

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: P314630

Luminaire Tested: **MPB-A2-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A2-D-U-ASYM-7027
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1788 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (A_{in}): 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

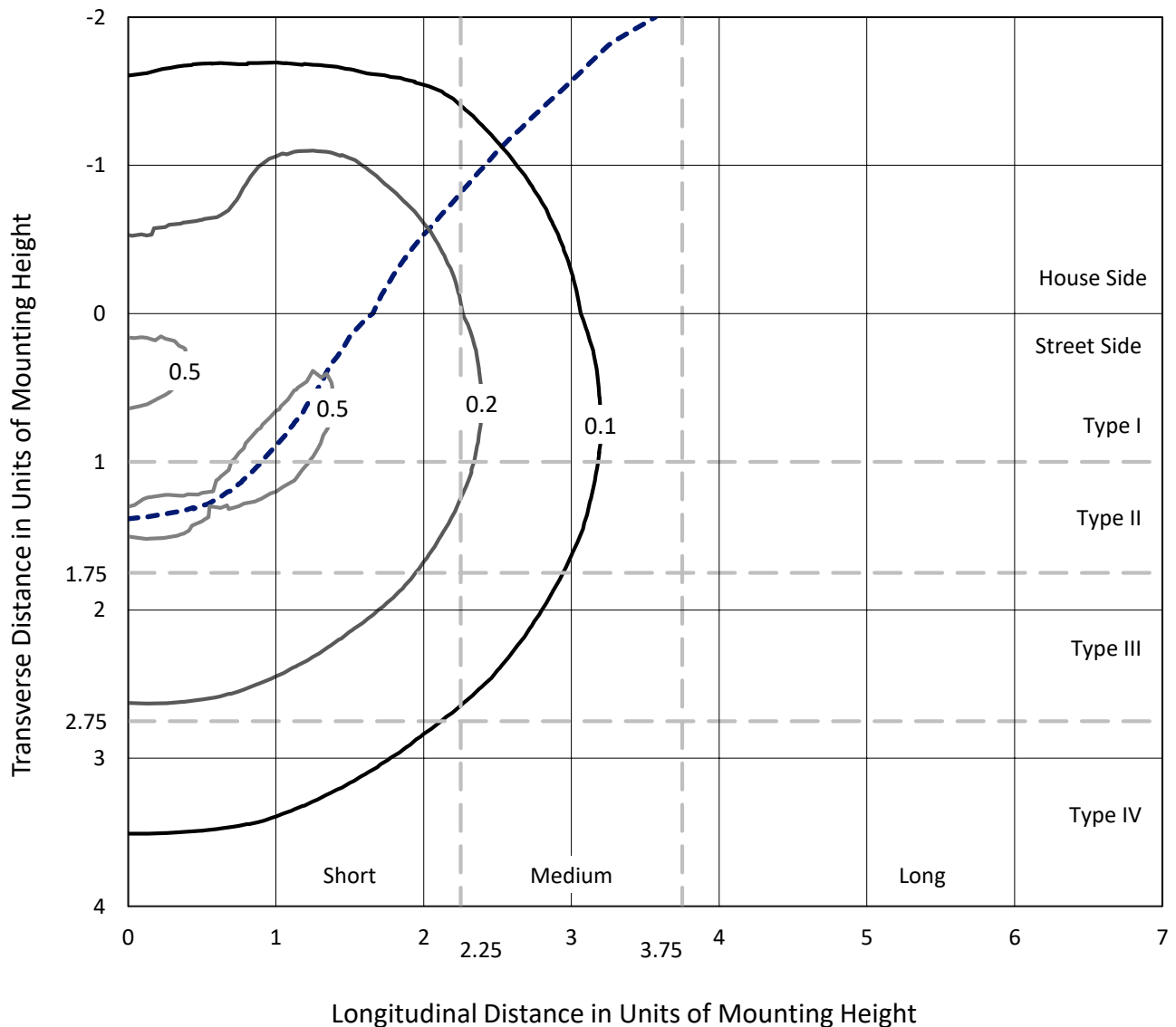


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

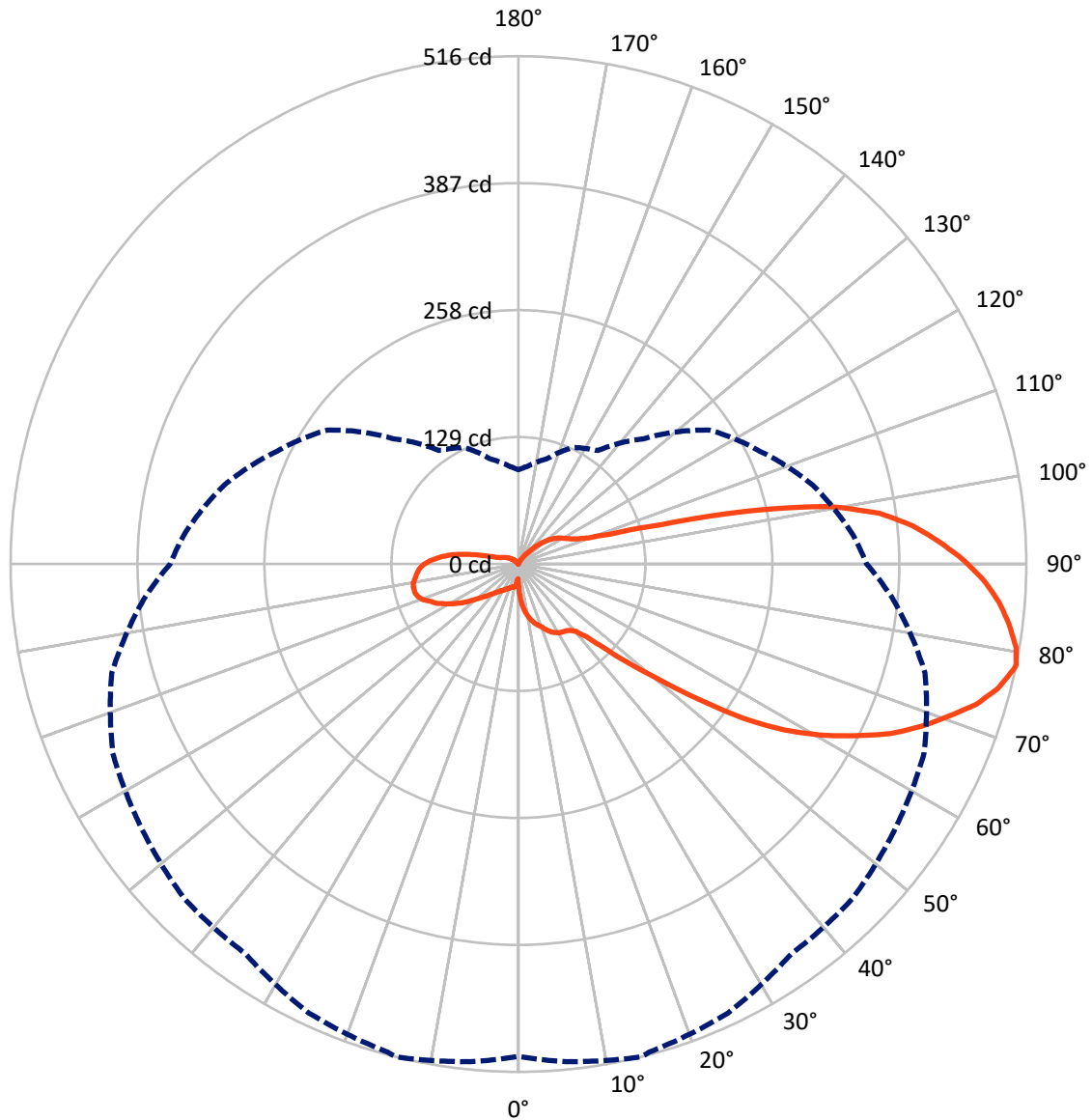


Based on 10 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 14-Deg Lateral - - - Horizontal Cone Through 78-Deg Vertical

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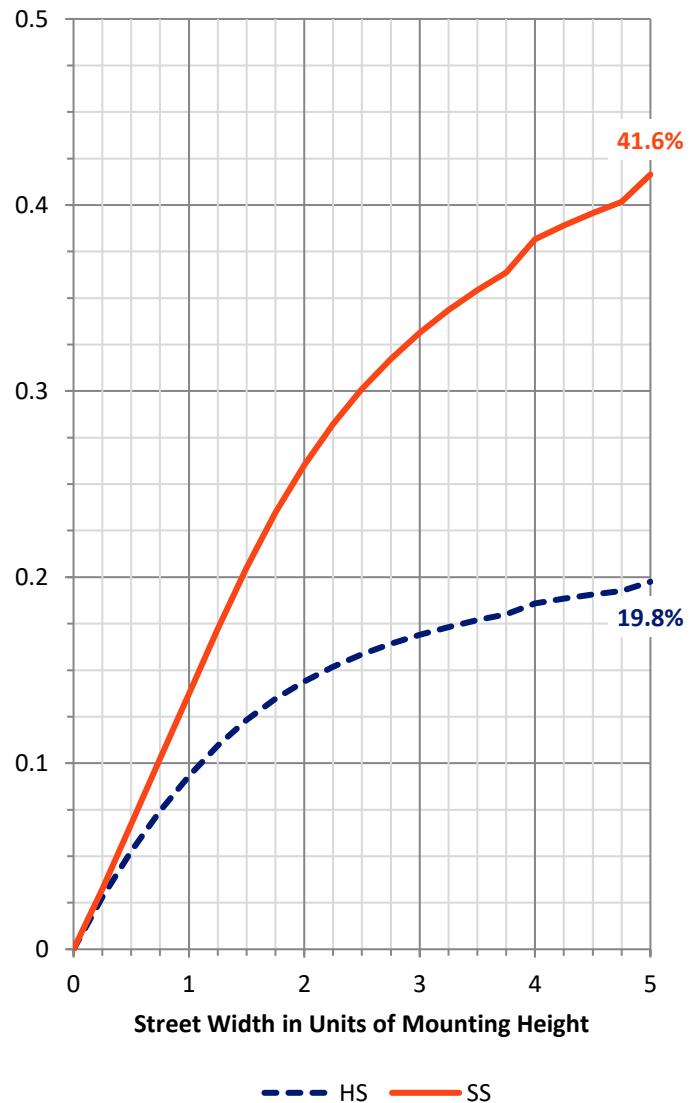
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	401.2	147.2	548.4
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	893.8	345.8	1239.6
	% Fixture	50.0	19.3	69.3
Total	Lumens	1295.0	493.0	1788.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.2
10°-20°	12.7	0.7
20°-30°	25.0	1.4
30°-40°	38.2	2.1
40°-50°	72.4	4.0
50°-60°	174.5	9.8
60°-70°	276.7	15.5
70°-80°	346.0	19.4
80°-90°	346.4	19.4
90°-100°	284.1	15.9
100°-110°	121.1	6.8
110°-120°	41.8	2.3
120°-130°	27.9	1.6
130°-140°	13.9	0.8
140°-150°	4.0	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1295.0	72.4
0°-180°	1788.0	100.0



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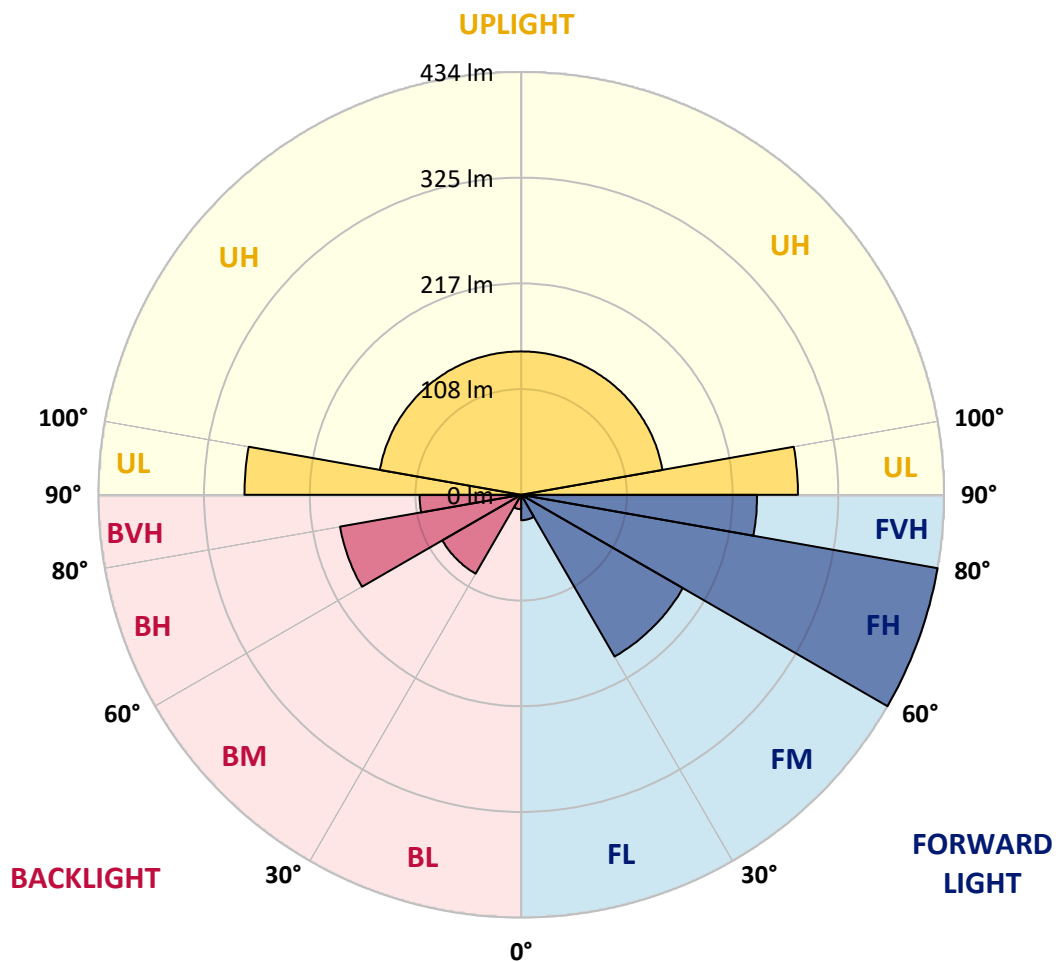
