

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: EPHESUS

Report Number: P735979 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-4S-VHE-S**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735979 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-70-4S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

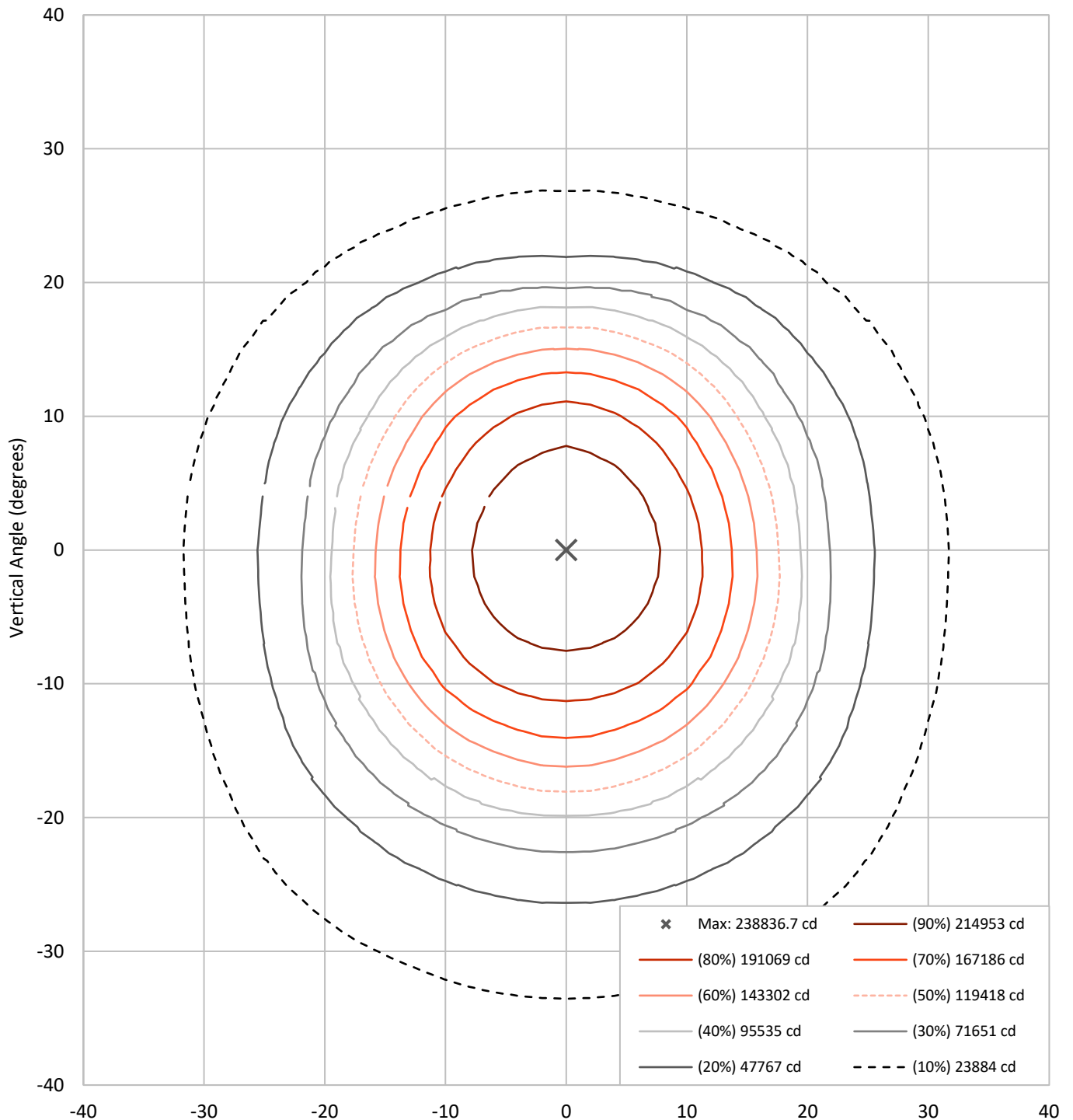
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	99074.2 lumens	Max Intensity:	238836.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	150.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	53176.1 lumens	Field Lumens:	86533.4 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 658
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Iso-Candela Plot





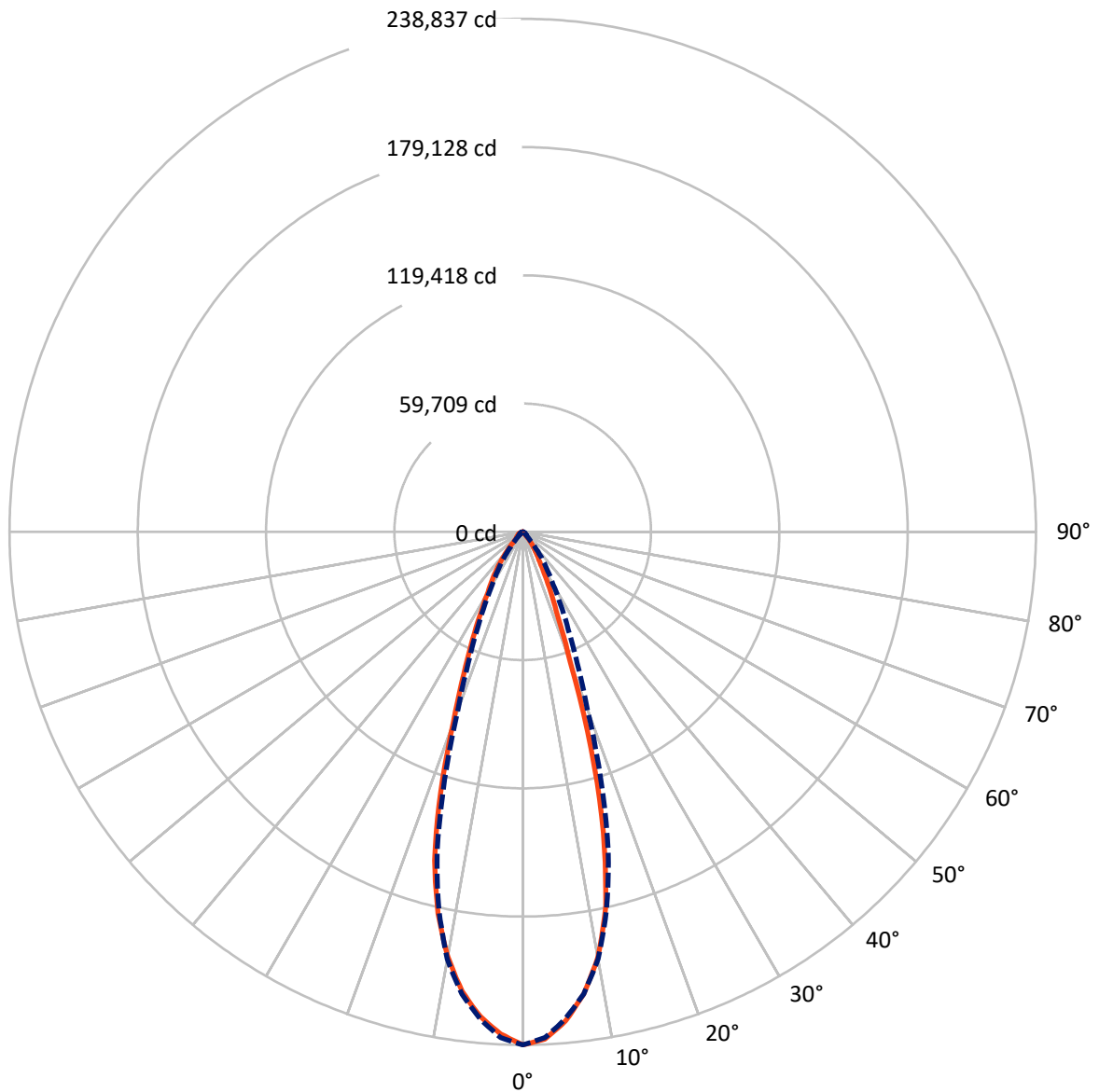
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Lumen Table

