

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: P691474

Luminaire Tested: **CRTK2-C016-D-U-T2-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-D-U-T2-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4742 lumens
Efficiency: N/A
Efficacy: 114.0 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): 41.6
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



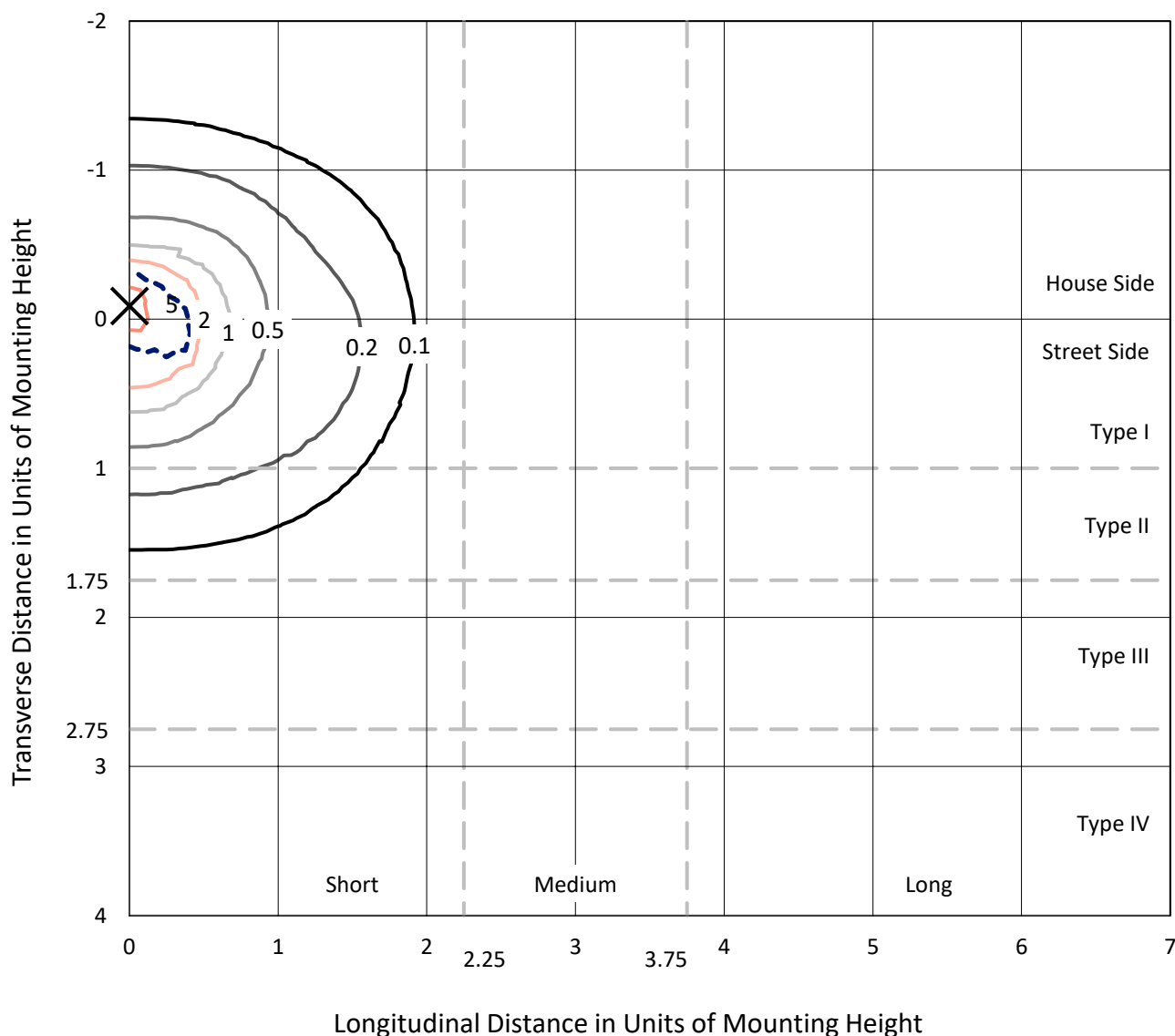
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

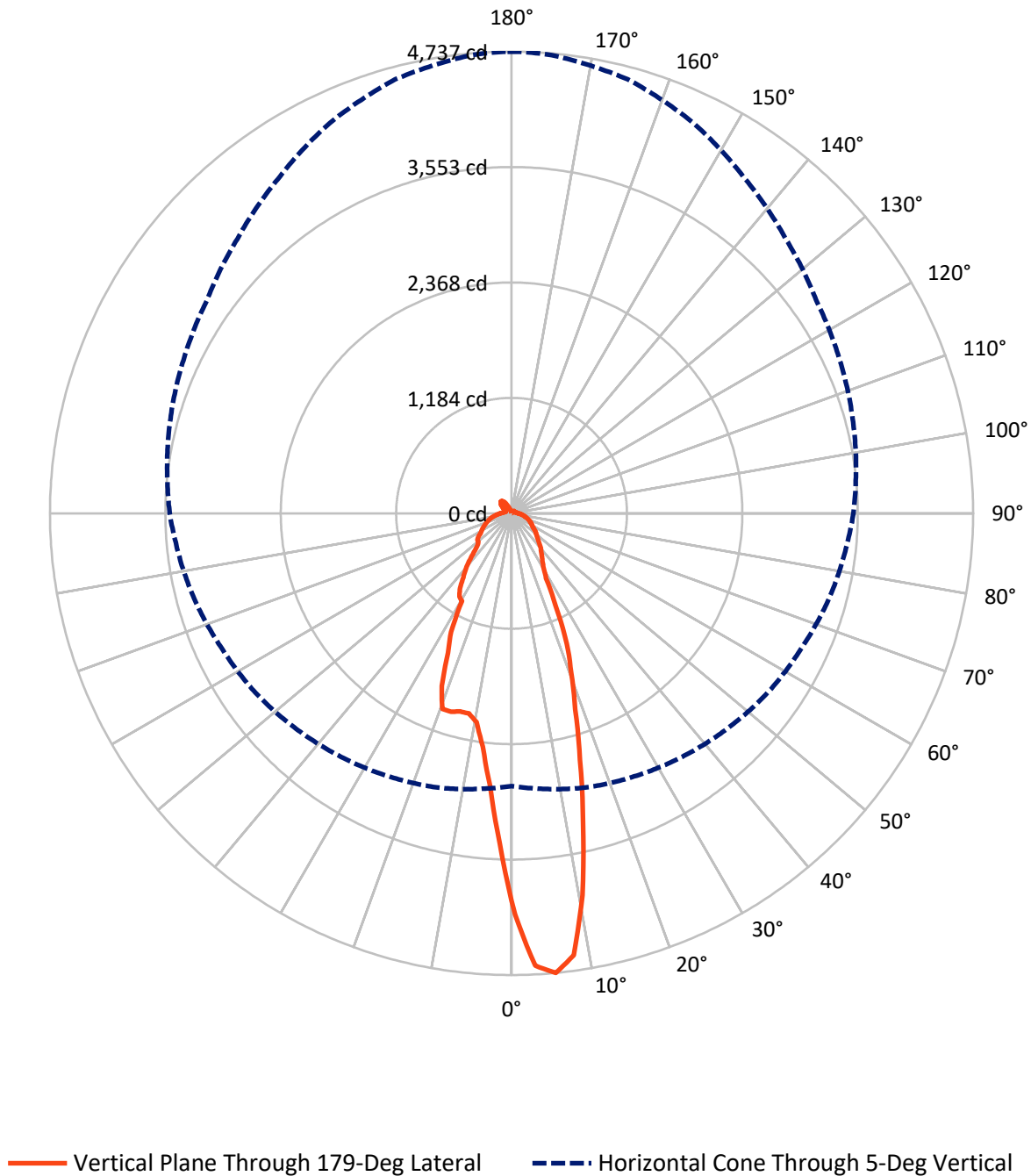


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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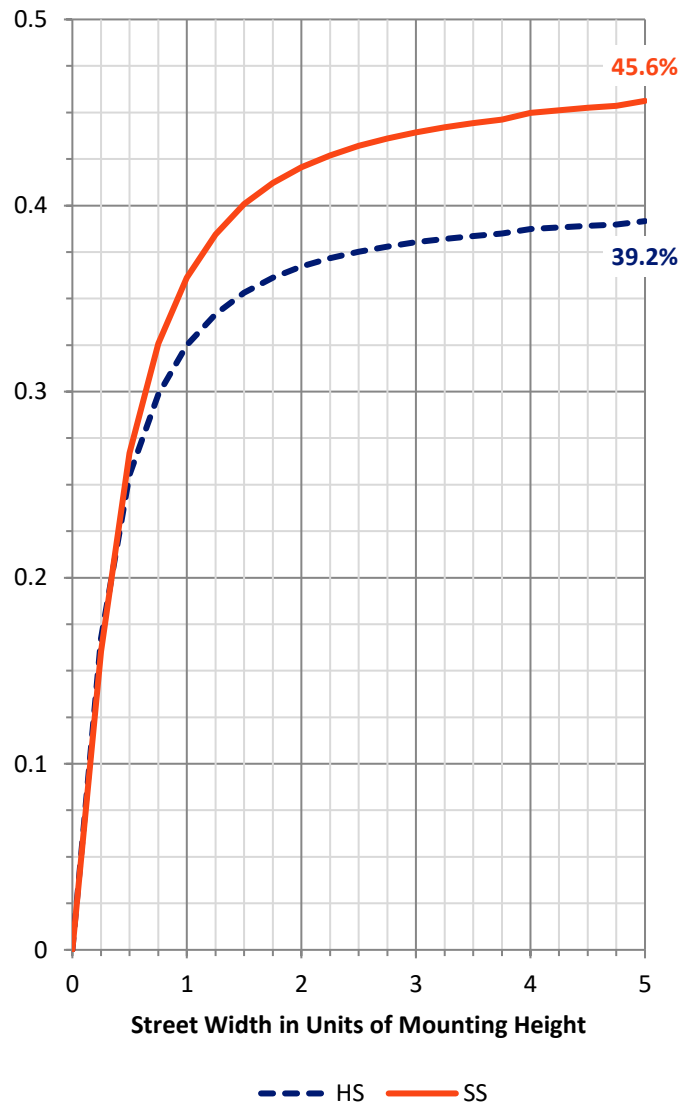
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1908.2	232.0	2140.2
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	2214.9	386.9	2601.8
	% Fixture	46.7	8.2	54.9
Total	Lumens	4123.1	618.9	4742.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.7	6.8
10°-20°	686.4	14.5
20°-30°	745.6	15.7
30°-40°	551.9	11.6
40°-50°	462.2	9.7
50°-60°	464.7	9.8
60°-70°	395.6	8.3
70°-80°	295.5	6.2
80°-90°	199.5	4.2
90°-100°	119.2	2.5
100°-110°	68.9	1.5
110°-120°	63.4	1.3
120°-130°	91.7	1.9
130°-140°	125.5	2.6
140°-150°	103.4	2.2
150°-160°	41.6	0.9
160°-170°	5.1	0.1
170°-180°	0.0	0.0
0°-90°	4123.1	86.9
0°-180°	4742.0	100.0

Coefficient of Utilization



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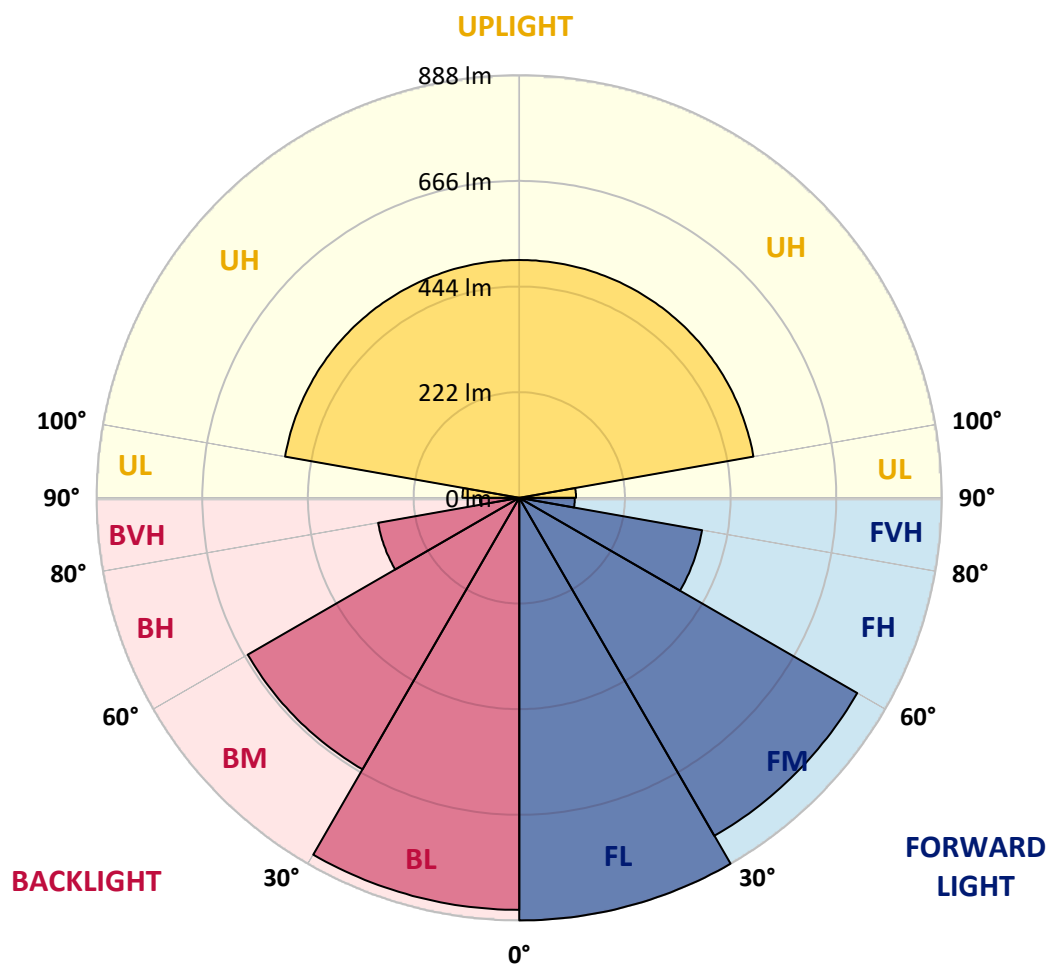
CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	888.0	18.7			
FM	(30°-60°)	820.1	17.3			
FH	(60°-80°)	390.0	8.2			G0/660
FVH	(80°-90°)	116.8	2.5			G2/225
BL	(0°-30°)	865.7	18.3	B2/1000		
BM	(30°-60°)	658.7	13.9	B1/1000		
BH	(60°-80°)	301.1	6.3	B1/500		G1/500
BVH	(80°-90°)	82.7	1.7			G1/100
UL	(90°-100°)	119.2	2.5		U3/500	
UH	(100°-180°)	499.7	10.5		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°	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9
2.5°	3392.3	3411.3	3453.2	3474.1	3495.0	3521.6	3561.5	3592.0	3662.3	3727.0	3753.6
5°	2799.0	2833.3	2913.1	2977.8	3050.0	3126.1	3207.9	3280.1	3373.3	3458.9	3508.3
7.5°	2405.4	2433.9	2529.0	2654.5	2781.9	2888.4	2972.1	3027.2	3069.1	3103.3	3139.4
10°	2165.8	2190.5	2285.6	2397.8	2506.2	2605.1	2675.4	2728.7	2743.9	2778.1	2795.2
12.5°	2097.4	2108.8	2175.3	2253.3	2319.9	2416.8	2500.5	2557.5	2582.3	2612.7	2622.2
15°	2099.3	2099.3	2137.3	2186.7	2247.6	2321.8	2414.9	2483.4	2519.5	2536.6	2534.7
17.5°	2127.8	2125.9	2143.0	2182.9	2234.3	2308.4	2403.5	2473.9	2515.7	2521.4	2515.7
20°	2127.8	2129.7	2135.4	2181.0	2230.5	2297.0	2394.0	2453.0	2485.3	2468.2	2449.2
22.5°	1911.0	1909.1	1958.6	2055.5	2188.6	2327.5	2414.9	2487.2	2494.8	2432.0	2380.7
25°	1578.3	1564.9	1593.5	1637.2	1726.6	1888.2	2070.8	2344.6	2508.1	2472.0	2394.0
27.5°	1369.1	1352.0	1376.7	1357.7	1348.2	1336.8	1325.4	1293.0	1313.9	1333.0	1416.6
30°	1032.5	1036.3	1042.0	1053.4	1076.3	1121.9	1169.4	1198.0	1222.7	1272.1	1266.4
