

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: P691237

Luminaire Tested: **CRTK2-C015-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691237
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-C015-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 3732 lumens
Efficiency: N/A
Efficacy: 114.1 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): 32.7
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: 24 FT



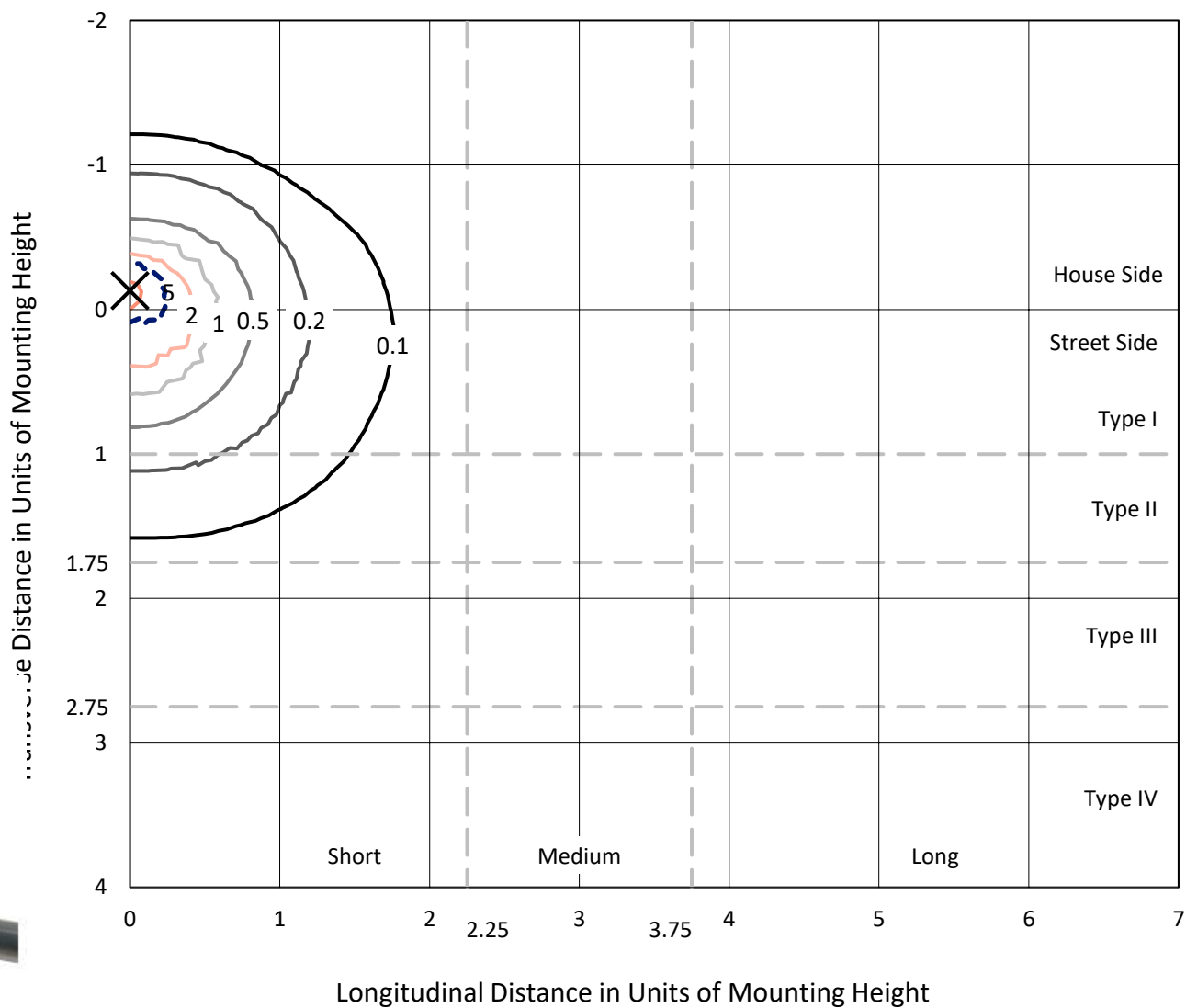
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



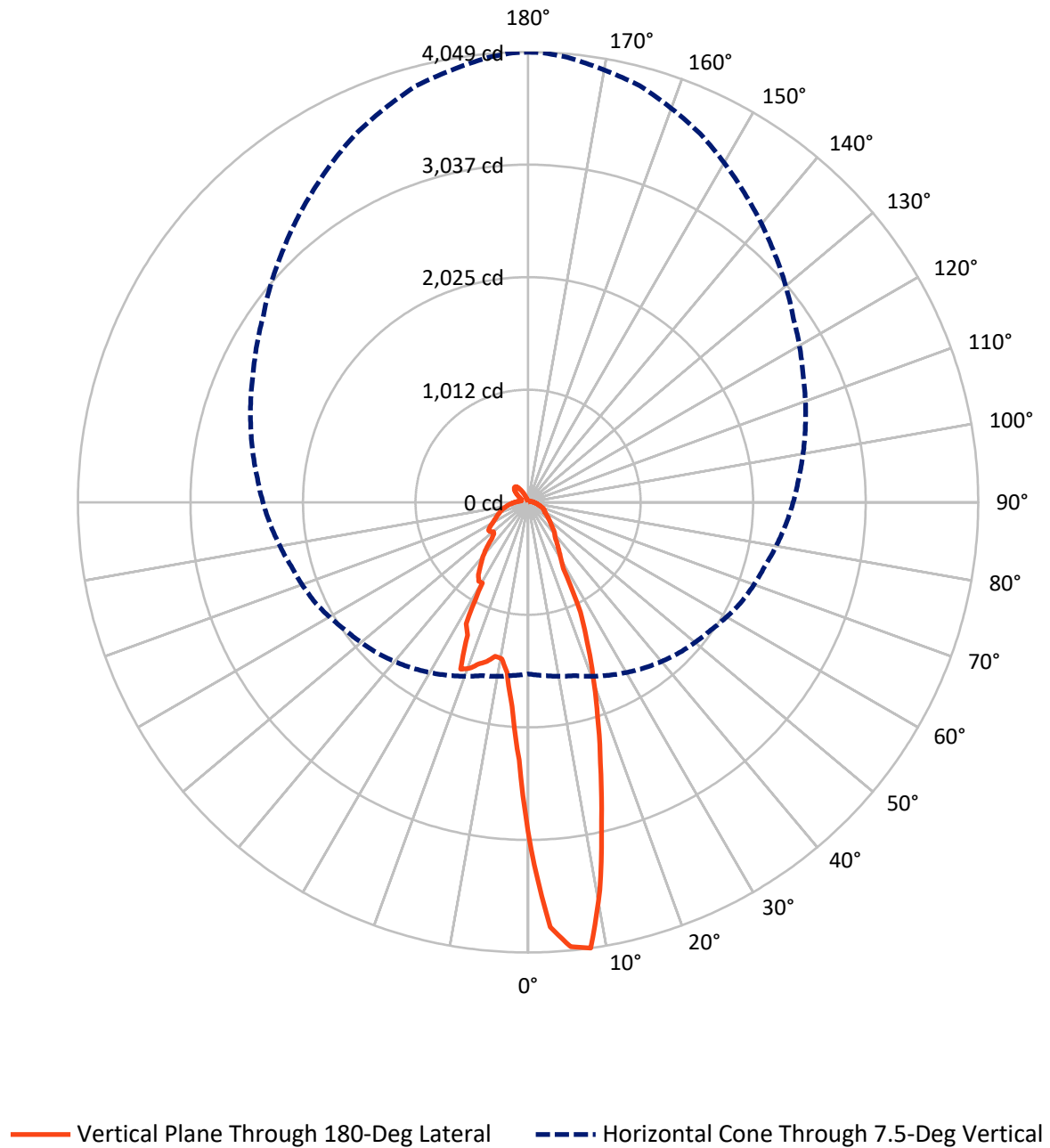
Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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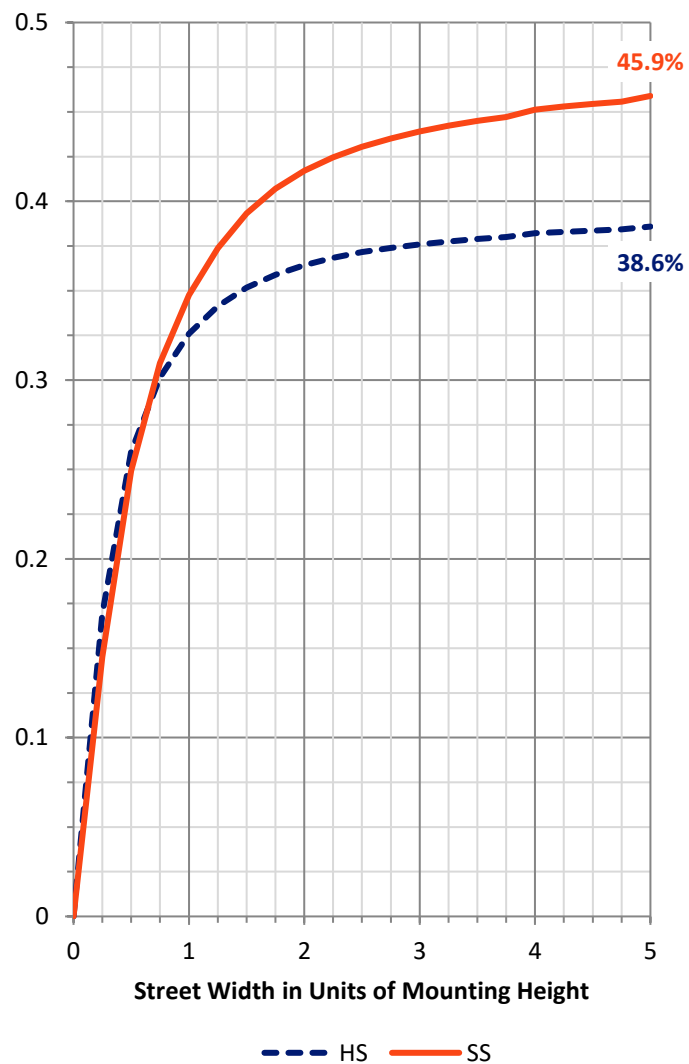
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1477.6	154.1	1631.6
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1762.0	338.4	2100.4
	% Fixture	47.2	9.1	56.3
Total	Lumens	3239.5	492.5	3732.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	6.7
10°-20°	534.9	14.3
20°-30°	590.7	15.8
30°-40°	428.4	11.5
40°-50°	360.9	9.7
50°-60°	368.5	9.9
60°-70°	314.0	8.4
70°-80°	234.1	6.3
80°-90°	158.0	4.2
90°-100°	94.5	2.5
100°-110°	54.3	1.5
110°-120°	50.8	1.4
120°-130°	74.0	2.0
130°-140°	100.5	2.7
140°-150°	81.8	2.2
150°-160°	32.6	0.9
160°-170°	4.0	0.1
170°-180°	0.0	0.0
0°-90°	3239.5	86.8
0°-180°	3732.0	100.0

Coefficient of Utilization



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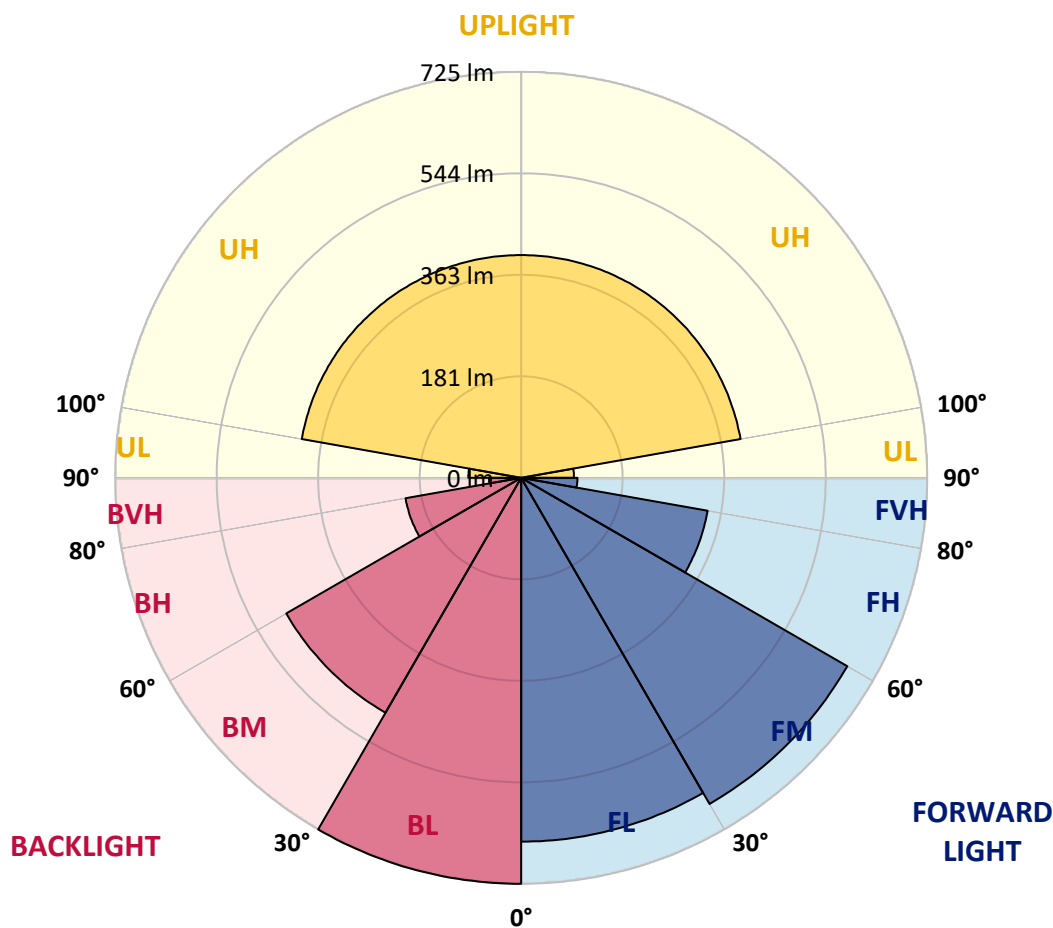
