

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: P314613

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A3-D-U-SYM-7027
Description: BRECKENRIDGE 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: 2861 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

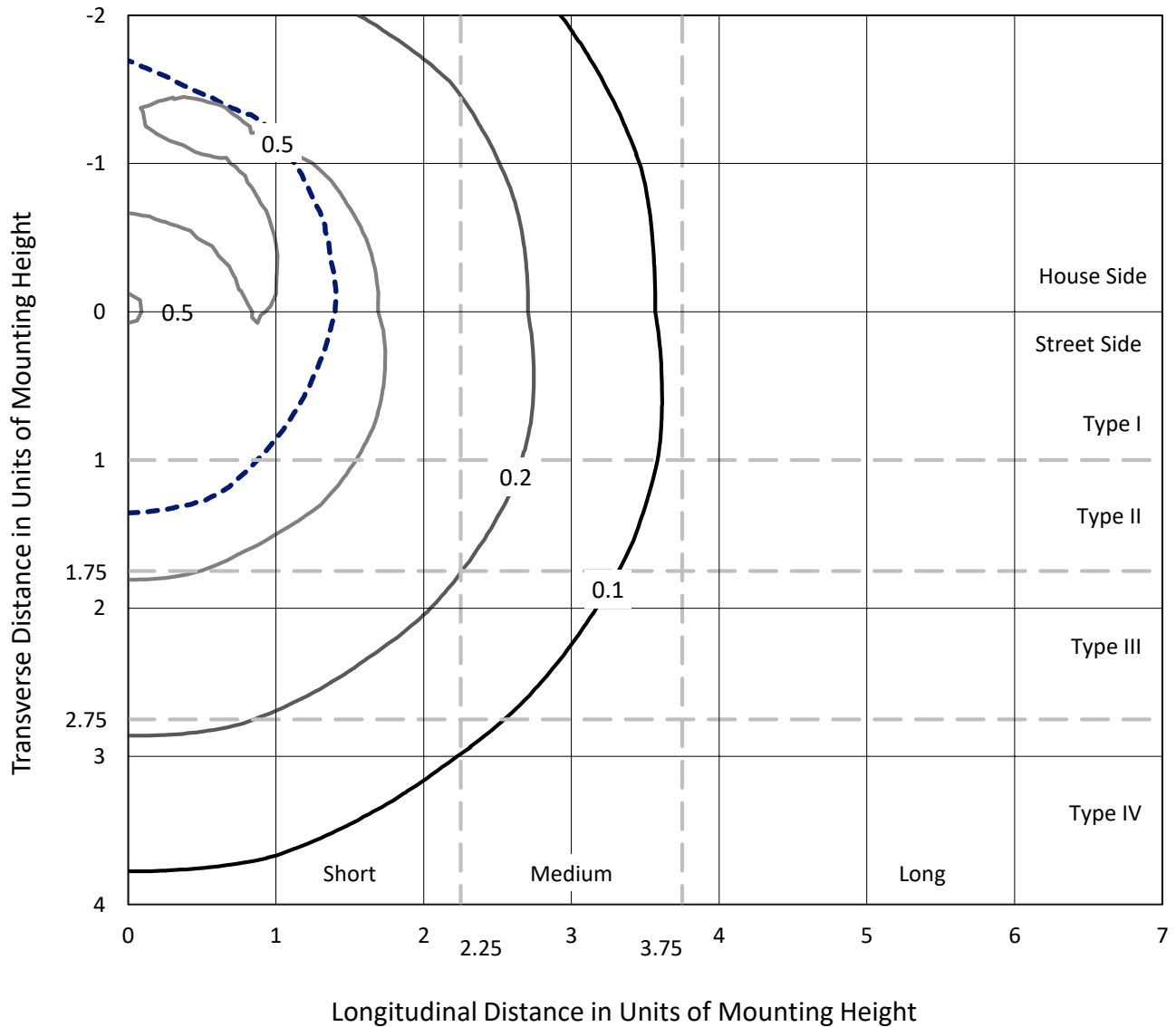
Input Watts (W): 28.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

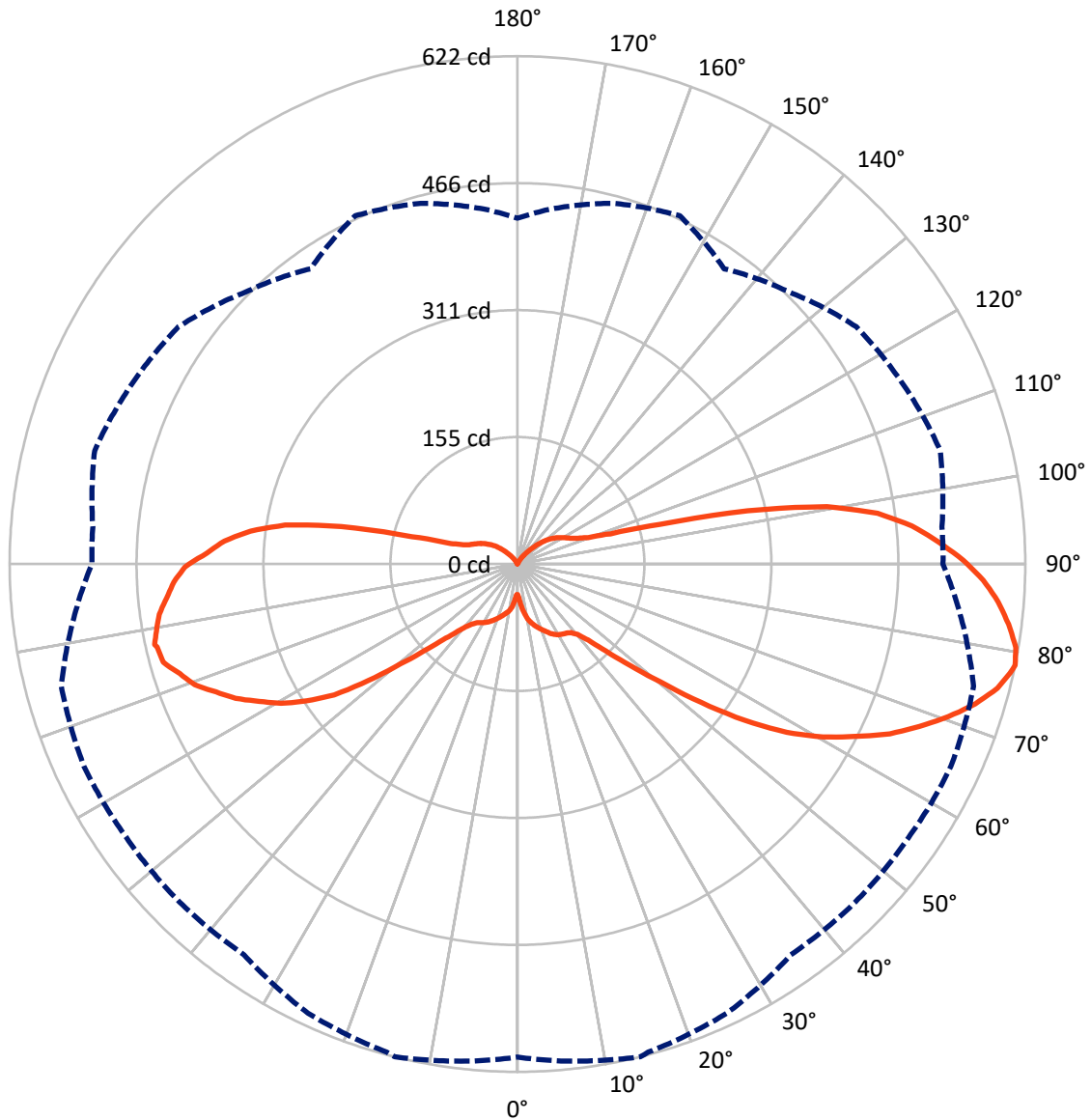


Based on 10 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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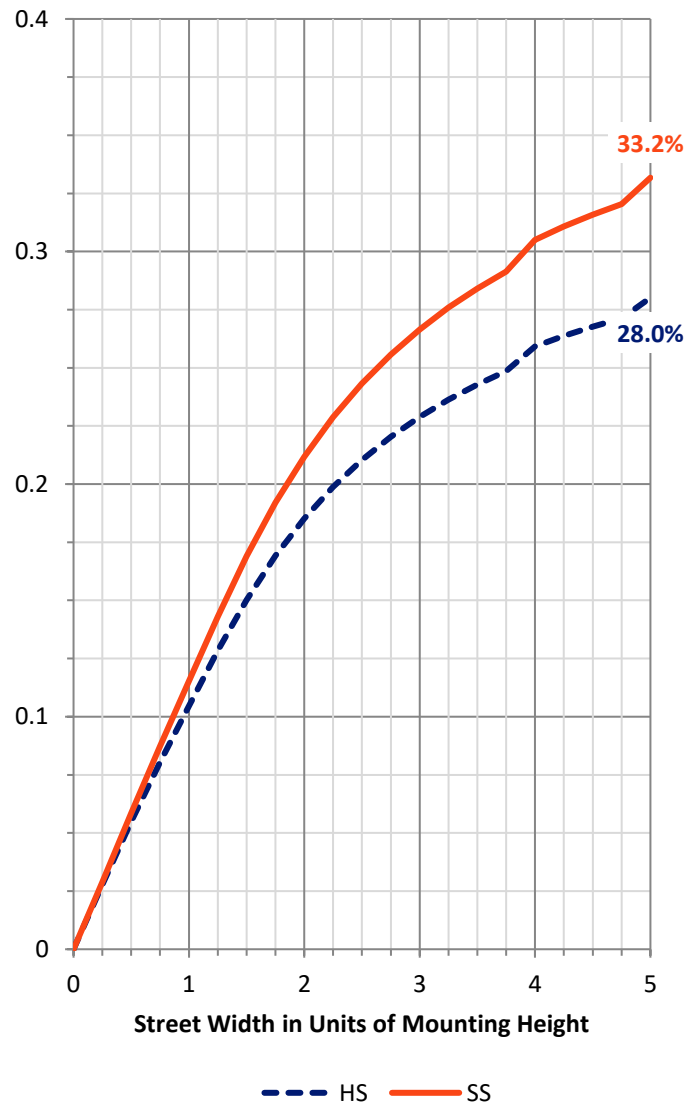
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	940.4	354.7	1295.1
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	1131.9	434.0	1565.9
	% Fixture	39.6	15.2	54.7
Total	Lumens	2072.4	788.6	2861.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.2
10°-20°	20.4	0.7
20°-30°	40.0	1.4
30°-40°	61.2	2.1
40°-50°	116.0	4.1
50°-60°	279.8	9.8
60°-70°	442.9	15.5
70°-80°	553.1	19.3
80°-90°	553.7	19.4
90°-100°	455.0	15.9
100°-110°	192.7	6.7
110°-120°	67.1	2.3
120°-130°	44.7	1.6
130°-140°	22.3	0.8
140°-150°	6.6	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2072.4	72.4
0°-180°	2861.0	100.0



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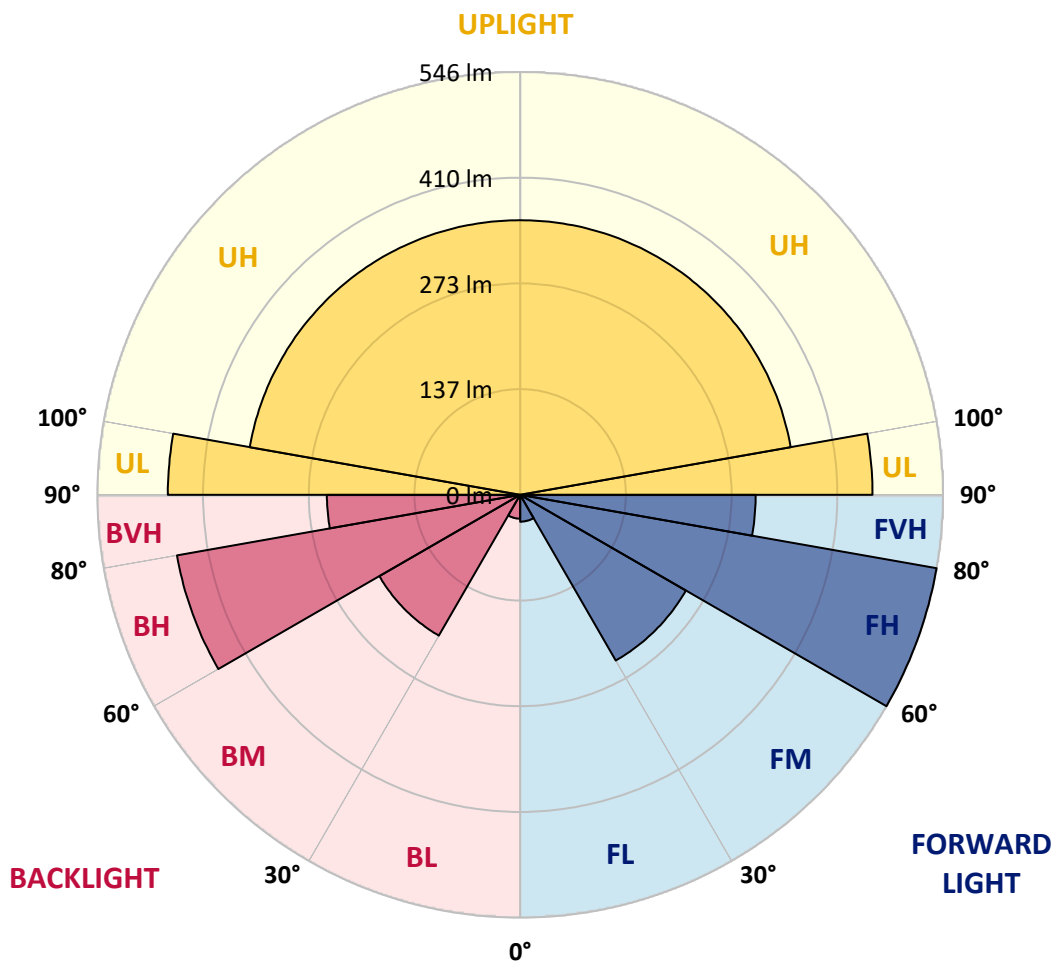
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	34.7	1.2			
FM	(30°-60°)	247.1	8.6			
FH	(60°-80°)	546.0	19.1			G0/660
FVH	(80°-90°)	304.1	10.6			G3/500
BL	(0°-30°)	30.8	1.1	B0/110		
