

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: P314541

Luminaire Tested: **MPN-A3-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A3-D-U-SYM-7027
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2745 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 28.7
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

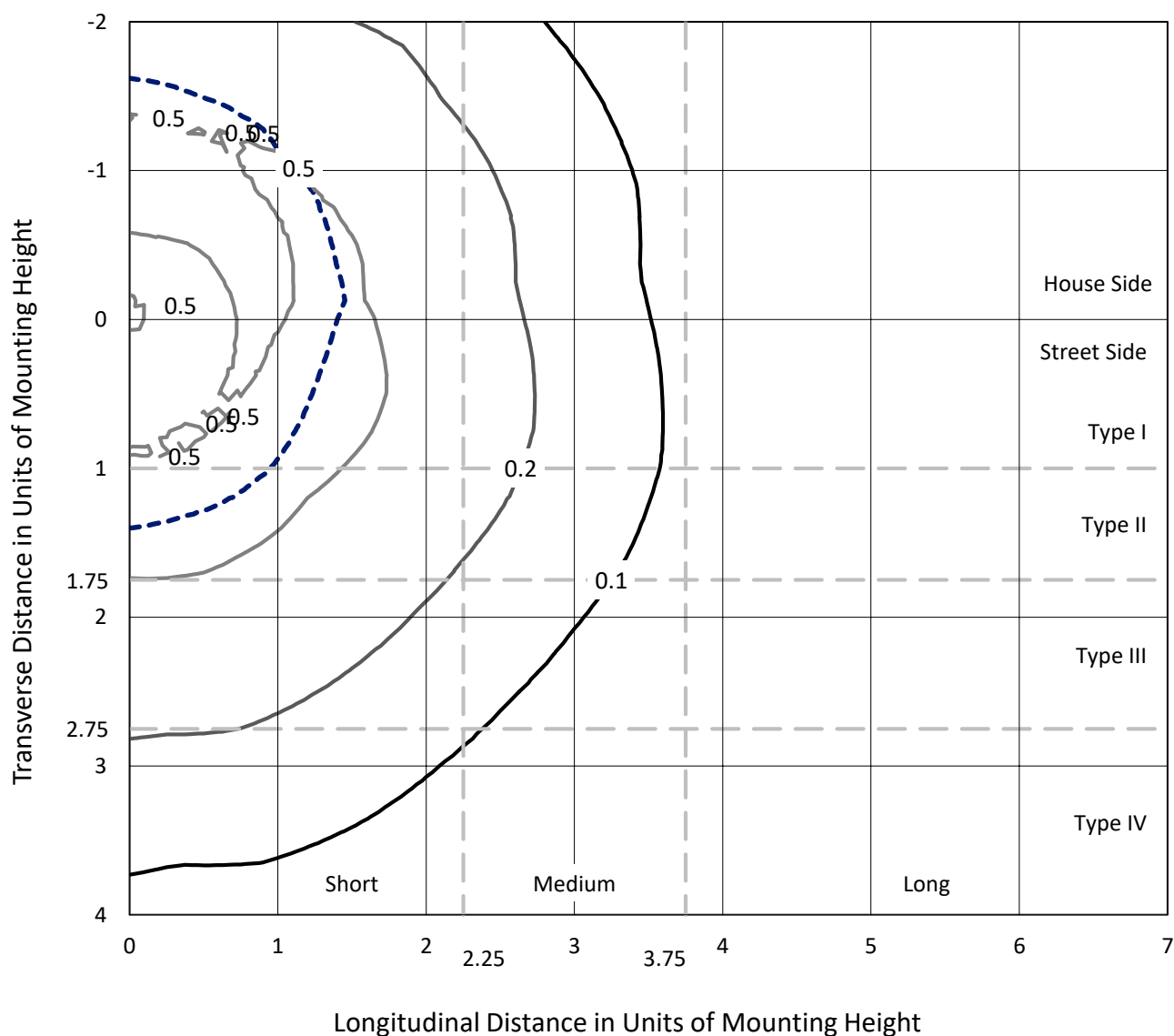


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

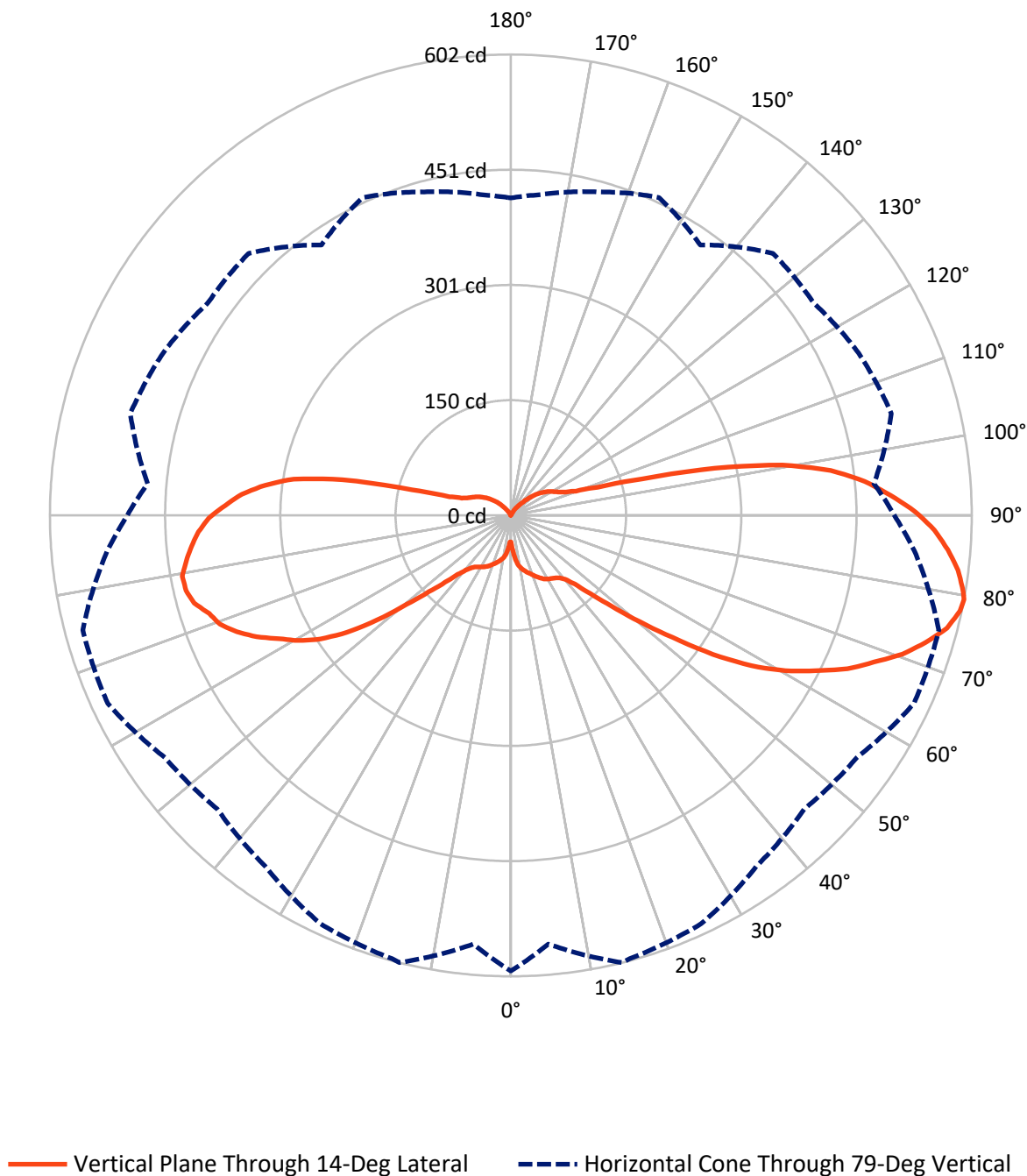


Based on 10 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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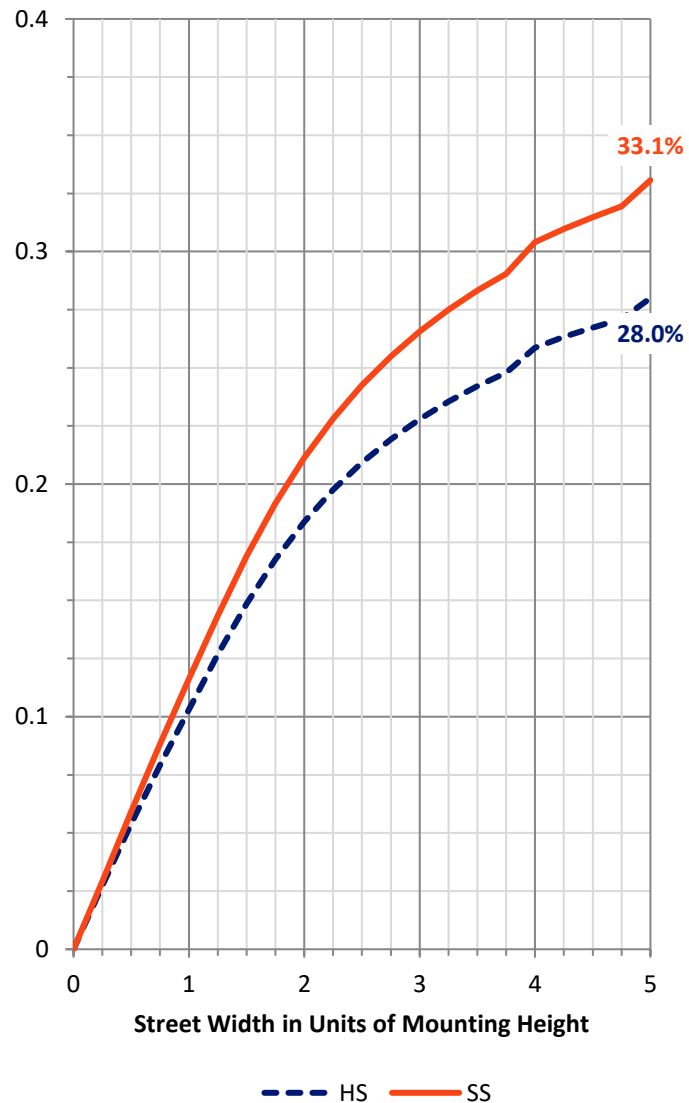
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.7	344.8	1249.4
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	1082.2	413.3	1495.5
	% Fixture	39.4	15.1	54.5
Total	Lumens	1986.9	758.1	2745.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.2
10°-20°	19.7	0.7
20°-30°	38.4	1.4
30°-40°	58.4	2.1
40°-50°	110.2	4.0
50°-60°	266.0	9.7
60°-70°	423.4	15.4
70°-80°	531.1	19.3
80°-90°	534.6	19.5
90°-100°	438.3	16.0
100°-110°	185.1	6.7
110°-120°	64.1	2.3
120°-130°	42.7	1.6
130°-140°	21.3	0.8
140°-150°	6.2	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1986.9	72.4
0°-180°	2745.0	100.0

Coefficient of Utilization



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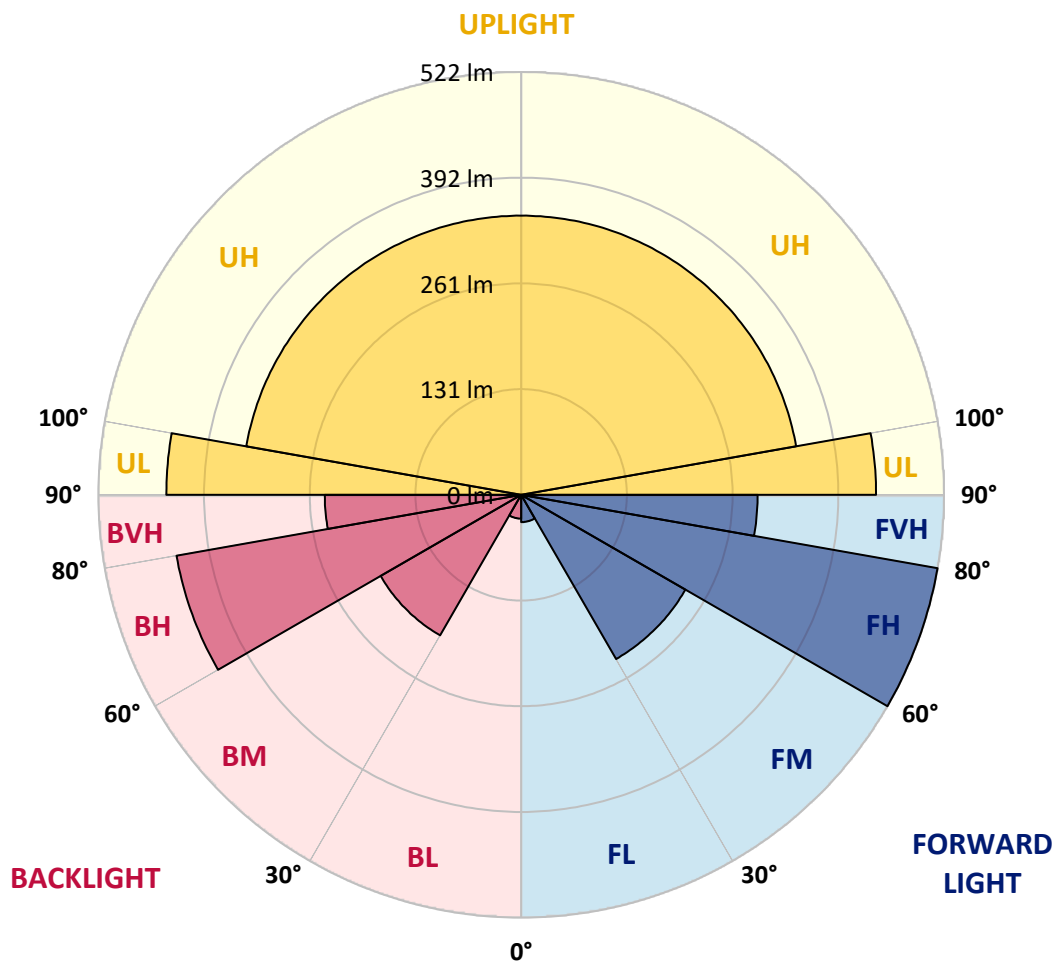
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	33.7	1.2			
FM	(30°-60°)	234.2	8.5			
FH	(60°-80°)	522.2	19.0			G0/660
FVH	(80°-90°)	292.0	10.6			G3/500
BL	(0°-30°)	29.4	1.1	B0/110		