CATALOG NUMBER: CRTK2-C015-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.1	17.4			
FM	(30°-60°)	673.0	18.0			
FH	(60°-80°)	338.3	9.1			G0/660
FVH	(80°-90°)	100.5	2.7			G2/225
BL	(0°-30°)	725.5	19.4	B2/1000		
BM	(30°-60°)	484.7	13.0	B1/1000		
BH	(60°-80°)	209.8	5.6	B1/500		G1/500
BVH	(80°-90°)	57.5	1.5			G1/100
UL	(90°-100°)	94.5	2.5		U3/500	
UH	(100°-180°)	398.0	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°	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7
2.5°	2316.1	2369.8	2374.7	2433.3	2477.3	2518.0	2547.4	2632.0	2718.4	2799.8	2847.0
5°	1838.8	1864.9	1912.1	1975.7	2057.1	2120.6	2211.8	2330.7	2444.7	2588.1	2658.1
7.5°	1544.0	1563.6	1614.1	1716.7	1819.3	1917.0	2005.0	2119.0	2206.9	2325.8	2384.5
10°	1426.8	1438.2	1480.5	1552.2	1649.9	1731.4	1807.9	1894.2	1972.4	2081.5	2123.9
12.5°	1415.4	1420.3	1454.5	1505.0	1562.0	1628.7	1692.3	1765.6	1848.6	1934.9	1967.5
15°	1477.3	1474.0	1485.4	1514.7	1547.3	1599.4	1658.1	1724.8	1804.6	1868.2	1894.2
17.5°	1521.2	1519.6	1540.8	1553.8	1584.8	1615.7	1674.3	1726.5	1804.6	1855.1	1869.8
20°	1584.8	1588.0	1594.5	1619.0	1632.0	1653.2	1689.0	1720.0	1786.7	1816.0	1812.8
22.5°	1619.0	1617.3	1645.0	1702.0	1716.7	1728.1	1734.6	1747.6	1785.1	1783.5	1759.0
25°	1312.8	1316.0	1322.5	1371.4	1433.3	1534.3	1617.3	1747.6	1817.7	1791.6	1739.5
27.5°	1226.4	1216.7	1182.5	1154.8	1071.7	1016.3	964.2	941.4	952.8	972.4	1026.1
