.3	2130.4	2404.0	2445.9	2458.2
50°	3506.5	3497.3	3333.0	2886.9	2659.3	2355.0	2458.2	2419.3	2656.2	2807.3	2839.9
52.5°	3647.3	3601.4	3513.6	3194.2	2994.1	2692.9	2646.0	2716.3	2986.9	3123.7	3231.9
55°	3555.5	3635.2	3618.8	3389.1	3093.1	2990.0	2867.4	3131.9	3223.7	3434.0	3626.0
57.5°	3364.6	3501.4	3565.7	3480.0	3318.7	3084.9	3304.3	3264.5	3616.7	4014.9	4143.5
60°	3234.0	3318.7	3449.3	3553.4	3436.1	3350.3	3563.7	3771.9	3906.6	4294.6	4466.1
62.5°	2999.2	3079.8	3289.1	3440.2	3373.8	3402.3	3851.5	3960.8	4357.9	4681.4	4915.2
65°	2720.4	2796.0	3041.0	3199.2	3357.4	3469.7	4034.2	4245.6	4527.3	5133.7	5166.3
67°	2515.2	2559.2	2715.3	3019.5	3338.1	3556.5	4242.5	4401.8	4654.9	5329.7	5175.5
67.5°	2446.9	2489.8	2617.3	2932.8	3326.8	3569.8	4301.7	4447.7	4673.2	5309.2	5173.5
70°	1883.4	2035.5	2038.5	2339.7	2970.5	3471.8	4406.9	4605.9	4784.5	5162.2	4994.9
72.5°	1128.0	1128.0	1180.1	1476.1	2105.9	3105.3	4406.9	4550.8	4705.0	4756.0	4474.2
75°	546.2	520.6	591.1	708.4	1060.6	2094.7	3972.0	4171.1	4190.4	4051.6	3629.0
77.5°	450.2	391.0	371.5	363.5	568.6	784.0	2654.1	3256.4	3257.4	2779.7	2432.6
80°	281.7	284.8	293.0	252.2	325.6	405.3	1058.5	1983.4	1802.7	1444.4	1216.8
82.5°	199.1	206.2	209.3	186.8	227.6	189.9	352.2	837.1	728.9	503.3	426.7
85°	139.8	135.7	152.1	126.5	136.8	112.3	194.0	360.4	410.4	249.1	235.8
87.5°	83.7	83.7	102.1	85.7	93.9	80.6	117.4	176.6	204.2	140.9	131.7
90°	50.0	45.9	48.0	49.0	53.1	45.9	63.3	84.7	88.8	71.5	65.4
92.5°	37.7	37.7	40.8	38.8	48.0	41.8	55.1	66.4	80.6	61.3	57.2
95°	24.4	27.5	30.6	31.6	36.7	31.6	45.9	54.1	60.3	47.0	44.9
97.5°	22.5	24.4	26.5	26.5	30.6	25.5	37.7	48.0	48.0	36.7	33.7
100°	21.5	22.5	23.5	23.5	25.5	20.5	29.6	41.8	41.8	30.6	28.5
102.5°	19.4	20.5	19.4	18.4	21.5	16.4	24.4	36.7	29.6	23.5	24.4
105°	19.4	19.4	17.4	15.3	17.4	13.3	21.5	26.5	20.5	19.4	20.5
107.5°	18.4	18.4	14.3	13.3	14.3	11.3	17.4	18.4	16.4	18.4	19.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	17.4	16.4	13.3	11.3	11.3	10.2	13.3	13.3	13.3	17.4	19.4
112.5°	15.3	14.3	11.3	9.2	9.2	8.2	9.2	10.2	12.3	16.4	18.4
115°	14.3	13.3	10.2	8.2	7.2	7.2	8.2	8.2	11.3	16.4	18.4
117.5°	14.3	13.3	9.2	8.2	6.1	6.1	7.2	8.2	11.3	16.4	18.4
120°	13.3	13.3	9.2	7.2	6.1	5.1	6.1	7.2	11.3	17.4	18.4
122.5°	13.3	12.3	9.2	7.2	5.1	5.1	5.1	6.1	10.2	16.4	17.4
125°	12.3	12.3	8.2	6.1	5.1	4.1	5.1	6.1	11.3	16.4	17.4
127.5°	12.3	11.3	8.2	6.1	4.1	4.1	5.1	5.1	10.2	15.3	16.4
130°	12.3	11.3	8.2	5.1	4.1	4.1	4.1	5.1	10.2	14.3	15.3