BM	(30°-60°)	200.4	7.3	B0/220		
BH	(60°-80°)	432.3	15.7	B1/500		G0/660
BVH	(80°-90°)	242.6	8.8			G3/500
UL	(90°-100°)	438.3	16.0		U3/500	
UH	(100°-180°)	344.8	12.6		U3/500	

BUG Rating: B1-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
2.5°	46.2	44.9	44.9	45.3	45.3	43.5	42.2	42.2	41.3	40.5	38.7
5°	56.3	55.4	55.4	55.4	55.4	55.9	54.5	53.7	51.9	51.0	49.7
7.5°	64.2	63.8	63.8	64.2	63.8	63.3	62.0	62.0	60.3	59.4	58.1
10°	69.9	69.5	69.5	69.5	68.6	67.7	66.9	66.4	65.1	63.8	62.5
12.5°	73.0	72.6	73.0	73.0	72.1	70.4	69.9	69.5	68.6	67.3	65.5
15°	76.5	76.1	76.5	76.5	75.2	74.3	73.5	73.0	72.1	71.3	69.5
17.5°	80.1	79.6	79.6	79.6	79.2	77.4	76.5	77.0	75.7	74.3	73.0
20°	84.0	83.6	83.1	83.1	82.7	80.9	80.5	80.1	79.2	77.9	76.5
22.5°	88.4	87.5	87.1	87.1	86.7	84.9	84.9	84.5	83.1	81.8	80.9
25°	92.8	92.4	90.6	90.6	90.2	88.9	89.3	88.4	87.1	85.3	84.9
27.5°	96.3	95.5	94.1	93.7	93.3	91.9	92.4	91.5	89.7	88.4	88.0
30°	98.5	98.1	96.3	96.3	95.0	94.6	94.6	93.3	91.5	90.2	90.6
32.5°	99.9	99.9	98.1	97.7	96.8	96.3	95.9	95.0	92.8	91.5	91.9
35°	102.1	101.6	100.3	99.9	98.5	98.5	97.7	96.3	93.7	93.3	93.7
37.5°	104.7	104.2	103.4	102.9	100.7	101.6	100.3	99.4	96.8	96.3	95.9
40°	110.8	110.8	109.5	109.5	106.9	109.1	107.8	108.2	105.6	105.1	103.4
42.5°	122.3	122.3	122.7	123.2	121.0	123.2	122.7	124.9	122.7	121.0	118.3
45°	144.7	143.0	145.6	144.7	143.4	145.6	144.7	147.8	146.9	144.7	142.1
47.5°	172.4	175.9	176.4	177.3	174.6	177.3	176.4	179.9	181.7	179.0	172.0
50°	210.7	214.2	218.2	218.2	216.0	216.9	216.4	221.7	223.9	224.3	214.7
52.5°	255.6	259.1	264.4	267.4	263.9	266.6	267.4	277.6	284.6	283.7	267.0
