

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: P314619

Luminaire Tested: **MPB-A3-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314619
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-7030
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 3000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3004 lumens
Efficiency: N/A
Efficacy: 104.7 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

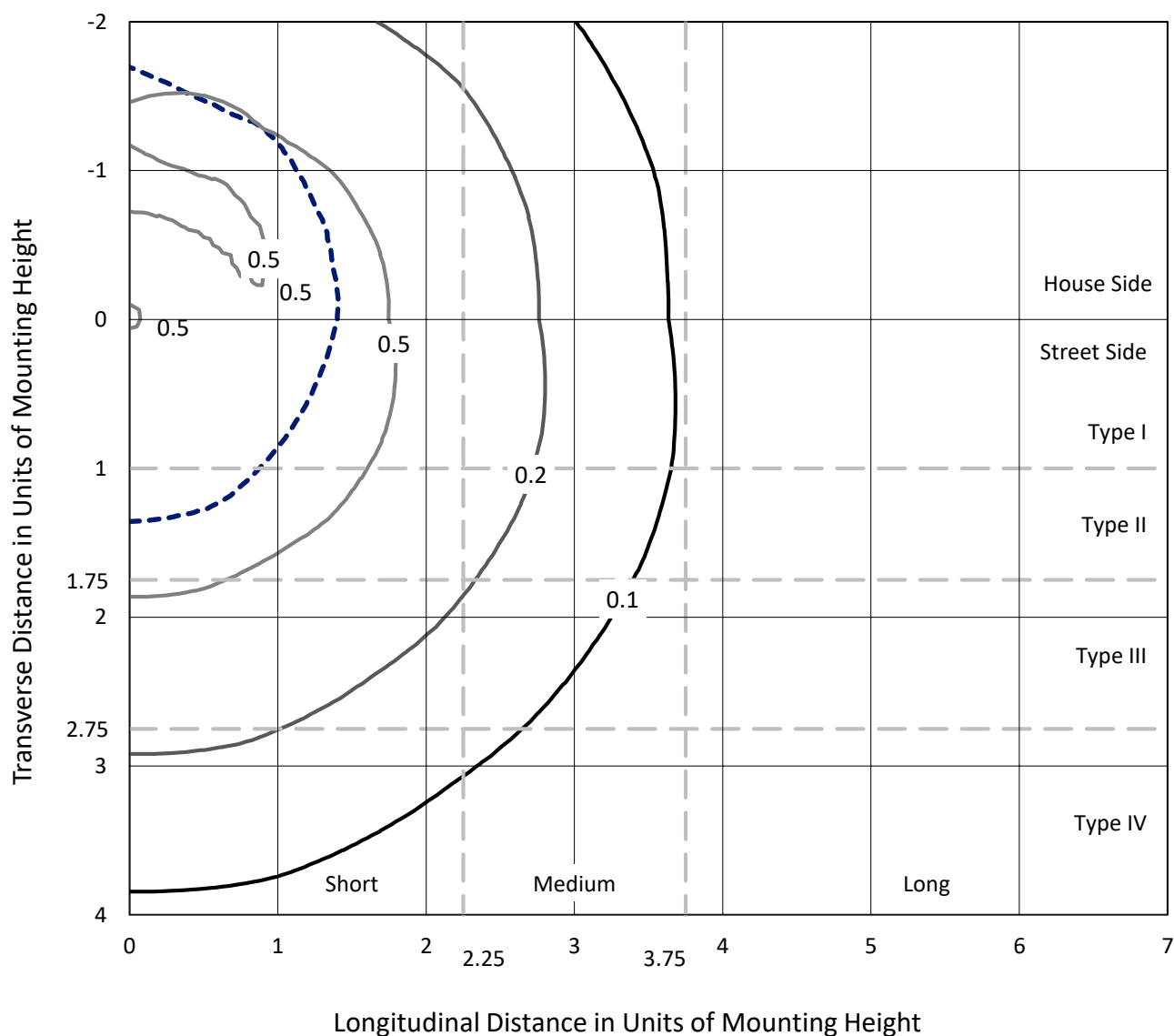


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

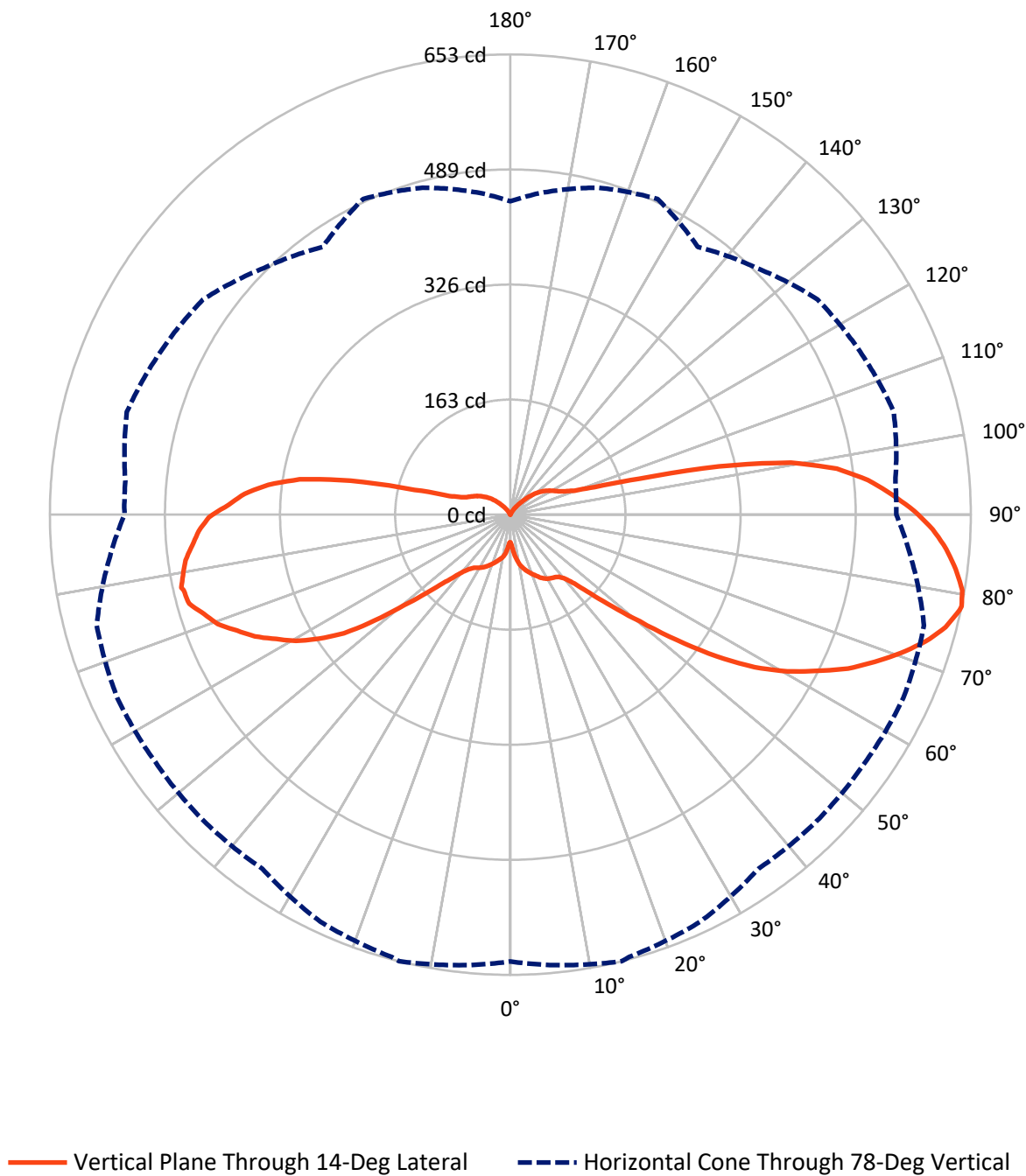


Based on 10 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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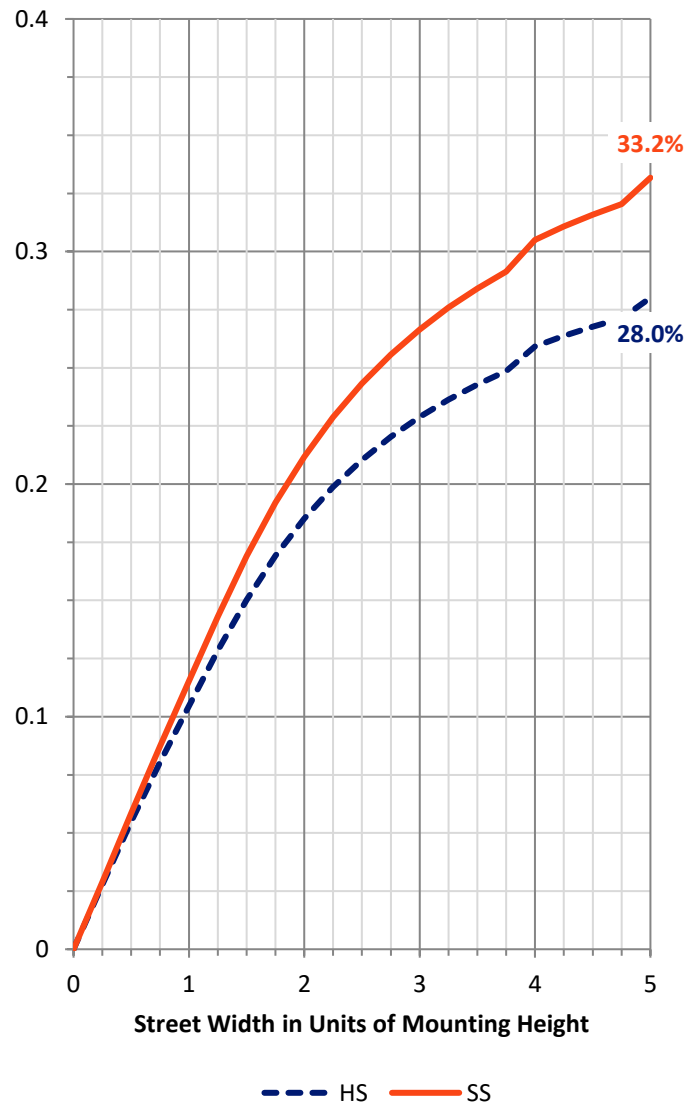
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	987.4	372.4	1359.8
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	1188.5	455.7	1644.2
	% Fixture	39.6	15.2	54.7
Total	Lumens	2175.9	828.1	3004.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.2
10°-20°	21.4	0.7
20°-30°	42.0	1.4
30°-40°	64.3	2.1
40°-50°	121.8	4.1
50°-60°	293.8	9.8
60°-70°	465.0	15.5
70°-80°	580.8	19.3
80°-90°	581.3	19.4
90°-100°	477.7	15.9
100°-110°	202.3	6.7
110°-120°	70.5	2.3
120°-130°	47.0	1.6
130°-140°	23.4	0.8
140°-150°	6.9	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2175.9	72.4
0°-180°	3004.0	100.0

Coefficient of Utilization



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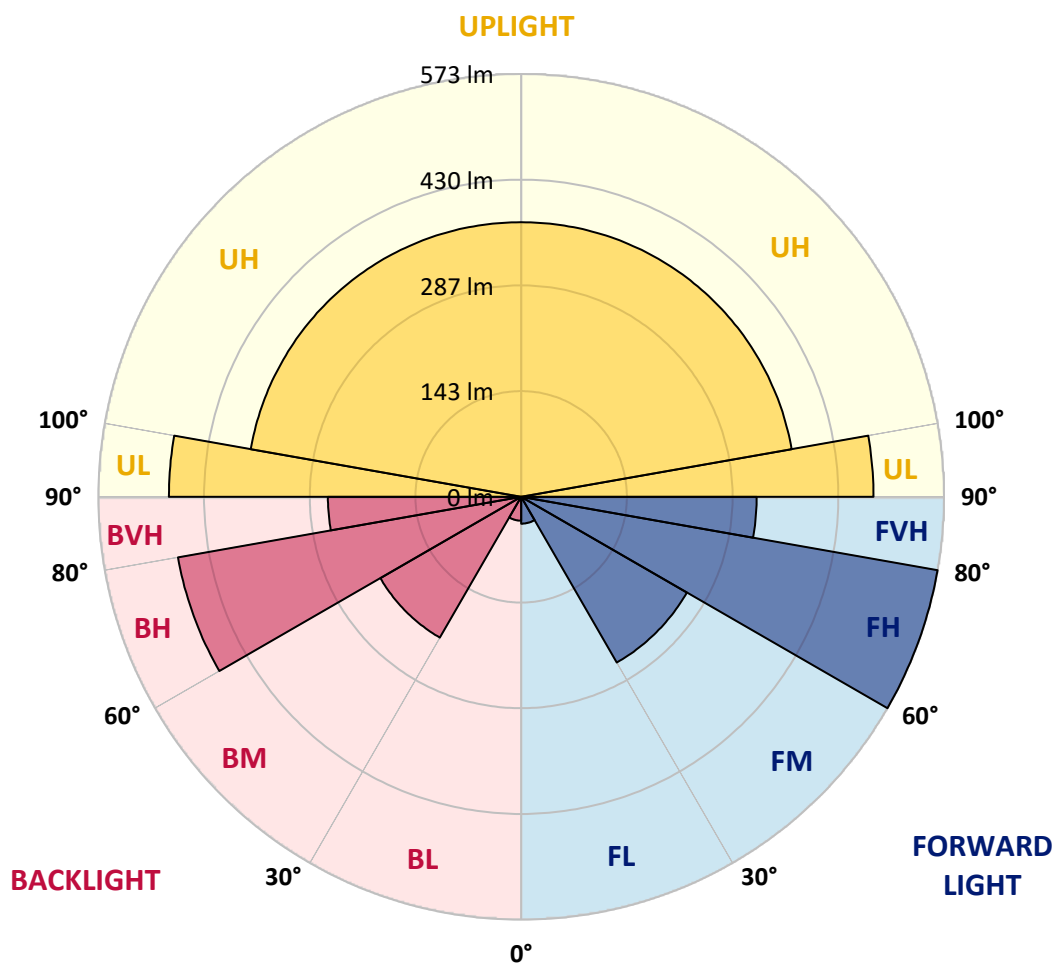
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	36.4	1.2			