90	0.3	1.1	1.9	2.6	2.9	2.6	1.9	1.1	0.3										
80	0.3	0.2	0.3	0.6	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.6	0.3	0.2	0.3			
70																			
60	0.3	0.5	0.8	1.4	1.3	1.0	1.2	1.4	1.4	1.2	1.0	1.3	1.4	0.8	0.5	0.3			
50																			
40	1.0	1.2	2.8	5.7	10.3	16.5	24.1	31.0	31.0	24.1	16.5	10.3	5.7	2.8	1.2	1.0			
30																			
20	2.2	5.2	15.7	30.5	95.6	294.1	641.8	973.2	973.2	641.8	294.1	95.6	30.5	15.7	5.2	2.2			
10																			
0	3.2	8.6	24.2	67.6	389.5	1354.7	4009.5	6420.4	6420.4	4009.5	1354.7	389.5	67.6	24.2	8.6	3.2			
-10																			
-20	3.7	9.9	28.4	69.6	333.2	1051.0	2645.9	4347.0	4347.0	2645.9	1051.0	333.2	69.6	28.4	9.9	3.7			
-30																			
-40	3.4	7.9	25.5	49.9	88.1	216.6	436.4	603.2	603.2	436.4	216.6	88.1	49.9	25.5	7.9	3.4			
-50																			
-60	2.9	4.6	11.9	26.0	44.8	60.4	72.9	81.9	81.9	72.9	60.4	44.8	26.0	11.9	4.6	2.9			
-70																			
-80	2.1	12.5	28.3	45.8	56.2	45.8	28.3	12.5	2.1										
-90																			

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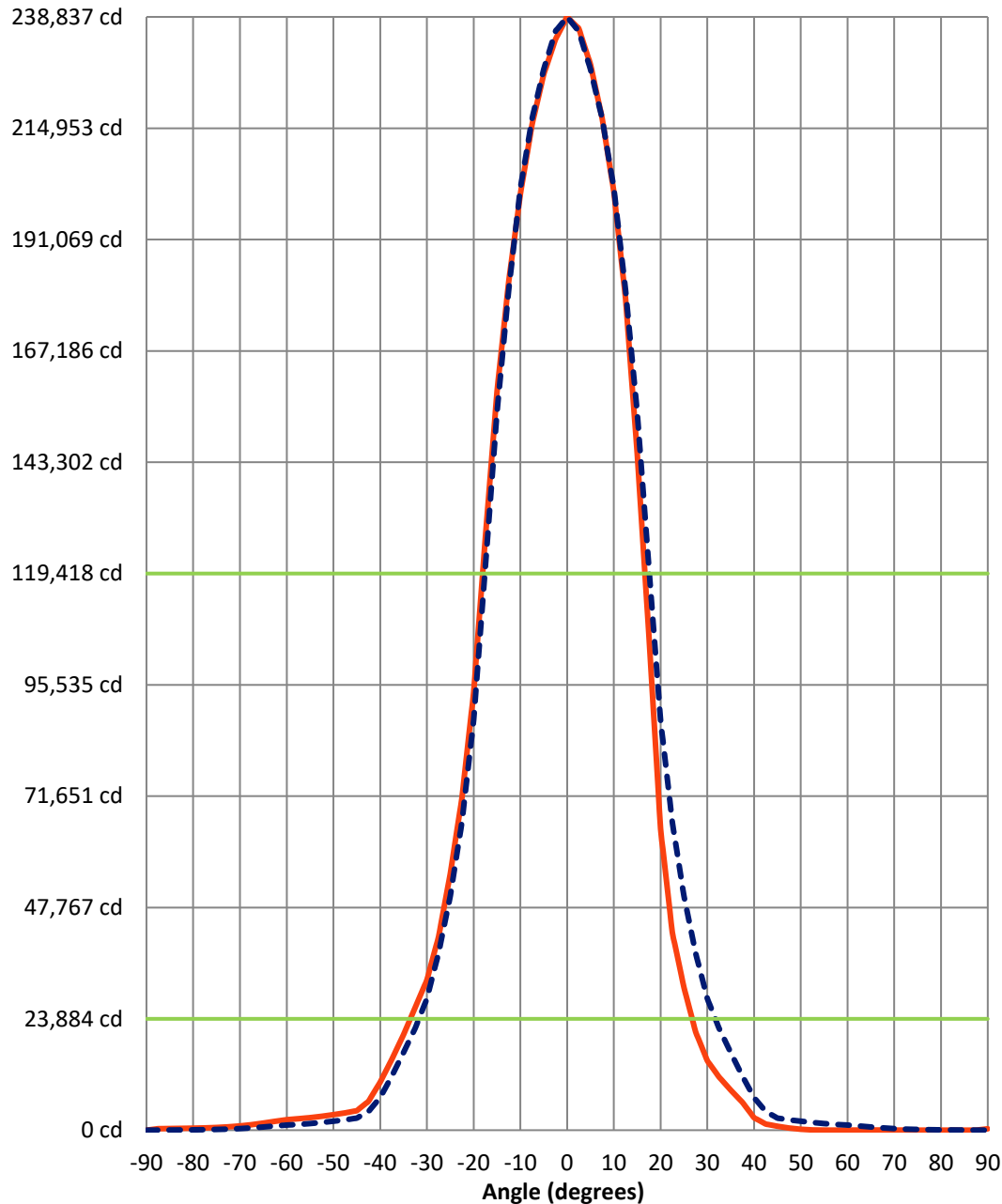
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 53176.1
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 86533.4
 Efficiency: 87.3%

