

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: P691186

Luminaire Tested: **CRTK2-C013-D-U-T5R-7050-U0-DS-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-30)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-D-U-T5R-7050-U0-DS-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE V ROUND OPTIC AND UO SHIELD WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2023 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U1 - G1

Input Watts (W): 20.4
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: 24 FT

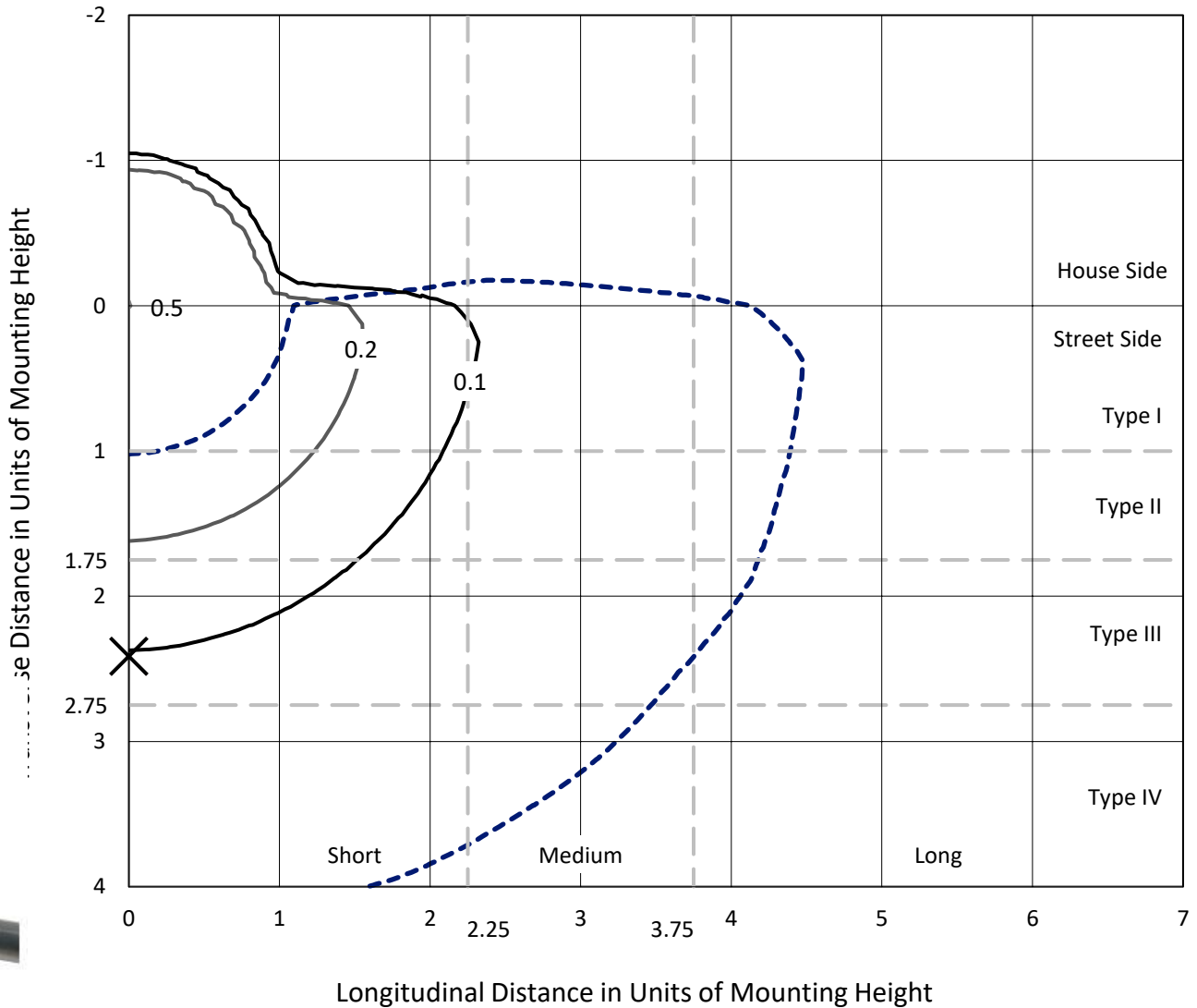


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Iso-Footcandle Lines of Horizontal Illumination

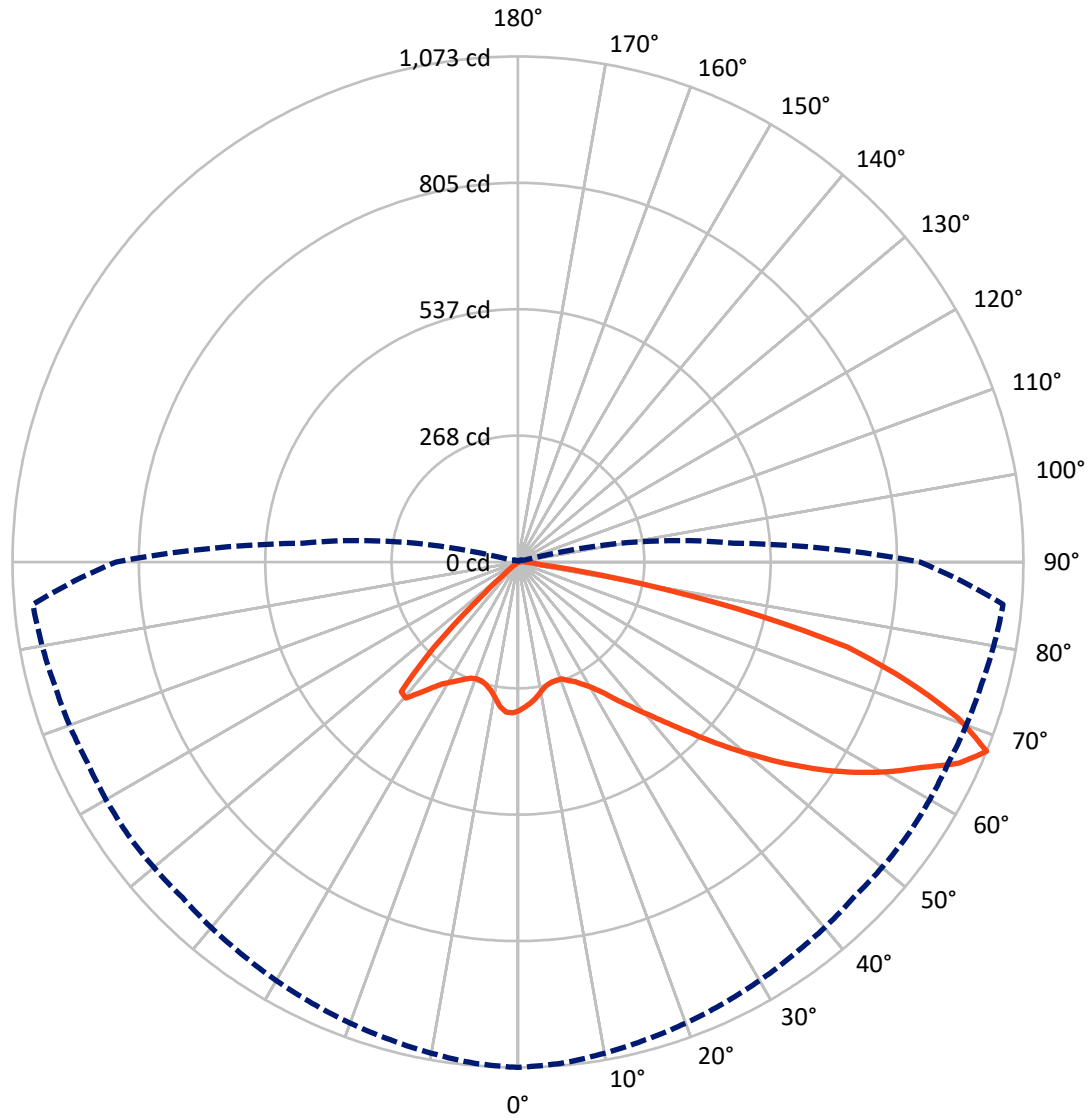
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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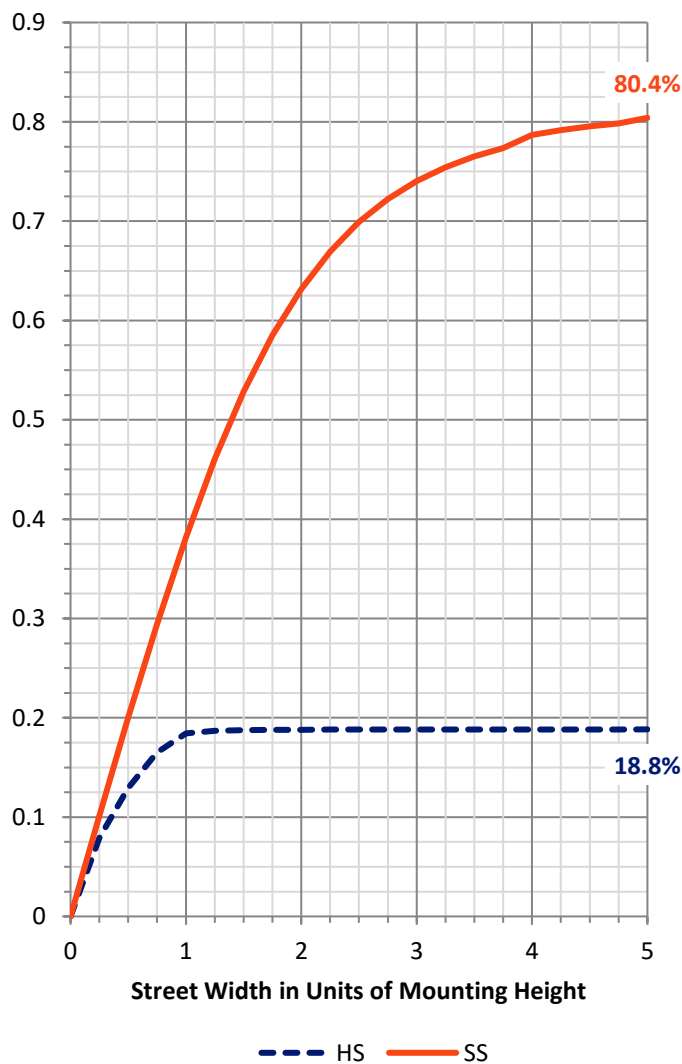
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	383.1	0.7	383.8
	% Fixture	18.9	0.0	19.0
Street Side	Lumens	1634.6	4.6	1639.2
	% Fixture	80.8	0.2	81.0
Total	Lumens	2017.7	5.3	2023.0
	% Fixture	99.7	0.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	1.4
10°-20°	74.3	3.7
20°-30°	127.4	6.3
30°-40°	215.3	10.6
40°-50°	287.3	14.2
50°-60°	364.8	18.0
60°-70°	510.9	25.3