FM	(30°-60°)	259.5	8.6			
FH	(60°-80°)	573.3	19.1			G0/660
FVH	(80°-90°)	319.3	10.6			G3/500
BL	(0°-30°)	32.4	1.1	B0/110		
BM	(30°-60°)	220.5	7.3	B1/1000		
BH	(60°-80°)	472.5	15.7	B1/500		G1/500
BVH	(80°-90°)	262.1	8.7			G3/500
UL	(90°-100°)	477.7	15.9		U3/500	
UH	(100°-180°)	372.4	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°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2.5°	44.3	44.8	44.8	45.3	44.3	44.3	43.9	43.4	43.0	42.5	42.0
5°	55.4	55.4	55.4	55.4	54.5	55.0	54.5	53.6	52.7	52.7	51.7
7.5°	64.2	64.2	64.2	64.2	63.7	63.7	63.3	62.8	61.9	61.4	61.0
10°	70.7	71.1	71.6	71.6	71.1	70.7	69.7	69.3	68.8	67.9	66.5
12.5°	76.7	77.1	77.1	77.1	76.7	76.2	75.3	74.4	73.9	73.0	72.1
15°	81.8	81.8	81.8	81.3	80.8	80.4	79.4	79.0	78.1	77.1	76.2
17.5°	85.4	85.9	85.9	85.4	84.5	84.5	83.1	83.1	82.2	81.3	80.4
20°	90.1	90.1	90.1	89.6	89.1	88.7	87.3	86.8	86.4	85.4	84.5
22.5°	94.7	94.7	94.2	94.2	93.3	92.8	91.9	91.4	90.5	89.6	89.1
25°	99.8	99.8	98.8	98.8	97.9	97.0	96.1	95.6	94.7	94.2	93.8
27.5°	103.5	103.5	102.5	102.1	101.6	100.2	99.8	98.8	97.9	97.5	97.0
30°	106.7	106.2	105.3	105.3	104.4	103.0	102.1	101.1	100.2	100.2	100.2
32.5°	108.5	108.1	107.2	106.7	105.3	104.4	103.5	102.5	101.6	102.1	102.1
35°	110.4	110.4	109.0	108.5	107.2	105.8	104.4	103.5	103.0	103.5	103.9
37.5°	113.6	113.2	111.8	111.3	109.5	109.0	108.1	107.6	107.2	107.6	107.6
40°	120.5	120.5	119.2	118.7	117.3	117.8	117.3	117.8	116.9	117.8	116.4
42.5°	133.9	134.9	133.5	132.6	131.6	133.5	135.3	134.9	133.9	134.4	131.2
