

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: P691429

Luminaire Tested: **CRTK2-C016-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-16)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4767 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

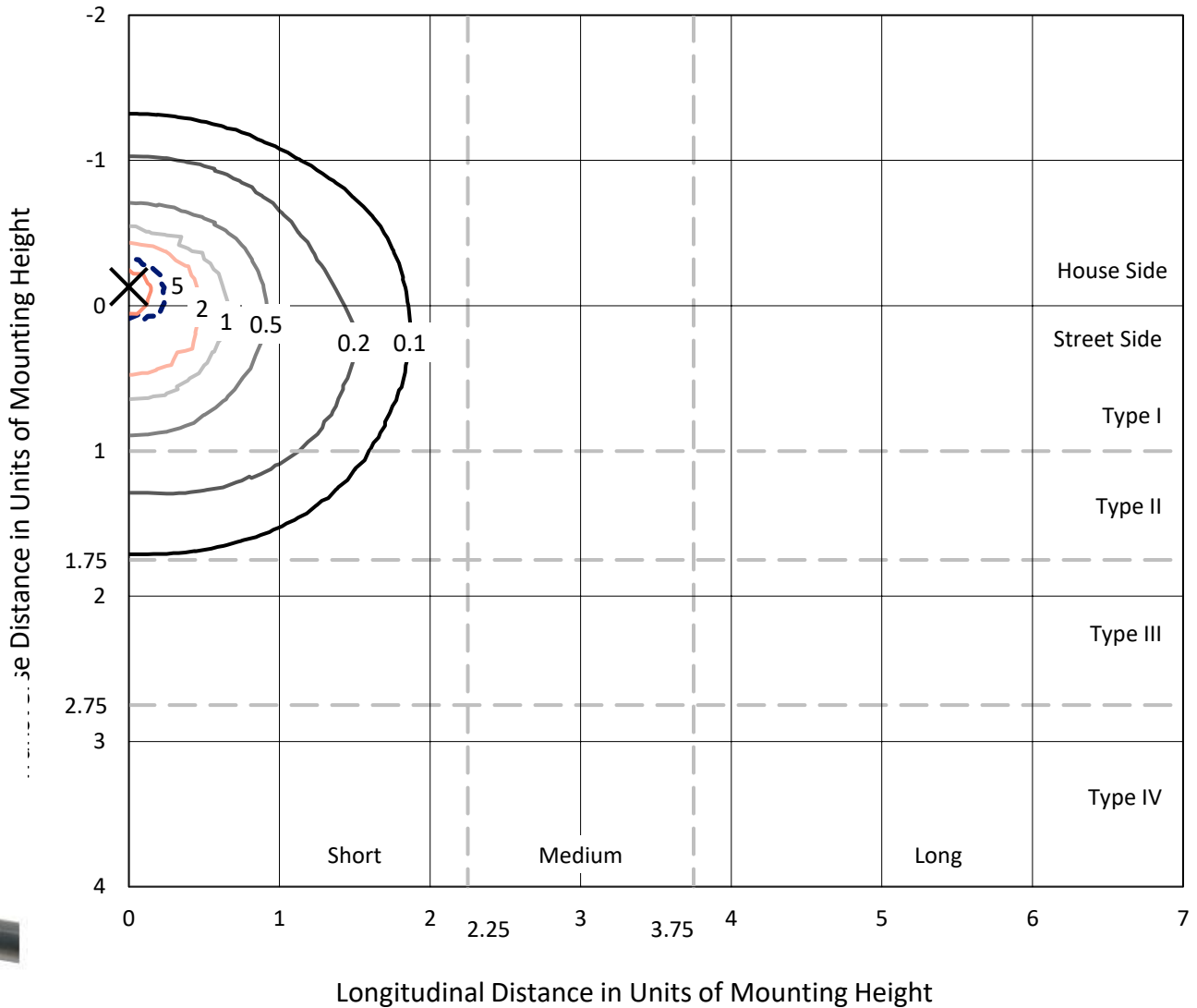
Input Watts (W): 42.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

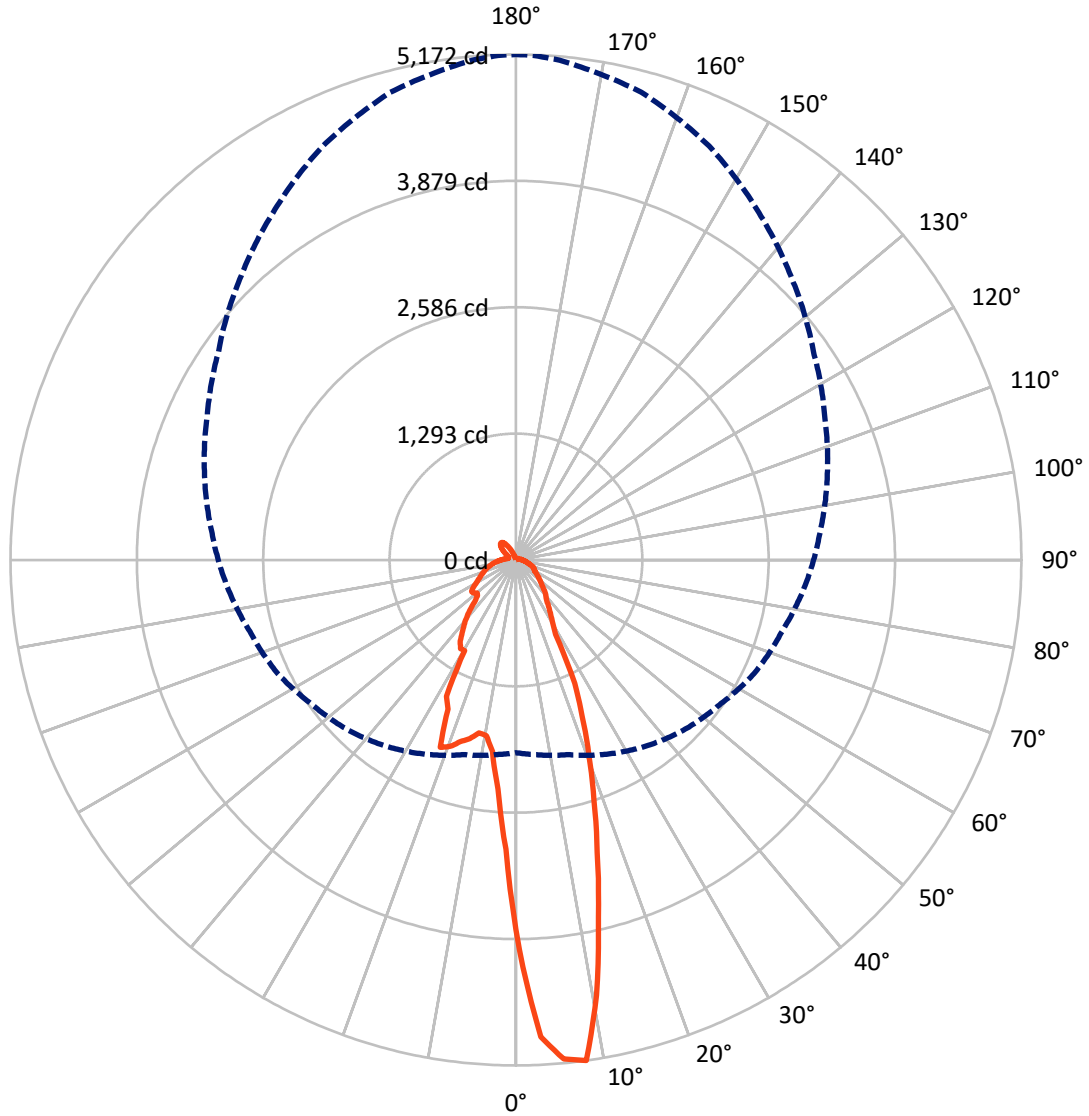
✕ Max cd
 - - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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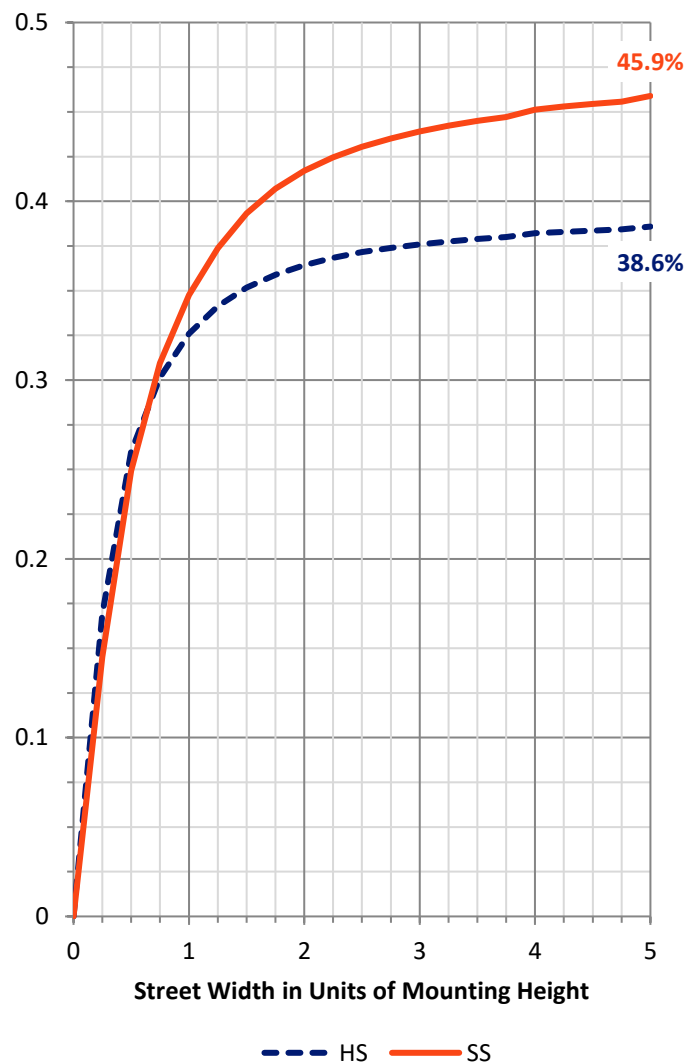
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1887.3	196.8	2084.2
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2250.6	432.2	2682.8
	% Fixture	47.2	9.1	56.3
Total	Lumens	4138.0	629.0	4767.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	6.7
10°-20°	683.3	14.3
20°-30°	754.5	15.8
30°-40°	547.2	11.5
40°-50°	461.0	9.7
50°-60°	470.6	9.9
60°-70°	401.1	8.4
70°-80°	299.0	6.3
80°-90°	201.8	4.2
90°-100°	120.6	2.5
100°-110°	69.4	1.5
110°-120°	64.9	1.4
120°-130°	94.5	2.0
130°-140°	128.4	2.7
140°-150°	104.5	2.2
150°-160°	41.7	0.9
160°-170°	5.1	0.1
170°-180°	0.0	0.0
0°-90°	4138.0	86.8
0°-180°	4767.0	100.0

Coefficient of Utilization



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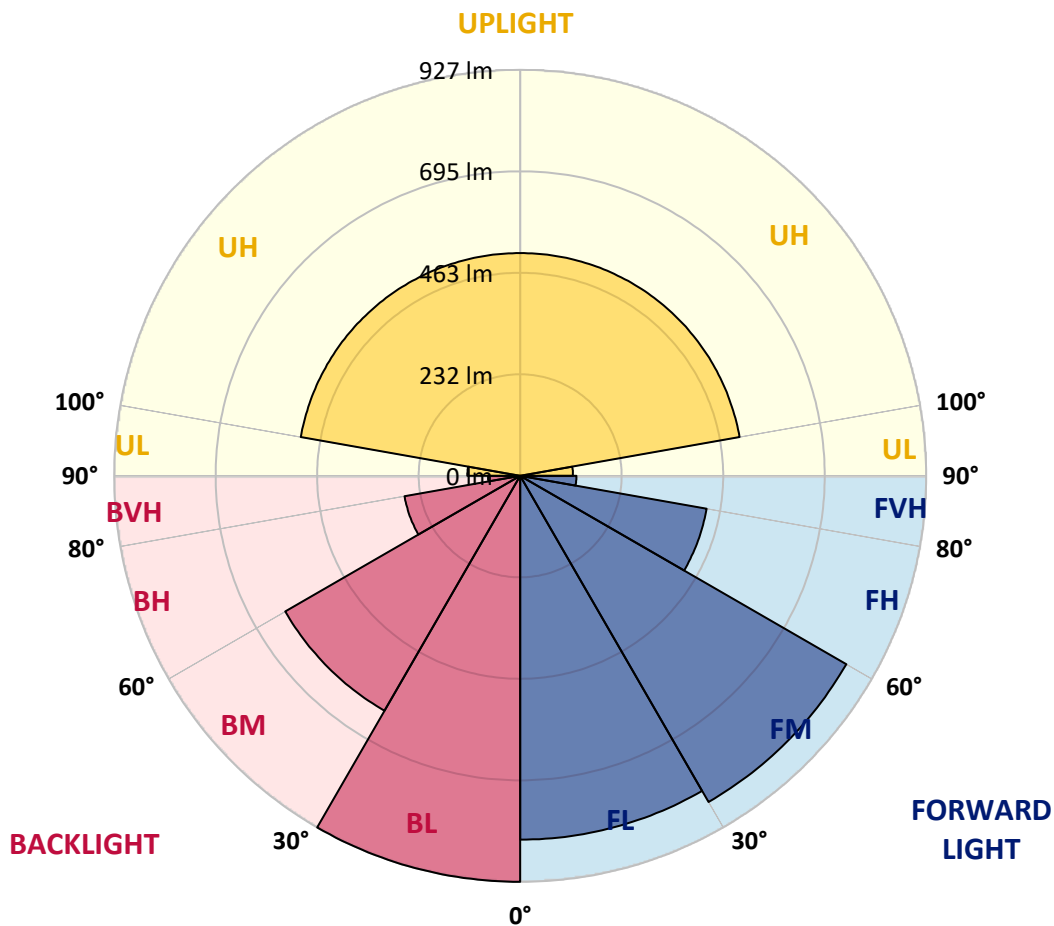
CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.4	17.4			
FM (30°-60°)	859.7	18.0			