BM	(30°-60°)	210.0	7.3	B0/220		
BH	(60°-80°)	450.0	15.7	B1/500		G1/500
BVH	(80°-90°)	249.6	8.7			G3/500
UL	(90°-100°)	455.0	15.9		U3/500	
UH	(100°-180°)	354.7	12.4		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°	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
2.5°	42.2	42.7	42.7	43.1	42.2	42.2	41.8	41.3	40.9	40.5	40.0
5°	52.8	52.8	52.8	52.8	51.9	52.3	51.9	51.0	50.1	50.1	49.3
7.5°	61.1	61.1	61.1	61.1	60.7	60.7	60.3	59.8	58.9	58.5	58.1
10°	67.3	67.7	68.2	68.2	67.7	67.3	66.4	66.0	65.5	64.7	63.3
12.5°	73.0	73.5	73.5	73.5	73.0	72.6	71.7	70.8	70.4	69.5	68.6
15°	77.9	77.9	77.9	77.4	77.0	76.5	75.7	75.2	74.3	73.5	72.6
17.5°	81.4	81.8	81.8	81.4	80.5	80.5	79.2	79.2	78.3	77.4	76.5
20°	85.8	85.8	85.8	85.3	84.9	84.5	83.1	82.7	82.3	81.4	80.5
22.5°	90.2	90.2	89.7	89.7	88.9	88.4	87.5	87.1	86.2	85.3	84.9
25°	95.0	95.0	94.1	94.1	93.3	92.4	91.5	91.1	90.2	89.7	89.3
27.5°	98.5	98.5	97.7	97.2	96.8	95.5	95.0	94.1	93.3	92.8	92.4
30°	101.6	101.2	100.3	100.3	99.4	98.1	97.2	96.3	95.5	95.5	95.5
32.5°	103.4	102.9	102.1	101.6	100.3	99.4	98.5	97.7	96.8	97.2	97.2
35°	105.1	105.1	103.8	103.4	102.1	100.7	99.4	98.5	98.1	98.5	99.0
37.5°	108.2	107.8	106.5	106.0	104.3	103.8	102.9	102.5	102.1	102.5	102.5
40°	114.8	114.8	113.5	113.0	111.7	112.2	111.7	112.2	111.3	112.2	110.9
42.5°	127.6	128.4	127.1	126.2	125.4	127.1	128.9	128.4	127.6	128.0	124.9
45°	150.0	151.8	152.2	150.9	148.2	153.1	155.7	156.2	154.0	152.6	147.8
47.5°	183.9	186.5	185.2	185.2	180.8	187.8	191.3	193.5	190.0	187.8	179.9