70°-80°	370.0	18.3
80°-90°	39.4	1.9
90°-100°	4.4	0.2
100°-110°	0.4	0.0
110°-120°	0.2	0.0
120°-130°	0.1	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	2017.7	99.7
0°-180°	2023.0	100.0

Coefficient of Utilization



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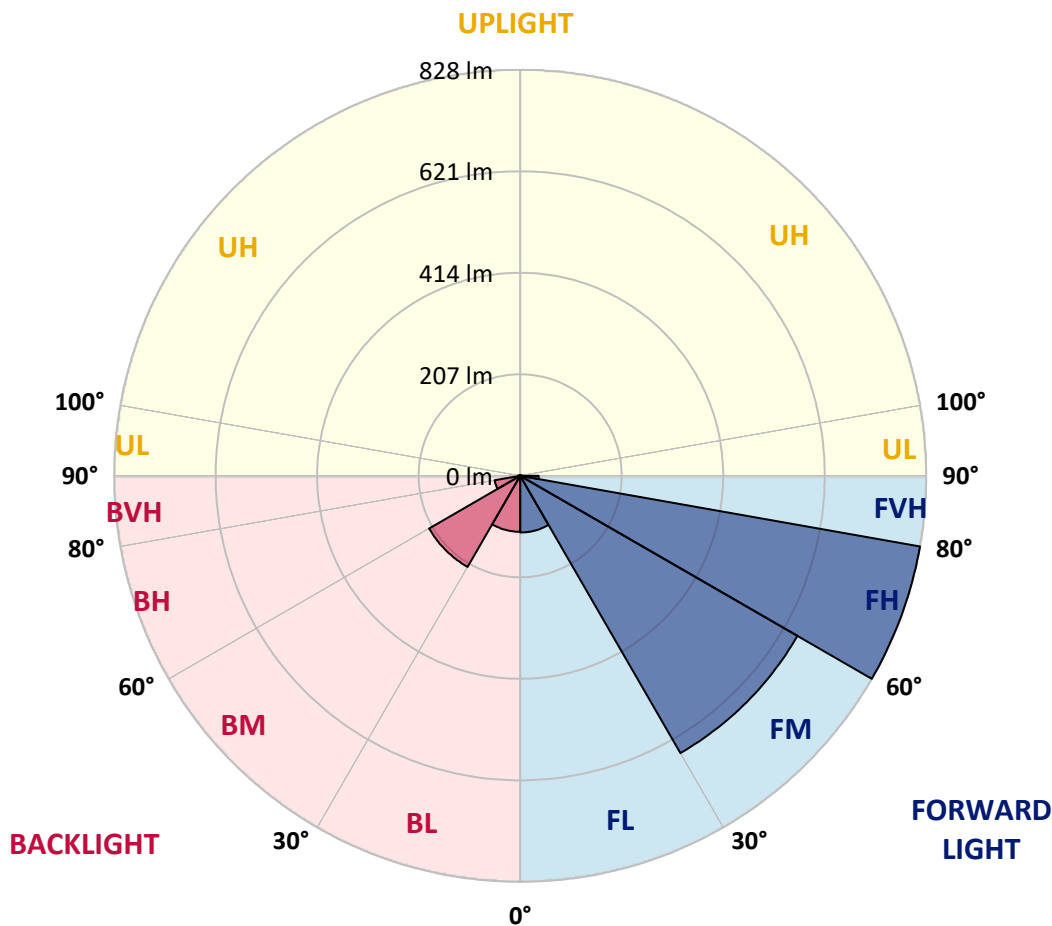
CATALOG NUMBER: CRTK2-C013-D-U-T5R-7050-U0-DS-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.6	5.7			
FM (30°-60°)	653.0	32.3			
FH (60°-80°)	828.0	40.9			G1/1800
FVH (80°-90°)	38.0	1.9			G1/100
BL (0°-30°)	114.2	5.6	B1/500		
BM (30°-60°)	214.5	10.6	B0/220		
BH (60°-80°)	52.9	2.6	B0/110		G0/110
BVH (80°-90°)	1.5	0.1			G0/10
UL (90°-100°)	4.4	0.2		U1/10	
UH (100°-180°)	0.9	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7
2.5°	307.6	308.6	308.6	308.6	309.6	308.6	308.6	308.6	308.6	309.6	309.6
5°	299.5	299.5	299.5	300.5	300.5	299.5	298.5	299.5	299.5	300.5	300.5
7.5°	289.4	289.4	289.4	290.4	289.4	287.3	285.3	286.3	285.3	286.3	287.3
10°	277.2	278.2	278.2	277.2	276.2	273.2	270.1	271.1	270.1	271.1	271.1
12.5°	269.1	270.1	270.1	269.1	266.1	264.1	262.0	260.0	259.0	261.0	260.0
15°	265.1	266.1	266.1	265.1	263.0	261.0	257.0	256.0	253.9	252.9	253.9
17.5°	264.1	264.1	264.1	263.0	261.0	258.0	256.0	253.9	252.9	252.9	251.9