30°	835.5	837.2	840.4	845.3	853.5	874.6	889.3	890.9	902.3	934.9	923.5
32.5°	837.2	838.8	833.9	838.8	835.5	843.7	842.1	835.5	845.3	874.6	863.2
35°	786.7	783.4	786.7	788.3	770.4	763.9	762.3	757.4	763.9	778.5	768.8
37.5°	708.5	706.9	721.5	729.7	715.0	715.0	711.8	705.2	710.1	723.2	710.1
40°	640.1	641.7	662.9	675.9	671.0	675.9	680.8	679.2	690.6	695.5	679.2
42.5°	565.2	561.9	583.1	592.9	583.1	586.3	584.7	586.3	609.1	618.9	607.5
45°	472.3	477.2	487.0	500.0	498.4	503.3	501.7	504.9	519.6	524.5	516.3
47.5°	420.2	423.5	434.9	449.5	457.7	465.8	465.8	467.4	477.2	478.9	470.7
50°	408.8	412.1	426.7	443.0	456.0	465.8	470.7	469.1	474.0	470.7	459.3
52.5°	428.4	428.4	451.2	470.7	487.0	504.9	511.4	504.9	504.9	491.9	474.0
55°	436.5	438.1	465.8	500.0	531.0	563.5	584.7	583.1	581.5	560.3	527.7
57.5°	410.4	415.3	443.0	482.1	524.5	576.6	607.5	612.4	612.4	584.7	548.9
60°	373.0	376.2	397.4	430.0	472.3	511.4	544.0	547.3	557.0	542.4	509.8
62.5°	342.0	345.3	363.2	387.6	418.6	443.0	452.8	452.8	457.7	452.8	430.0
65°	319.2	320.9	335.5	356.7	377.9	397.4	407.2	403.9	410.4	403.9	386.0
67.5°	298.1	298.1	311.1	327.4	346.9	369.7	376.2	379.5	386.0	377.9	361.6
70°	276.9	278.5	291.5	304.6	322.5	338.8	345.3	346.9	355.1	345.3	333.9
72.5°	259.0	259.0	270.4	283.4	296.4	312.7	317.6	320.9	325.7	316.0	306.2
75°	237.8	239.4	249.2	260.6	272.0	288.3	293.2	294.8	299.7	288.3	278.5
77.5°	218.3	219.9	228.0	237.8	249.2	262.2	267.1	270.4	272.0	262.2	252.5