32.5°	1009.7	1007.8	1009.7	1021.1	1032.5	1061.0	1089.6	1104.8	1123.8	1171.3	1159.9
35°	933.6	929.8	943.2	948.9	947.0	954.6	983.1	1000.2	1017.3	1047.7	1036.3
37.5°	821.5	825.3	853.8	869.0	874.7	891.8	914.6	929.8	950.8	973.6	967.9
40°	737.8	735.9	766.3	787.2	800.5	827.2	861.4	884.2	918.4	937.4	924.1
42.5°	635.1	642.7	665.5	686.4	690.3	703.6	734.0	760.6	802.4	831.0	823.4
45°	534.3	540.0	559.0	576.2	589.5	606.6	629.4	652.2	686.4	709.3	707.4
47.5°	471.6	477.3	492.5	513.4	532.4	557.1	580.0	602.8	635.1	652.2	646.5
50°	446.9	450.7	467.8	490.6	519.1	549.5	580.0	604.7	635.1	646.5	637.0
52.5°	445.0	445.0	465.9	500.1	540.0	581.9	621.8	656.0	684.5	684.5	665.5
55°	418.3	422.1	448.8	494.4	555.2	623.7	694.1	758.7	796.7	789.1	753.0
57.5°	380.3	382.2	410.7	454.5	519.1	602.8	697.9	779.6	825.3	834.8	796.7
60°	357.5	359.4	378.4	420.2	475.4	541.9	629.4	694.1	739.7	768.2	737.8
62.5°	338.5	338.5	357.5	386.0	431.6	481.1	530.5	574.3	610.4	631.3	614.2
65°	317.6	317.6	330.9	357.5	393.6	441.2	479.2	511.5	543.8	559.0	543.8
67.5°	296.6	296.6	309.9	334.7	367.0	406.9	445.0	475.4	507.7	519.1	507.7
70°	275.7	275.7	289.0	309.9	340.4	378.4	406.9	439.3	469.7	477.3	467.8
72.5°	254.8	254.8	268.1	287.1	313.8	349.9	376.5	401.2	429.7	435.4	425.9
75°	235.8	235.8	245.3	264.3	289.0	321.4	348.0	370.8	393.6	393.6	386.0
77.5°	214.9	216.8	224.4	241.5	264.3	294.7	319.5	340.4	359.4	359.4	349.9
80°	194.0	195.9	203.5	218.7	239.6	268.1	290.9	309.9	327.1	327.1	317.6
