

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 769093

Luminaire Tested: **ARC85QLX3C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769093
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC85QLX3C
Description: Architectural Post Top Luminaire - TYPE III CUTOFF
Light Source: 85 WATT PHILIPS QL INDUCTION LAMP
Ballast/Driver: -

Summary

Lumens per Lamp: 6000 (1 lamp)
Luminaire Lumens: 2567.4 lumens
Efficiency: 42.8%
Efficacy: 30.2 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B1 - U2 - G1

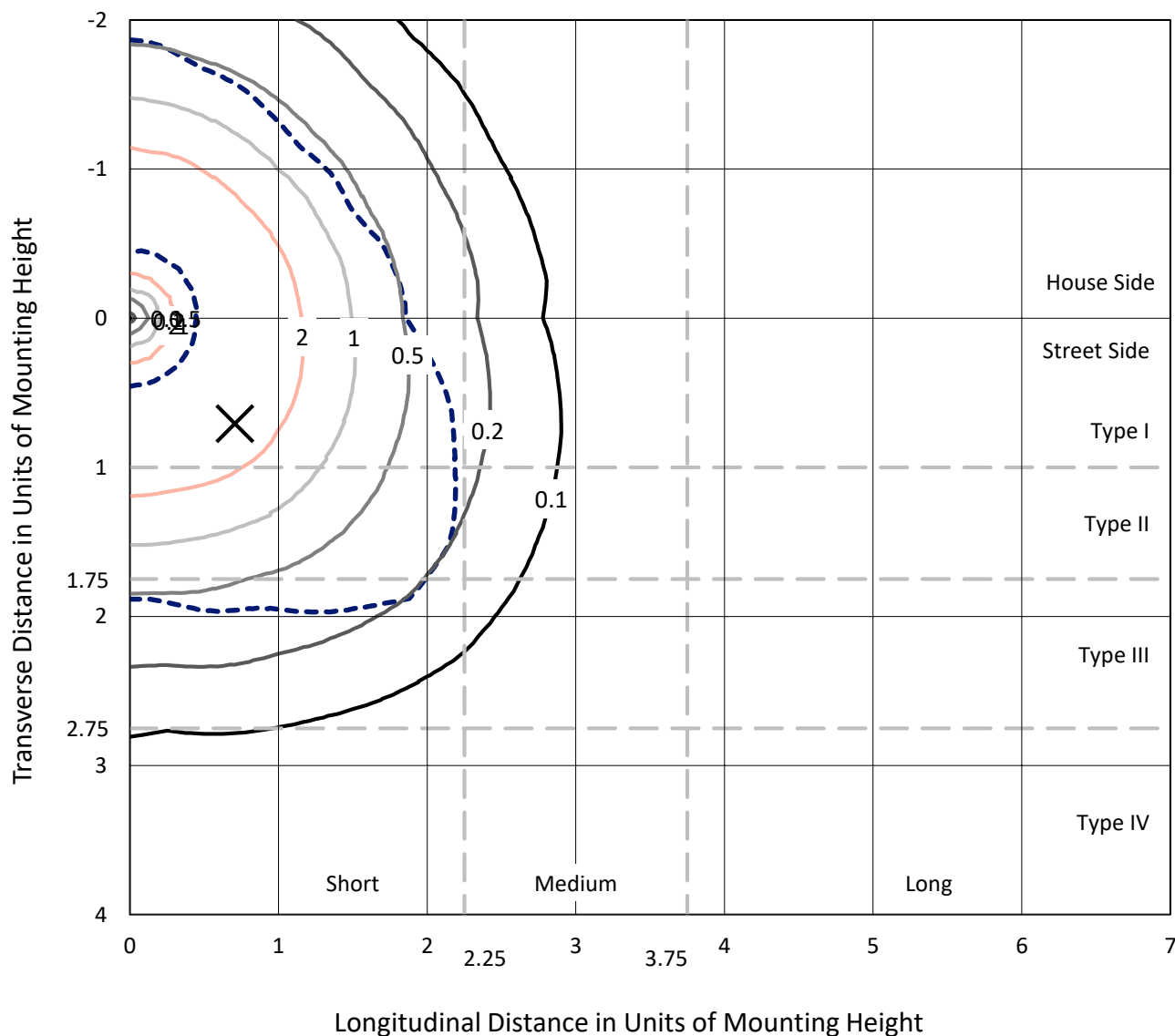
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