50°	226.5	230.9	226.5	228.3	220.4	232.7	238.4	239.7	236.7	231.8	221.7
52.5°	279.3	282.8	281.5	280.2	271.8	288.1	298.2	303.5	298.2	291.2	275.8
55°	339.1	338.7	337.8	339.1	331.2	344.4	359.8	362.9	361.1	346.6	329.0
57.5°	388.4	388.9	388.9	388.9	379.2	390.6	404.7	406.9	404.3	391.5	368.2
60°	426.7	428.0	429.8	430.6	421.4	426.7	441.6	441.2	438.6	422.7	402.9
62.5°	459.2	461.4	465.0	465.0	459.2	457.9	471.6	469.8	468.5	453.5	430.6
65°	491.8	494.0	501.0	500.6	494.0	487.8	502.8	501.5	498.4	483.4	456.2
67.5°	519.5	522.6	530.5	531.4	526.5	519.1	528.3	524.8	523.0	507.2	477.3
70°	549.0	553.4	559.5	559.5	548.1	542.4	550.7	548.5	550.7	534.9	500.6
72.5°	571.4	573.2	585.9	587.2	574.0	561.3	571.0	565.7	567.4	550.3	516.4
75°	594.7	596.9	607.0	607.0	589.0	577.6	584.6	582.4	585.5	571.4	531.8
77.5°	603.5	609.2	619.8	617.6	604.8	585.0	592.5	591.6	593.4	575.8	537.1
78°	603.5	610.6	621.6	618.5	606.6	583.7	585.0	584.2	585.5	578.0	539.7
80°	601.8	611.9	618.5	614.5	604.4	578.9	578.0	578.4	581.1	573.2	532.7
82.5°	588.1	598.7	605.7	604.0	595.2	567.4	571.8	576.7	582.4	568.3	527.4
85°	575.8	586.8	590.3	589.0	578.9	550.3	553.8	560.4	557.8	547.7	511.1
87.5°	559.5	569.2	570.5	569.6	560.8	533.6	536.2	540.6	543.3	537.5	497.5
90°	533.6	542.4	545.5	545.5	536.2	512.9	519.1	525.2	530.1	519.1	479.5
92.5°	505.0	512.9	516.0	516.0	508.1	485.2	489.1	497.1	497.9	489.1	452.6
95°	474.6	479.5	485.2	484.3	474.6	452.2	456.2	465.8	467.2	459.2	426.7
97.5°	436.4	438.1	445.2	443.8	434.2	417.9	423.6	432.4	433.3	425.4	393.7