45°	157.5	159.3	159.8	158.4	155.6	160.7	163.5	164.0	161.7	160.3	155.2
47.5°	193.1	195.8	194.4	194.4	189.8	197.2	200.9	203.2	199.5	197.2	188.9
50°	237.9	242.5	237.9	239.7	231.4	244.3	250.3	251.7	248.5	243.4	232.8
52.5°	293.3	297.0	295.6	294.2	285.4	302.5	313.1	318.7	313.1	305.8	289.6
55°	356.1	355.6	354.7	356.1	347.8	361.6	377.8	381.0	379.2	364.0	345.5
57.5°	407.8	408.3	408.3	408.3	398.1	410.1	424.9	427.2	424.5	411.1	386.6
60°	448.0	449.4	451.2	452.2	442.5	448.0	463.7	463.3	460.5	443.9	423.1
62.5°	482.2	484.5	488.2	488.2	482.2	480.8	495.1	493.3	491.9	476.2	452.2
65°	516.4	518.7	526.1	525.6	518.7	512.2	527.9	526.5	523.3	507.6	479.0
67.5°	545.5	548.7	557.0	557.9	552.9	545.0	554.7	551.0	549.2	532.5	501.1
70°	576.4	581.0	587.5	587.5	575.5	569.5	578.3	575.9	578.3	561.6	525.6
72.5°	600.0	601.8	615.2	616.6	602.7	589.3	599.5	594.0	595.8	577.8	542.2
75°	624.4	626.8	637.4	637.4	618.4	606.4	613.8	611.5	614.7	600.0	558.4
77.5°	633.7	639.7	650.8	648.5	635.1	614.3	622.1	621.2	623.1	604.6	563.9
78°	633.7	641.1	652.6	649.4	636.9	612.9	614.3	613.4	614.7	606.9	566.7
80°	631.8	642.5	649.4	645.2	634.6	607.8	606.9	607.4	610.1	601.8	559.3
82.5°	617.5	628.6	636.0	634.1	624.9	595.8	600.4	605.5	611.5	596.7	553.8
85°	604.6	616.1	619.8	618.4	607.8	577.8	581.5	588.4	585.6	575.0	536.7
87.5°	587.5	597.7	599.0	598.1	588.9	560.2	563.0	567.6	570.4	564.4	522.4
90°	560.2	569.5	572.7	572.7	563.0	538.5	545.0	551.5	556.6	545.0	503.4
92.5°	530.2	538.5	541.8	541.8	533.5	509.4	513.6	521.9	522.8	513.6	475.3