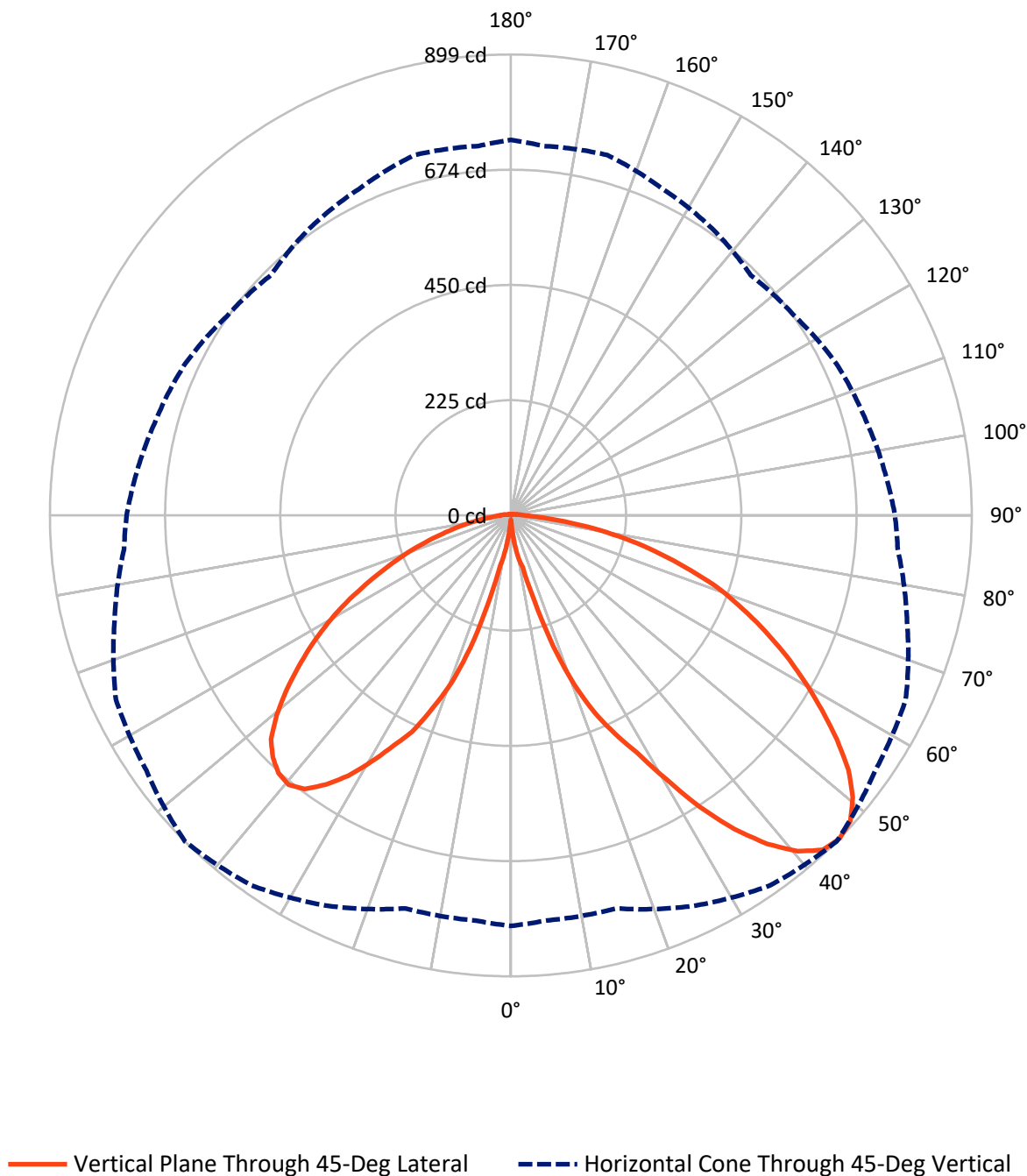
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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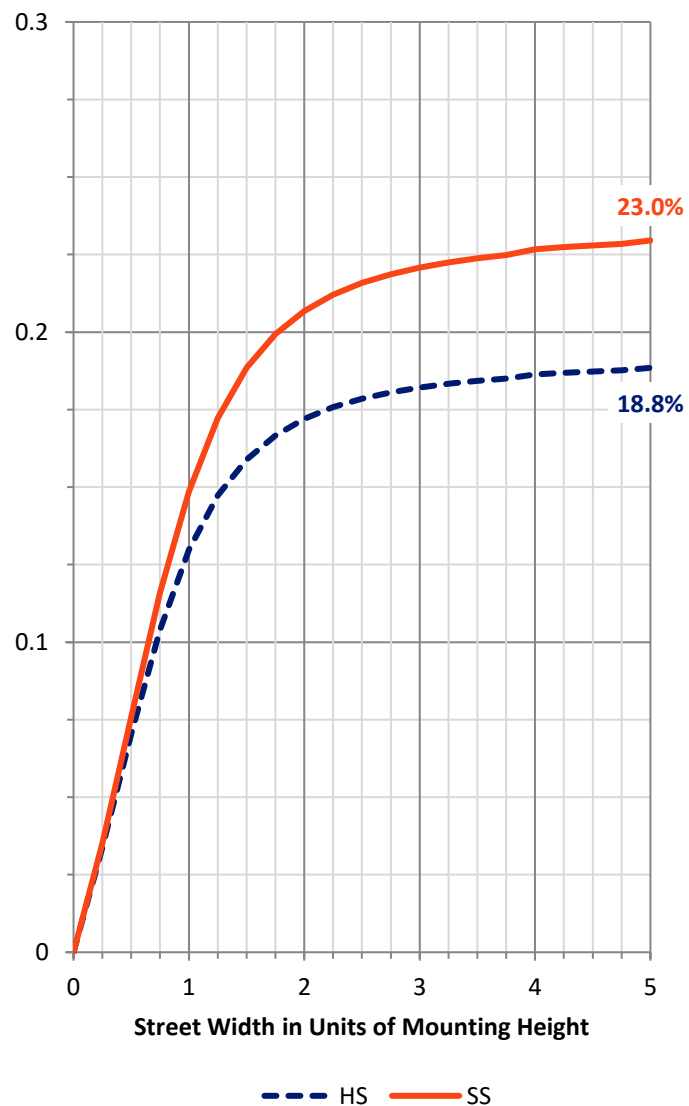
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1143.6	15.2	1158.8
	% Lamp	19.1	0.3	19.3
Street Side	Lumens	1391.4	17.3	1408.6
	% Lamp	23.2	0.3	23.5
Total	Lumens	2534.9	32.5	2567.4
	% Lamp	42.2	0.5	42.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	4.5	0.2	0.1
10°-20°	57.6	2.2	1.0
20°-30°	217.2	8.5	3.6
30°-40°	431.3	16.8	7.2
40°-50°	585.5	22.8	9.8
50°-60°	556.8	21.7	9.3
60°-70°	402.8	15.7	6.7
70°-80°	216.6	8.4	3.6
80°-90°	62.6	2.4	1.0
90°-100°	17.7	0.7	0.3
100°-110°	8.4	0.3	0.1
110°-120°	4.1	0.2	0.1
120°-130°	2.3	0.1	0.0
130°-140°	0.9	0.0	0.0
140°-150°	0.2	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	2534.9	98.7	42.2
0°-180°	2567.4	100.0	42.8

