

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: P241122

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
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-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6624.4 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U2 - 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



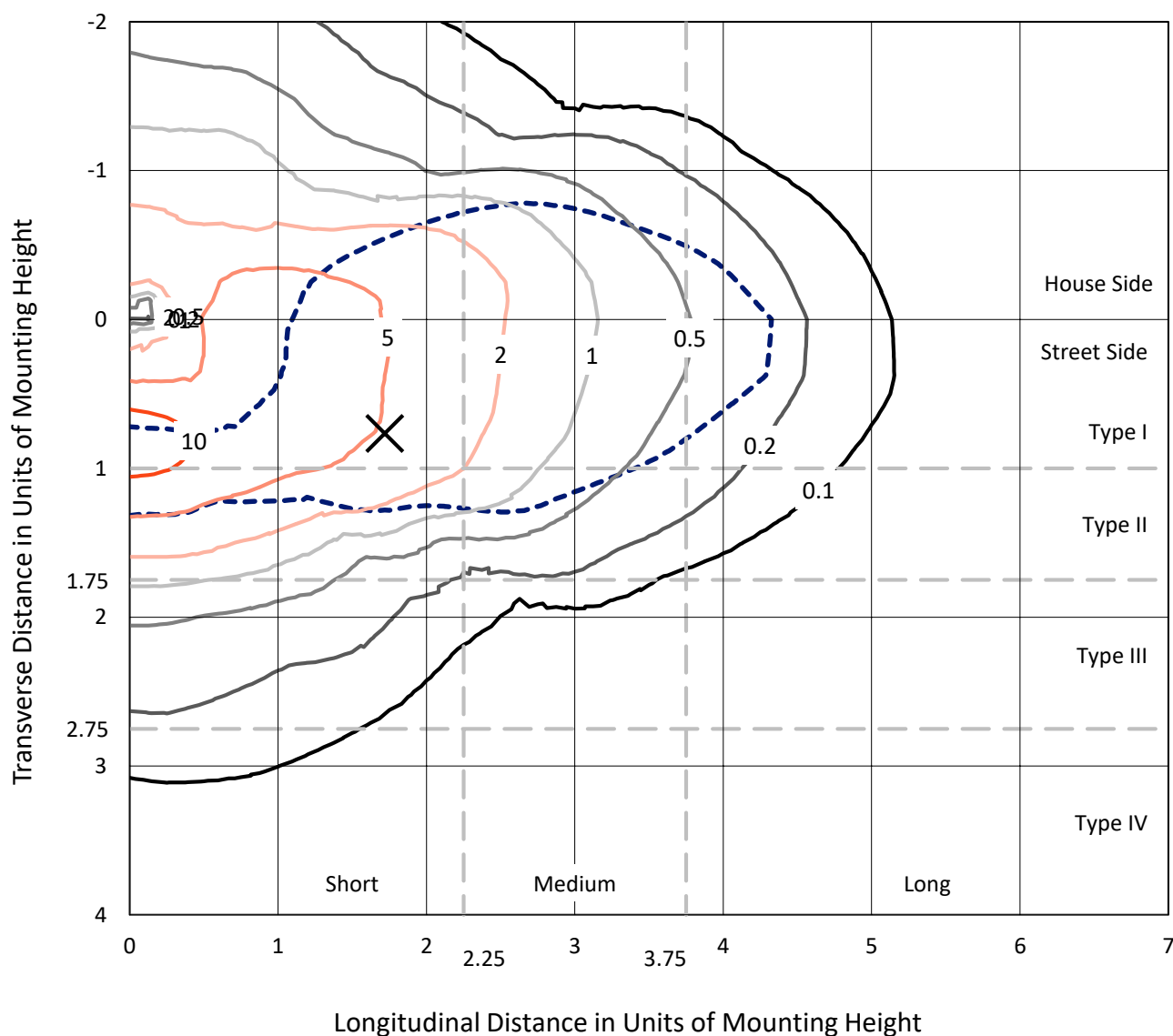
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

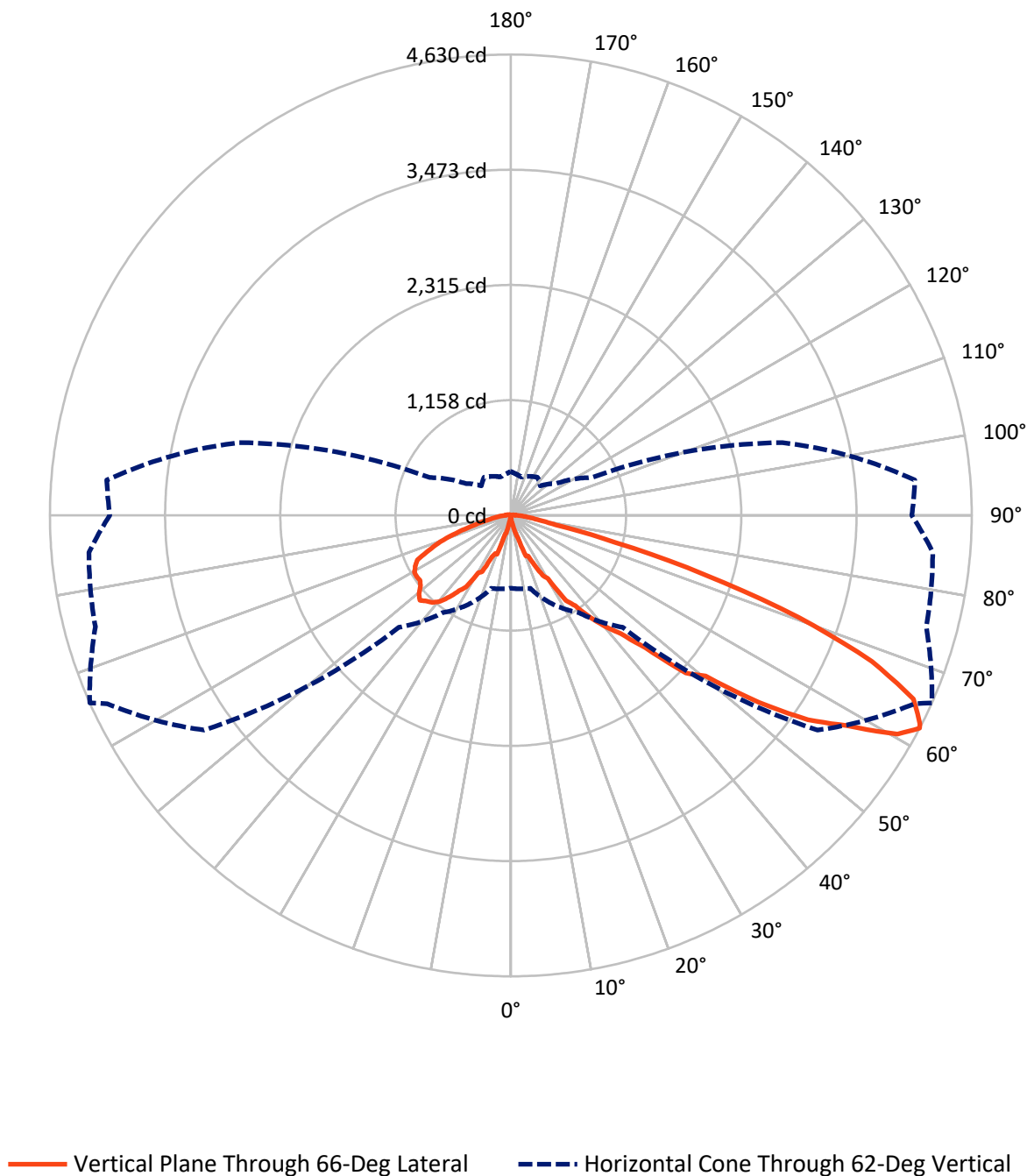
--- 1/2 Max cd



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Luminous Intensity Polar Plot



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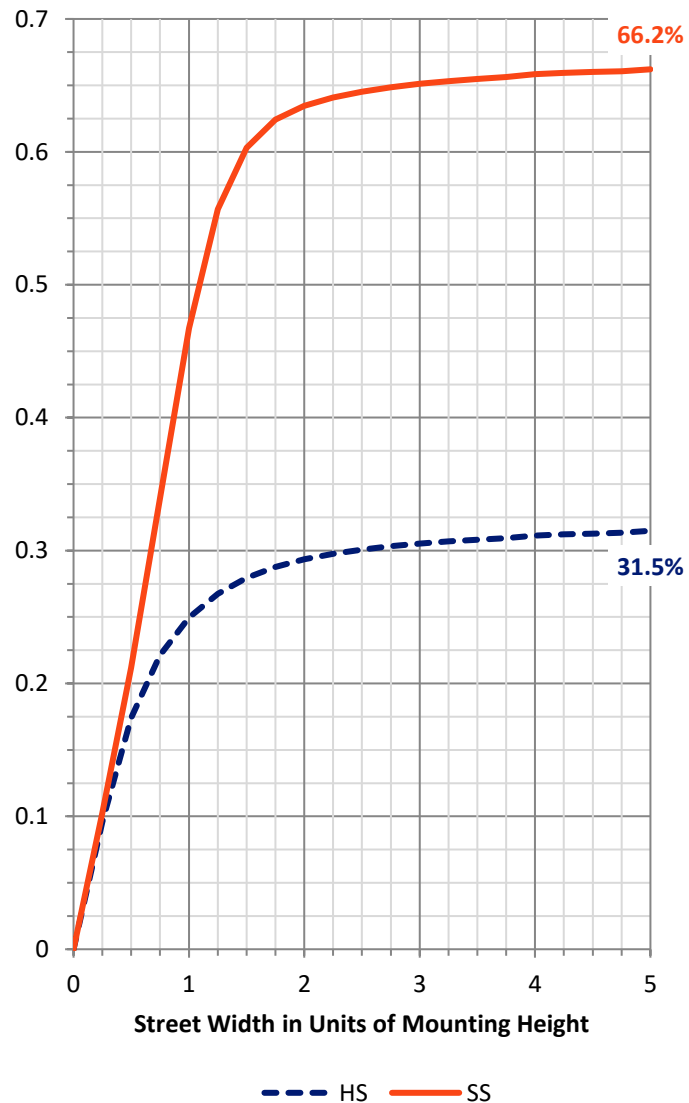
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.9	50.6	2175.5
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	4411.6	37.3	4448.8
	% Fixture	66.6	0.6	67.2
Total	Lumens	6536.5	87.9	6624.4
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	67.2	1.0
20°-30°	266.3	4.0
30°-40°	663.5	10.0
40°-50°	1265.3	19.1
50°-60°	1725.6	26.0
60°-70°	1585.2	23.9
70°-80°	808.6	12.2
80°-90°	148.8	2.2
90°-100°	39.3	0.6
100°-110°	18.9	0.3
110°-120°	11.4	0.2
120°-130°	8.8	0.1
130°-140°	5.9	0.1
140°-150°	2.9	0.0
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6536.5	98.7
0°-180°	6624.4	100.0

Coefficient of Utilization