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	26.1	1.5			
FM (30°-60°)	191.7	10.7			
FH (60°-80°)	434.0	24.3			G0/660
FVH (80°-90°)	242.1	13.5			G3/500
BL (0°-30°)	14.8	0.8	B0/110		
BM (30°-60°)	93.4	5.2	B0/220		
BH (60°-80°)	188.7	10.6	B1/500		G1/500
BVH (80°-90°)	104.2	5.8			G2/225
UL (90°-100°)	284.1	15.9		U3/500	
UH (100°-180°)	147.2	8.2		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
2.5°	34.8	34.5	34.2	33.9	33.6	31.9	31.3	30.2	28.7	27.0	25.6
5°	43.1	42.8	42.2	42.2	41.4	40.2	39.1	37.7	35.4	33.1	31.0
7.5°	49.7	49.1	48.9	48.6	48.0	46.6	45.1	43.4	41.4	39.1	36.8
10°	54.6	54.6	54.3	54.3	53.5	52.0	50.0	48.3	46.0	43.1	40.5
12.5°	59.2	58.9	58.6	58.6	57.8	56.0	54.0	52.0	49.7	46.8	44.3
15°	62.4	62.4	62.4	62.1	60.9	59.5	57.5	55.8	53.2	50.0	47.4
17.5°	65.5	65.5	65.2	65.2	63.8	62.4	60.4	58.6	56.0	52.9	50.0
20°	69.0	69.0	68.4	68.1	67.0	65.8	63.5	61.5	58.9	56.0	52.9
22.5°	73.3	73.0	72.4	72.4	71.0	69.0	67.0	65.0	62.4	59.2	56.0
25°	76.7	76.7	76.2	75.9	74.7	73.0	70.7	67.8	65.2	62.1	59.2
27.5°	79.9	79.6	78.8	78.5	77.3	75.6	73.3	70.7	67.5	64.4	61.2
30°	82.5	81.9	81.0	81.0	79.6	77.6	75.3	72.7	69.0	66.1	62.9
32.5°	83.6	83.3	82.2	81.9	80.5	78.5	76.2	73.3	70.1	67.0	64.1
35°	84.8	84.5	83.3	83.1	81.3	79.0	76.5	73.9	70.4	67.8	64.7
37.5°	86.8	86.8	85.4	85.1	83.3	81.6	79.0	76.5	73.6	70.1	66.7
40°	91.1	90.8	90.0	89.4	87.9	87.4	85.1	82.5	79.6	77.0	71.9
42.5°	100.6	100.9	100.9	100.3	98.9	99.7	98.3	96.3	92.8	89.4	82.8
