

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: P691397

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4674 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G2

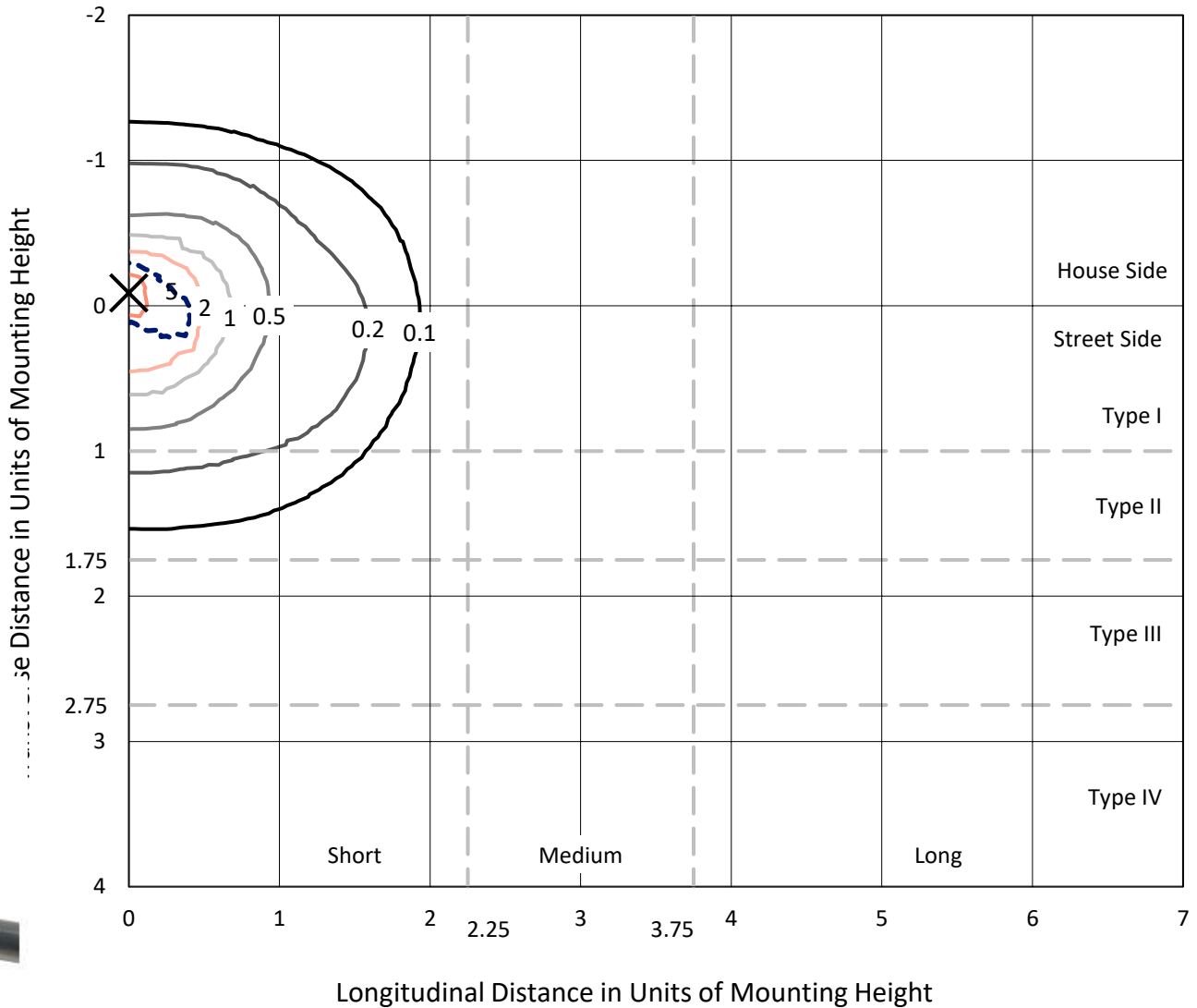
Input Watts (W): 42.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

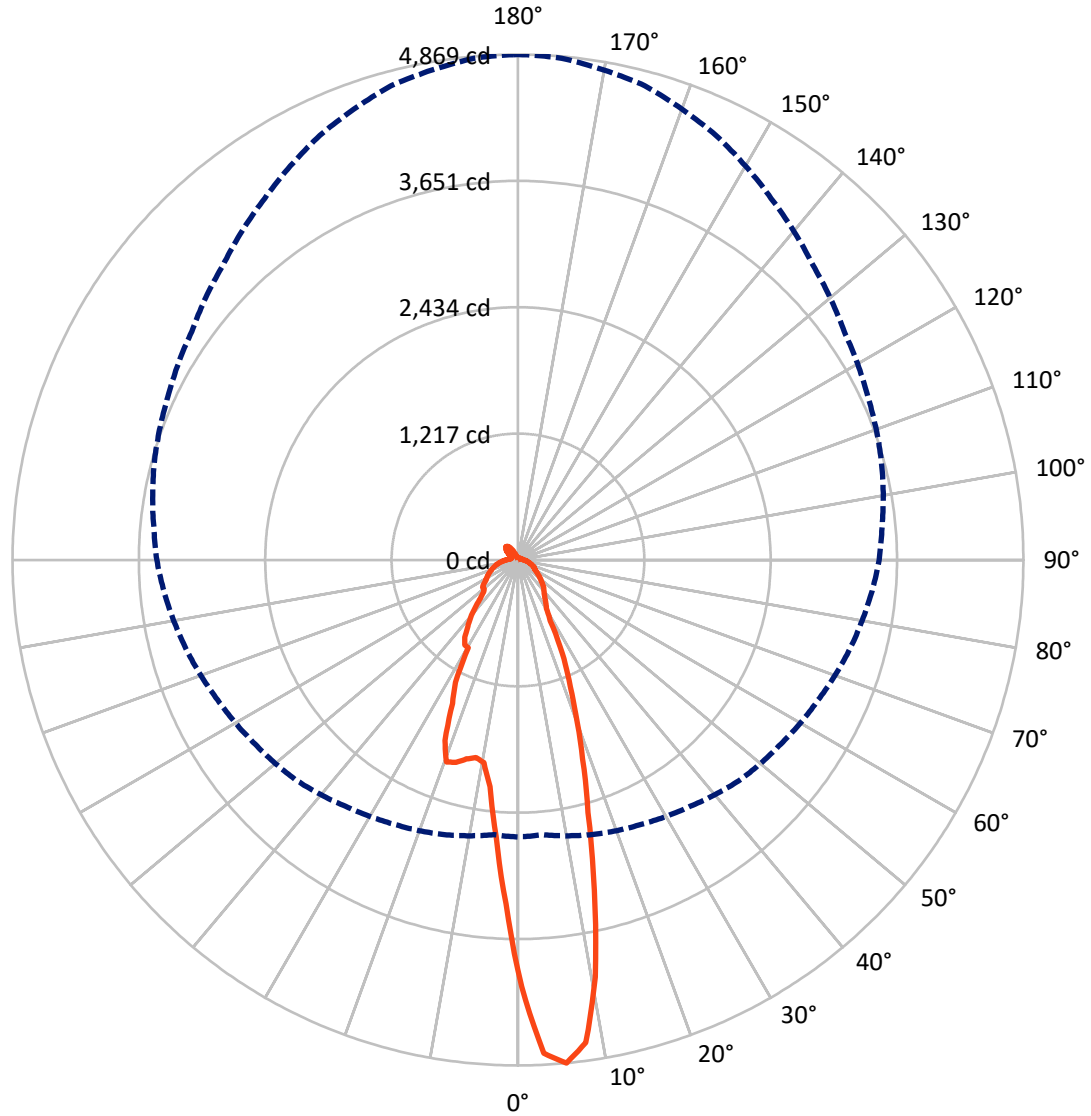
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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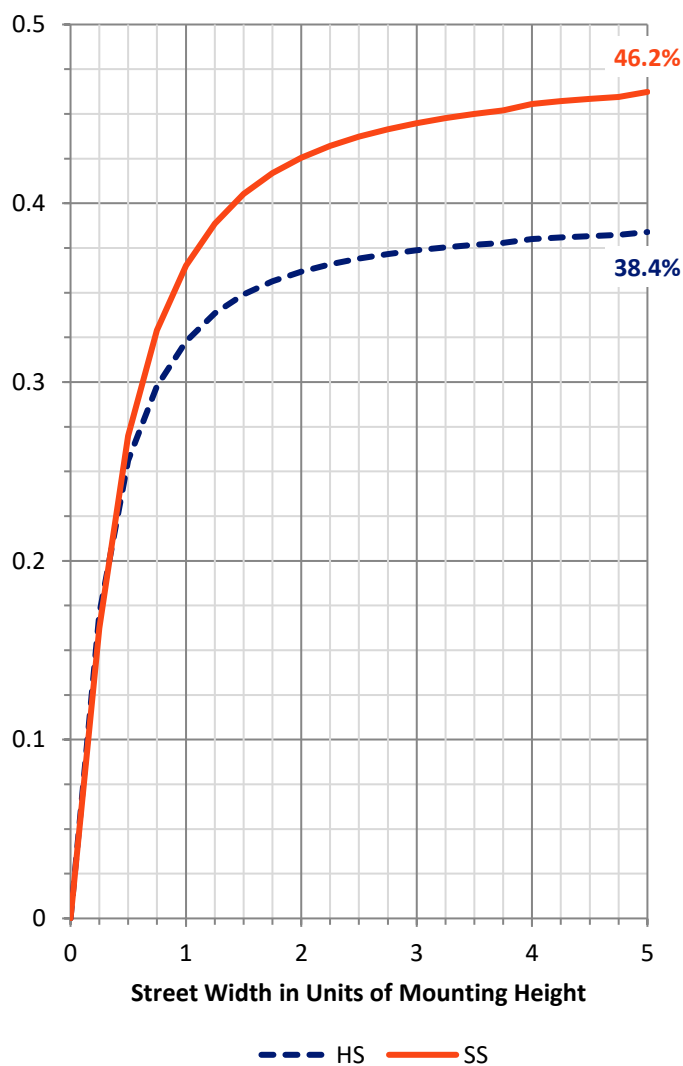
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1842.0	216.3	2058.2
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2213.8	402.0	2615.8
	% Fixture	47.4	8.6	56.0
Total	Lumens	4055.7	618.3	4674.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.1	6.8
10°-20°	674.9	14.4
20°-30°	734.5	15.7
30°-40°	537.6	11.5
40°-50°	452.0	9.7
50°-60°	459.0	9.8
60°-70°	390.2	8.3
70°-80°	291.2	6.2
80°-90°	198.2	4.2
90°-100°	119.0	2.5
100°-110°	68.2	1.5
110°-120°	62.8	1.3
120°-130°	91.3	2.0
130°-140°	125.5	2.7
140°-150°	103.9	2.2
150°-160°	42.3	0.9
160°-170°	5.3	0.1
170°-180°	0.0	0.0
0°-90°	4055.7	86.8
0°-180°	4674.0	100.0

Coefficient of Utilization



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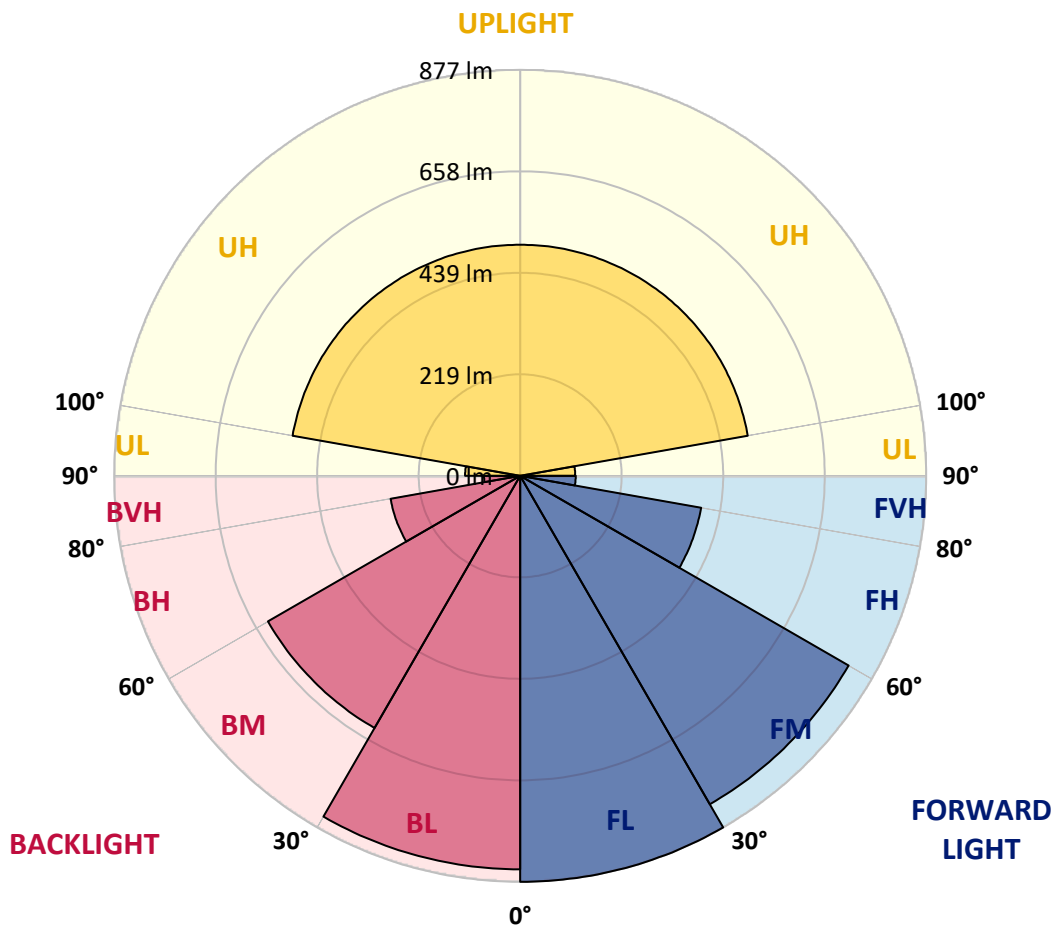
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.2	18.8			
FM (30°-60°)	819.4	17.5			
FH (60°-80°)	397.1	8.5			G0/660
FVH (80°-90°)	120.0	2.6			G2/225
BL (0°-30°)	850.2	18.2	B2/1000		