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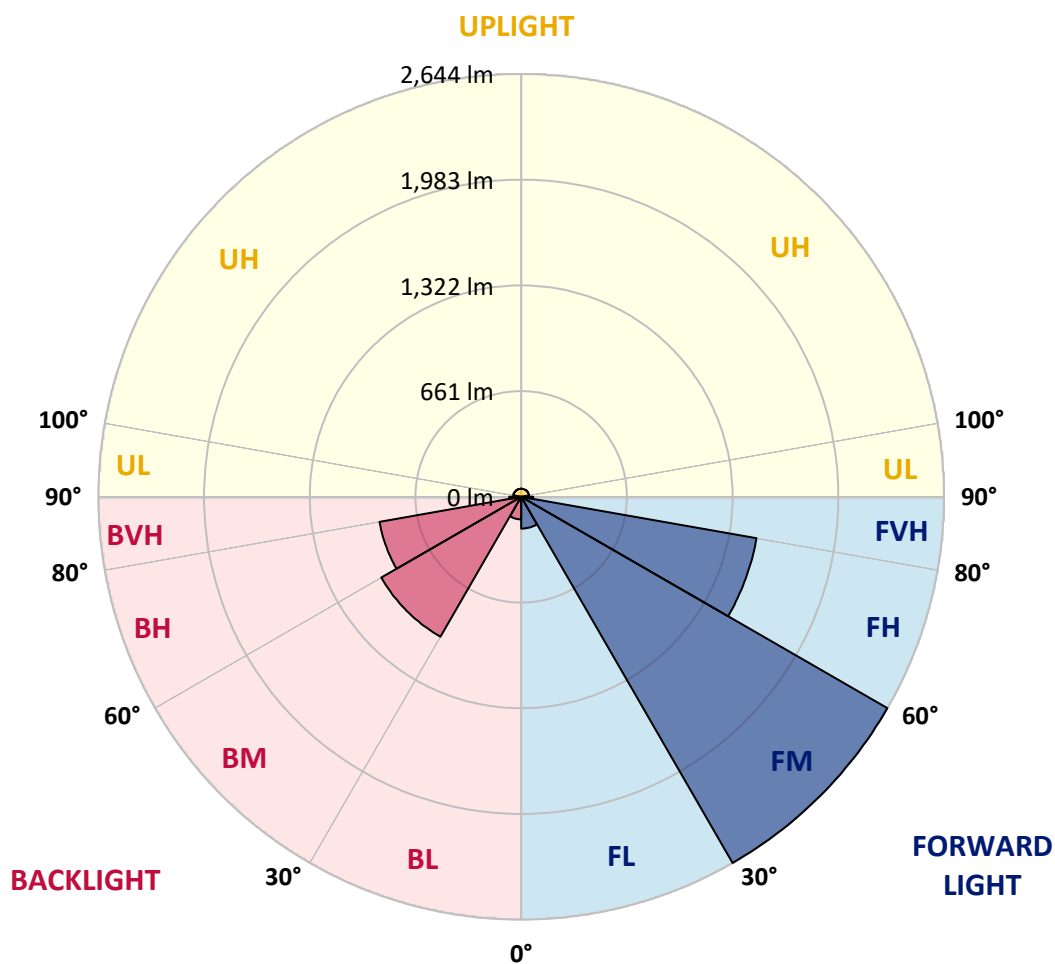
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.5	3.0			
FM	(30°-60°)	2644.2	39.9			
FH	(60°-80°)	1494.3	22.6			G1/1800
FVH	(80°-90°)	74.6	1.1			G1/100
BL	(0°-30°)	140.8	2.1	B1/500		
BM	(30°-60°)	1010.3	15.3	B2/2500		
BH	(60°-80°)	899.6	13.6	B2/1000		G2/1000
BVH	(80°-90°)	74.1	1.1			G1/100
UL	(90°-100°)	39.3	0.6		U2/50	
UH	(100°-180°)	50.6	0.8		U3/500	

BUG Rating: B2-U2-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
2.5°	82.4	78.3	58.7	51.4	43.2	35.1	26.9	22.8	22.1	20.4	18.8
5°	82.4	82.4	84.7	89.7	99.5	90.5	95.4	34.3	32.7	22.1	17.9
7.5°	157.5	153.3	192.6	136.2	85.7	80.0	121.5	74.2	74.2	34.3	20.4
10°	212.8	212.1	260.1	166.4	153.3	186.0	82.4	84.7	84.7	58.7	28.5
12.5°	208.8	207.1	210.5	229.2	192.6	163.2	165.5	108.5	135.4	213.7	219.4
15°	293.6	309.1	292.9	224.3	205.5	204.8	264.3	200.6	203.9	234.9	172.1
17.5°	391.4	393.2	428.2	363.8	286.3	302.5	279.7	280.6	247.9	260.1	291.1
20°	426.5	419.2	438.7	407.0	407.0	362.0	285.5	404.5	434.8	408.6	403.7
22.5°	732.4	729.1	637.7	446.1	461.6	423.3	432.2	471.5	442.8	415.9	408.6
25°	835.2	824.6	792.7	761.0	566.0	593.8	523.6	512.2	544.0	656.5	710.4
27.5°	1110.8	1123.0	959.1	856.4	763.4	638.6	598.6	735.7	682.7	718.5	710.4
30°	1397.9	1391.4	1333.5	1145.0	959.1	792.7	794.5	772.4	736.5	846.5	961.6