80°	198.7	200.3	206.9	216.6	226.4	239.4	242.7	244.3	247.6	236.2	229.7
82.5°	180.8	180.8	185.7	193.8	203.6	215.0	219.9	221.5	223.1	213.4	206.9
85°	159.6	159.6	164.5	172.6	180.8	192.2	197.1	198.7	198.7	190.6	184.0
87.5°	141.7	141.7	145.0	151.5	158.0	169.4	174.3	177.5	175.9	169.4	162.9
90°	123.8	123.8	127.0	131.9	138.4	148.2	153.1	154.7	154.7	146.6	141.7
92.5°	107.5	107.5	110.8	115.6	120.5	128.7	133.6	136.8	136.8	130.3	125.4
95°	92.8	92.8	94.5	99.4	104.2	110.8	114.0	117.3	117.3	114.0	109.1
97.5°	79.8	79.8	81.4	84.7	88.0	92.8	96.1	99.4	99.4	97.7	94.5
100°	70.0	70.0	70.0	71.7	74.9	76.6	79.8	83.1	83.1	81.4	79.8
102.5°	63.5	63.5	63.5	63.5	63.5	65.1	65.1	66.8	66.8	66.8	65.1
105°	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	58.6	57.0	55.4
107.5°	60.3	58.6	58.6	58.6	58.6	57.0	57.0	57.0	55.4	53.7	52.1
110°	60.3	60.3	60.3	60.3	58.6	57.0	57.0	55.4	53.7	52.1	50.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	63.5	63.5	63.5	61.9	60.3	60.3	58.6	57.0	55.4	52.1	50.5
115°	68.4	68.4	68.4	68.4	66.8	63.5	61.9	60.3	57.0	55.4	53.7
117.5°	76.6	76.6	76.6	76.6	73.3	71.7	68.4	66.8	63.5	60.3	58.6
120°	86.3	86.3	88.0	88.0	86.3	83.1	78.2	76.6	73.3	68.4	65.1
122.5°	101.0	99.4	102.6	102.6	102.6	99.4	92.8	89.6	86.3	79.8	76.6
125°	115.6	115.6	118.9	122.2	123.8	118.9	112.4	107.5	102.6	94.5	89.6
127.5°	131.9	131.9	138.4	145.0	148.2	143.3	135.2	130.3	123.8	112.4	105.9
130°	148.2	148.2	158.0	167.8	172.6	169.4	161.2	154.7	146.6	131.9	123.8