55°	308.4	313.6	320.2	322.0	315.8	317.6	318.5	331.2	345.3	343.5	322.0
57.5°	359.8	364.7	370.4	373.5	366.0	363.8	356.7	371.7	389.7	388.8	357.2
60°	402.0	405.6	411.7	414.8	407.3	402.9	388.0	403.8	424.5	425.8	388.8
62.5°	439.4	441.2	446.5	449.5	441.2	436.4	417.9	434.6	454.8	456.6	416.6
65°	472.4	469.8	483.0	483.9	472.0	464.5	446.9	464.9	484.3	485.6	440.3
67.5°	501.9	496.6	511.1	514.2	501.0	489.6	472.9	486.5	507.6	506.7	466.7
70°	528.3	521.2	542.4	544.1	526.5	511.1	501.5	509.4	533.1	533.6	489.6
72.5°	555.1	541.9	566.6	567.0	552.0	529.6	517.7	527.8	551.2	549.0	507.6
75°	576.2	552.9	588.1	586.3	572.7	545.4	534.0	541.9	569.6	568.8	519.9
77.5°	596.5	563.0	599.5	598.2	585.9	556.4	542.4	553.4	579.8	579.3	530.9
79°	594.7	561.7	601.7	599.1	588.1	559.1	541.9	551.2	580.6	578.4	528.7
80°	592.9	557.8	598.7	596.5	584.6	556.0	535.8	543.2	572.7	571.4	521.7
82.5°	580.6	548.1	588.1	585.0	574.9	549.0	529.6	536.6	571.4	567.0	515.1
85°	563.9	533.1	572.3	569.6	560.0	534.9	512.5	518.2	549.0	548.1	499.7
87.5°	542.4	514.2	553.4	550.7	541.9	519.0	496.6	503.2	534.4	534.0	483.0
90°	521.7	494.4	528.3	527.4	518.6	497.5	478.1	488.3	520.4	518.6	468.0
92.5°	490.5	465.8	496.6	497.1	488.7	471.1	453.1	461.4	486.5	486.1	439.4
95°	458.8	435.9	464.1	464.1	456.1	440.8	422.3	428.4	453.1	457.0	412.2
97.5°	417.0	396.8	421.8	422.7	416.6	403.4	387.5	395.4	419.2	423.2	382.2
100°	352.3	338.7	360.7	362.9	358.1	350.1	339.1	350.6	371.3	375.7	340.0
102.5°	257.8	253.8	273.2	272.3	270.5	268.3	265.7	271.8	285.5	292.1	255.6
105°	175.1	168.5	178.6	178.1	174.6	168.9	162.3	161.9	165.4	162.8	144.7