32.5°	1812.3	1833.5	1568.4	1370.9	1198.9	964.9	874.3	1026.8	1020.3	988.5	1031.7
35°	2259.2	2255.8	2039.0	1713.5	1296.8	1091.3	1044.7	1135.3	1113.3	1064.3	1144.3
37.5°	2543.0	2511.3	2363.6	2083.8	1585.5	1243.8	1260.1	1326.2	1304.1	1239.6	1387.3
40°	2954.1	2919.0	2742.9	2362.7	1976.9	1507.2	1599.3	1545.6	1473.8	1462.3	1481.1
42.5°	3104.9	3106.6	2934.4	2658.0	2317.1	1883.9	1932.1	1695.6	1623.0	1744.6	1703.8
45°	3152.2	3145.7	3025.8	2818.7	2538.1	2334.3	2181.0	1968.9	1895.4	2006.3	2050.4
47.5°	3048.7	3022.5	3042.1	2810.4	2771.4	2530.8	2499.0	2348.8	2365.3	2302.4	2406.0
50°	2770.6	2732.2	2783.6	2723.3	2890.5	2743.6	3113.9	2545.4	2536.5	2649.9	2778.7
52.5°	2339.1	2310.5	2476.9	2427.2	2864.3	2976.1	3236.3	3111.4	3119.6	3130.2	3060.2
55°	1916.6	1931.2	2058.6	2029.2	2486.7	3026.6	3644.9	3575.5	3622.8	3360.3	3361.1
57.5°	1368.6	1401.1	1630.3	1647.5	2072.4	2662.1	3972.6	3861.8	3983.4	3737.9	3792.5
60°	942.8	962.3	1086.4	1259.2	1555.3	2210.2	3798.2	4351.1	4461.3	4122.1	4119.5
62°	731.6	739.6	758.5	979.5	1193.9	1588.7	3759.8	4474.2	4630.1	4320.9	4254.1
62.5°	678.6	687.6	699.8	889.1	1101.0	1444.4	3616.3	4501.3	4612.2	4346.3	4277.0
65°	543.1	547.3	519.5	591.3	778.0	862.9	2598.4	4374.8	4445.8	4315.3	4210.9
67.5°	503.2	488.5	450.2	430.6	582.4	556.2	1414.3	3728.9	3912.3	4130.1	4021.7