Spill:
 Lumens: 12540.8
 Efficiency: 12.7%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	10.6	20.0	29.5	48.4	67.3	84.4	101.6	115.2	128.8	137.7	146.5
87.5°	10.6	9.7	8.5	8.6	8.7	8.7	8.6	8.1	7.5	7.6	7.6
85°	10.6	9.9	8.7	8.9	9.1	9.1	8.9	8.4	7.9	8.0	8.1
82.5°	10.6	10.1	8.9	9.2	9.5	9.4	9.3	8.8	8.4	8.6	8.6
80°	10.6	10.3	9.2	9.5	9.9	9.8	9.6	9.4	9.2	9.3	9.2
77.5°	10.6	10.5	9.4	9.8	10.3	10.3	10.2	10.1	10.0	10.0	9.6
75°	10.6	10.7	9.7	10.1	10.7	10.8	10.8	10.8	10.8	10.4	9.8
72.5°	10.6	10.9	9.9	10.4	11.1	11.3	11.5	11.5	11.3	10.8	10.0
70°	10.6	11.2	10.2	10.7	11.6	11.9	12.1	12.2	11.9	11.2	10.9
67.5°	10.6	11.4	10.5	11.2	12.0	12.4	12.9	12.9	12.5	12.2	12.0
65°	10.6	11.6	10.8	11.6	12.5	13.2	13.8	13.6	13.9	13.3	13.4
62.5°	10.6	11.9	11.2	12.1	13.1	14.2	14.8	15.2	15.6	14.8	16.0
60°	10.6	12.1	11.5	12.6	13.6	15.4	15.9	17.2	17.5	18.6	19.1
57.5°	10.6	12.4	12.2	13.1	14.8	16.5	18.2	19.5	21.7	23.2	25.8
55°	10.6	12.6	12.9	13.6	16.1	17.8	20.6	22.1	26.9	29.3	34.6
52.5°	10.6	12.8	13.6	14.2	17.5	19.3	23.2	27.3	32.5	39.6	44.2
50°	10.6	13.1	14.4	14.7	19.0	21.9	25.9	33.0	39.9	50.6	57.2
47.5°	10.6	13.4	15.2	15.4	20.5	24.7	29.1	39.0	50.7	62.3	72.0
45°	10.6	13.6	16.1	16.6	22.0	27.7	34.5	45.1	62.2	76.8	87.7
42.5°	10.6	13.9	17.0	17.8	23.7	30.7	40.0	53.9	74.2	92.0	113.2
40°	10.6	14.1	17.9	19.6	25.7	33.9	45.8	64.6	87.3	107.9	142.6
37.5°	10.6	14.4	18.9	21.6	28.2	37.1	51.8	75.6	102.4	128.6	174.4
35°	10.6	14.6	19.9	23.7	30.7	41.5	57.9	86.7	118.2	158.1	213.0
32.5°	10.6	14.9	20.9	25.8	33.3	46.3	64.9	97.9	134.6	188.3	257.1
30°	10.6	15.1	22.0	28.0	35.8	51.1	73.9	109.3	151.5	219.1	299.1
27.5°	10.6	15.4	23.0	30.1	39.2	55.8	82.7	121.7	170.1	250.3	338.9
25°	10.6	15.6	24.1	32.3	42.7	60.3	91.2	133.6	191.5	282.9	376.7
22.5°	10.6	15.9	25.2	34.4	46.1	65.1	99.4	144.9	211.5	308.1	415.4
20°	10.6	16.1	26.3	36.5	49.5	70.5	107.3	155.5	230.1	331.7	446.7
17.5°	10.6	16.3	27.4	38.7	52.7	75.7	115.4	165.5	247.2	353.6	476.0
15°	10.6	16.6	28.5	40.7	55.8	80.8	123.5	175.5	262.8	373.6	503.5
12.5°	10.6	16.8	29.5	42.8	58.9	85.6	131.0	185.7	278.5	391.7	529.1
10°	10.6	17.0	30.6	44.8	61.8	90.3	138.1	195.2	294.0	415.2	557.2
7.5°	10.6	17.2	31.6	46.7	64.6	94.7	144.6	204.0	308.0	438.3	593.2
5°	10.6	17.4	32.5	48.5	67.2	98.9	150.6	212.1	320.4	459.8	627.2
2.5°	10.6	17.5	33.4	50.3	69.7	102.7	156.0	219.3	331.2	479.2	658.5
0°	10.6	17.7	34.3	52.0	72.1	106.3	160.7	225.7	340.3	496.2	686.5
-2.5°	10.6	18.3	35.6	54.2	75.5	110.6	166.2	233.4	352.3	510.2	700.5
-5°	10.6	19.0	36.9	56.3	78.6	114.5	171.1	240.2	362.2	521.3	710.8
-7.5°	10.6	19.6	38.0	58.3	81.6	118.1	175.3	246.0	370.0	529.5	717.2
-10°	10.6	20.1	39.1	60.1	84.4	121.3	178.7	250.6	375.3	534.6	720.0
-12.5°	10.6	20.7	40.2	61.8	87.0	124.2	181.5	254.1	378.2	536.6	723.2
-15°	10.6	21.2	41.1	63.4	89.4	126.7	183.4	256.3	377.7	534.2	723.0
-17.5°	10.6	21.7	42.0	64.9	91.5	128.7	184.6	257.8	374.0	528.3	717.0
-20°	10.6	22.2	42.8	66.1	93.3	130.4	185.5	258.6	368.1	518.7	704.6



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	10.6	22.7	43.5	67.2	94.9	131.6	186.4	258.2	359.9	505.5	686.2
-25°	10.6	23.1	44.1	68.2	96.2	133.2	186.5	256.7	349.5	488.5	667.1
-27.5°	10.6	23.5	44.6	69.0	97.2	134.6	185.7	254.0	336.8	473.9	650.7
-30°	10.6	23.8	45.1	69.6	98.1	135.5	184.1	250.3	329.2	460.4	629.2
-32.5°	10.6	24.1	45.4	70.0	99.4	136.0	181.5	247.1	324.9	443.3	602.3
-35°	10.6	24.4	45.7	70.3	100.4	135.9	180.6	243.3	318.7	422.7	569.9
-37.5°	10.6	24.6	45.9	70.4	101.1	136.0	180.1	238.4	310.6	398.5	539.0
-40°	10.6	24.7	46.0	70.3	101.6	136.5	178.9	232.1	300.8	383.0	508.7
-42.5°	10.6	24.9	45.9	70.2	101.9	136.8	177.0	224.5	291.2	370.2	474.9
-45°	10.6	25.0	45.8	70.3	102.1	136.6	174.4	218.1	281.0	355.0	440.5
-47.5°	10.6	25.0	45.6	70.3	102.0	136.1	171.1	214.3	269.2	337.5	420.5
-50°	10.6	25.0	45.4	70.3	101.6	135.2	169.4	209.7	255.7	321.8	397.6
-52.5°	10.6	25.0	45.0	70.2	100.9	134.0	167.6	204.5	246.8	304.2	371.3
-55°	10.6	24.9	44.5	69.9	99.9	132.4	165.3	199.0	239.4	284.8	346.1
-57.5°	10.6	24.8	44.0	69.4	98.6	130.4	162.7	195.8	231.1	272.4	319.1
-60°	10.6	24.7	43.3	68.7	97.0	128.0	159.6	191.7	222.6	261.3	295.0
-62.5°	10.6	24.5	42.7	67.8	95.7	125.3	156.0	187.0	216.7	248.7	279.7
-65°	10.6	24.2	41.9	66.8	94.1	122.2	152.0	181.6	210.1	238.4	263.7
-67.5°	10.6	23.9	41.1	65.6	92.3	119.1	147.6	175.7	202.9	228.8	251.1
-70°	10.6	23.6	40.1	64.2	90.2	115.9	142.8	169.3	195.3	218.6	239.7
-72.5°	10.6	23.3	39.0	62.7	87.9	112.3	137.9	162.6	187.3	208.5	227.9
-75°	10.6	22.9	37.9	61.1	85.4	108.5	132.6	155.6	178.8	197.9	215.7
-77.5°	10.6	22.5	36.6	59.3	82.8	104.3	127.0	148.3	169.9	187.0	203.2
-80°	10.6	22.1	35.3	57.4	80.0	100.5	121.0	140.7	160.6	175.9	190.6
-82.5°	10.6	21.6	34.0	55.3	77.1	96.8	116.3	133.5	151.0	164.5	177.8
-85°	10.6	21.1	32.5	53.1	74.0	92.8	111.6	127.6	143.7	154.9	166.1
-87.5°	10.6	20.6	31.0	50.8	70.7	88.7	106.7	121.5	136.4	146.4	156.4
-90°	10.6	9.5	8.3	8.3	8.3	8.3	8.3	7.7	7.1	7.1	7.1