BM (30°-60°)	629.3	13.5	B1/1000		
BH (60°-80°)	284.3	6.1	B1/500		G1/500
BVH (80°-90°)	78.2	1.7			G1/100
UL (90°-100°)	119.0	2.5		U3/500	
UH (100°-180°)	499.3	10.7		U3/500	

BUG Rating: B2-U3-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8
2.5°	3313.7	3307.4	3353.2	3363.6	3367.8	3415.7	3480.2	3523.9	3603.0	3680.0	3711.2
5°	2668.4	2655.9	2739.2	2810.0	2895.3	3007.7	3091.0	3190.9	3309.5	3424.0	3478.1
7.5°	2200.1	2216.7	2335.4	2481.1	2618.5	2751.7	2853.7	2939.0	3007.7	3080.5	3095.1
10°	1979.5	1994.0	2110.6	2250.0	2377.0	2512.3	2599.7	2672.6	2716.3	2770.4	2789.1
12.5°	1944.1	1954.5	2033.6	2131.4	2227.2	2350.0	2460.3	2541.5	2591.4	2635.1	2639.3
15°	1979.5	1983.6	2031.5	2096.0	2179.3	2281.3	2408.2	2499.8	2556.0	2574.8	2570.6
17.5°	2037.7	2037.7	2060.6	2114.8	2193.9	2291.7	2412.4	2506.1	2564.3	2572.7	2556.0
20°	2062.7	2066.9	2081.5	2141.8	2212.6	2302.1	2422.8	2501.9	2547.7	2524.8	2495.7
22.5°	1875.4	1867.1	1906.6	2033.6	2191.8	2352.0	2466.5	2556.0	2581.0	2504.0	2441.5
25°	1517.4	1521.5	1546.5	1609.0	1731.8	1879.6	2133.5	2406.2	2595.6	2566.4	2472.8
27.5°	1323.8	1311.3	1317.6	1328.0	1311.3	1280.1	1309.2	1303.0	1298.8	1373.8	1382.1
30°	972.0	974.1	984.5	1003.3	1042.8	1101.1	1163.5	1198.9	1230.1	1288.4	1280.1
32.5°	965.8	967.9	974.1	990.8	1011.6	1051.1	1090.7	1105.3	1138.6	1186.4	1171.9
35°	903.4	897.1	913.8	928.3	934.6	951.2	982.4	1003.3	1024.1	1057.4	1049.1