20°	265.1	267.1	266.1	265.1	263.0	261.0	258.0	255.0	255.0	255.0	253.9
22.5°	273.2	273.2	272.2	272.2	270.1	267.1	264.1	262.0	260.0	260.0	260.0
25°	281.3	282.3	282.3	281.3	278.2	274.2	273.2	270.1	269.1	268.1	267.1
27.5°	294.4	293.4	294.4	294.4	290.4	288.3	285.3	283.3	282.3	280.2	279.2
30°	309.6	309.6	309.6	309.6	306.6	302.5	300.5	297.4	294.4	294.4	292.4
32.5°	329.8	330.8	330.8	329.8	326.8	322.7	320.7	316.7	315.7	313.6	311.6
35°	358.2	358.2	358.2	356.1	352.1	349.0	347.0	344.0	343.0	339.9	334.9
37.5°	389.5	389.5	391.5	389.5	385.5	381.4	378.4	376.4	373.3	371.3	368.3
40°	425.9	425.9	426.9	423.9	419.9	417.8	414.8	410.8	408.7	407.7	401.7
42.5°	468.4	470.5	470.5	467.4	464.4	461.3	457.3	454.3	452.2	448.2	440.1
45°	520.0	519.0	521.0	518.0	516.0	515.0	508.9	501.8	502.8	493.7	484.6
47.5°	580.7	581.7	580.7	577.7	575.7	574.7	568.6	559.5	555.4	548.4	531.2
50°	642.4	643.5	642.4	640.4	642.4	636.4	629.3	621.2	620.2	611.1	584.8
52.5°	710.2	707.2	706.2	705.2	703.2	700.1	693.0	683.9	684.9	674.8	633.3
55°	778.0	775.0	769.9	767.9	765.9	760.8	754.7	751.7	750.7	740.6	684.9
57.5°	842.8	837.7	830.6	829.6	826.6	819.5	816.5	811.4	811.4	800.3	722.4
60°	904.5	898.4	890.3	886.3	881.2	875.1	874.1	871.1	872.1	866.0	762.8
62.5°	961.1	956.1	946.0	939.9	931.8	926.7	927.8	925.7	929.8	925.7	798.3