45°	117.8	121.0	120.1	119.6	117.8	120.7	119.8	119.0	114.1	108.9	99.7
47.5°	144.3	148.6	149.5	147.2	145.4	147.7	151.2	149.5	142.8	136.5	125.0
50°	178.8	183.4	182.2	181.6	178.2	184.8	189.4	188.5	180.8	173.0	155.2
52.5°	221.9	224.2	226.5	223.9	220.7	229.4	239.4	238.3	230.5	218.7	196.3
55°	271.0	273.3	275.6	272.5	267.9	277.9	291.1	288.6	280.5	261.3	235.4
57.5°	314.1	318.5	317.6	316.4	307.0	317.0	327.6	325.1	315.3	293.4	263.8
60°	346.6	349.2	352.7	351.5	346.3	348.3	359.3	352.9	341.2	317.0	285.1
62.5°	375.9	379.4	384.0	382.8	378.8	375.6	384.3	375.9	363.9	340.0	304.7
65°	405.0	409.0	415.3	413.6	408.4	401.2	409.6	400.9	387.4	361.6	322.5
67.5°	428.5	432.8	440.3	439.4	436.0	427.7	430.0	419.3	405.2	378.2	337.1
70°	452.7	457.6	463.0	464.2	454.7	447.2	449.2	437.4	425.1	398.3	354.1
72.5°	473.7	476.0	486.3	488.6	476.0	463.0	465.3	451.8	438.3	408.7	365.9
75°	492.3	494.9	503.0	503.3	488.9	476.8	477.4	466.2	454.1	424.5	376.8
77.5°	500.4	505.3	513.9	511.3	501.5	483.1	485.1	473.9	459.6	427.1	378.2
78°	499.8	507.0	515.6	513.0	503.0	483.1	480.0	467.3	454.4	427.4	380.2
80°	497.8	506.7	512.2	509.6	500.7	478.0	473.9	463.3	451.2	423.9	374.5
82.5°	486.3	496.1	501.8	499.8	493.2	469.3	467.3	463.0	452.1	422.5	370.5
85°	476.2	486.0	489.2	487.7	480.5	458.1	457.0	449.2	434.6	407.0	357.8
87.5°	462.7	471.1	472.5	472.8	464.5	441.7	440.0	433.7	423.1	397.8	349.2
90°	441.7	448.9	452.1	452.1	445.2	424.2	424.5	422.5	412.7	385.7	337.1