37.5°	801.4	803.4	836.7	859.6	865.9	888.8	917.9	934.6	957.5	986.6	972.0
40°	713.9	716.0	755.6	780.5	795.1	826.3	870.0	890.9	928.3	951.2	934.6
42.5°	614.0	622.4	649.4	678.6	686.9	705.6	734.8	761.8	809.7	840.9	830.5
45°	512.0	516.2	534.9	564.1	576.6	597.4	624.4	649.4	686.9	711.9	709.8
47.5°	451.7	455.8	472.5	497.5	522.4	549.5	578.6	603.6	639.0	659.8	651.5
50°	426.7	430.9	451.7	480.8	512.0	547.4	582.8	609.9	643.2	655.7	645.3
52.5°	430.9	430.9	460.0	497.5	541.2	589.1	632.8	666.1	693.1	701.4	678.6
55°	408.0	414.2	445.4	497.5	564.1	639.0	713.9	784.7	824.3	815.9	772.2
57.5°	372.6	378.8	401.7	457.9	528.7	618.2	724.3	811.8	859.6	865.9	822.2
60°	351.8	355.9	376.7	420.5	482.9	555.7	651.5	722.3	776.4	793.0	761.8
62.5°	333.0	337.2	353.8	387.2	432.9	489.1	543.3	589.1	632.8	649.4	636.9
65°	312.2	314.3	331.0	360.1	397.6	445.4	491.2	524.5	559.9	570.3	555.7
67.5°	291.4	293.5	308.1	335.1	370.5	414.2	449.6	487.1	522.4	530.8	520.4
70°	272.7	274.8	287.2	312.2	343.4	385.1	418.4	443.3	478.7	487.1	474.6
72.5°	253.9	256.0	268.5	291.4	320.5	358.0	387.2	412.1	441.3	443.3	432.9
75°	235.2	237.3	247.7	268.5	293.5	331.0	358.0	378.8	403.8	403.8	391.3
77.5°	214.4	218.6	226.9	245.6	268.5	303.9	328.9	349.7	370.5	368.4	355.9
80°	195.7	197.7	206.1	222.7	243.5	276.8	301.8	318.5	337.2	335.1	324.7
82.5°	174.8	176.9	183.2	199.8	218.6	249.8	274.8	291.4	308.1	303.9	293.5
85°	154.0	156.1	164.4	176.9	195.7	224.8	247.7	264.3	276.8	272.7	264.3