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	153.0	159.5	165.4	171.3	178.4	185.5	192.6	199.7	207.4	215.0	222.7
87.5°	7.1	6.5	6.5	6.6	6.0	5.5	5.1	4.7	4.7	4.7	4.6
85°	7.6	7.1	7.1	7.1	6.6	6.3	5.7	5.2	5.3	5.3	5.1
82.5°	8.2	7.7	7.5	7.1	7.0	7.0	6.6	6.1	6.0	5.9	5.6
80°	8.8	8.4	7.9	7.5	7.4	7.2	6.9	6.9	6.6	6.1	6.0
77.5°	9.0	8.4	8.2	8.1	7.9	7.3	7.1	7.1	7.0	6.9	6.6
75°	9.1	8.5	8.5	8.4	7.9	7.3	7.1	7.4	7.4	7.2	7.0
72.5°	9.5	9.2	8.9	8.6	8.3	8.0	7.9	8.2	8.9	9.5	10.0
70°	10.6	10.1	9.8	9.5	9.1	9.1	10.0	12.0	14.0	14.8	16.7
67.5°	11.7	11.3	11.0	10.7	10.8	11.7	13.1	17.4	21.2	23.8	26.7
65°	12.9	12.7	12.7	12.9	13.0	16.6	20.5	24.8	31.5	35.2	35.3
62.5°	14.4	16.2	15.5	16.5	19.9	23.7	29.6	37.4	45.8	49.2	47.0
60°	20.5	21.4	21.9	24.4	27.7	31.9	40.1	49.5	59.2	65.1	56.4
57.5°	28.2	29.4	31.6	33.1	36.8	39.2	49.0	60.4	66.7	70.5	60.6
55°	37.8	39.7	42.9	43.6	46.7	47.7	55.9	63.7	69.1	70.2	59.5
52.5°	50.1	52.2	56.9	57.6	57.7	58.8	59.8	68.5	72.8	71.6	61.8
50°	63.3	70.6	73.1	75.8	72.3	73.7	69.8	79.9	88.4	86.1	89.0
47.5°	82.8	91.9	95.6	100.5	97.9	106.0	103.1	122.2	128.8	167.1	175.6
45°	106.2	122.5	127.4	138.6	150.0	159.5	190.3	192.7	273.3	307.0	370.3
42.5°	134.4	159.8	180.4	184.5	239.4	268.7	311.5	381.8	452.5	517.2	560.3
40°	176.3	202.6	246.6	298.1	356.4	419.3	476.3	558.0	626.5	677.4	707.8
37.5°	223.9	273.9	334.1	427.0	505.6	569.8	634.6	705.2	769.6	814.3	872.6
35°	276.2	349.0	460.6	557.3	641.8	702.1	765.4	840.3	901.1	973.3	1045.2
32.5°	339.6	425.7	565.7	670.1	738.8	810.2	883.2	962.0	1049.1	1138.0	1230.1
30°	402.4	512.1	648.9	757.4	823.9	907.1	995.8	1088.1	1202.5	1314.4	1438.9
27.5°	451.7	586.2	716.4	828.5	905.9	1004.4	1112.7	1233.2	1369.0	1506.0	1671.3
25°	495.8	641.4	784.4	903.2	1001.5	1110.7	1238.0	1382.6	1544.3	1736.9	2256.7
22.5°	538.8	695.1	859.4	983.3	1093.8	1217.2	1370.6	1539.4	1729.7	1985.7	2905.1
20°	583.0	755.9	931.3	1049.8	1178.0	1316.3	1496.1	1692.0	1927.8	2532.5	3888.8
17.5°	628.4	818.7	992.5	1108.2	1243.2	1411.9	1620.9	1841.9	2129.4	3044.6	5120.7
15°	672.6	877.8	1041.5	1159.9	1308.8	1505.1	1738.6	2009.2	2486.2	3759.3	6355.0
12.5°	715.0	930.9	1078.0	1204.3	1373.5	1592.9	1847.7	2151.5	2905.6	4723.8	7701.3
10°	754.7	978.0	1109.7	1246.8	1436.7	1675.4	1945.4	2276.6	3271.7	5494.6	8767.1
7.5°	797.8	1018.4	1138.4	1287.1	1494.9	1750.8	2025.9	2372.9	3544.5	6085.5	9558.8
5°	837.0	1051.1	1171.6	1334.3	1552.9	1818.9	2094.8	2453.6	3730.6	6460.1	10108.3
2.5°	871.1	1077.3	1202.3	1379.1	1607.2	1878.6	2157.2	2534.4	3896.7	6776.8	10803.6
0°	900.3	1097.7	1230.0	1419.0	1654.2	1928.3	2208.3	2599.4	4007.8	6990.0	11609.9
-2.5°	918.1	1128.1	1276.1	1460.9	1692.9	1963.5	2254.5	2668.9	4120.3	7451.0	11917.0
-5°	930.9	1152.7	1317.5	1497.6	1724.3	1989.3	2288.2	2718.1	4168.7	7577.8	11827.6
-7.5°	938.4	1170.6	1352.9	1529.7	1752.3	2019.1	2341.6	2784.0	4190.6	7265.3	11320.7
-10°	942.3	1185.6	1376.1	1556.3	1778.3	2046.6	2383.1	2826.5	4100.6	6843.6	10737.6
-12.5°	952.4	1198.4	1394.6	1576.0	1795.7	2066.4	2415.5	2858.5	3895.6	6264.2	9936.1
-15°	955.1	1204.9	1410.0	1589.5	1813.7	2095.3	2439.9	2864.0	3599.5	5515.6	8912.7
-17.5°	949.8	1205.3	1420.8	1600.0	1822.7	2106.4	2447.7	2848.3	3378.3	4971.6	7883.2
-20°	935.9	1191.2	1424.1	1601.0	1819.3	2111.0	2451.6	2841.5	3324.3	4415.3	6634.6