70°	416.8	449.4	418.4	384.9	464.9	427.3	600.3	3017.6	3069.1	3781.0	3766.3
72.5°	318.9	342.5	367.0	363.0	358.1	344.1	398.8	1885.6	2036.5	3103.3	3487.4
75°	258.5	268.3	319.7	309.1	318.1	272.4	314.0	896.4	1084.7	2196.3	3033.1
77.5°	207.9	214.4	248.8	239.9	263.5	212.8	250.4	406.1	460.0	1262.5	2077.3
80°	137.8	141.1	181.1	179.4	192.6	188.4	189.2	284.6	287.9	590.4	1087.1
82.5°	102.8	101.2	124.8	125.6	124.8	136.2	129.7	194.9	203.1	289.5	361.3
85°	66.8	64.5	74.2	79.1	75.8	75.1	97.9	137.0	142.7	206.4	215.3
87.5°	36.7	39.2	48.9	48.9	51.4	50.6	80.0	91.3	95.4	137.8	115.9
90°	24.5	24.5	26.9	26.1	27.8	26.9	41.6	53.9	54.6	69.3	62.0
92.5°	22.1	23.6	26.9	26.9	29.4	25.2	37.4	45.7	46.4	56.3	47.3
95°	19.5	20.4	22.8	23.6	25.2	17.9	28.5	37.4	38.4	46.4	38.4
97.5°	16.3	17.9	19.5	20.4	22.8	16.3	23.6	30.1	31.0	35.8	29.4
100°	16.3	17.2	17.2	17.2	19.5	13.8	20.4	26.1	26.9	29.4	24.5
102.5°	15.6	16.3	15.6	14.6	16.3	12.2	17.9	22.1	22.1	21.2	20.4
105°	15.6	15.6	13.0	11.5	13.8	11.5	15.6	16.3	16.3	16.3	18.8
107.5°	14.6	14.6	12.2	10.6	11.5	9.9	13.0	13.8	13.8	14.6	17.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	13.8	13.0	10.6	9.0	9.0	9.0	10.6	11.5	11.5	13.0	18.8
112.5°	12.2	12.2	9.0	8.2	8.2	8.2	9.9	10.6	10.6	12.2	17.9
115°	11.5	11.5	9.0	7.3	7.3	7.3	9.0	9.9	9.9	11.5	17.9
117.5°	12.2	11.5	8.2	7.3	6.5	6.5	7.3	9.0	9.0	11.5	17.9
120°	10.6	10.6	8.2	6.5	5.7	6.5	7.3	8.2	9.0	12.2	17.9