82.5°	173.0	174.9	182.5	195.9	214.9	241.5	264.3	283.3	298.5	296.6	287.1
85°	154.0	155.9	161.6	173.0	190.2	216.8	237.7	254.8	268.1	266.2	258.6
87.5°	135.0	136.9	142.6	152.1	167.3	192.1	213.0	228.2	239.6	237.7	230.1
90°	117.9	117.9	123.6	133.1	146.4	167.3	186.3	199.7	211.1	207.3	199.7
92.5°	102.7	104.6	108.4	116.0	127.4	146.4	163.5	174.9	186.3	184.4	176.8
95°	91.3	91.3	95.1	100.8	110.3	125.5	142.6	152.1	159.7	159.7	154.0
97.5°	79.9	81.8	83.7	87.5	95.1	106.5	119.8	129.3	135.0	135.0	131.2
100°	72.3	74.2	74.2	78.0	81.8	89.4	98.9	106.5	112.2	112.2	110.3
102.5°	68.5	68.5	68.5	70.4	72.3	76.1	81.8	85.6	89.4	91.3	89.4
105°	64.7	64.7	64.7	66.6	66.6	70.4	72.3	76.1	78.0	78.0	76.1
107.5°	62.8	62.8	64.7	64.7	64.7	66.6	70.4	70.4	72.3	70.4	70.4
110°	64.7	64.7	64.7	64.7	64.7	66.6	68.5	68.5	68.5	68.5	66.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	66.6	66.6	66.6	66.6	68.5	68.5	68.5	70.4	70.4	68.5	68.5
115°	72.3	72.3	72.3	72.3	72.3	74.2	74.2	74.2	74.2	72.3	70.4
117.5°	78.0	78.0	78.0	79.9	79.9	81.8	79.9	81.8	79.9	78.0	78.0
120°	87.5	87.5	89.4	91.3	93.2	93.2	91.3	93.2	93.2	89.4	87.5
122.5°	98.9	98.9	100.8	106.5	108.4	110.3	108.4	108.4	108.4	104.6	102.7
125°	110.3	112.2	116.0	123.6	129.3	133.1	129.3	131.2	131.2	125.5	123.6
127.5°	123.6	125.5	133.1	144.5	154.0	157.8	155.9	157.8	159.7	150.2	146.4
130°	136.9	136.9	148.3	165.4	178.7	184.4	186.3	188.3	190.2	180.6	173.0
132.5°	148.3	148.3	163.5	184.4	201.6	211.1	214.9	218.7	222.5	209.2	199.7