FH (60°-80°)	432.1	9.1			G0/660
FVH (80°-90°)	128.4	2.7			G2/225
BL (0°-30°)	926.7	19.4	B2/1000		
BM (30°-60°)	619.2	13.0	B1/1000		
BH (60°-80°)	268.0	5.6	B1/500		G1/500
BVH (80°-90°)	73.4	1.5			G1/100
UL (90°-100°)	120.6	2.5		U3/500	
UH (100°-180°)	508.4	10.7		U4/1000	

BUG Rating: B2-U4-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1
2.5°	2958.4	3027.0	3033.3	3108.2	3164.4	3216.4	3253.8	3362.0	3472.3	3576.3	3636.6
5°	2348.8	2382.1	2442.4	2523.6	2627.6	2708.7	2825.2	2977.1	3122.7	3305.8	3395.3
7.5°	1972.3	1997.2	2061.7	2192.8	2323.9	2448.7	2561.0	2706.7	2819.0	2970.9	3045.8
10°	1822.5	1837.0	1891.1	1982.7	2107.5	2211.5	2309.3	2419.6	2519.4	2658.8	2712.9
12.5°	1807.9	1814.1	1857.8	1922.3	1995.1	2080.4	2161.6	2255.2	2361.3	2471.6	2513.2
15°	1887.0	1882.8	1897.4	1934.8	1976.4	2043.0	2117.9	2203.2	2305.1	2386.3	2419.6
17.5°	1943.1	1941.1	1968.1	1984.7	2024.3	2063.8	2138.7	2205.3	2305.1	2369.6	2388.3
20°	2024.3	2028.4	2036.8	2068.0	2084.6	2111.6	2157.4	2196.9	2282.2	2319.7	2315.5
22.5°	2068.0	2065.9	2101.2	2174.1	2192.8	2207.3	2215.7	2232.3	2280.2	2278.1	2246.9
25°	1676.8	1681.0	1689.3	1751.7	1830.8	1959.8	2065.9	2232.3	2321.8	2288.5	2221.9
27.5°	1566.6	1554.1	1510.4	1475.0	1368.9	1298.2	1231.6	1202.5	1217.1	1242.0	1310.7
30°	1067.3	1069.3	1073.5	1079.7	1090.2	1117.2	1135.9	1138.0	1152.6	1194.2	1179.6
32.5°	1069.3	1071.4	1065.2	1071.4	1067.3	1077.7	1075.6	1067.3	1079.7	1117.2	1102.6