132.5°	162.9	162.9	174.3	187.3	193.8	192.2	184.0	177.5	171.0	153.1	141.7
135°	174.3	175.9	190.6	205.2	213.4	215.0	206.9	198.7	190.6	171.0	158.0
137.5°	180.8	184.0	198.7	216.6	224.8	229.7	224.8	216.6	206.9	185.7	171.0
140°	182.4	184.0	200.3	218.3	226.4	232.9	232.9	223.1	215.0	193.8	177.5
142.5°	177.5	179.2	195.4	211.7	219.9	228.0	229.7	221.5	213.4	193.8	177.5
145°	166.1	169.4	184.0	197.1	208.5	216.6	219.9	215.0	205.2	187.3	172.6
147.5°	151.5	153.1	166.1	177.5	188.9	198.7	203.6	198.7	190.6	174.3	161.2
150°	128.7	130.3	140.1	149.8	162.9	172.6	179.2	175.9	169.4	156.4	143.3
152.5°	104.2	104.2	112.4	120.5	131.9	141.7	148.2	146.6	141.7	130.3	120.5
155°	79.8	79.8	84.7	91.2	101.0	107.5	114.0	114.0	110.8	102.6	94.5
157.5°	57.0	57.0	61.9	66.8	73.3	79.8	84.7	84.7	83.1	76.6	71.7
160°	37.5	37.5	40.7	44.0	50.5	53.7	58.6	58.6	57.0	53.7	50.5
162.5°	19.5	19.5	22.8	24.4	29.3	32.6	35.8	37.5	37.5	34.2	32.6
165°	6.5	6.5	6.5	8.1	11.4	14.7	16.3	17.9	17.9	16.3	16.3
167.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.3	4.9	4.9	4.9	4.9
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°	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7
2.5°	2897.5	3045.7	3172.8	3306.3	3454.6	3580.0	3707.0	3777.1	3837.3	3825.9	3825.9
5°	2726.5	2874.7	3029.5	3192.3	3392.7	3597.9	3793.3	3933.4	4006.7	4018.1	4016.5
7.5°	2443.1	2581.6	2728.1	2908.9	3143.5	3394.3	3659.8	3879.7	4018.1	4044.2	4049.1