107.5°	117.9	115.2	119.2	119.6	117.0	112.2	106.0	105.6	108.6	106.9	97.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	89.7	88.4	90.6	91.1	89.7	85.8	82.7	82.7	85.8	84.5	78.3
112.5°	77.9	77.0	78.3	78.3	77.4	73.5	71.7	73.0	75.7	75.2	69.9
115°	70.8	70.4	70.8	71.3	69.9	66.4	65.5	66.9	69.5	69.1	64.7
117.5°	66.0	65.5	65.5	66.0	64.7	61.6	61.1	62.5	65.1	64.7	60.7
120°	61.6	61.6	61.6	61.6	60.7	58.1	57.6	59.4	61.6	61.1	57.6
122.5°	57.2	57.2	57.2	57.2	56.3	54.5	54.5	56.3	58.1	57.6	54.5
125°	52.3	52.3	51.9	52.3	51.5	50.6	50.6	52.3	53.7	53.7	51.0
127.5°	47.5	47.5	46.6	47.1	46.2	45.7	46.2	47.9	49.3	49.3	47.5
130°	42.2	41.8	40.9	41.3	40.5	40.5	41.3	43.1	44.0	44.4	42.7
132.5°	36.1	35.6	34.7	34.7	34.7	34.7	35.6	36.9	38.3	38.3	37.4
135°	29.9	29.5	28.6	28.6	28.6	28.2	29.5	30.8	31.7	31.7	30.8
137.5°	23.3	23.3	22.4	22.9	22.4	22.0	22.9	23.8	24.2	24.6	23.8
140°	18.5	18.5	18.0	17.6	17.2	16.7	17.2	17.6	18.0	18.5	18.0
142.5°	14.5	14.5	14.1	14.1	13.6	13.2	13.2	13.6	14.5	14.5	14.1
145°	11.0	11.0	11.0	10.6	10.1	10.1	10.1	10.6	11.0	11.0	11.0
147.5°	7.9	7.5	7.5	7.5	7.0	7.0	7.5	7.5	7.9	7.9	7.9
150°	4.0	4.0	4.0	4.0	4.0	4.0	4.4	4.4	4.8	4.8	4.4
152.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
155°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0
165°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.0
167.5°	0.4	0.0	0.4	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.0
170°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.0
172.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4	0.4	0.0
175°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.0