100°	379.6	379.2	385.3	385.3	376.1	366.0	373.9	384.9	383.6	375.7	348.8
102.5°	285.5	280.2	289.0	288.1	285.5	281.5	289.4	300.0	302.6	296.9	269.6
105°	181.2	178.2	180.8	179.0	177.7	170.2	173.3	176.8	174.2	176.4	161.4
107.5°	119.6	117.9	119.6	119.2	116.6	113.0	112.6	113.5	113.0	111.3	102.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	91.9	91.1	92.4	91.9	90.6	88.9	88.4	89.3	89.3	88.0	83.1
112.5°	79.6	79.2	80.5	80.1	79.2	77.9	77.9	78.3	78.7	77.4	73.9
115°	71.7	72.1	73.0	73.0	72.1	70.4	70.8	71.7	71.7	70.8	68.2
117.5°	66.9	67.3	68.2	67.7	66.9	66.0	66.0	66.9	67.7	66.4	64.2
120°	62.9	62.9	63.8	63.3	62.5	62.0	62.5	63.3	63.8	62.5	60.3
122.5°	58.5	58.9	59.4	59.4	58.5	58.5	59.4	59.8	60.3	58.9	56.3
125°	53.7	54.1	54.5	54.5	54.1	54.5	55.0	55.4	56.3	55.0	52.3
127.5°	48.4	48.8	49.3	49.3	49.3	49.7	50.6	51.0	51.9	50.6	47.9
130°	42.2	42.7	43.5	43.1	43.5	44.4	45.7	45.7	46.2	45.3	42.7
132.5°	35.6	36.1	37.0	37.0	37.4	38.7	39.6	39.6	40.0	39.1	37.0
135°	28.6	29.0	30.4	30.4	31.2	32.1	33.0	33.0	33.4	32.6	30.4
137.5°	22.4	22.4	23.8	23.8	24.6	25.1	25.5	25.5	26.0	25.5	23.8
140°	17.6	17.6	18.9	18.5	19.4	19.4	19.4	19.4	19.8	19.4	18.0
142.5°	13.6	14.1	15.0	14.5	15.4	15.4	15.4	15.0	15.8	15.4	14.1
145°	10.6	10.6	11.4	11.0	11.4	11.9	11.9	11.4	11.9	11.4	10.6
147.5°	7.0	7.0	7.9	7.5	7.9	8.4	8.8	8.4	8.8	8.4	7.5
150°	3.5	3.5	4.4	4.0	4.4	4.8	5.3	5.3	5.3	4.8	4.0
152.5°	0.0	0.0	0.4	0.4	0.4	0.9	0.9	0.9	1.3	1.3	0.9
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	0.0	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	0.4	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	0.4	0.0	0.0	0.0	0.4	0.4