87.5°	137.4	137.4	143.6	156.1	172.8	199.8	220.6	237.3	247.7	245.6	237.3
90°	118.6	120.7	124.9	135.3	149.9	172.8	193.6	208.1	218.6	214.4	206.1
92.5°	104.1	104.1	108.2	118.6	131.1	151.9	170.7	183.2	191.5	189.4	183.2
95°	89.5	91.6	93.7	102.0	112.4	129.1	145.7	158.2	166.5	164.4	160.3
97.5°	79.1	81.2	83.3	87.4	97.8	108.2	122.8	133.2	141.5	139.5	135.3
100°	72.9	72.9	72.9	77.0	83.3	91.6	102.0	110.3	114.5	116.6	112.4
102.5°	66.6	66.6	68.7	68.7	72.9	77.0	83.3	89.5	91.6	91.6	91.6
105°	64.5	64.5	66.6	66.6	68.7	70.8	74.9	77.0	79.1	79.1	77.0
107.5°	64.5	64.5	64.5	64.5	66.6	68.7	70.8	72.9	72.9	72.9	70.8
110°	66.6	66.6	66.6	66.6	66.6	68.7	68.7	70.8	70.8	68.7	68.7



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CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	68.7	68.7	68.7	68.7	68.7	70.8	70.8	70.8	70.8	68.7	68.7
115°	72.9	72.9	72.9	74.9	74.9	74.9	74.9	74.9	74.9	72.9	70.8
117.5°	81.2	81.2	81.2	81.2	83.3	83.3	83.3	83.3	83.3	79.1	79.1
120°	91.6	89.5	91.6	93.7	95.7	95.7	95.7	95.7	95.7	91.6	89.5
122.5°	102.0	102.0	104.1	108.2	112.4	114.5	112.4	112.4	112.4	106.2	104.1
125°	114.5	114.5	120.7	129.1	135.3	137.4	135.3	135.3	135.3	129.1	124.9
127.5°	129.1	129.1	137.4	149.9	160.3	166.5	164.4	164.4	164.4	154.0	147.8
130°	143.6	143.6	156.1	172.8	189.4	193.6	195.7	197.7	197.7	185.2	176.9
132.5°	154.0	156.1	170.7	193.6	214.4	220.6	226.9	229.0	229.0	214.4	201.9
135°	164.4	166.5	185.2	212.3	235.2	249.8	256.0	258.1	260.2	243.5	229.0