65°	1029.9	1023.9	1011.7	998.6	987.4	979.4	976.3	982.4	999.6	1003.6	845.8
67.5°	1073.4	1068.4	1050.2	1034.0	1018.8	1007.7	1010.7	1008.7	1017.8	1034.0	853.9
70°	991.5	989.5	971.3	961.1	950.0	938.9	939.9	936.9	943.9	948.0	783.1
72.5°	865.0	875.1	851.9	850.9	843.8	844.8	833.7	841.8	836.7	836.7	693.0
75°	723.4	702.1	695.1	712.3	702.1	703.2	701.1	710.2	709.2	710.2	603.0
77.5°	474.5	478.5	469.4	487.7	496.8	511.9	519.0	543.3	534.2	532.2	477.5
80°	212.5	217.5	218.5	235.7	246.9	262.0	257.0	274.2	263.0	244.8	233.7
82.5°	47.6	47.6	53.6	68.8	72.8	75.9	75.9	78.9	62.7	38.4	31.4
85°	32.4	31.4	42.5	57.7	60.7	58.7	56.7	52.6	36.4	11.1	9.1
87.5°	21.2	22.3	34.4	47.6	49.6	46.5	43.5	39.5	26.3	3.0	2.0
90°	14.2	16.2	26.3	36.4	36.4	34.4	31.4	26.3	16.2	1.0	1.0
92.5°	7.1	8.1	13.2	16.2	15.2	13.2	12.1	10.1	6.1	1.0	1.0
95°	4.0	4.0	6.1	6.1	6.1	5.1	5.1	4.0	2.0	1.0	1.0
97.5°	3.0	3.0	4.0	4.0	3.0	3.0	3.0	2.0	1.0	1.0	1.0
100°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
102.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
105°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
152.5°	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	1.0	1.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0