135°	155.9	157.8	176.8	201.6	222.5	235.8	241.5	245.3	251.0	235.8	224.4
137.5°	161.6	165.4	184.4	211.1	233.9	252.9	264.3	270.0	273.8	258.6	243.4
140°	163.5	165.4	186.3	213.0	235.8	256.7	273.8	283.3	285.2	270.0	254.8
142.5°	157.8	161.6	180.6	207.3	230.1	252.9	271.9	281.4	283.3	270.0	254.8
145°	150.2	152.1	169.2	194.0	216.8	241.5	262.4	271.9	271.9	260.5	245.3
147.5°	136.9	138.8	154.0	174.9	197.8	222.5	243.4	252.9	254.8	243.4	230.1
150°	117.9	119.8	131.2	148.3	171.1	195.9	214.9	226.3	226.3	214.9	205.4
152.5°	95.1	97.0	106.5	119.8	138.8	161.6	178.7	190.2	190.2	182.5	171.1
155°	74.2	74.2	81.8	93.2	106.5	123.6	136.9	146.4	148.3	140.7	133.1
157.5°	53.2	53.2	58.9	68.5	79.9	93.2	102.7	110.3	110.3	104.6	100.8
160°	36.1	36.1	39.9	45.6	53.2	62.8	70.4	78.0	78.0	74.2	70.4
162.5°	19.0	19.0	22.8	26.6	32.3	39.9	43.7	49.4	49.4	47.5	45.6
165°	5.7	5.7	7.6	9.5	13.3	17.1	19.0	22.8	24.7	22.8	20.9
167.5°	0.0	0.0	1.9	1.9	1.9	1.9	3.8	5.7	5.7	5.7	5.7
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°	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9	4114.9
2.5°	3782.1	3901.9	4010.3	4122.5	4261.3	4383.0	4514.2	4607.4	4647.3	4647.3	4662.5
5°	3544.4	3628.1	3715.6	3814.4	3979.9	4183.3	4417.2	4609.3	4719.6	4736.7	4734.8
7.5°	3150.8	3207.9	3297.2	3407.5	3559.6	3742.2	4042.6	4343.1	4542.7	4578.9	4565.5
10°	2804.7	2858.0	2911.2	2953.1	3061.4	3206.0	3426.5	3719.4	3949.5	3985.6	3957.1