Coefficient of Utilization



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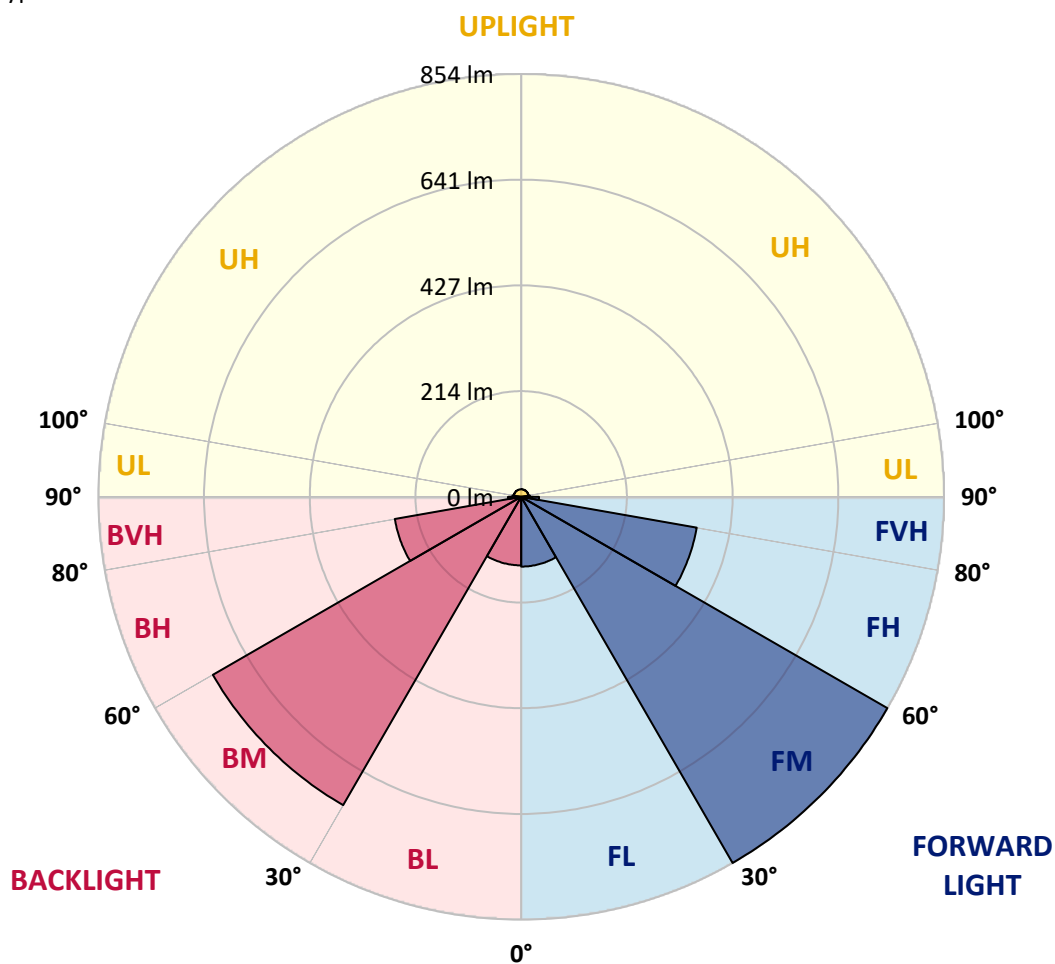
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.9	2.3			
FM	(30°-60°)	854.3	14.2			
FH	(60°-80°)	360.1	6.0			G0/660
FVH	(80°-90°)	36.0	0.6			G1/100
BL	(0°-30°)	138.5	2.3	B1/500		
BM	(30°-60°)	719.3	12.0	B1/1000		
BH	(60°-80°)	259.3	4.3	B1/500		G1/500
BVH	(80°-90°)	26.5	0.4			G1/100
UL	(90°-100°)	17.7	0.3		U2/50	
UH	(100°-180°)	15.2	0.3		U2/50	
Trapped Light		3432.6	57.2			