177.5°	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.0	0.4	0.4	0.0
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
2.5°	38.3	37.8	36.9	37.4	36.1	35.6	35.2	34.7	34.7	34.7	34.3
5°	48.8	47.9	45.7	44.9	44.9	44.0	44.0	43.5	43.5	43.5	43.5
7.5°	57.2	56.7	54.5	52.8	51.9	51.5	51.5	51.0	51.0	50.6	50.1
10°	61.6	60.7	59.4	58.5	57.6	56.7	55.9	56.3	55.9	55.0	55.0
12.5°	65.1	64.2	62.9	62.0	61.1	59.8	59.4	59.4	58.9	57.6	57.6
15°	68.6	67.7	66.9	65.5	64.7	63.3	62.5	62.5	62.0	60.7	60.3
17.5°	72.1	71.7	70.4	69.1	68.2	66.9	65.5	65.1	64.7	63.8	63.3
20°	76.1	75.2	73.9	72.6	71.3	70.4	69.1	67.7	67.3	66.9	66.4
22.5°	80.5	79.2	77.9	76.1	74.8	74.3	72.1	70.8	70.4	69.5	69.5
25°	84.5	82.7	81.4	80.1	78.3	77.9	75.7	73.9	73.0	72.6	72.6
27.5°	87.5	85.8	84.5	83.1	81.4	80.9	78.3	76.5	75.2	75.2	75.7
30°	89.7	88.4	87.1	85.3	84.5	84.0	80.9	78.7	77.4	77.9	77.9
32.5°	91.5	90.2	88.9	87.1	86.2	85.8	83.1	80.5	79.2	79.6	79.6
35°	92.8	91.9	90.6	88.9	88.4	87.5	84.9	82.3	81.4	82.3	81.8
37.5°	95.5	94.1	92.8	90.6	91.5	90.2	88.0	85.3	85.3	86.7	86.2
40°	102.1	100.3	98.5	95.9	96.3	95.9	94.6	92.4	92.4	94.1	93.7
42.5°	115.7	113.0	110.0	106.4	106.4	105.6	103.8	102.9	103.4	104.7	104.7
45°	136.4	131.5	129.3	124.9	124.0	123.2	121.4	119.6	122.3	121.8	122.7
47.5°	165.8	159.2	156.6	150.9	150.0	149.6	146.9	145.2	146.0	146.9	149.1
50°	205.9	196.2	193.1	187.4	186.1	184.3	179.0	176.8	178.6	179.9	181.7
52.5°	258.2	241.5	240.6	235.3	227.9	230.9	223.9	220.4	221.7	221.3	223.5
55°	310.1	290.8	293.0	285.9	275.8	279.3	265.7	265.2	263.0	261.3	262.2