137.5°	170.7	172.8	193.6	224.8	247.7	266.4	281.0	285.2	285.2	266.4	247.7
140°	170.7	172.8	195.7	224.8	249.8	272.7	289.3	297.6	297.6	278.9	262.3
142.5°	166.5	170.7	191.5	220.6	245.6	268.5	287.2	295.6	295.6	278.9	262.3
145°	158.2	160.3	181.1	206.1	231.0	258.1	278.9	287.2	287.2	270.6	253.9
147.5°	143.6	145.7	162.4	185.2	210.2	237.3	258.1	268.5	266.4	251.9	237.3
150°	124.9	124.9	139.5	158.2	183.2	208.1	229.0	239.4	239.4	224.8	212.3
152.5°	102.0	102.0	112.4	127.0	147.8	172.8	189.4	199.8	199.8	189.4	179.0
155°	79.1	79.1	87.4	97.8	114.5	133.2	145.7	156.1	156.1	147.8	139.5
157.5°	56.2	56.2	64.5	72.9	85.3	99.9	110.3	116.6	118.6	110.3	106.2
160°	37.5	37.5	41.6	47.9	58.3	68.7	74.9	81.2	83.3	77.0	74.9
162.5°	20.8	20.8	22.9	29.1	35.4	41.6	47.9	52.0	52.0	50.0	47.9
165°	6.2	6.2	8.3	10.4	14.6	18.7	20.8	22.9	25.0	25.0	22.9
167.5°	0.0	0.0	2.1	2.1	2.1	2.1	4.2	4.2	6.2	6.2	6.2
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	0.0	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8	4108.8
2.5°	3775.8	3892.3	4019.3	4142.1	4292.0	4448.1	4591.7	4689.5	4741.5	4758.2	4758.2
5°	3519.7	3625.9	3719.6	3836.1	4017.2	4252.4	4512.6	4729.1	4851.9	4866.4	4868.5
7.5°	3120.1	3207.5	3305.3	3409.4	3569.7	3779.9	4123.4	4473.0	4672.9	4710.3	4695.8
10°	2793.3	2847.4	2905.7	2945.3	3057.7	3213.8	3446.9	3790.3	4035.9	4065.1	4085.9
12.5°	2641.4	2649.7	2633.0	2641.4	2678.8	2751.7	2866.2	3063.9	3224.2	3251.2	3265.8