175°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
177.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	1.0	1.0
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°	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7
2.5°	310.6	311.6	312.6	314.6	314.6	317.7	318.7	319.7	320.7	320.7
5°	302.5	303.5	306.6	308.6	311.6	313.6	316.7	317.7	318.7	319.7
7.5°	287.3	289.4	292.4	293.4	297.4	300.5	303.5	306.6	307.6	309.6
10°	272.2	273.2	274.2	277.2	279.2	283.3	287.3	289.4	291.4	291.4
12.5°	261.0	262.0	263.0	264.1	267.1	269.1	273.2	275.2	276.2	278.2
15°	253.9	253.9	256.0	256.0	258.0	261.0	263.0	266.1	267.1	269.1
17.5°	251.9	251.9	252.9	253.9	256.0	257.0	259.0	262.0	263.0	264.1
20°	252.9	253.9	253.9	255.0	257.0	258.0	260.0	261.0	262.0	263.0
22.5°	258.0	257.0	258.0	258.0	259.0	261.0	263.0	265.1	266.1	266.1
25°	265.1	264.1	264.1	266.1	267.1	268.1	271.1	272.2	273.2	273.2
27.5°	277.2	276.2	277.2	277.2	278.2	278.2	281.3	281.3	282.3	283.3
30°	289.4	286.3	286.3	286.3	287.3	289.4	290.4	292.4	293.4	293.4
32.5°	307.6	301.5	300.5	301.5	301.5	302.5	305.5	304.5	306.6	305.5
35°	330.8	324.8	322.7	322.7	322.7	322.7	325.8	323.8	325.8	324.8
37.5°	359.2	351.1	350.1	350.1	348.0	349.0	350.1	348.0	347.0	348.0
40°	389.5	375.4	374.3	375.4	375.4	375.4	375.4	374.3	373.3	374.3