BUG Rating: B1-U2-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	10.8	10.8	10.8	10.3	9.2	9.2	9.2	9.7	9.7	8.7	9.7
5°	42.2	40.6	39.5	39.0	37.9	36.2	34.1	33.0	31.9	30.3	29.8
7.5°	60.6	60.1	61.1	60.1	59.0	60.1	58.4	57.3	55.7	55.7	54.6
10°	88.7	89.3	89.3	88.7	88.2	87.1	85.5	83.9	81.7	80.1	80.1
12.5°	111.4	109.8	109.3	109.3	104.4	103.9	100.6	100.6	100.1	100.1	99.0
15°	175.3	176.9	178.0	178.5	176.4	173.7	173.1	173.7	169.9	166.1	166.1
17.5°	260.8	259.7	262.9	268.9	267.8	268.9	266.2	264.5	255.9	251.6	251.0
20°	339.7	337.6	340.8	347.9	348.4	350.6	348.4	344.1	337.6	338.1	337.0
22.5°	406.8	407.4	403.6	411.2	413.3	417.7	412.8	409.5	408.5	407.9	409.0
25°	467.4	466.3	467.4	465.8	468.0	471.2	467.4	470.1	477.7	479.3	479.3
27.5°	509.6	514.5	521.0	521.5	526.9	523.1	521.5	512.9	528.0	533.4	538.8
30°	573.5	574.0	572.9	582.7	597.8	596.7	589.7	578.9	584.8	597.3	604.3
32.5°	636.2	637.3	640.0	651.4	669.2	679.0	670.3	660.0	649.7	663.3	670.3
35°	688.2	686.0	693.6	708.7	735.8	751.4	743.3	733.1	703.3	708.2	711.4
37.5°	730.3	727.6	738.5	759.6	793.6	813.1	806.1	789.3	750.9	742.8	736.8
40°	776.9	763.3	770.4	805.0	842.3	861.3	848.3	822.3	783.9	760.1	742.8
42.5°	798.5	789.3	788.8	838.0	871.5	892.1	867.8	843.4	801.8	764.4	748.7
45°	800.7	793.1	793.6	840.7	881.3	899.1	867.8	849.9	800.1	757.4	749.3
47.5°	786.6	779.6	780.7	827.2	867.8	891.0	853.2	837.5	786.6	738.5	732.0
50°	756.3	750.9	752.5	803.4	839.1	864.5	827.2	811.5	763.3	710.3	694.6
52.5°	704.4	709.2	711.4	763.9	802.8	824.5	797.4	772.5	730.9	672.5	654.6
55°	644.9	652.4	661.6	710.9	758.5	771.5	756.9	725.5	687.6	627.6	604.8
57.5°	577.8	582.7	603.2	642.2	705.5	715.2	707.6	675.2	635.7	575.6	549.1
60°	507.5	508.0	543.2	571.3	646.0	658.4	652.4	618.9	579.4	519.9	489.1
62.5°	432.8	435.0	480.4	504.8	578.3	602.7	598.3	558.9	523.7	461.5	427.4
65°	365.7	366.8	417.7	444.2	509.6	545.9	543.2	502.0	467.4	405.2	368.4
67.5°	313.8	306.7	355.4	387.4	443.6	488.5	486.4	446.3	409.0	348.4	312.2
70°	269.4	259.7	300.3	333.8	385.7	433.3	427.4	395.5	352.7	294.3	260.2
72.5°	231.5	217.5	247.2	281.3	328.9	367.9	363.0	335.4	296.5	242.9	217.5
75°	192.6	175.8	198.0	229.4	275.9	303.0	298.6	273.2	237.5	194.2	174.7
77.5°	154.7	139.0	153.6	180.7	227.8	240.7	235.9	213.7	182.9	146.6	134.7
80°	116.9	101.2	114.7	132.0	171.0	176.4	170.4	153.1	132.0	103.9	96.8
82.5°	74.7	66.5	74.7	86.0	112.0	115.2	113.1	101.7	88.7	71.4	68.2
85°	45.4	42.7	46.5	53.6	66.0	68.7	67.6	61.7	56.8	47.6	46.0
87.5°	30.3	30.3	31.9	33.5	37.3	39.0	37.3	35.2	33.5	30.8	30.8
90°	22.7	22.7	22.7	23.3	23.3	24.3	23.8	23.3	23.3	22.7	22.2
95°	16.2	16.2	16.2	16.8	16.2	16.2	16.2	16.2	15.7	16.2	15.1
105°	7.6	7.6	7.6	7.6	7.0	6.5	6.5	6.5	6.5	7.0	6.5
115°	3.2	4.3	4.3	4.3	4.3	4.3	3.8	3.2	3.2	3.2	3.2
125°	3.2	3.2	3.2	3.2	3.2	3.8	3.2	3.2	3.2	3.2	2.7
135°	2.2	1.6	1.1	1.1	0.5	1.6	1.1	0.5	1.1	0.5	1.1
145°	1.1	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.5
155°	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