95°	498.4	503.4	509.4	508.5	498.4	474.8	479.0	489.1	490.5	482.2	448.0
97.5°	458.2	460.0	467.4	466.0	455.9	438.8	444.8	454.0	454.9	446.6	413.4
100°	398.6	398.1	404.6	404.6	394.9	384.3	392.6	404.1	402.7	394.4	366.3
102.5°	299.8	294.2	303.4	302.5	299.8	295.6	303.9	315.0	317.8	311.8	283.1
105°	190.3	187.1	189.8	188.0	186.6	178.7	182.0	185.7	182.9	185.2	169.5
107.5°	125.6	123.8	125.6	125.2	122.4	118.7	118.2	119.2	118.7	116.9	108.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	96.5	95.6	97.0	96.5	95.1	93.3	92.8	93.8	93.8	92.4	87.3
112.5°	83.6	83.1	84.5	84.1	83.1	81.8	81.8	82.2	82.7	81.3	77.6
115°	75.3	75.7	76.7	76.7	75.7	73.9	74.4	75.3	75.3	74.4	71.6
117.5°	70.2	70.7	71.6	71.1	70.2	69.3	69.3	70.2	71.1	69.7	67.4
120°	66.0	66.0	67.0	66.5	65.6	65.1	65.6	66.5	67.0	65.6	63.3
122.5°	61.4	61.9	62.4	62.4	61.4	61.4	62.4	62.8	63.3	61.9	59.1
125°	56.3	56.8	57.3	57.3	56.8	57.3	57.7	58.2	59.1	57.7	55.0
127.5°	50.8	51.3	51.7	51.7	51.7	52.2	53.1	53.6	54.5	53.1	50.3
130°	44.3	44.8	45.7	45.3	45.7	46.6	48.0	48.0	48.5	47.6	44.8
132.5°	37.4	37.9	38.8	38.8	39.3	40.6	41.6	41.6	42.0	41.1	38.8
135°	30.0	30.5	31.9	31.9	32.8	33.7	34.6	34.6	35.1	34.2	31.9
137.5°	23.6	23.6	24.9	24.9	25.9	26.3	26.8	26.8	27.3	26.8	24.9
140°	18.5	18.5	19.9	19.4	20.3	20.3	20.3	20.3	20.8	20.3	18.9
142.5°	14.3	14.8	15.7	15.2	16.2	16.2	16.2	15.7	16.6	16.2	14.8
145°	11.1	11.1	12.0	11.5	12.0	12.5	12.5	12.0	12.5	12.0	11.1
147.5°	7.4	7.4	8.3	7.9	8.3	8.8	9.2	8.8	9.2	8.8	7.9
150°	3.7	3.7	4.6	4.2	4.6	5.1	5.5	5.5	5.5	5.1	4.2