92.5°	417.9	424.8	428.0	427.7	421.6	403.2	403.2	399.5	386.9	363.3	317.9
95°	392.6	397.8	402.4	402.1	394.0	376.8	376.2	375.9	363.9	340.9	299.2
97.5°	361.0	363.9	370.2	369.3	361.8	348.9	349.5	350.6	339.7	318.2	277.9
100°	312.4	312.1	320.2	318.5	313.9	305.5	309.3	311.0	301.8	283.1	249.2
102.5°	232.5	232.2	239.1	237.4	237.7	234.5	240.6	243.4	237.7	223.3	195.7
105°	145.7	144.6	148.6	147.4	146.0	142.0	142.8	141.7	138.5	129.9	114.1
107.5°	96.6	95.7	97.7	98.3	95.7	92.8	92.0	90.8	87.4	82.2	73.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	74.7	74.7	75.9	75.3	74.2	72.7	71.6	71.0	68.4	65.0	58.3
112.5°	64.1	64.1	65.2	65.0	64.1	62.7	62.4	61.8	60.1	57.2	52.0
115°	58.3	58.3	59.2	59.2	58.3	56.9	56.6	56.3	55.2	52.6	48.0
117.5°	54.6	54.3	55.2	55.2	54.0	53.2	53.2	52.9	52.0	49.4	45.4
120°	51.2	51.2	51.7	51.7	50.9	50.3	50.6	50.3	49.4	46.8	42.8
122.5°	48.0	48.0	48.6	48.3	47.7	47.7	47.7	47.7	46.8	44.5	40.5
125°	44.0	44.0	44.5	44.5	44.0	44.3	44.5	44.5	44.0	41.7	37.9
127.5°	39.7	39.7	40.2	40.2	39.9	40.5	41.4	41.1	40.5	38.5	35.1
130°	34.8	34.8	35.4	35.6	35.6	36.5	37.1	37.1	36.5	34.8	31.3
132.5°	29.6	29.3	29.9	30.2	30.8	31.6	31.9	31.9	31.6	29.9	27.0
135°	23.9	23.9	24.7	25.0	25.6	26.2	26.4	26.7	26.4	25.0	22.4
137.5°	18.4	18.4	19.3	19.5	20.1	20.4	20.4	21.0	20.4	19.5	17.5
140°	14.4	14.4	14.9	15.2	15.8	15.8	15.5	15.5	15.2	14.7	12.9
142.5°	11.5	11.2	12.1	12.1	12.4	12.6	12.4	12.4	12.1	11.5	10.3
145°	8.6	8.6	8.9	9.2	9.2	9.5	9.5	9.5	9.2	8.9	7.8