10°	2163.0	2267.2	2391.0	2514.8	2724.9	2954.5	3192.3	3368.2	3503.4	3523.0	3545.8
12.5°	1995.2	2052.2	2132.0	2218.3	2355.2	2522.9	2718.4	2819.4	2905.7	2915.4	2936.6
15°	1908.9	1936.6	1956.1	1987.1	2068.5	2172.7	2262.3	2361.7	2397.5	2421.9	2433.3
17.5°	1874.7	1871.4	1851.9	1851.9	1858.4	1897.5	1954.5	1988.7	2011.5	2022.9	2026.2
20°	1804.6	1775.3	1736.2	1684.1	1656.4	1643.4	1658.1	1666.2	1659.7	1651.5	1666.2
22.5°	1731.4	1669.5	1599.4	1539.2	1467.5	1423.5	1381.2	1366.5	1348.6	1360.0	1360.0
25°	1708.6	1599.4	1487.0	1386.1	1278.6	1205.3	1127.1	1099.4	1071.7	1094.5	1094.5
27.5°	1009.8	1009.8	946.3	861.6	768.8	729.7	698.7	680.8	669.4	674.3	674.3
30°	904.0	861.6	822.5	768.8	697.1	649.9	609.1	584.7	573.3	570.1	573.3
32.5°	838.8	806.2	759.0	705.2	641.7	589.6	544.0	519.6	501.7	504.9	506.5
35°	750.9	716.6	675.9	625.4	571.7	522.8	482.1	457.7	441.4	441.4	443.0
37.5°	695.5	661.3	622.2	576.6	524.5	477.2	439.8	410.4	395.8	394.2	394.2
40°	661.3	627.1	591.2	545.6	496.8	447.9	410.4	384.4	366.5	366.5	368.1
42.5°	599.4	566.8	535.9	495.1	451.2	408.8	373.0	350.2	332.3	329.0	332.3
45°	504.9	487.0	462.6	434.9	397.4	363.2	330.6	311.1	296.4	296.4	294.8
47.5°	462.6	444.6	418.6	390.9	360.0	325.7	299.7	281.8	268.7	268.7	268.7
50°	446.3	426.7	394.2	363.2	327.4	298.1	275.3	257.3	247.6	247.6	245.9
52.5°	454.4	423.5	381.1	337.1	302.9	273.6	250.8	232.9	224.8	224.8	223.1
55°	498.4	443.0	381.1	327.4	286.7	254.1	231.3	211.7	203.6	203.6	203.6
57.5°	516.3	454.4	377.9	317.6	272.0	237.8	210.1	192.2	184.0	184.0	182.4