152.5°	0.0	0.0	0.5	0.5	0.5	0.9	0.9	0.9	1.4	1.4	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	0.5	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	0.5	0.0	0.0	0.0	0.5	0.5
177.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5
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°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2.5°	41.6	41.6	42.0	41.6	41.1	40.6	40.2	39.7	39.7	38.8	39.3
5°	51.7	51.3	50.8	49.9	49.4	49.0	48.5	48.0	48.0	48.0	48.5
7.5°	60.5	60.0	58.7	57.3	57.3	56.8	56.3	55.9	55.4	54.5	54.5
10°	66.0	65.6	64.7	64.2	63.3	62.8	62.4	61.4	60.5	58.7	58.7
12.5°	71.1	70.7	69.3	68.8	68.4	67.4	66.5	65.6	63.7	62.4	61.9
15°	75.7	74.8	73.4	73.0	72.1	70.7	69.7	68.8	67.0	65.1	64.7
17.5°	79.4	78.5	77.6	76.7	75.3	73.9	72.5	71.6	70.2	68.8	68.4
20°	83.6	82.7	81.8	80.4	79.0	77.6	76.2	74.8	73.9	72.5	72.5
22.5°	88.2	87.3	85.9	85.0	82.7	81.3	79.4	78.1	77.1	76.7	76.2
25°	92.8	91.9	90.1	88.7	86.4	84.5	83.1	81.3	80.4	80.8	80.8
27.5°	96.5	95.1	93.3	91.9	89.6	87.8	85.9	84.5	83.6	84.1	84.1
30°	99.3	98.4	96.5	94.7	92.4	90.1	88.7	86.8	86.4	86.8	87.3
32.5°	101.6	100.7	98.4	97.0	94.7	92.4	90.5	89.1	88.7	89.1	89.1
35°	103.5	103.0	100.7	98.4	96.5	94.2	92.8	91.4	91.4	92.4	91.9
37.5°	106.7	106.2	103.9	101.6	99.8	97.9	97.0	96.1	96.5	97.0	97.0
40°	115.0	112.2	110.4	107.6	105.8	104.8	103.9	103.9	104.4	104.8	104.8
42.5°	128.9	126.6	123.8	120.1	118.2	116.9	115.5	116.9	117.8	117.3	117.3
45°	151.0	148.3	144.1	138.6	135.3	133.5	133.5	135.3	136.3	134.9	133.9
47.5°	183.4	179.2	174.1	167.7	162.6	160.7	159.3	162.6	163.0	159.8	157.0