122.5°	11.5	10.6	8.2	5.7	5.7	5.7	6.5	8.2	8.2	11.5	16.3
125°	10.6	9.9	7.3	5.7	4.9	5.7	6.5	7.3	8.2	11.5	16.3
127.5°	10.6	9.9	7.3	5.7	4.9	4.9	6.5	7.3	7.3	10.6	15.6
130°	9.9	9.9	6.5	4.9	4.9	4.9	5.7	6.5	6.5	9.9	13.8
132.5°	9.0	8.2	6.5	4.9	4.1	4.9	5.7	5.7	5.7	9.0	13.0
135°	8.2	8.2	6.5	4.9	4.1	4.1	4.9	5.7	5.7	8.2	11.5
137.5°	7.3	7.3	6.5	4.9	4.1	4.1	4.1	4.9	4.9	7.3	9.9
140°	7.3	7.3	6.5	4.9	4.1	4.1	4.1	4.1	4.1	5.7	8.2
142.5°	7.3	7.3	6.5	4.9	4.1	3.3	3.3	3.3	3.3	4.9	6.5
145°	6.5	6.5	5.7	4.9	3.3	2.4	2.4	3.3	3.3	4.1	4.9
147.5°	6.5	6.5	5.7	4.1	2.4	1.6	1.6	2.4	2.4	3.3	4.1
150°	4.9	4.9	4.9	3.3	1.6	0.0	1.6	1.6	1.6	3.3	3.3
152.5°	3.3	3.3	2.4	1.6	0.8	0.8	0.8	1.6	1.6	1.6	2.4
155°	1.6	1.6	1.6	0.8	0.8	0.0	0.0	0.8	0.8	1.6	1.6
157.5°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8
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°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
2.5°	18.8	17.9	17.9	17.9	18.8	18.8	18.8	17.9	17.2	17.2	17.2
5°	17.2	16.3	16.3	16.3	17.2	17.2	17.2	17.2	17.2	17.2	17.2
7.5°	18.8	17.2	17.2	16.3	16.3	17.2	18.8	27.8	48.1	67.7	79.1
10°	26.1	26.1	22.8	21.2	21.2	31.0	115.0	124.8	124.8	118.2	114.1
12.5°	236.5	186.8	164.8	57.9	47.3	96.2	110.2	103.6	143.5	167.1	177.0
15°	171.3	187.6	202.2	181.9	245.5	102.8	166.4	202.2	272.4	275.7	278.1