15°	2564.3	2522.7	2456.1	2393.7	2360.4	2366.6	2391.6	2472.8	2499.8	2545.6	2524.8
17.5°	2529.0	2435.3	2331.2	2210.5	2135.6	2058.6	2016.9	2002.4	1991.9	1994.0	2012.8
20°	2439.5	2333.3	2166.8	2008.6	1887.9	1781.7	1692.2	1627.7	1592.3	1575.7	1588.1
22.5°	2345.8	2181.4	1985.7	1815.0	1642.3	1507.0	1405.0	1311.3	1259.3	1273.8	1257.2
25°	2347.9	2102.3	1869.1	1644.3	1482.0	1303.0	1140.6	1042.8	957.5	974.1	997.0
27.5°	1479.9	1415.4	1248.9	1117.7	955.4	865.9	784.7	716.0	668.1	670.2	664.0
30°	1255.1	1188.5	1105.3	1001.2	878.4	774.3	680.6	601.5	555.7	543.3	541.2
32.5°	1159.4	1103.2	1026.2	924.2	811.8	707.7	614.0	541.2	495.4	493.3	493.3
35°	1032.4	980.4	915.8	828.4	732.7	636.9	549.5	487.1	449.6	449.6	447.5
37.5°	953.3	907.5	845.1	763.9	678.6	582.8	505.8	449.6	410.0	408.0	410.0
40°	911.7	863.8	803.4	726.4	641.1	549.5	476.7	418.4	389.2	387.2	385.1
42.5°	828.4	791.0	738.9	668.1	593.2	512.0	443.3	391.3	366.3	364.3	366.3
45°	703.5	676.5	641.1	589.1	526.6	457.9	397.6	358.0	333.0	333.0	333.0
47.5°	645.3	620.3	580.7	528.7	474.6	410.0	360.1	326.8	303.9	303.9	303.9
50°	630.7	599.5	547.4	489.1	430.9	374.7	328.9	295.6	278.9	276.8	278.9
52.5°	651.5	603.6	532.9	464.2	399.6	345.5	301.8	270.6	253.9	253.9	253.9
55°	726.4	639.0	545.3	457.9	380.9	320.5	276.8	245.6	229.0	226.9	229.0
57.5°	776.4	666.1	549.5	451.7	368.4	303.9	256.0	222.7	206.1	204.0	206.1
60°	732.7	643.2	530.8	435.0	358.0	291.4	241.4	208.1	191.5	189.4	189.4