177.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4
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°	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
2.5°	39.6	39.6	40.0	39.6	39.1	38.7	38.3	37.8	37.8	37.0	37.4
5°	49.3	48.8	48.4	47.5	47.1	46.6	46.2	45.7	45.7	45.7	46.2
7.5°	57.6	57.2	55.9	54.5	54.5	54.1	53.7	53.2	52.8	51.9	51.9
10°	62.9	62.5	61.6	61.1	60.3	59.8	59.4	58.5	57.6	55.9	55.9
12.5°	67.7	67.3	66.0	65.5	65.1	64.2	63.3	62.5	60.7	59.4	58.9
15°	72.1	71.3	69.9	69.5	68.6	67.3	66.4	65.5	63.8	62.0	61.6
17.5°	75.7	74.8	73.9	73.0	71.7	70.4	69.1	68.2	66.9	65.5	65.1
20°	79.6	78.7	77.9	76.5	75.2	73.9	72.6	71.3	70.4	69.1	69.1
22.5°	84.0	83.1	81.8	80.9	78.7	77.4	75.7	74.3	73.5	73.0	72.6
25°	88.4	87.5	85.8	84.5	82.3	80.5	79.2	77.4	76.5	77.0	77.0
27.5°	91.9	90.6	88.9	87.5	85.3	83.6	81.8	80.5	79.6	80.1	80.1
30°	94.6	93.7	91.9	90.2	88.0	85.8	84.5	82.7	82.3	82.7	83.1
32.5°	96.8	95.9	93.7	92.4	90.2	88.0	86.2	84.9	84.5	84.9	84.9
35°	98.5	98.1	95.9	93.7	91.9	89.7	88.4	87.1	87.1	88.0	87.5
37.5°	101.6	101.2	99.0	96.8	95.0	93.3	92.4	91.5	91.9	92.4	92.4
40°	109.5	106.9	105.1	102.5	100.7	99.9	99.0	99.0	99.4	99.9	99.9
42.5°	122.7	120.5	117.9	114.4	112.6	111.3	110.0	111.3	112.2	111.7	111.7
45°	143.8	141.2	137.2	132.0	128.9	127.1	127.1	128.9	129.8	128.4	127.6
47.5°	174.6	170.7	165.8	159.7	154.8	153.1	151.8	154.8	155.3	152.2	149.6
50°	213.8	210.3	204.1	197.5	193.1	188.3	184.3	188.7	188.7	182.1	179.5