17.5°	287.9	310.8	224.3	195.8	229.2	304.2	248.8	257.8	257.8	257.8	258.5
20°	405.4	412.7	430.6	411.9	230.0	320.5	318.9	259.4	291.9	363.8	384.1
22.5°	430.6	445.3	424.2	411.1	486.1	299.4	329.5	412.7	417.6	398.0	407.7
25°	730.7	709.5	623.1	438.7	485.2	418.4	425.8	386.6	397.1	385.8	393.2
27.5°	725.1	713.7	644.3	632.9	509.7	495.1	395.5	446.1	473.8	491.7	488.5
30°	1013.0	946.0	746.2	653.3	601.9	473.8	434.8	422.5	419.2	440.5	442.1
32.5°	1017.9	1008.0	859.7	844.9	619.1	479.5	410.3	385.8	440.5	469.9	464.9
35°	1181.0	1130.4	982.8	911.9	711.2	451.0	366.2	385.8	394.8	415.9	415.1
37.5°	1327.0	1311.4	1190.7	1007.3	685.0	411.1	413.5	411.1	400.4	403.7	403.7
40°	1521.1	1435.4	1327.8	1096.2	641.1	440.5	446.1	388.2	377.6	371.9	371.9
42.5°	1751.9	1606.6	1507.2	1139.3	609.2	518.8	422.5	379.2	368.6	352.4	349.8
45°	2024.2	1844.1	1694.8	1153.2	511.4	537.4	438.7	431.5	396.4	381.7	376.0
47.5°	2263.3	2118.1	1911.0	1176.0	592.9	513.0	577.4	490.1	382.5	403.7	400.4
50°	2622.1	2435.4	2062.6	1118.2	633.7	498.3	600.3	429.0	393.9	422.5	420.8
52.5°	2939.4	2761.5	2221.7	1030.9	599.5	689.2	532.5	491.7	456.7	442.1	440.5
55°	3271.3	3093.5	2329.3	986.8	592.0	551.3	553.8	532.5	412.7	444.4	443.7
57.5°	3653.0	3555.2	2563.4	968.1	606.8	486.9	553.8	445.3	470.6	444.4	449.4
60°	3857.0	3857.0	2699.6	949.4	560.3	500.0	475.5	489.4	408.6	413.5	426.5
62°	4028.2	4073.8	2824.4	899.6	558.7	419.2	467.3	432.2	399.7	424.2	440.5