REPORT NUMBER: P735979 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	913.5	1168.9	1412.6	1599.3	1831.2	2112.9	2440.3	2799.4	3207.2	3744.4	5391.7
-25°	889.4	1137.3	1382.6	1605.0	1833.4	2103.0	2392.6	2722.3	3098.9	3519.0	4504.8
-27.5°	863.4	1100.4	1351.9	1597.9	1822.2	2066.2	2335.1	2644.1	2954.2	3293.6	3713.4
-30°	831.9	1060.3	1310.8	1572.0	1795.8	2023.7	2271.7	2521.5	2799.5	3104.9	3460.6
-32.5°	794.2	1013.1	1259.7	1517.8	1760.8	1974.3	2181.7	2406.1	2654.1	2923.4	3217.6
-35°	753.2	965.3	1199.8	1451.9	1718.0	1914.2	2094.4	2288.4	2508.1	2754.2	3027.4
-37.5°	711.7	910.1	1129.6	1375.4	1634.2	1839.5	2001.9	2182.9	2376.4	2587.1	2841.2
-40°	664.5	846.6	1056.4	1288.6	1518.2	1740.1	1918.5	2082.7	2252.6	2445.4	2652.9
-42.5°	613.8	784.7	976.3	1186.8	1395.2	1606.8	1830.2	1991.5	2143.6	2307.3	2489.2
-45°	571.4	716.4	889.7	1076.9	1264.7	1469.6	1685.2	1900.9	2039.8	2181.4	2336.4
-47.5°	522.2	647.2	805.6	961.6	1134.9	1328.1	1532.3	1732.3	1929.5	2067.3	2197.7
-50°	475.3	588.5	709.5	853.0	1007.5	1185.9	1372.9	1555.8	1740.6	1927.4	2076.1
-52.5°	443.1	525.7	630.7	744.0	886.9	1044.5	1208.5	1371.5	1545.1	1723.2	1894.7
-55°	408.2	479.0	553.8	650.2	767.8	908.2	1044.6	1190.6	1339.7	1504.0	1671.0
-57.5°	375.1	433.7	492.4	565.6	664.6	771.9	891.5	1011.3	1146.5	1284.1	1427.1
-60°	342.3	390.3	440.2	498.6	566.7	657.2	743.9	848.3	960.5	1073.7	1200.8
-62.5°	310.9	350.0	391.5	440.9	497.9	551.2	622.8	703.8	784.7	884.9	987.9
-65°	292.3	314.1	346.7	389.5	433.9	481.2	527.6	577.2	647.7	722.4	795.6
-67.5°	272.7	292.8	313.1	339.5	378.4	415.3	452.6	496.3	541.2	589.6	642.9
-70°	258.0	272.0	290.1	310.8	331.1	353.5	386.8	421.4	456.0	493.6	535.5
-72.5°	244.1	257.2	270.7	285.3	303.1	320.1	337.6	356.3	383.6	416.7	447.7
-75°	230.0	242.2	254.5	267.3	280.6	293.5	307.3	324.2	342.9	363.2	382.2
-77.5°	215.8	227.0	238.2	249.3	261.4	273.9	285.7	297.8	312.5	328.2	343.1
-80°	201.6	211.7	222.1	232.4	242.9	253.8	264.3	274.4	287.1	300.6	313.9
-82.5°	187.9	197.3	206.3	215.3	224.5	233.5	242.9	252.4	264.1	275.9	287.2
-85°	174.5	182.8	190.5	198.1	206.5	214.9	223.0	231.0	241.6	252.2	262.0
-87.5°	163.8	171.2	177.7	184.1	191.7	199.1	206.1	213.0	222.1	231.2	239.5
-90°	6.5	5.9	5.9	5.9	5.3	4.7	4.7	4.7	4.7	4.7	4.1



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	230.4	235.7	241.0	244.6	248.1	253.5	258.8	266.5	274.1	280.6	287.1
87.5°	4.5	4.0	3.5	3.4	3.4	3.4	3.4	2.9	2.4	2.4	2.4
85°	4.7	4.5	4.4	4.4	4.5	4.0	3.5	3.5	3.4	3.4	3.5
82.5°	5.3	5.0	4.7	4.7	4.7	4.6	4.5	4.0	3.5	3.5	3.5
80°	5.9	5.6	5.3	5.1	4.8	4.7	4.7	4.2	3.6	3.5	3.5
77.5°	6.1	6.1	5.9	5.4	4.8	4.7	4.7	4.2	3.6	3.5	3.5
75°	7.0	6.9	6.8	6.6	6.4	6.6	7.0	6.8	6.5	6.2	5.8
72.5°	10.6	10.7	10.5	11.1	11.7	12.2	12.5	12.9	13.4	14.3	15.3
70°	18.8	20.3	20.3	20.3	20.2	19.6	19.0	18.8	18.9	19.2	19.6
67.5°	28.4	29.6	30.1	30.3	27.7	25.9	25.3	25.3	26.4	28.5	31.6
65°	36.2	34.0	32.0	30.0	30.1	30.1	28.7	28.1	29.0	30.3	31.7
62.5°	43.1	34.2	28.5	25.7	26.2	27.2	24.5	22.5	21.9	21.5	21.6
60°	46.3	32.2	22.7	19.2	17.3	16.2	14.4	12.3	11.7	11.5	11.8
57.5°	46.7	30.7	18.1	14.3	10.9	8.4	7.1	6.2	6.2	6.0	5.8
55°	45.3	31.0	17.5	16.1	14.7	13.5	11.7	11.4	10.8	10.7	11.4
52.5°	46.9	43.5	35.6	34.5	42.1	42.3	36.5	44.9	50.5	55.0	57.0
50°	92.7	89.1	112.6	112.5	136.2	156.6	150.7	162.6	183.1	201.0	211.9
47.5°	216.7	233.7	268.9	300.4	336.1	381.1	401.1	415.4	433.3	457.4	473.5
45°	403.6	445.8	491.5	542.6	602.2	655.0	685.8	715.4	735.0	756.4	781.6
42.5°	599.2	649.6	717.4	778.4	843.0	904.7	953.3	996.1	1079.6	1198.7	1293.4
40°	766.7	824.0	902.7	984.2	1060.2	1138.2	1352.8	1535.6	1763.5	2103.7	2405.1
37.5°	933.0	999.2	1087.0	1186.9	1416.4	1648.8	2117.4	2623.6	3062.2	3554.0	4050.7
35°	1114.2	1201.2	1318.7	1654.7	2079.5	2699.0	3370.9	4122.7	4760.9	5447.7	6453.8
32.5°	1328.2	1480.1	1859.9	2470.8	3232.6	4112.4	4946.0	5891.0	6688.1	7949.8	9486.4
30°	1604.1	2080.6	2809.7	3653.1	4681.0	5794.7	6839.8	8370.5	10158.7	11741.8	13049.1
27.5°	2269.5	3189.8	4207.8	5276.6	6563.9	7913.4	10104.7	12085.9	14009.9	15719.2	17705.0
25°	3263.1	4739.6	6479.3	7912.1	9661.4	12100.3	14578.2	16760.1	19684.3	22256.2	25141.4
22.5°	4668.4	6770.8	9011.6	11103.7	13790.0	16844.6	20178.4	24198.6	28260.9	32773.2	36787.6
20°	6040.0	8700.1	11537.8	14549.5	17989.8	21809.0	27258.6	33782.9	40042.6	47151.8	53146.4
17.5°	7866.7	11082.3	14438.3	18266.7	22689.8	28565.6	36609.2	45530.3	55210.2	65825.9	75642.7
15°	9724.2	13188.4	17088.0	21987.8	28244.1	36229.9	46491.5	58635.9	72792.1	88397.6	107369.9
12.5°	11246.5	15034.6	19594.6	25769.3	33951.9	44631.6	57064.4	71683.5	91091.0	114628.5	136670.6
10°	12547.2	17089.4	22851.4	30159.3	39784.0	51840.4	65964.0	84063.4	110206.3	137473.6	161662.8
7.5°	13886.9	19260.4	25362.8	33286.1	44229.5	57914.6	75306.4	98941.7	127705.8	155672.9	177855.6
5°	15150.5	20740.9	26947.3	35412.6	47247.0	61944.8	81677.7	110465.5	141767.1	169159.1	189999.6
2.5°	16140.4	21485.5	27781.8	36996.3	48878.2	64135.1	85671.7	117591.6	150427.0	177423.1	198793.5
0°	16653.9	21889.3	28244.9	37986.7	50231.1	66145.4	87961.4	120736.4	153949.7	180239.0	202020.9
-2.5°	16540.3	21694.4	27958.2	37222.4	49921.9	66509.0	89865.3	122375.2	154556.4	181199.5	201727.7
-5°	16301.3	21387.4	27564.6	36283.1	48814.7	65594.7	87798.0	117686.7	148766.5	176096.3	196053.0
-7.5°	15855.8	20873.2	26779.7	34909.3	46979.7	62869.7	82906.1	108878.2	138694.0	166076.5	185396.2
-10°	15200.6	20079.0	25653.3	33046.9	43887.2	58481.9	75516.2	95798.7	123690.1	149291.3	170757.9
-12.5°	14269.3	18955.4	24090.5	30444.0	40152.0	53013.9	67699.2	84551.4	104485.7	129176.2	149297.9
-15°	13084.1	17491.3	22263.0	28257.7	36375.1	46913.6	59295.1	72368.5	87647.5	104690.9	124304.1
-17.5°	11629.6	15769.5	20213.1	25381.1	31946.0	40787.8	50582.2	60783.1	71811.8	84354.0	95876.9
-20°	9895.2	13682.0	17869.5	22676.5	28301.7	34688.2	41808.1	50054.8	58603.4	67555.1	75475.3