35°	1004.9	1000.7	1004.9	1006.9	984.0	975.7	973.6	967.4	975.7	994.5	982.0
37.5°	905.0	902.9	921.6	932.0	913.3	913.3	909.2	900.8	907.1	923.7	907.1
40°	817.6	819.7	846.7	863.4	857.1	863.4	869.6	867.5	882.1	888.3	867.5
42.5°	721.9	717.8	744.8	757.3	744.8	749.0	746.9	749.0	778.1	790.6	776.0
45°	603.3	609.6	622.1	638.7	636.6	642.9	640.8	644.9	663.7	669.9	659.5
47.5°	536.8	540.9	555.5	574.2	584.6	595.0	595.0	597.1	609.6	611.7	601.2
50°	522.2	526.4	545.1	565.9	582.5	595.0	601.2	599.2	605.4	601.2	586.7
52.5°	547.2	547.2	576.3	601.2	622.1	644.9	653.3	644.9	644.9	628.3	605.4
55°	557.6	559.6	595.0	638.7	678.2	719.8	746.9	744.8	742.7	715.7	674.1
57.5°	524.3	530.5	565.9	615.8	669.9	736.5	776.0	782.2	782.2	746.9	701.1
60°	476.4	480.6	507.6	549.2	603.3	653.3	694.9	699.0	711.5	692.8	651.2
62.5°	436.9	441.1	463.9	495.1	534.7	565.9	578.4	578.4	584.6	578.4	549.2
65°	407.8	409.8	428.6	455.6	482.7	507.6	520.1	515.9	524.3	515.9	493.1
67.5°	380.7	380.7	397.4	418.2	443.1	472.3	480.6	484.7	493.1	482.7	461.9
70°	353.7	355.8	372.4	389.0	411.9	432.7	441.1	443.1	453.5	441.1	426.5
72.5°	330.8	330.8	345.4	362.0	378.6	399.4	405.7	409.8	416.1	403.6	391.1
75°	303.7	305.8	318.3	332.9	347.4	368.2	374.5	376.6	382.8	368.2	355.8
77.5°	278.8	280.9	291.3	303.7	318.3	335.0	341.2	345.4	347.4	335.0	322.5
80°	253.8	255.9	264.2	276.7	289.2	305.8	310.0	312.1	316.2	301.7	293.3
82.5°	230.9	230.9	237.2	247.6	260.1	274.6	280.9	282.9	285.0	272.5	264.2