52.5°	267.4	260.8	254.3	246.8	239.7	232.3	227.0	234.5	233.1	223.5	218.6
55°	319.8	316.3	311.9	299.1	292.5	278.9	272.7	280.6	277.1	263.5	260.0
57.5°	356.3	358.5	354.5	344.4	335.6	319.4	308.4	314.5	308.8	295.2	286.4
60°	386.2	388.4	387.1	375.7	369.9	349.3	334.3	341.8	337.4	321.6	313.2
62.5°	412.6	415.7	415.7	403.8	399.0	371.3	355.9	364.7	359.4	344.0	337.8
65°	438.1	440.3	441.6	429.8	424.0	391.9	374.3	385.8	383.6	367.7	364.7
67.5°	458.8	462.8	465.8	454.8	446.0	414.4	391.5	409.5	402.1	389.3	380.1
70°	481.7	484.3	489.1	479.5	471.1	435.5	406.5	431.1	423.2	408.7	396.3
72.5°	497.5	498.8	509.4	498.8	485.2	452.6	422.7	450.0	436.4	417.0	406.0
75°	512.0	514.2	527.9	514.2	504.1	467.6	433.3	465.0	452.2	429.8	418.3
77.5°	516.9	518.2	532.7	517.7	503.7	470.2	440.3	468.5	454.8	432.4	421.0
78°	520.8	521.7	535.8	520.8	506.3	470.7	441.2	470.2	457.0	435.5	423.2
80°	513.3	516.4	529.2	516.0	501.0	466.3	435.9	466.7	451.8	427.6	416.6
82.5°	505.9	508.1	518.6	505.0	491.8	459.2	428.9	458.4	445.2	419.6	410.4
85°	489.6	494.0	506.3	494.0	479.0	446.9	421.0	449.1	433.7	408.2	397.2
87.5°	476.4	481.7	492.7	483.9	468.9	435.9	408.7	438.1	423.6	398.5	388.0
90°	457.5	461.4	470.7	460.6	446.5	416.1	393.7	420.5	409.1	386.2	376.5
92.5°	432.0	435.9	445.2	434.6	422.3	391.9	370.4	397.2	382.3	363.3	352.8
95°	406.9	410.4	418.8	410.4	399.4	370.4	350.1	377.0	361.6	343.1	335.2
97.5°	375.2	377.9	385.3	376.1	366.9	339.1	320.2	344.9	330.8	315.8	306.2
100°	329.5	330.4	334.3	323.3	319.4	294.7	280.2	301.3	289.4	278.9	269.6