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8134.1	11588.5	15578.9	19782.1	24671.3	29546.2	34328.3	40460.0	47061.6	53542.2	59437.5
-25°	6364.5	9414.0	13124.2	17066.6	20990.7	24972.7	28855.4	32663.0	37413.5	41584.9	45911.8
-27.5°	5055.2	7336.4	10451.9	13892.3	17311.7	20634.3	23991.3	27171.8	30167.6	32686.8	35604.0
-30°	3975.6	5515.5	7922.2	10629.5	13621.5	16549.0	19441.7	22128.4	24487.6	26561.8	28587.6
-32.5°	3594.5	4223.2	5653.4	7710.8	10071.3	12639.6	15057.6	17365.2	19310.2	21237.7	23052.9
-35°	3325.1	3671.3	4138.8	5424.0	6961.2	9005.2	10900.5	12815.7	14449.1	16374.2	17862.8
-37.5°	3104.2	3370.9	3666.5	3969.6	4904.4	5927.8	7292.4	8728.0	9989.9	11604.8	12919.0
-40°	2890.4	3126.5	3357.6	3588.0	3836.6	4065.0	4877.3	5617.5	6473.5	7578.3	8523.4
-42.5°	2683.7	2891.6	3091.8	3279.0	3452.7	3602.7	3766.1	3922.8	4385.1	4948.1	5380.5
-45°	2498.2	2674.9	2842.4	3000.8	3133.1	3253.2	3379.1	3510.3	3682.1	3838.3	3967.2
-47.5°	2340.5	2480.2	2617.5	2746.5	2848.1	2950.5	3050.8	3164.0	3297.8	3428.9	3538.6
-50°	2197.8	2318.7	2422.9	2514.3	2598.8	2685.4	2765.3	2865.8	2973.5	3081.9	3172.7
-52.5°	2061.1	2168.7	2255.7	2325.3	2389.7	2460.4	2529.1	2609.3	2696.7	2787.9	2860.0
-55°	1831.4	1968.1	2094.5	2159.9	2210.4	2268.7	2326.9	2391.8	2465.6	2542.3	2599.4
-57.5°	1577.6	1712.5	1831.6	1916.4	2000.2	2085.7	2149.7	2200.5	2267.3	2332.7	2382.1
-60°	1322.7	1435.9	1541.0	1626.8	1714.1	1799.8	1871.7	1938.0	2020.6	2095.7	2156.7
-62.5°	1085.5	1184.5	1265.6	1335.0	1409.4	1483.9	1552.5	1617.8	1692.8	1760.2	1817.4
-65°	869.8	952.9	1012.9	1067.4	1126.6	1188.2	1242.6	1296.7	1357.0	1411.0	1457.9
-67.5°	703.3	758.4	795.8	830.5	877.5	925.5	968.0	1011.1	1057.2	1098.1	1133.6
-70°	575.8	610.1	633.2	659.8	693.3	723.9	751.9	783.4	817.4	848.6	877.0
-72.5°	477.4	500.9	518.2	539.4	560.7	580.1	597.9	620.5	645.2	669.4	692.3
-75°	399.8	415.1	431.7	447.0	461.5	475.7	488.7	506.9	526.0	544.1	561.5
-77.5°	358.8	370.1	379.4	387.9	395.8	405.0	414.0	429.4	446.1	460.0	473.2
-80°	326.9	335.8	343.5	350.0	356.0	363.4	371.0	383.5	396.6	408.4	419.9
-82.5°	298.4	306.0	313.0	319.1	324.8	331.2	337.5	348.5	359.8	369.8	379.6
-85°	271.7	278.3	284.6	289.9	295.2	301.1	306.9	316.5	326.1	335.1	343.9
-87.5°	247.8	253.6	259.4	263.4	267.4	273.0	278.7	287.2	295.8	303.7	311.5
-90°	3.5	3.5	3.5	3.0	2.4	2.4	2.4	2.4	2.4	1.8	1.2



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	290.7	294.2	294.8	295.4	294.8	294.2	290.7	287.1	280.6	274.1	266.5
87.5°	1.8	1.2	1.8	2.4	1.8	1.2	1.8	2.4	2.4	2.4	2.9
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.6	4.2
77.5°	3.0	2.4	2.9	3.5	2.9	2.4	3.0	3.5	3.5	3.6	4.2
75°	5.2	4.7	4.1	3.5	4.1	4.7	5.2	5.8	6.2	6.5	6.8
72.5°	15.8	16.2	17.0	17.7	17.0	16.2	15.8	15.3	14.3	13.4	12.9
70°	18.9	17.8	17.7	17.7	17.7	17.8	18.9	19.6	19.2	18.9	18.8
67.5°	33.9	35.7	36.4	36.6	36.4	35.7	33.9	31.6	28.5	26.4	25.3
65°	32.9	34.1	34.3	34.3	34.3	34.1	32.9	31.7	30.3	29.0	28.1
62.5°	22.0	22.6	23.1	23.6	23.1	22.6	22.0	21.6	21.5	21.9	22.5
60°	12.3	13.1	13.6	14.2	13.6	13.1	12.3	11.8	11.5	11.7	12.3
57.5°	5.7	6.1	6.5	7.1	6.5	6.1	5.7	5.8	6.0	6.2	6.2
55°	11.9	12.6	12.9	13.0	12.9	12.6	11.9	11.4	10.7	10.8	11.4
52.5°	56.0	53.4	51.2	49.6	51.2	53.4	56.0	57.0	55.0	50.5	44.9
50°	216.5	211.3	205.3	199.7	205.3	211.3	216.5	211.9	201.0	183.1	162.6
47.5°	483.1	478.8	469.9	458.4	469.9	478.8	483.1	473.5	457.4	433.3	415.4
45°	816.4	840.1	850.7	844.8	850.7	840.1	816.4	781.6	756.4	735.0	715.4
42.5°	1325.6	1346.4	1348.3	1317.4	1348.3	1346.4	1325.6	1293.4	1198.7	1079.6	996.1
40°	2623.2	2805.0	2867.3	2679.7	2867.3	2805.0	2623.2	2405.1	2103.7	1763.5	1535.6
37.5°	4649.3	5363.5	5959.2	5982.2	5959.2	5363.5	4649.3	4050.7	3554.0	3062.2	2623.6
35°	7535.0	8269.8	8625.0	8609.9	8625.0	8269.8	7535.0	6453.8	5447.7	4760.9	4122.7
32.5°	10590.5	11147.2	11503.0	11417.3	11503.0	11147.2	10590.5	9486.4	7949.8	6688.1	5891.0
30°	13982.7	14499.2	14913.9	14907.6	14913.9	14499.2	13982.7	13049.1	11741.8	10158.7	8370.5
27.5°	19321.5	20385.8	21231.7	21088.2	21231.7	20385.8	19321.5	17705.0	15719.2	14009.9	12085.9
25°	27575.1	29521.8	30898.3	30615.1	30898.3	29521.8	27575.1	25141.4	22256.2	19684.3	16760.1
22.5°	39767.8	42265.3	43309.5	42481.3	43309.5	42265.3	39767.8	36787.6	32773.2	28260.9	24198.6
20°	58857.3	63487.5	66366.1	64649.5	66366.1	63487.5	58857.3	53146.4	47151.8	40042.6	33782.9
17.5°	88348.3	98393.2	106329.9	106111.2	106329.9	98393.2	88348.3	75642.7	65825.9	55210.2	45530.3
15°	123888.0	135321.0	144124.4	145142.4	144124.4	135321.0	123888.0	107369.9	88397.6	72792.1	58635.9
12.5°	155710.0	167337.5	175952.4	178431.4	175952.4	167337.5	155710.0	136670.6	114628.5	91091.0	71683.5
10°	178389.5	189992.9	198331.4	201271.8	198331.4	189992.9	178389.5	161662.8	137473.6	110206.3	84063.4
7.5°	195026.9	207615.5	213866.0	217060.8	213866.0	207615.5	195026.9	177855.6	155672.9	127705.8	98941.7
5°	206998.5	218698.2	224745.0	228616.3	224745.0	218698.2	206998.5	189999.6	169159.1	141767.1	110465.5
2.5°	214545.3	225590.8	232852.3	236324.8	232852.3	225590.8	214545.3	198793.5	177423.1	150427.0	117591.6
0°	216981.1	227584.8	235724.0	238836.7	235724.0	227584.8	216981.1	202020.9	180239.0	153949.7	120736.4
-2.5°	215848.1	226235.4	232726.9	233985.2	232726.9	226235.4	215848.1	201727.7	181199.5	154556.4	122375.2
-5°	209952.1	219525.8	225519.9	226504.9	225519.9	219525.8	209952.1	196053.0	176096.3	148766.5	117686.7
-7.5°	199787.5	209337.6	214292.2	215751.1	214292.2	209337.6	199787.5	185396.2	166076.5	138694.0	108878.2
-10°	185049.9	194276.3	199571.6	200827.5	199571.6	194276.3	185049.9	170757.9	149291.3	123690.1	95798.7
-12.5°	164939.9	174782.7	180709.2	182014.9	180709.2	174782.7	164939.9	149297.9	129176.2	104485.7	84551.4
-15°	138863.3	148987.9	156553.7	158384.0	156553.7	148987.9	138863.3	124304.1	104690.9	87647.5	72368.5
-17.5°	108804.8	118936.4	125735.0	127032.8	125735.0	118936.4	108804.8	95876.9	84354.0	71811.8	60783.1
-20°	82916.4	89432.5	93269.5	93937.7	93269.5	89432.5	82916.4	75475.3	67555.1	58603.4	50054.8