12.5°	2627.9	2645.0	2643.1	2667.8	2711.6	2783.8	2896.0	3065.2	3223.1	3257.3	3232.6
15°	2534.7	2510.0	2472.0	2428.2	2424.4	2435.8	2464.4	2532.8	2599.4	2627.9	2608.9
17.5°	2496.7	2437.7	2359.8	2274.2	2217.2	2163.9	2127.8	2105.0	2114.5	2116.4	2101.2
20°	2407.3	2337.0	2211.5	2089.8	1998.5	1905.3	1825.5	1766.5	1757.0	1747.5	1736.1
22.5°	2306.5	2186.7	2036.5	1888.2	1753.2	1629.6	1540.2	1469.9	1443.3	1452.8	1447.1
25°	2285.6	2086.0	1903.4	1663.8	1492.7	1353.9	1186.5	1072.5	1021.1	1049.6	1030.6
27.5°	1371.0	1376.7	1274.0	1129.5	1005.9	924.1	850.0	789.1	754.9	754.9	758.7
30°	1241.7	1186.5	1118.1	1028.7	920.3	838.6	756.8	690.3	654.1	644.6	648.4
32.5°	1135.2	1097.2	1032.5	947.0	848.1	764.4	678.8	618.0	583.8	581.9	580.0
35°	1021.1	981.2	927.9	853.8	768.2	690.3	616.1	562.8	532.4	534.3	534.3
37.5°	943.2	907.0	859.5	789.1	711.2	633.2	566.7	517.2	492.5	492.5	490.6
40°	903.2	861.4	810.0	745.4	673.1	591.4	528.6	481.1	460.2	460.2	458.3
42.5°	815.8	779.6	745.4	678.8	606.6	540.0	481.1	439.3	418.3	418.3	418.3
45°	692.2	671.2	644.6	599.0	540.0	484.9	435.4	395.5	378.4	376.5	376.5
47.5°	638.9	616.1	583.8	541.9	494.4	443.1	395.5	367.0	349.9	349.9	349.9
50°	623.7	597.1	553.3	503.9	454.5	408.8	367.0	340.4	325.2	325.2	327.1
52.5°	644.6	600.9	541.9	481.1	429.7	378.4	342.3	315.7	304.2	304.2	302.3
55°	716.9	635.1	549.5	475.4	410.7	355.6	317.6	289.0	275.7	275.7	275.7
57.5°	756.8	659.8	555.2	467.8	393.6	338.5	298.5	268.1	254.8	254.8	254.8
60°	711.2	631.3	532.4	452.6	380.3	323.3	281.4	252.9	239.6	237.7	235.8