85°	203.9	203.9	210.1	220.5	230.9	245.5	251.7	253.8	253.8	243.4	235.1
87.5°	181.0	181.0	185.2	193.5	201.8	216.4	222.6	226.8	224.7	216.4	208.0
90°	158.1	158.1	162.3	168.5	176.8	189.3	195.6	197.6	197.6	187.2	181.0
92.5°	137.3	137.3	141.5	147.7	154.0	164.4	170.6	174.8	174.8	166.4	160.2
95°	118.6	118.6	120.7	126.9	133.1	141.5	145.6	149.8	149.8	145.6	139.4
97.5°	101.9	101.9	104.0	108.2	112.3	118.6	122.7	126.9	126.9	124.8	120.7
100°	89.5	89.5	89.5	91.5	95.7	97.8	101.9	106.1	106.1	104.0	101.9
102.5°	81.1	81.1	81.1	81.1	81.1	83.2	83.2	85.3	85.3	85.3	83.2
105°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	74.9	72.8	70.7
107.5°	77.0	74.9	74.9	74.9	74.9	72.8	72.8	72.8	70.7	68.7	66.6
110°	77.0	77.0	77.0	77.0	74.9	72.8	72.8	70.7	68.7	66.6	64.5



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CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	81.1	81.1	81.1	79.1	77.0	77.0	74.9	72.8	70.7	66.6	64.5
115°	87.4	87.4	87.4	87.4	85.3	81.1	79.1	77.0	72.8	70.7	68.7
117.5°	97.8	97.8	97.8	97.8	93.6	91.5	87.4	85.3	81.1	77.0	74.9
120°	110.3	110.3	112.3	112.3	110.3	106.1	99.9	97.8	93.6	87.4	83.2
122.5°	129.0	126.9	131.1	131.1	131.1	126.9	118.6	114.4	110.3	101.9	97.8
125°	147.7	147.7	151.9	156.0	158.1	151.9	143.6	137.3	131.1	120.7	114.4
127.5°	168.5	168.5	176.8	185.2	189.3	183.1	172.7	166.4	158.1	143.6	135.2
130°	189.3	189.3	201.8	214.3	220.5	216.4	206.0	197.6	187.2	168.5	158.1
132.5°	208.0	208.0	222.6	239.3	247.6	245.5	235.1	226.8	218.4	195.6	181.0