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	64255.2	68634.7	70970.8	71300.4	70970.8	68634.7	64255.2	59437.5	53542.2	47061.6	40460.0
-25°	49791.6	52973.6	54713.7	55003.4	54713.7	52973.6	49791.6	45911.8	41584.9	37413.5	32663.0
-27.5°	38231.4	40208.1	41827.1	41490.0	41827.1	40208.1	38231.4	35604.0	32686.8	30167.6	27171.8
-30°	30251.9	31519.7	32476.0	32225.5	32476.0	31519.7	30251.9	28587.6	26561.8	24487.6	22128.4
-32.5°	24484.9	25478.2	26150.4	26329.6	26150.4	25478.2	24484.9	23052.9	21237.7	19310.2	17365.2
-35°	19030.9	19842.5	20308.3	20489.2	20308.3	19842.5	19030.9	17862.8	16374.2	14449.1	12815.7
-37.5°	13894.5	14606.4	15050.8	15205.3	15050.8	14606.4	13894.5	12919.0	11604.8	9989.9	8728.0
-40°	9247.1	9795.7	10159.8	10300.7	10159.8	9795.7	9247.1	8523.4	7578.3	6473.5	5617.5
-42.5°	5717.4	5974.2	6136.8	6187.8	6136.8	5974.2	5717.4	5380.5	4948.1	4385.1	3922.8
-45°	4066.9	4137.8	4178.5	4186.2	4178.5	4137.8	4066.9	3967.2	3838.3	3682.1	3510.3
-47.5°	3624.3	3680.2	3708.8	3710.1	3708.8	3680.2	3624.3	3538.6	3428.9	3297.8	3164.0
-50°	3247.6	3299.3	3325.5	3327.2	3325.5	3299.3	3247.6	3172.7	3081.9	2973.5	2865.8
-52.5°	2919.1	2960.4	2979.5	2979.9	2979.5	2960.4	2919.1	2860.0	2787.9	2696.7	2609.3
-55°	2646.3	2678.5	2690.3	2688.0	2690.3	2678.5	2646.3	2599.4	2542.3	2465.6	2391.8
-57.5°	2423.2	2454.6	2464.5	2461.2	2464.5	2454.6	2423.2	2382.1	2332.7	2267.3	2200.5
-60°	2204.3	2238.0	2250.7	2249.7	2250.7	2238.0	2204.3	2156.7	2095.7	2020.6	1938.0
-62.5°	1858.3	1884.2	1898.0	1902.3	1898.0	1884.2	1858.3	1817.4	1760.2	1692.8	1617.8
-65°	1490.2	1510.8	1521.9	1525.4	1521.9	1510.8	1490.2	1457.9	1411.0	1357.0	1296.7
-67.5°	1156.6	1171.4	1178.6	1180.4	1178.6	1171.4	1156.6	1133.6	1098.1	1057.2	1011.1
-70°	894.6	906.6	912.3	914.5	912.3	906.6	894.6	877.0	848.6	817.4	783.4
-72.5°	705.5	715.2	719.1	720.7	719.1	715.2	705.5	692.3	669.4	645.2	620.5
-75°	569.7	575.5	577.9	579.0	577.9	575.5	569.7	561.5	544.1	526.0	506.9
-77.5°	480.4	486.7	488.8	490.3	488.8	486.7	480.4	473.2	460.0	446.1	429.4
-80°	425.0	429.4	431.1	432.4	431.1	429.4	425.0	419.9	408.4	396.6	383.5
-82.5°	385.8	391.8	392.2	392.3	392.2	391.8	385.8	379.6	369.8	359.8	348.5
-85°	348.5	353.0	353.8	354.5	353.8	353.0	348.5	343.9	335.1	326.1	316.5
-87.5°	315.8	320.1	320.2	320.2	320.2	320.1	315.8	311.5	303.7	295.8	287.2
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	258.8	253.5	248.1	244.6	241.0	235.7	230.4	222.7	215.0	207.4	199.7
87.5°	3.4	3.4	3.4	3.4	3.5	4.0	4.5	4.6	4.7	4.7	4.7
85°	3.5	4.0	4.5	4.4	4.4	4.5	4.7	5.1	5.3	5.3	5.2
82.5°	4.5	4.6	4.7	4.7	4.7	5.0	5.3	5.6	5.9	6.0	6.1
80°	4.7	4.7	4.8	5.1	5.3	5.6	5.9	6.0	6.1	6.6	6.9
77.5°	4.7	4.7	4.8	5.4	5.9	6.1	6.1	6.6	6.9	7.0	7.1
75°	7.0	6.6	6.4	6.6	6.8	6.9	7.0	7.0	7.2	7.4	7.4
72.5°	12.5	12.2	11.7	11.1	10.5	10.7	10.6	10.0	9.5	8.9	8.2
70°	19.0	19.6	20.2	20.3	20.3	20.3	18.8	16.7	14.8	14.0	12.0
67.5°	25.3	25.9	27.7	30.3	30.1	29.6	28.4	26.7	23.8	21.2	17.4
65°	28.7	30.1	30.1	30.0	32.0	34.0	36.2	35.3	35.2	31.5	24.8
62.5°	24.5	27.2	26.2	25.7	28.5	34.2	43.1	47.0	49.2	45.8	37.4
60°	14.4	16.2	17.3	19.2	22.7	32.2	46.3	56.4	65.1	59.2	49.5
57.5°	7.1	8.4	10.9	14.3	18.1	30.7	46.7	60.6	70.5	66.7	60.4
55°	11.7	13.5	14.7	16.1	17.5	31.0	45.3	59.5	70.2	69.1	63.7
52.5°	36.5	42.3	42.1	34.5	35.6	43.5	46.9	61.8	71.6	72.8	68.5
50°	150.7	156.6	136.2	112.5	112.6	89.1	92.7	89.0	86.1	88.4	79.9
47.5°	401.1	381.1	336.1	300.4	268.9	233.7	216.7	175.6	167.1	128.8	122.2
45°	685.8	655.0	602.2	542.6	491.5	445.8	403.6	370.3	307.0	273.3	192.7
42.5°	953.3	904.7	843.0	778.4	717.4	649.6	599.2	560.3	517.2	452.5	381.8
40°	1352.8	1138.2	1060.2	984.2	902.7	824.0	766.7	707.8	677.4	626.5	558.0
37.5°	2117.4	1648.8	1416.4	1186.9	1087.0	999.2	933.0	872.6	814.3	769.6	705.2
35°	3370.9	2699.0	2079.5	1654.7	1318.7	1201.2	1114.2	1045.2	973.3	901.1	840.3
32.5°	4946.0	4112.4	3232.6	2470.8	1859.9	1480.1	1328.2	1230.1	1138.0	1049.1	962.0
30°	6839.8	5794.7	4681.0	3653.1	2809.7	2080.6	1604.1	1438.9	1314.4	1202.5	1088.1
27.5°	10104.7	7913.4	6563.9	5276.6	4207.8	3189.8	2269.5	1671.3	1506.0	1369.0	1233.2
25°	14578.2	12100.3	9661.4	7912.1	6479.3	4739.6	3263.1	2256.7	1736.9	1544.3	1382.6
22.5°	20178.4	16844.6	13790.0	11103.7	9011.6	6770.8	4668.4	2905.1	1985.7	1729.7	1539.4
20°	27258.6	21809.0	17989.8	14549.5	11537.8	8700.1	6040.0	3888.8	2532.5	1927.8	1692.0
17.5°	36609.2	28565.6	22689.8	18266.7	14438.3	11082.3	7866.7	5120.7	3044.6	2129.4	1841.9
15°	46491.5	36229.9	28244.1	21987.8	17088.0	13188.4	9724.2	6355.0	3759.3	2486.2	2009.2
12.5°	57064.4	44631.6	33951.9	25769.3	19594.6	15034.6	11246.5	7701.3	4723.8	2905.6	2151.5
10°	65964.0	51840.4	39784.0	30159.3	22851.4	17089.4	12547.2	8767.1	5494.6	3271.7	2276.6
7.5°	75306.4	57914.6	44229.5	33286.1	25362.8	19260.4	13886.9	9558.8	6085.5	3544.5	2372.9
5°	81677.7	61944.8	47247.0	35412.6	26947.3	20740.9	15150.5	10108.3	6460.1	3730.6	2453.6
2.5°	85671.7	64135.1	48878.2	36996.3	27781.8	21485.5	16140.4	10803.6	6776.8	3896.7	2534.4
0°	87961.4	66145.4	50231.1	37986.7	28244.9	21889.3	16653.9	11609.9	6990.0	4007.8	2599.4
-2.5°	89865.3	66509.0	49921.9	37222.4	27958.2	21694.4	16540.3	11917.0	7451.0	4120.3	2668.9
-5°	87798.0	65594.7	48814.7	36283.1	27564.6	21387.4	16301.3	11827.6	7577.8	4168.7	2718.1
-7.5°	82906.1	62869.7	46979.7	34909.3	26779.7	20873.2	15855.8	11320.7	7265.3	4190.6	2784.0
-10°	75516.2	58481.9	43887.2	33046.9	25653.3	20079.0	15200.6	10737.6	6843.6	4100.6	2826.5
-12.5°	67699.2	53013.9	40152.0	30444.0	24090.5	18955.4	14269.3	9936.1	6264.2	3895.6	2858.5
-15°	59295.1	46913.6	36375.1	28257.7	22263.0	17491.3	13084.1	8912.7	5515.6	3599.5	2864.0
-17.5°	50582.2	40787.8	31946.0	25381.1	20213.1	15769.5	11629.6	7883.2	4971.6	3378.3	2848.3
-20°	41808.1	34688.2	28301.7	22676.5	17869.5	13682.0	9895.2	6634.6	4415.3	3324.3	2841.5