57.5°	346.2	327.3	336.1	327.3	314.5	318.0	300.0	297.8	296.9	291.6	289.9
60°	373.9	354.5	367.7	355.4	341.3	350.6	325.1	326.8	322.4	316.7	312.7
62.5°	398.5	378.7	394.6	380.5	365.1	374.8	346.2	351.9	343.1	338.3	331.2
65°	421.8	403.4	419.6	406.9	386.2	399.8	367.3	377.9	368.6	359.8	353.2
67.5°	444.3	426.2	445.2	432.4	410.0	423.2	383.6	399.4	389.7	380.0	372.1
70°	463.2	444.3	466.3	454.4	430.2	439.0	391.9	420.1	406.4	397.6	386.6
72.5°	480.8	458.8	486.1	475.1	449.5	457.0	404.2	436.4	414.8	406.4	398.5
75°	492.2	468.0	502.3	489.6	468.9	472.9	419.2	449.1	430.2	416.6	410.4
77.5°	502.8	476.4	512.5	497.5	478.6	480.8	428.9	457.9	436.8	421.4	413.5
79°	500.6	475.9	514.2	501.0	483.0	483.9	431.1	457.9	437.2	420.1	414.4
80°	495.3	472.0	509.8	494.9	476.8	478.1	428.9	454.4	438.6	415.2	410.0
82.5°	489.6	465.4	503.2	489.6	471.5	470.2	425.8	449.1	429.8	410.8	405.1
85°	474.6	453.5	489.1	475.5	460.5	458.3	416.1	437.7	421.0	397.2	392.4
87.5°	460.5	439.9	475.9	462.7	448.2	446.5	408.2	429.8	410.8	385.3	382.7
90°	445.2	424.0	457.9	444.7	428.4	425.4	390.6	412.2	396.8	372.1	369.5
92.5°	417.4	398.5	430.6	419.2	405.6	403.4	369.9	389.7	375.2	353.2	350.6
95°	392.4	374.3	402.9	393.2	380.5	380.0	347.1	368.2	354.1	334.3	333.0
97.5°	365.1	347.5	372.1	363.3	350.6	349.3	318.5	337.4	325.1	307.0	305.7
100°	322.0	307.0	323.3	316.7	301.8	305.7	278.4	298.7	289.0	273.2	270.1
102.5°	241.5	229.6	234.9	229.6	216.4	222.1	208.1	229.6	225.7	216.9	214.2
105°	136.8	133.3	136.8	135.0	130.2	128.9	121.8	136.4	133.3	130.2	128.4
107.5°	92.4	89.7	92.8	91.5	85.8	85.3	80.1	86.7	83.6	80.9	79.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	75.2	73.0	75.2	74.8	70.8	69.5	65.5	69.9	67.7	65.5	64.7