135°	222.6	224.7	243.4	262.1	272.5	274.6	264.2	253.8	243.4	218.4	201.8
137.5°	230.9	235.1	253.8	276.7	287.1	293.3	287.1	276.7	264.2	237.2	218.4
140°	233.0	235.1	255.9	278.8	289.2	297.5	297.5	285.0	274.6	247.6	226.8
142.5°	226.8	228.8	249.7	270.5	280.9	291.3	293.3	282.9	272.5	247.6	226.8
145°	212.2	216.4	235.1	251.7	266.3	276.7	280.9	274.6	262.1	239.3	220.5
147.5°	193.5	195.6	212.2	226.8	241.3	253.8	260.1	253.8	243.4	222.6	206.0
150°	164.4	166.4	178.9	191.4	208.0	220.5	228.8	224.7	216.4	199.7	183.1
152.5°	133.1	133.1	143.6	154.0	168.5	181.0	189.3	187.2	181.0	166.4	154.0
155°	101.9	101.9	108.2	116.5	129.0	137.3	145.6	145.6	141.5	131.1	120.7
157.5°	72.8	72.8	79.1	85.3	93.6	101.9	108.2	108.2	106.1	97.8	91.5
160°	47.9	47.9	52.0	56.2	64.5	68.7	74.9	74.9	72.8	68.7	64.5
162.5°	25.0	25.0	29.1	31.2	37.4	41.6	45.8	47.9	47.9	43.7	41.6
165°	8.3	8.3	8.3	10.4	14.6	18.7	20.8	22.9	22.9	20.8	20.8
167.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	6.2	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°	178°	180°
0°	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1
2.5°	3701.1	3890.4	4052.7	4223.3	4412.6	4572.8	4735.1	4824.5	4901.5	4887.0	4887.0
5°	3482.7	3672.0	3869.6	4077.7	4333.6	4595.7	4845.4	5024.3	5117.9	5132.5	5130.4
7.5°	3120.7	3297.5	3484.7	3715.7	4015.3	4335.6	4674.8	4955.6	5132.5	5165.7	5172.0
10°	2762.8	2896.0	3054.1	3212.2	3480.6	3773.9	4077.7	4302.4	4475.0	4500.0	4529.1