132.5°	10.2	10.2	7.2	5.1	4.1	3.1	4.1	4.1	8.2	12.3	13.3
135°	10.2	9.2	7.2	5.1	4.1	3.1	3.1	4.1	8.2	11.3	11.3
137.5°	9.2	8.2	7.2	5.1	3.1	3.1	2.0	3.1	7.2	9.2	10.2
140°	8.2	8.2	6.1	5.1	3.1	2.0	2.0	3.1	5.1	7.2	8.2
142.5°	8.2	8.2	7.2	5.1	3.1	2.0	2.0	2.0	4.1	6.1	6.1
145°	7.2	7.2	6.1	4.1	2.0	1.0	1.0	2.0	3.1	4.1	5.1
147.5°	7.2	7.2	6.1	4.1	2.0	1.0	1.0	2.0	3.1	4.1	4.1
150°	6.1	6.1	5.1	3.1	1.0	0.0	0.0	1.0	2.0	3.1	3.1
152.5°	4.1	4.1	3.1	2.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0
155°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	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°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	19.4	19.4	19.4	19.4	19.4	19.4	18.4	18.4	18.4	18.4	18.4
5°	17.4	17.4	18.4	18.4	18.4	18.4	18.4	19.4	20.5	20.5	21.5
7.5°	19.4	19.4	18.4	18.4	19.4	21.5	34.7	73.4	138.8	128.6	127.6
10°	30.6	30.6	27.5	25.5	27.5	100.0	157.2	149.0	125.5	122.4	118.5
12.5°	194.0	180.7	146.0	91.9	133.7	126.5	147.0	172.5	224.5	235.8	227.6
15°	195.0	203.2	219.5	237.8	301.2	133.7	259.3	317.4	338.9	338.9	346.1
17.5°	338.9	365.5	280.7	253.2	300.1	367.4	289.9	322.5	319.5	320.5	311.4
20°	551.3	498.2	549.2	493.1	336.9	411.4	361.4	346.1	466.5	555.4	555.4
22.5°	546.2	578.8	571.6	566.5	593.1	365.5	461.5	501.2	519.6	496.1	531.8
25°	911.6	876.9	828.9	565.5	568.6	508.4	498.2	467.5	508.4	548.2	540.0
27.5°	953.4	961.6	870.7	842.2	596.2	571.6	469.5	544.1	593.1	596.2	591.1
30°	1301.5	1317.9	1028.0	775.8	669.6	521.6	549.2	524.7	548.2	575.7	591.1
32.5°	1377.1	1352.5	1135.2	873.8	656.4	552.3	505.3	524.7	613.5	613.5	608.5
35°	1466.9	1448.5	1169.8	829.9	715.6	516.5	467.5	522.6	548.2	593.1	596.2
37.5°	1647.6	1637.3	1284.2	827.9	637.0	487.9	514.4	527.7	535.9	546.2	536.9
40°	1767.0	1688.4	1318.9	864.6	616.5	565.5	535.9	497.2	504.3	478.7	467.5
42.5°	1991.6	1859.9	1352.5	840.1	601.3	623.7	498.2	491.0	473.6	447.1	447.1
45°	2220.3	2051.8	1397.5	790.1	579.8	605.4	513.4	502.3	486.9	482.8	473.6
47.5°	2453.0	2226.4	1390.4	821.7	650.3	566.5	643.1	540.0	464.4	504.3	501.2
50°	2835.8	2510.2	1396.4	759.4	648.2	556.4	644.2	511.5	497.2	527.7	530.8
52.5°	3148.2	2703.1	1481.2	723.7	627.8	644.2	609.5	619.6	585.9	576.7	588.0
55°	3521.8	2950.2	1426.1	680.9	611.4	607.4	717.6	623.7	593.1	622.7	625.7
57.5°	3990.3	3294.2	1438.4	611.4	616.5	584.9	702.4	698.3	679.9	665.5	660.4
60°	4261.9	3404.4	1324.0	652.3	597.2	645.2	745.2	723.7	626.8	727.8	744.2
62.5°	4475.2	3575.9	1043.3	645.2	663.5	615.5	683.9	706.4	660.4	737.0	746.2