62.5°	595.2	545.7	475.4	408.8	351.8	302.3	268.1	239.6	226.3	226.3	224.4
65°	530.5	488.7	427.8	370.8	323.3	281.4	249.1	226.3	213.0	211.1	211.1
67.5°	494.4	456.4	395.5	342.3	298.5	260.5	230.1	209.2	199.7	195.9	195.9
70°	454.5	412.6	359.4	311.8	271.9	237.7	213.0	192.1	182.5	180.6	178.7
72.5°	414.5	376.5	327.1	281.4	245.3	216.8	194.0	174.9	165.4	163.5	163.5
75°	372.7	336.6	289.0	251.0	220.6	194.0	173.0	157.8	150.2	148.3	146.4
77.5°	338.5	306.1	260.5	224.4	195.9	174.9	155.9	142.6	135.0	135.0	133.1
80°	306.1	275.7	232.0	199.7	174.9	154.0	138.8	127.4	121.7	119.8	119.8
82.5°	275.7	245.3	205.4	176.8	154.0	136.9	121.7	112.2	106.5	106.5	106.5
85°	247.2	218.7	182.5	155.9	135.0	119.8	106.5	97.0	93.2	91.3	93.2
87.5°	218.7	192.1	161.6	136.9	117.9	102.7	91.3	83.7	79.9	79.9	79.9
90°	192.1	167.3	138.8	116.0	100.8	87.5	78.0	70.4	68.5	66.6	66.6
92.5°	169.2	148.3	123.6	104.6	89.4	79.9	70.4	64.7	60.8	60.8	60.8
95°	148.3	129.3	110.3	93.2	81.8	72.3	64.7	58.9	57.0	57.0	57.0
97.5°	127.4	112.2	97.0	83.7	74.2	66.6	58.9	55.1	53.2	51.3	53.2
100°	106.5	95.1	83.7	74.2	66.6	58.9	53.2	49.4	47.5	47.5	47.5
102.5°	85.6	79.9	70.4	62.8	57.0	53.2	47.5	43.7	41.8	41.8	41.8
105°	74.2	68.5	62.8	57.0	53.2	47.5	43.7	39.9	38.0	38.0	38.0
107.5°	68.5	64.7	58.9	55.1	49.4	45.6	41.8	36.1	34.2	34.2	34.2
110°	66.6	62.8	58.9	53.2	49.4	45.6	41.8	34.2	32.3	32.3	32.3

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	66.6	62.8	58.9	55.1	51.3	45.6	41.8	34.2	30.4	30.4	30.4