102.5°	254.3	245.9	245.5	240.2	234.0	214.2	208.9	220.4	221.3	212.5	207.2
105°	152.6	146.5	145.2	142.5	136.4	126.7	123.2	135.0	133.7	131.1	126.7
107.5°	98.5	96.8	96.8	94.6	91.1	85.3	82.7	87.5	85.8	84.5	82.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	80.5	79.6	79.6	77.4	75.7	70.8	68.6	71.7	70.4	69.5	67.7
112.5°	71.7	70.8	70.8	69.5	67.7	63.8	62.5	65.1	63.3	62.0	61.1
115°	66.0	65.5	65.1	63.8	62.5	58.9	57.6	60.3	58.9	57.6	57.2
117.5°	62.0	61.1	61.1	59.8	58.5	55.4	54.5	56.3	55.0	53.7	53.2
120°	58.1	57.6	57.2	56.3	55.0	51.9	51.0	52.3	51.5	50.1	49.3
122.5°	54.5	54.1	53.2	52.3	50.6	47.9	47.5	48.4	47.1	45.7	45.3
125°	50.6	49.7	49.3	47.9	46.2	44.0	43.5	44.0	42.7	41.3	40.9
127.5°	46.6	45.3	44.4	43.1	41.3	39.1	39.1	39.6	38.7	37.4	37.0
130°	41.3	40.5	39.1	37.8	36.1	34.3	34.3	34.8	33.9	33.0	33.0
132.5°	35.6	34.3	33.4	32.1	30.8	29.5	29.5	29.5	29.0	28.6	28.2
135°	29.5	28.6	27.3	26.4	25.1	24.2	24.2	24.6	24.2	23.3	23.3
137.5°	22.9	22.0	21.1	20.7	19.8	18.9	18.9	19.4	18.9	18.5	18.5
140°	17.6	16.7	16.3	15.8	15.0	14.5	14.5	14.5	14.5	14.1	14.1
142.5°	13.6	13.2	12.8	12.3	11.9	11.0	11.4	11.4	11.4	11.0	11.0
145°	10.1	9.7	9.2	8.8	8.8	8.4	8.4	8.4	8.4	8.4	7.9
147.5°	7.0	6.6	6.2	5.7	5.7	5.7	5.7	5.7	5.7	5.3	5.3
150°	4.0	3.5	3.1	2.6	2.6	2.6	2.6	3.1	2.6	2.6	2.6
152.5°	0.9	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	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	0.0	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	0.4	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)