60°	483.7	431.6	361.6	304.6	260.6	226.4	200.3	182.4	172.6	172.6	171.0
62.5°	412.1	374.6	320.9	278.5	244.3	213.4	190.6	172.6	164.5	164.5	164.5
65°	369.7	337.1	294.8	257.3	226.4	200.3	179.2	164.5	156.4	156.4	156.4
67.5°	345.3	317.6	275.3	239.4	208.5	184.0	164.5	151.5	145.0	143.3	145.0
70°	319.2	289.9	250.8	216.6	188.9	166.1	148.2	135.2	128.7	128.7	128.7
72.5°	291.5	263.9	226.4	195.4	167.8	149.8	131.9	120.5	114.0	114.0	112.4
75°	265.5	237.8	202.0	172.6	149.8	131.9	117.3	107.5	101.0	101.0	101.0
77.5°	241.1	215.0	180.8	154.7	133.6	118.9	104.2	96.1	91.2	91.2	89.6
80°	218.3	193.8	161.2	138.4	118.9	105.9	92.8	86.3	81.4	81.4	81.4
82.5°	195.4	172.6	143.3	122.2	105.9	92.8	83.1	76.6	73.3	71.7	73.3
85°	174.3	153.1	127.0	107.5	92.8	81.4	73.3	66.8	63.5	63.5	63.5
87.5°	154.7	135.2	112.4	94.5	81.4	71.7	63.5	58.6	57.0	55.4	55.4
90°	133.6	115.6	96.1	81.4	70.0	61.9	53.7	50.5	47.2	47.2	47.2
92.5°	118.9	104.2	86.3	73.3	63.5	57.0	50.5	47.2	44.0	44.0	44.0
95°	104.2	91.2	76.6	66.8	58.6	52.1	47.2	44.0	42.3	42.3	42.3
97.5°	89.6	79.8	68.4	60.3	53.7	48.9	44.0	40.7	39.1	39.1	39.1
100°	74.9	68.4	60.3	53.7	48.9	44.0	39.1	37.5	35.8	35.8	35.8
102.5°	61.9	57.0	50.5	45.6	40.7	37.5	34.2	32.6	30.9	30.9	30.9
105°	53.7	50.5	45.6	40.7	37.5	34.2	30.9	27.7	27.7	27.7	27.7
107.5°	50.5	45.6	42.3	39.1	35.8	30.9	29.3	26.1	24.4	24.4	24.4