42.5°	375.4	318.7	325.8	335.9	346.0	358.2	361.2	369.3	370.3	370.3
45°	327.8	184.1	194.3	209.4	215.5	219.5	230.7	247.9	252.9	253.9
47.5°	289.4	61.7	65.8	71.8	82.0	87.0	88.0	100.2	105.2	95.1
50°	286.3	14.2	10.1	10.1	11.1	9.1	9.1	10.1	10.1	10.1
52.5°	312.6	13.2	9.1	8.1	8.1	8.1	7.1	8.1	8.1	8.1
55°	339.9	13.2	9.1	8.1	8.1	8.1	7.1	7.1	7.1	7.1
57.5°	362.2	13.2	9.1	8.1	8.1	7.1	6.1	6.1	6.1	6.1
60°	388.5	13.2	9.1	8.1	8.1	6.1	5.1	5.1	5.1	5.1
62.5°	410.8	14.2	9.1	8.1	7.1	5.1	5.1	5.1	5.1	5.1
65°	443.1	14.2	9.1	7.1	5.1	4.0	4.0	4.0	4.0	4.0
67.5°	458.3	14.2	8.1	6.1	4.0	3.0	3.0	3.0	3.0	3.0
70°	412.8	11.1	6.1	4.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	353.1	8.1	4.0	3.0	2.0	2.0	2.0	2.0	2.0	1.0
75°	281.3	5.1	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	197.3	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	82.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.1	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.0	1.0	1.0	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°
112.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	0.0	0.0	0.0	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
157.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.0	1.0	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)