62.5°	607.8	555.7	474.6	393.4	331.0	272.7	226.9	195.7	179.0	176.9	179.0
65°	539.1	493.3	422.5	358.0	303.9	253.9	214.4	187.3	170.7	170.7	170.7
67.5°	501.6	460.0	393.4	331.0	281.0	235.2	197.7	172.8	158.2	158.2	158.2
70°	457.9	416.3	355.9	299.7	253.9	214.4	181.1	156.1	143.6	141.5	143.6
72.5°	420.5	378.8	322.6	270.6	229.0	193.6	164.4	141.5	131.1	129.1	131.1
75°	378.8	339.3	285.2	239.4	204.0	172.8	147.8	127.0	118.6	116.6	116.6
77.5°	343.4	306.0	256.0	214.4	183.2	154.0	131.1	116.6	108.2	106.2	106.2
80°	312.2	276.8	229.0	191.5	162.4	137.4	118.6	104.1	95.7	95.7	95.7
82.5°	278.9	247.7	204.0	168.6	143.6	122.8	104.1	91.6	85.3	85.3	85.3
85°	251.9	220.6	179.0	149.9	124.9	106.2	91.6	81.2	74.9	74.9	74.9
87.5°	222.7	195.7	158.2	131.1	110.3	93.7	79.1	68.7	66.6	64.5	64.5
90°	193.6	168.6	135.3	112.4	93.7	79.1	66.6	58.3	56.2	54.1	54.1
92.5°	172.8	149.9	122.8	102.0	85.3	70.8	62.4	54.1	52.0	52.0	50.0
95°	149.9	131.1	108.2	91.6	77.0	66.6	58.3	52.0	50.0	50.0	47.9
97.5°	129.1	112.4	95.7	83.3	70.8	62.4	54.1	50.0	45.8	45.8	45.8
100°	108.2	95.7	83.3	70.8	64.5	56.2	50.0	45.8	43.7	41.6	41.6
102.5°	87.4	79.1	68.7	62.4	54.1	47.9	43.7	39.5	37.5	37.5	37.5
105°	74.9	68.7	62.4	56.2	50.0	43.7	39.5	35.4	33.3	33.3	33.3
107.5°	68.7	64.5	58.3	52.0	47.9	41.6	37.5	31.2	29.1	31.2	31.2
110°	66.6	62.4	56.2	52.0	45.8	41.6	37.5	29.1	27.1	29.1	29.1



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	66.6	62.4	58.3	52.0	47.9	41.6	37.5	29.1	27.1	27.1	27.1