147.5°	5.7	5.7	6.3	6.3	6.6	6.9	6.9	6.9	6.6	6.3	5.5
150°	2.9	2.9	3.2	3.4	3.7	3.7	4.0	4.3	4.0	3.7	3.2
152.5°	0.0	0.0	0.3	0.3	0.6	0.9	1.1	1.1	1.1	1.1	1.1
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.3	0.3
160°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.3	0.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
2.5°	24.7	23.6	22.1	20.7	19.3	17.8	16.7	15.5	14.9	14.4	14.4
5°	29.9	28.7	26.7	24.7	22.7	21.3	20.1	19.3	18.7	18.7	19.0
7.5°	35.6	34.5	31.6	28.7	26.7	25.0	23.6	22.7	21.8	21.3	21.3
10°	39.4	37.7	35.1	32.5	30.2	27.9	26.2	24.7	23.3	22.4	22.1
12.5°	42.5	41.1	37.9	35.1	32.5	29.6	27.6	25.6	23.9	22.7	22.4
15°	45.4	43.7	40.5	37.4	34.2	31.0	28.5	26.2	24.4	23.0	23.0
17.5°	48.3	46.6	43.1	39.7	35.9	32.5	29.3	27.0	25.0	23.9	23.6
20°	51.2	49.1	45.7	42.0	37.7	33.9	30.5	27.9	25.9	25.0	24.7
22.5°	54.0	52.0	48.3	44.3	39.7	35.4	31.6	28.7	26.7	26.2	26.2
25°	56.9	54.6	50.6	46.3	41.4	37.1	33.1	29.9	27.9	27.3	27.6
27.5°	58.9	56.9	52.6	48.0	43.1	38.5	34.2	31.0	29.0	28.7	28.7
30°	60.9	58.6	54.0	49.4	44.5	39.9	35.6	32.2	30.5	30.2	30.5
32.5°	62.1	59.8	54.9	50.6	45.7	40.8	36.8	33.3	31.6	31.9	31.9
35°	62.7	60.4	56.0	51.4	46.6	42.0	37.9	34.8	33.6	33.6	33.6
37.5°	64.4	62.1	57.5	52.9	48.3	43.7	39.7	36.5	35.6	35.9	35.6
40°	68.7	66.4	61.2	56.0	51.2	46.3	42.0	38.8	38.2	38.5	38.2
42.5°	79.0	76.5	69.0	62.1	56.0	50.3	45.1	42.0	41.4	41.4	41.7
45°	94.3	90.8	82.5	72.1	64.4	56.6	50.0	46.0	45.1	44.8	44.5