12.5°	2548.5	2621.4	2723.3	2833.6	3008.3	3222.6	3472.3	3601.2	3711.5	3724.0	3751.0
15°	2438.3	2473.6	2498.6	2538.1	2642.2	2775.3	2889.7	3016.6	3062.4	3093.6	3108.2
17.5°	2394.6	2390.4	2365.5	2365.5	2373.8	2423.7	2496.5	2540.2	2569.3	2583.9	2588.1
20°	2305.1	2267.7	2217.8	2151.2	2115.8	2099.2	2117.9	2128.3	2120.0	2109.6	2128.3
22.5°	2211.5	2132.5	2043.0	1966.0	1874.5	1818.3	1764.2	1745.5	1722.6	1737.2	1737.2
25°	2182.4	2043.0	1899.4	1770.5	1633.1	1539.5	1439.7	1404.3	1368.9	1398.1	1398.1
27.5°	1289.9	1289.9	1208.7	1100.6	982.0	932.0	892.5	869.6	855.1	861.3	861.3
30°	1154.6	1100.6	1050.6	982.0	890.4	830.1	778.1	746.9	732.3	728.2	732.3
32.5°	1071.4	1029.8	969.5	900.8	819.7	753.1	694.9	663.7	640.8	644.9	647.0
35°	959.1	915.4	863.4	798.9	730.2	667.8	615.8	584.6	563.8	563.8	565.9
37.5°	888.3	844.7	794.7	736.5	669.9	609.6	561.7	524.3	505.5	503.5	503.5
40°	844.7	801.0	755.2	696.9	634.5	572.1	524.3	491.0	468.1	468.1	470.2
42.5°	765.6	724.0	684.5	632.5	576.3	522.2	476.4	447.3	424.4	420.2	424.4
45°	644.9	622.1	590.8	555.5	507.6	463.9	422.3	397.4	378.6	378.6	376.6
47.5°	590.8	568.0	534.7	499.3	459.8	416.1	382.8	359.9	343.3	343.3	343.3
50°	570.0	545.1	503.5	463.9	418.2	380.7	351.6	328.7	316.2	316.2	314.1
52.5°	580.4	540.9	486.8	430.7	387.0	349.5	320.4	297.5	287.1	287.1	285.0
55°	636.6	565.9	486.8	418.2	366.2	324.5	295.4	270.5	260.1	260.1	260.1
57.5°	659.5	580.4	482.7	405.7	347.4	303.7	268.4	245.5	235.1	235.1	233.0