62.5°	4086.1	4121.2	2861.9	889.8	572.5	397.1	433.1	431.5	414.3	417.6	432.2
65°	4142.3	4304.7	2951.6	827.8	526.8	375.2	370.3	409.4	358.8	343.4	344.1
67.5°	4088.5	4312.0	2921.5	666.4	427.3	322.2	327.0	341.8	323.7	318.1	321.3
70°	3892.0	3982.5	2613.9	549.7	368.6	295.2	314.0	301.8	296.8	296.1	295.2
72.5°	3622.8	3450.7	2052.9	413.5	317.3	256.1	269.1	278.1	279.7	275.7	270.8
75°	3056.0	2710.1	1339.2	310.0	253.7	217.0	245.5	252.8	259.4	247.9	243.8
77.5°	2097.7	1708.7	693.2	246.3	219.4	181.9	215.3	226.7	233.3	216.2	218.6
80°	973.8	779.7	320.5	201.5	181.9	150.9	182.7	197.3	206.4	183.5	175.4
82.5°	328.7	300.1	193.3	155.8	149.2	115.0	147.6	164.8	167.1	152.5	129.7
85°	195.8	196.5	135.4	119.8	110.2	71.8	106.0	129.7	129.7	107.6	88.1
87.5°	112.5	126.4	103.6	91.3	82.4	48.9	79.1	88.9	87.3	68.5	48.9
90°	56.3	66.1	61.1	60.3	62.0	31.0	62.0	66.8	66.8	47.3	30.1
92.5°	41.6	50.6	54.6	51.4	52.2	23.6	49.7	50.6	49.7	36.7	23.6
95°	35.1	44.0	54.6	51.4	49.7	19.5	45.7	46.4	47.3	35.8	26.1
97.5°	27.8	33.5	42.4	41.6	44.9	16.3	41.6	41.6	40.0	29.4	22.1
100°	25.2	29.4	35.8	35.8	39.2	14.6	36.7	33.5	31.8	23.6	20.4
102.5°	21.2	23.6	27.8	26.9	29.4	13.8	26.9	26.1	24.5	20.4	19.5
105°	20.4	21.2	21.2	19.5	20.4	13.0	18.8	17.9	17.2	17.2	17.9