47.5°	116.7	111.5	101.2	87.9	76.2	66.1	56.3	50.9	49.1	48.6	48.0
50°	146.0	140.3	125.0	107.8	94.6	78.5	65.0	57.2	54.0	52.3	51.7
52.5°	182.2	176.5	156.1	134.8	115.8	94.6	76.7	65.0	60.4	56.9	56.0
55°	218.7	212.7	190.0	160.9	140.0	111.2	89.7	74.2	67.5	62.1	61.5
57.5°	244.9	237.1	212.7	183.1	160.1	126.2	99.4	82.2	73.9	67.5	66.1
60°	262.7	254.6	230.8	198.3	175.6	137.7	107.5	89.1	80.5	73.6	72.4
62.5°	280.2	272.2	245.2	211.8	188.0	144.9	114.4	95.1	86.5	79.3	79.3
65°	296.6	288.0	258.7	225.6	200.0	151.8	120.7	101.2	93.1	86.2	87.7
67.5°	310.1	301.5	271.0	239.1	209.8	159.2	125.3	109.5	97.4	92.3	92.0
70°	325.9	315.9	284.0	250.6	221.9	168.7	129.9	116.1	103.8	98.3	93.7
72.5°	336.6	323.9	294.9	259.5	227.3	174.2	134.8	124.2	108.1	98.9	95.7
75°	348.1	336.6	305.2	267.0	237.1	179.1	137.7	127.6	110.1	99.2	95.4
77.5°	350.1	338.0	307.5	268.4	236.3	181.6	141.4	129.3	110.1	99.4	96.0
78°	353.5	340.9	309.3	270.7	237.1	179.9	140.5	130.5	110.4	99.4	95.7
80°	348.3	337.1	306.1	267.0	234.2	178.2	140.3	130.8	109.8	98.3	94.3
82.5°	342.6	332.5	300.1	262.7	230.5	175.6	138.2	126.2	107.2	94.8	91.1
85°	330.8	323.3	293.7	256.1	223.3	169.6	136.2	125.0	104.9	91.7	88.2
87.5°	321.9	315.0	285.1	251.8	219.3	164.7	132.2	121.9	102.3	88.8	85.4
90°	309.3	301.2	271.3	238.0	207.5	157.8	127.6	115.5	98.0	85.4	81.9
92.5°	292.3	285.7	257.2	224.8	196.3	147.7	119.6	108.9	91.1	80.5	76.7
95°	274.8	268.7	241.4	212.4	185.4	138.8	111.5	101.2	82.5	74.2	70.1