110°	48.9	45.6	42.3	37.5	34.2	30.9	27.7	24.4	22.8	22.8	22.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	48.9	45.6	42.3	39.1	35.8	30.9	29.3	22.8	21.2	21.2	21.2
115°	52.1	48.9	44.0	40.7	35.8	32.6	29.3	22.8	21.2	21.2	21.2
117.5°	55.4	52.1	47.2	44.0	39.1	34.2	29.3	22.8	21.2	21.2	21.2
120°	63.5	58.6	52.1	47.2	42.3	35.8	30.9	22.8	19.5	21.2	21.2
122.5°	71.7	66.8	58.6	52.1	45.6	39.1	30.9	22.8	19.5	21.2	21.2
125°	84.7	76.6	66.8	58.6	48.9	40.7	32.6	22.8	17.9	19.5	21.2
127.5°	99.4	89.6	76.6	65.1	53.7	42.3	32.6	22.8	17.9	19.5	19.5
130°	115.6	102.6	86.3	70.0	57.0	44.0	32.6	22.8	17.9	19.5	19.5
132.5°	131.9	114.0	94.5	76.6	60.3	45.6	32.6	21.2	17.9	17.9	17.9
135°	145.0	123.8	101.0	79.8	61.9	45.6	30.9	21.2	16.3	16.3	16.3
137.5°	156.4	131.9	105.9	81.4	61.9	44.0	29.3	19.5	14.7	14.7	14.7
140°	162.9	135.2	107.5	79.8	58.6	42.3	27.7	17.9	13.0	13.0	13.0
142.5°	162.9	133.6	104.2	78.2	55.4	39.1	24.4	14.7	11.4	11.4	11.4
145°	156.4	127.0	99.4	73.3	50.5	34.2	21.2	13.0	9.8	9.8	9.8
147.5°	146.6	117.3	91.2	66.8	45.6	29.3	17.9	11.4	8.1	8.1	8.1
150°	130.3	104.2	79.8	57.0	39.1	24.4	14.7	9.8	6.5	6.5	6.5
152.5°	109.1	86.3	66.8	47.2	32.6	19.5	13.0	6.5	4.9	4.9	4.9
155°	86.3	68.4	52.1	37.5	24.4	14.7	9.8	6.5	3.3	3.3	3.3
157.5°	65.1	50.5	39.1	27.7	17.9	11.4	6.5	4.9	3.3	3.3	3.3
160°	45.6	35.8	26.1	17.9	11.4	8.1	4.9	3.3	1.6	1.6	1.6
162.5°	29.3	22.8	16.3	11.4	6.5	4.9	3.3	1.6	1.6	1.6	0.0
165°	14.7	11.4	8.1	4.9	3.3	1.6	1.6	1.6	0.0	0.0	0.0
167.5°	3.3	3.3	3.3	1.6	1.6	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)