60°	617.9	551.3	461.9	389.0	332.9	289.2	255.9	233.0	220.5	220.5	218.4
62.5°	526.4	478.5	409.8	355.8	312.1	272.5	243.4	220.5	210.1	210.1	210.1
65°	472.3	430.7	376.6	328.7	289.2	255.9	228.8	210.1	199.7	199.7	199.7
67.5°	441.1	405.7	351.6	305.8	266.3	235.1	210.1	193.5	185.2	183.1	185.2
70°	407.8	370.3	320.4	276.7	241.3	212.2	189.3	172.7	164.4	164.4	164.4
72.5°	372.4	337.0	289.2	249.7	214.3	191.4	168.5	154.0	145.6	145.6	143.6
75°	339.1	303.7	258.0	220.5	191.4	168.5	149.8	137.3	129.0	129.0	129.0
77.5°	307.9	274.6	230.9	197.6	170.6	151.9	133.1	122.7	116.5	116.5	114.4
80°	278.8	247.6	206.0	176.8	151.9	135.2	118.6	110.3	104.0	104.0	104.0
82.5°	249.7	220.5	183.1	156.0	135.2	118.6	106.1	97.8	93.6	91.5	93.6
85°	222.6	195.6	162.3	137.3	118.6	104.0	93.6	85.3	81.1	81.1	81.1
87.5°	197.6	172.7	143.6	120.7	104.0	91.5	81.1	74.9	72.8	70.7	70.7
90°	170.6	147.7	122.7	104.0	89.5	79.1	68.7	64.5	60.3	60.3	60.3
92.5°	151.9	133.1	110.3	93.6	81.1	72.8	64.5	60.3	56.2	56.2	56.2
95°	133.1	116.5	97.8	85.3	74.9	66.6	60.3	56.2	54.1	54.1	54.1
97.5°	114.4	101.9	87.4	77.0	68.7	62.4	56.2	52.0	49.9	49.9	49.9
100°	95.7	87.4	77.0	68.7	62.4	56.2	49.9	47.9	45.8	45.8	45.8
102.5°	79.1	72.8	64.5	58.3	52.0	47.9	43.7	41.6	39.5	39.5	39.5
105°	68.7	64.5	58.3	52.0	47.9	43.7	39.5	35.4	35.4	35.4	35.4
107.5°	64.5	58.3	54.1	49.9	45.8	39.5	37.4	33.3	31.2	31.2	31.2
110°	62.4	58.3	54.1	47.9	43.7	39.5	35.4	31.2	29.1	29.1	29.1