97.5°	254.6	249.2	223.3	194.9	169.0	127.3	100.6	91.1	72.7	65.0	62.4
100°	225.9	220.7	195.7	169.9	146.3	109.8	83.9	75.9	60.4	53.7	51.4
102.5°	174.2	169.9	148.3	127.6	107.5	79.9	59.5	54.6	45.7	39.9	38.2
105°	102.3	99.7	88.2	76.2	63.8	49.1	37.4	36.5	31.3	28.7	27.3
107.5°	66.4	64.4	57.8	50.9	43.4	34.5	27.6	26.2	23.3	22.1	21.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	54.3	52.6	47.4	41.7	35.9	28.5	23.6	21.8	19.5	18.7	18.4
112.5°	48.3	46.8	42.2	37.1	32.2	25.6	21.3	19.5	17.5	16.7	16.4
115°	44.8	43.1	38.8	34.2	29.9	23.9	19.8	18.1	16.1	14.9	14.9
117.5°	42.0	40.2	36.5	32.2	27.9	22.1	18.4	16.4	14.7	13.5	13.2
120°	39.9	38.2	34.5	30.2	26.2	20.7	17.2	14.9	12.9	11.8	11.5
122.5°	37.7	35.9	32.2	28.2	23.9	19.0	15.5	13.2	11.5	10.3	10.1
125°	35.4	33.6	29.9	25.9	21.6	17.0	13.8	11.5	9.8	8.9	8.6
127.5°	32.8	31.0	27.3	23.3	19.3	14.9	12.1	10.1	8.3	7.5	7.2
130°	29.3	27.6	24.1	20.4	16.7	12.9	10.3	8.3	7.2	6.3	6.0
132.5°	25.3	23.6	20.4	17.2	14.1	10.9	8.3	6.9	5.7	5.2	4.9
135°	21.0	19.5	17.0	14.1	11.5	8.9	6.9	5.7	4.6	4.0	4.0
137.5°	16.4	15.2	12.9	10.9	8.9	6.9	5.2	4.3	3.7	3.2	3.2
140°	12.4	11.5	9.8	8.3	6.6	5.2	4.0	3.4	2.9	2.3	2.3
142.5°	9.5	8.9	7.5	6.3	5.2	3.7	2.9	2.3	2.0	1.7	1.7
145°	7.2	6.6	5.5	4.6	3.7	2.6	2.0	1.4	1.1	1.1	0.9
147.5°	4.9	4.6	3.7	2.9	2.3	1.4	1.1	0.9	0.6	0.6	0.3
150°	2.6	2.3	1.7	1.4	0.9	0.6	0.6	0.3	0.0	0.0	0.0
152.5°	0.9	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

(END OF REPORT)