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	8.7	9.2	9.2	9.2	9.7	8.7	9.2	8.7	8.7	9.7
5°	29.8	29.2	28.7	27.0	26.5	26.5	26.0	24.9	24.9	24.9
7.5°	53.0	51.9	50.3	49.8	49.2	48.7	48.7	50.3	50.9	50.9
10°	79.0	76.3	76.8	75.2	75.2	77.4	77.9	81.1	80.1	80.1
12.5°	96.8	97.9	97.9	97.9	101.2	101.2	105.5	107.1	108.7	108.2
15°	166.6	170.4	175.8	176.4	178.0	181.2	181.8	183.4	182.3	182.9
17.5°	253.2	262.9	267.8	271.6	270.0	270.0	269.4	267.3	262.9	262.9
20°	336.0	344.1	345.7	347.3	345.2	344.1	340.3	338.7	331.6	332.2
22.5°	407.9	408.5	409.5	403.6	404.1	402.5	398.7	397.1	387.4	388.4
25°	475.5	469.0	462.6	460.4	464.2	457.7	458.8	462.0	462.6	462.0
27.5°	537.2	520.4	501.0	504.2	503.7	506.9	509.1	513.4	519.9	515.0
30°	600.5	570.8	551.3	545.9	551.8	558.9	567.5	569.1	578.9	574.5
32.5°	660.0	618.9	604.3	588.6	598.9	614.0	631.9	635.7	645.4	643.8
35°	701.1	660.6	649.2	629.2	636.8	647.6	677.9	686.0	694.1	701.1
37.5°	726.6	696.3	683.3	656.8	668.1	672.5	705.5	724.4	723.9	735.8
40°	743.9	719.0	702.8	673.0	681.1	691.9	716.8	742.3	739.5	752.0
42.5°	746.6	724.9	708.7	682.2	676.8	699.5	714.1	742.8	740.6	750.9
45°	737.9	716.8	700.6	676.8	662.2	683.8	702.2	727.6	723.3	732.5
47.5°	716.3	698.4	676.2	654.6	639.5	651.9	669.2	702.8	692.5	716.3
50°	681.7	664.9	639.5	623.8	600.5	615.7	624.3	664.9	654.1	688.2
52.5°	638.4	625.9	590.2	581.6	556.1	569.1	578.9	611.9	612.4	642.7
55°	588.1	577.8	533.4	534.0	508.5	518.8	534.5	552.4	565.3	586.4
57.5°	534.5	520.4	477.2	479.9	462.6	471.8	490.7	498.8	522.6	533.4
60°	478.8	462.0	422.5	425.2	414.4	427.9	445.2	450.7	478.2	481.5
62.5°	426.3	406.3	373.3	373.8	364.6	384.1	394.9	404.1	431.7	433.9
65°	375.5	353.3	327.3	327.3	313.8	338.7	343.0	356.5	382.5	384.1
67.5°	323.5	302.4	280.2	279.7	266.7	290.5	294.3	308.4	332.7	336.5
70°	274.3	253.7	232.6	235.9	224.5	243.4	253.2	262.9	286.2	288.9
72.5°	228.3	207.7	187.7	192.6	182.9	200.7	211.5	217.5	238.6	240.2
75°	181.8	161.2	146.6	149.3	144.4	157.4	167.7	173.1	189.3	190.4
77.5°	137.4	119.6	110.4	112.5	112.0	120.6	129.8	134.7	144.4	143.9
80°	96.3	84.9	77.9	81.1	82.8	87.1	95.8	98.5	104.4	106.0
82.5°	66.5	59.5	56.8	58.4	60.6	62.2	68.2	69.8	73.6	73.6
85°	44.4	41.7	39.5	40.6	41.7	43.3	46.5	47.6	48.7	48.7
87.5°	30.3	29.2	29.2	29.8	29.8	30.8	31.9	32.5	32.5	32.5
90°	22.7	21.6	21.6	22.2	22.2	22.2	23.3	23.8	23.8	23.8
95°	15.7	14.6	14.6	14.6	14.6	14.6	15.1	14.6	15.1	14.1
105°	6.0	6.0	6.5	5.4	6.5	5.4	6.0	5.4	6.0	5.4
115°	3.8	3.2	3.2	3.2	3.2	2.7	3.2	3.2	2.7	3.2
125°	2.7	2.2	2.7	3.2	2.7	2.7	2.2	2.2	2.2	2.2
135°	1.1	0.5	1.1	0.5	1.1	0.0	0.5	1.1	0.5	1.1
145°	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0
155°	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	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

(END OF REPORT)