50°	224.5	220.8	214.3	207.4	202.8	197.7	193.5	198.1	198.1	191.2	188.4
52.5°	280.8	273.9	267.0	259.1	251.7	243.9	238.3	246.2	244.8	234.6	229.5
55°	335.8	332.1	327.5	314.1	307.1	292.8	286.4	294.7	291.0	276.7	273.0
57.5°	374.1	376.4	372.3	361.6	352.4	335.3	323.8	330.2	324.2	309.9	300.7
60°	405.5	407.8	406.4	394.4	388.4	366.7	351.0	358.9	354.3	337.6	328.9
62.5°	433.2	436.5	436.5	424.0	418.9	389.8	373.7	382.9	377.3	361.2	354.7
65°	460.0	462.3	463.7	451.2	445.2	411.5	393.0	405.1	402.7	386.1	382.9
67.5°	481.7	485.9	489.1	477.6	468.3	435.1	411.1	430.0	422.1	408.8	399.1
70°	505.7	508.5	513.6	503.4	494.7	457.2	426.8	452.6	444.3	429.1	416.1
72.5°	522.4	523.8	534.8	523.8	509.4	475.3	443.9	472.5	458.2	437.9	426.3
75°	537.6	539.9	554.2	539.9	529.3	491.0	454.9	488.2	474.8	451.2	439.2
77.5°	542.7	544.1	559.3	543.6	528.8	493.7	462.3	491.9	477.6	454.0	442.0
78°	546.9	547.8	562.6	546.9	531.6	494.2	463.3	493.7	479.9	457.2	444.3
80°	539.0	542.2	555.6	541.8	526.1	489.6	457.7	490.0	474.3	448.9	437.4
82.5°	531.1	533.5	544.5	530.2	516.4	482.2	450.3	481.3	467.4	440.6	430.9
85°	514.1	518.7	531.6	518.7	503.0	469.3	442.0	471.6	455.4	428.6	417.1
87.5°	500.2	505.7	517.3	508.1	492.4	457.7	429.1	460.0	444.8	418.5	407.4
90°	480.3	484.5	494.2	483.6	468.8	436.9	413.4	441.5	429.5	405.5	395.4
92.5°	453.6	457.7	467.4	456.3	443.4	411.5	388.9	417.1	401.4	381.5	370.4
95°	427.2	430.9	439.7	430.9	419.4	388.9	367.6	395.8	379.7	360.3	351.9
97.5°	394.0	396.7	404.6	394.9	385.2	356.1	336.2	362.1	347.3	331.6	321.5