65°	4527.3	3566.7	799.3	662.5	656.4	683.9	809.5	694.2	576.7	588.0	593.1
67°	4455.9	3486.1	648.2	630.9	665.5	658.5	669.6	596.2	532.9	544.1	552.3
67.5°	4415.1	3420.7	614.5	628.8	688.0	657.5	656.4	573.7	520.6	534.9	538.0
70°	4035.2	3064.5	514.4	620.6	681.9	597.2	613.5	505.3	459.4	464.4	466.5
72.5°	3455.4	2459.2	491.0	617.6	669.6	498.2	471.6	413.5	391.0	383.8	373.6
75°	2652.1	1694.5	484.9	557.4	550.2	376.7	377.7	344.0	346.1	330.7	324.6
77.5°	1597.5	949.4	412.5	471.6	412.5	287.9	312.4	305.2	313.4	297.1	286.8
80°	765.6	463.5	325.6	347.1	290.9	225.6	266.5	277.6	279.7	256.2	245.0
82.5°	327.7	239.9	220.4	217.5	207.2	174.5	215.4	226.6	228.6	214.4	171.4
85°	192.9	163.4	152.1	146.0	143.9	108.2	154.2	182.7	182.7	151.1	130.6
87.5°	120.5	119.5	107.2	107.2	112.3	76.5	106.2	125.5	118.5	89.8	71.5
90°	57.2	61.3	64.3	65.4	76.5	42.9	68.4	72.5	68.4	49.0	34.7
92.5°	45.9	52.1	56.2	58.2	69.5	36.7	61.3	65.4	62.3	49.0	34.7
95°	37.7	47.0	56.2	55.1	58.2	28.5	54.1	59.2	57.2	42.9	29.6
97.5°	30.6	37.7	45.9	45.9	53.1	24.4	50.0	56.2	55.1	38.8	28.5
100°	27.5	33.7	40.8	39.8	47.0	19.4	44.9	49.0	48.0	31.6	25.5
102.5°	24.4	27.5	31.6	31.6	34.7	16.4	33.7	37.7	35.7	26.5	25.5
105°	22.5	23.5	22.5	21.5	22.5	14.3	21.5	24.4	21.5	20.5	20.5
107.5°	21.5	21.5	18.4	17.4	16.4	12.3	15.3	16.4	14.3	18.4	20.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	21.5	20.5	16.4	15.3	13.3	11.3	12.3	12.3	12.3	18.4	19.4
112.5°	20.5	20.5	15.3	13.3	12.3	10.2	10.2	9.2	11.3	18.4	20.5
115°	20.5	19.4	14.3	12.3	10.2	9.2	8.2	8.2	10.2	18.4	20.5
117.5°	20.5	19.4	14.3	11.3	10.2	8.2	7.2	7.2	10.2	18.4	20.5
120°	20.5	20.5	14.3	10.2	9.2	8.2	7.2	7.2	10.2	17.4	19.4
122.5°	19.4	19.4	13.3	10.2	8.2	7.2	6.1	6.1	10.2	17.4	18.4
125°	18.4	18.4	13.3	9.2	7.2	6.1	6.1	6.1	10.2	16.4	18.4
127.5°	17.4	17.4	12.3	8.2	6.1	6.1	5.1	5.1	10.2	16.4	17.4
130°	16.4	16.4	11.3	7.2	6.1	5.1	4.1	5.1	10.2	15.3	16.4
132.5°	14.3	14.3	10.2	6.1	5.1	4.1	4.1	4.1	9.2	14.3	15.3
135°	12.3	12.3	9.2	6.1	5.1	4.1	3.1	4.1	8.2	12.3	13.3
137.5°	11.3	11.3	8.2	5.1	4.1	3.1	3.1	4.1	8.2	11.3	12.3
140°	8.2	8.2	6.1	4.1	3.1	3.1	2.0	3.1	7.2	9.2	10.2
142.5°	6.1	6.1	5.1	4.1	3.1	2.0	2.0	3.1	6.1	8.2	8.2
145°	5.1	5.1	4.1	3.1	3.1	2.0	1.0	2.0	5.1	7.2	7.2
147.5°	4.1	4.1	4.1	3.1	2.0	1.0	1.0	1.0	3.1	5.1	5.1
150°	3.1	3.1	3.1	3.1	2.0	0.0	0.0	0.0	2.0	3.1	3.1
152.5°	2.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
155°	1.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	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)