115°	68.7	66.6	60.4	56.2	50.0	43.7	37.5	29.1	27.1	27.1	27.1
117.5°	77.0	72.9	66.6	60.4	54.1	45.8	39.5	29.1	27.1	27.1	27.1
120°	85.3	81.2	74.9	66.6	58.3	50.0	41.6	29.1	25.0	27.1	27.1
122.5°	99.9	93.7	85.3	74.9	64.5	54.1	41.6	31.2	22.9	27.1	27.1
125°	118.6	110.3	97.8	83.3	70.8	58.3	43.7	31.2	25.0	27.1	27.1
127.5°	139.5	129.1	112.4	93.7	77.0	60.4	45.8	31.2	25.0	25.0	27.1
130°	166.5	149.9	127.0	104.1	83.3	64.5	45.8	31.2	25.0	25.0	25.0
132.5°	189.4	168.6	139.5	112.4	87.4	66.6	45.8	31.2	22.9	22.9	22.9
135°	212.3	185.2	149.9	118.6	91.6	66.6	45.8	29.1	22.9	22.9	22.9
137.5°	231.0	195.7	158.2	120.7	91.6	64.5	43.7	27.1	20.8	20.8	20.8
140°	241.4	201.9	160.3	120.7	87.4	62.4	39.5	25.0	18.7	18.7	18.7
142.5°	241.4	199.8	158.2	116.6	83.3	58.3	35.4	20.8	16.7	16.7	16.7
145°	233.1	191.5	149.9	110.3	77.0	52.0	31.2	18.7	12.5	12.5	14.6
147.5°	218.6	176.9	137.4	99.9	68.7	43.7	27.1	14.6	10.4	10.4	10.4
150°	193.6	156.1	118.6	87.4	58.3	37.5	22.9	12.5	8.3	8.3	8.3
152.5°	162.4	129.1	99.9	72.9	47.9	29.1	16.7	10.4	6.2	6.2	6.2
155°	129.1	102.0	79.1	56.2	35.4	22.9	12.5	8.3	6.2	6.2	6.2
157.5°	95.7	77.0	58.3	41.6	27.1	16.7	10.4	6.2	4.2	4.2	4.2
160°	66.6	54.1	39.5	27.1	16.7	10.4	6.2	4.2	2.1	2.1	2.1
162.5°	43.7	33.3	25.0	16.7	10.4	6.2	4.2	2.1	2.1	2.1	2.1
165°	20.8	16.7	12.5	8.3	4.2	4.2	2.1	2.1	0.0	0.0	0.0
167.5°	6.2	4.2	2.1	2.1	2.1	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	0.0	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)