100°	345.9	346.9	351.0	339.5	335.3	309.5	294.2	316.4	303.9	292.8	283.1
102.5°	267.0	258.2	257.7	252.2	245.7	224.9	219.4	231.4	232.3	223.1	217.5
105°	160.3	153.8	152.4	149.6	143.2	133.0	129.3	141.8	140.4	137.6	133.0
107.5°	103.5	101.6	101.6	99.3	95.6	89.6	86.8	91.9	90.1	88.7	86.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	84.5	83.6	83.6	81.3	79.4	74.4	72.1	75.3	73.9	73.0	71.1
112.5°	75.3	74.4	74.4	73.0	71.1	67.0	65.6	68.4	66.5	65.1	64.2
115°	69.3	68.8	68.4	67.0	65.6	61.9	60.5	63.3	61.9	60.5	60.0
117.5°	65.1	64.2	64.2	62.8	61.4	58.2	57.3	59.1	57.7	56.3	55.9
120°	61.0	60.5	60.0	59.1	57.7	54.5	53.6	55.0	54.0	52.7	51.7
122.5°	57.3	56.8	55.9	55.0	53.1	50.3	49.9	50.8	49.4	48.0	47.6
125°	53.1	52.2	51.7	50.3	48.5	46.2	45.7	46.2	44.8	43.4	43.0
127.5°	49.0	47.6	46.6	45.3	43.4	41.1	41.1	41.6	40.6	39.3	38.8
130°	43.4	42.5	41.1	39.7	37.9	36.0	36.0	36.5	35.6	34.6	34.6
132.5°	37.4	36.0	35.1	33.7	32.3	30.9	30.9	30.9	30.5	30.0	29.6
135°	30.9	30.0	28.6	27.7	26.3	25.4	25.4	25.9	25.4	24.5	24.5
137.5°	24.0	23.1	22.2	21.7	20.8	19.9	19.9	20.3	19.9	19.4	19.4
140°	18.5	17.6	17.1	16.6	15.7	15.2	15.2	15.2	15.2	14.8	14.8
142.5°	14.3	13.9	13.4	12.9	12.5	11.5	12.0	12.0	12.0	11.5	11.5
145°	10.6	10.2	9.7	9.2	9.2	8.8	8.8	8.8	8.8	8.8	8.3
147.5°	7.4	6.9	6.5	6.0	6.0	6.0	6.0	6.0	6.0	5.5	5.5
150°	4.2	3.7	3.2	2.8	2.8	2.8	2.8	3.2	2.8	2.8	2.8
152.5°	0.9	0.5	0.5	0.5	0.5	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	0.5	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)