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	62.4	58.3	54.1	49.9	45.8	39.5	37.4	29.1	27.0	27.0	27.0
115°	66.6	62.4	56.2	52.0	45.8	41.6	37.4	29.1	27.0	27.0	27.0
117.5°	70.7	66.6	60.3	56.2	49.9	43.7	37.4	29.1	27.0	27.0	27.0
120°	81.1	74.9	66.6	60.3	54.1	45.8	39.5	29.1	25.0	27.0	27.0
122.5°	91.5	85.3	74.9	66.6	58.3	49.9	39.5	29.1	25.0	27.0	27.0
125°	108.2	97.8	85.3	74.9	62.4	52.0	41.6	29.1	22.9	25.0	27.0
127.5°	126.9	114.4	97.8	83.2	68.7	54.1	41.6	29.1	22.9	25.0	25.0
130°	147.7	131.1	110.3	89.5	72.8	56.2	41.6	29.1	22.9	25.0	25.0
132.5°	168.5	145.6	120.7	97.8	77.0	58.3	41.6	27.0	22.9	22.9	22.9
135°	185.2	158.1	129.0	101.9	79.1	58.3	39.5	27.0	20.8	20.8	20.8
137.5°	199.7	168.5	135.2	104.0	79.1	56.2	37.4	25.0	18.7	18.7	18.7
140°	208.0	172.7	137.3	101.9	74.9	54.1	35.4	22.9	16.6	16.6	16.6
142.5°	208.0	170.6	133.1	99.9	70.7	49.9	31.2	18.7	14.6	14.6	14.6
145°	199.7	162.3	126.9	93.6	64.5	43.7	27.0	16.6	12.5	12.5	12.5
147.5°	187.2	149.8	116.5	85.3	58.3	37.4	22.9	14.6	10.4	10.4	10.4
150°	166.4	133.1	101.9	72.8	49.9	31.2	18.7	12.5	8.3	8.3	8.3
152.5°	139.4	110.3	85.3	60.3	41.6	25.0	16.6	8.3	6.2	6.2	6.2
155°	110.3	87.4	66.6	47.9	31.2	18.7	12.5	8.3	4.2	4.2	4.2
157.5°	83.2	64.5	49.9	35.4	22.9	14.6	8.3	6.2	4.2	4.2	4.2
160°	58.3	45.8	33.3	22.9	14.6	10.4	6.2	4.2	2.1	2.1	2.1
162.5°	37.4	29.1	20.8	14.6	8.3	6.2	4.2	2.1	2.1	2.1	0.0
165°	18.7	14.6	10.4	6.2	4.2	2.1	2.1	2.1	0.0	0.0	0.0
167.5°	4.2	4.2	4.2	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)