115°	70.4	66.6	62.8	58.9	53.2	47.5	43.7	34.2	30.4	30.4	30.4
117.5°	76.1	72.3	68.5	62.8	57.0	51.3	43.7	34.2	32.3	32.3	32.3
120°	85.6	81.8	76.1	70.4	62.8	55.1	47.5	36.1	30.4	32.3	32.3
122.5°	98.9	95.1	87.5	78.0	70.4	60.8	49.4	38.0	28.5	32.3	32.3
125°	117.9	112.2	100.8	89.4	78.0	66.6	53.2	39.9	30.4	34.2	34.2
127.5°	138.8	131.2	116.0	100.8	87.5	72.3	57.0	41.8	32.3	34.2	34.2
130°	163.5	150.2	131.2	112.2	95.1	78.0	60.8	43.7	34.2	34.2	34.2
132.5°	188.3	169.2	144.5	123.6	102.7	81.8	62.8	43.7	34.2	34.2	34.2
135°	209.2	186.3	157.8	131.2	106.5	83.7	64.7	43.7	34.2	34.2	34.2
137.5°	228.2	197.8	165.4	135.0	108.4	83.7	62.8	43.7	32.3	32.3	32.3
140°	237.7	203.5	169.2	135.0	106.5	81.8	58.9	39.9	30.4	30.4	30.4
142.5°	237.7	201.6	165.4	131.2	102.7	78.0	55.1	38.0	26.6	28.5	28.5
145°	230.1	194.0	157.8	123.6	95.1	70.4	49.4	32.3	24.7	24.7	24.7
147.5°	213.0	178.7	144.5	112.2	85.6	60.8	43.7	28.5	20.9	19.0	20.9
150°	190.2	157.8	125.5	97.0	72.3	51.3	36.1	22.8	17.1	17.1	17.1
152.5°	159.7	131.2	104.6	79.9	57.0	39.9	26.6	17.1	13.3	13.3	13.3
155°	125.5	102.7	81.8	60.8	43.7	30.4	20.9	13.3	9.5	9.5	9.5
157.5°	95.1	78.0	60.8	43.7	32.3	22.8	15.2	9.5	7.6	7.6	7.6
160°	66.6	53.2	41.8	30.4	20.9	15.2	9.5	5.7	3.8	3.8	3.8
162.5°	41.8	34.2	26.6	17.1	13.3	9.5	5.7	3.8	1.9	1.9	1.9
165°	19.0	17.1	11.4	7.6	5.7	3.8	1.9	1.9	0.0	0.0	0.0
167.5°	5.7	3.8	3.8	1.9	1.9	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)