107.5°	19.5	19.5	17.9	16.3	16.3	12.2	13.8	13.0	13.8	17.9	18.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	19.5	19.5	16.3	14.6	13.0	11.5	12.2	10.6	12.2	17.9	19.5
112.5°	19.5	19.5	14.6	12.2	12.2	10.6	10.6	9.9	11.5	17.9	19.5
115°	18.8	18.8	13.8	11.5	10.6	9.9	9.9	9.0	11.5	17.9	19.5
117.5°	18.8	18.8	13.8	11.5	9.9	9.0	9.0	8.2	11.5	18.8	19.5
120°	18.8	18.8	13.8	10.6	9.9	9.0	8.2	8.2	11.5	17.9	19.5
122.5°	17.9	17.2	13.0	9.9	9.0	8.2	8.2	8.2	11.5	18.8	19.5
125°	17.2	16.3	13.0	9.9	8.2	8.2	7.3	7.3	11.5	17.9	18.8
127.5°	16.3	16.3	12.2	9.0	8.2	7.3	7.3	7.3	11.5	18.8	18.8
130°	15.6	14.6	11.5	8.2	7.3	6.5	6.5	7.3	12.2	17.2	17.9
132.5°	13.8	13.0	10.6	7.3	6.5	6.5	6.5	6.5	11.5	17.2	17.2
135°	11.5	11.5	9.0	6.5	5.7	5.7	5.7	6.5	10.6	14.6	15.6
137.5°	10.6	9.9	8.2	6.5	4.9	5.7	5.7	6.5	10.6	13.8	14.6
140°	9.0	8.2	6.5	4.9	4.9	4.9	4.9	5.7	9.0	12.2	13.0
142.5°	6.5	6.5	5.7	4.1	4.1	4.1	4.1	5.7	8.2	10.6	10.6
145°	5.7	5.7	4.9	4.1	3.3	2.4	2.4	4.1	6.5	9.0	9.0
147.5°	4.1	4.1	4.1	3.3	2.4	2.4	2.4	3.3	4.9	6.5	6.5
150°	3.3	3.3	3.3	2.4	2.4	1.6	1.6	2.4	4.1	4.9	4.9
152.5°	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6	2.4	3.3	3.3
155°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	1.6	1.6
157.5°	0.8	0.8	0.8	1.6	1.6	1.6	0.8	0.8	0.0	0.0	0.0
160°	0.8	0.8	0.8	1.6	1.6	1.6	0.8	0.8	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	1.6	1.6	0.8	0.8	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)