112.5°	67.3	65.5	67.3	66.9	62.9	62.5	59.4	62.9	61.1	59.4	58.9
115°	62.5	60.7	62.0	61.6	58.1	57.6	55.0	58.1	56.7	55.0	54.5
117.5°	58.9	57.2	58.1	57.2	54.5	53.7	51.5	54.1	53.2	51.0	50.6
120°	55.9	54.1	55.0	53.7	51.0	50.1	48.4	50.1	49.3	47.9	47.5
122.5°	53.2	51.5	51.9	50.1	47.5	46.2	44.9	45.7	45.3	44.0	43.5
125°	49.7	47.9	47.9	46.2	43.1	42.2	40.9	41.3	40.9	40.5	40.0
127.5°	45.7	44.4	43.5	41.8	39.1	37.4	36.5	36.9	36.9	36.5	36.1
130°	41.3	40.0	38.3	36.5	34.3	33.0	31.7	32.6	32.6	32.6	32.6
132.5°	36.1	34.7	33.0	31.2	29.0	28.2	26.8	27.7	28.2	28.6	28.2
135°	29.9	29.0	27.3	25.5	23.8	22.4	22.0	22.9	23.8	23.8	23.3
137.5°	23.3	22.4	21.6	20.2	18.5	17.6	17.2	18.0	18.9	18.9	18.5
140°	17.6	17.6	16.7	15.4	13.6	13.2	13.2	13.6	14.1	14.1	13.6
142.5°	13.6	13.6	12.8	11.9	10.6	10.1	10.1	10.6	11.0	11.0	10.6
145°	10.6	10.6	9.7	8.8	7.9	7.5	7.5	7.9	8.4	8.4	7.9
147.5°	7.9	7.5	6.6	6.2	5.3	5.3	5.3	5.3	5.7	5.7	5.7
150°	4.4	4.4	4.0	3.1	2.6	2.6	2.6	3.1	3.5	3.5	3.1
152.5°	0.9	0.9	0.9	0.9	0.4	0.0	0.4	0.4	0.4	0.4	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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	0.4	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0
167.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.4	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0
172.5°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0
177.5°	0.0	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.0	0.0
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

(END OF REPORT)