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	34328.3	29546.2	24671.3	19782.1	15578.9	11588.5	8134.1	5391.7	3744.4	3207.2	2799.4
-25°	28855.4	24972.7	20990.7	17066.6	13124.2	9414.0	6364.5	4504.8	3519.0	3098.9	2722.3
-27.5°	23991.3	20634.3	17311.7	13892.3	10451.9	7336.4	5055.2	3713.4	3293.6	2954.2	2644.1
-30°	19441.7	16549.0	13621.5	10629.5	7922.2	5515.5	3975.6	3460.6	3104.9	2799.5	2521.5
-32.5°	15057.6	12639.6	10071.3	7710.8	5653.4	4223.2	3594.5	3217.6	2923.4	2654.1	2406.1
-35°	10900.5	9005.2	6961.2	5424.0	4138.8	3671.3	3325.1	3027.4	2754.2	2508.1	2288.4
-37.5°	7292.4	5927.8	4904.4	3969.6	3666.5	3370.9	3104.2	2841.2	2587.1	2376.4	2182.9
-40°	4877.3	4065.0	3836.6	3588.0	3357.6	3126.5	2890.4	2652.9	2445.4	2252.6	2082.7
-42.5°	3766.1	3602.7	3452.7	3279.0	3091.8	2891.6	2683.7	2489.2	2307.3	2143.6	1991.5
-45°	3379.1	3253.2	3133.1	3000.8	2842.4	2674.9	2498.2	2336.4	2181.4	2039.8	1900.9
-47.5°	3050.8	2950.5	2848.1	2746.5	2617.5	2480.2	2340.5	2197.7	2067.3	1929.5	1732.3
-50°	2765.3	2685.4	2598.8	2514.3	2422.9	2318.7	2197.8	2076.1	1927.4	1740.6	1555.8
-52.5°	2529.1	2460.4	2389.7	2325.3	2255.7	2168.7	2061.1	1894.7	1723.2	1545.1	1371.5
-55°	2326.9	2268.7	2210.4	2159.9	2094.5	1968.1	1831.4	1671.0	1504.0	1339.7	1190.6
-57.5°	2149.7	2085.7	2000.2	1916.4	1831.6	1712.5	1577.6	1427.1	1284.1	1146.5	1011.3
-60°	1871.7	1799.8	1714.1	1626.8	1541.0	1435.9	1322.7	1200.8	1073.7	960.5	848.3
-62.5°	1552.5	1483.9	1409.4	1335.0	1265.6	1184.5	1085.5	987.9	884.9	784.7	703.8
-65°	1242.6	1188.2	1126.6	1067.4	1012.9	952.9	869.8	795.6	722.4	647.7	577.2
-67.5°	968.0	925.5	877.5	830.5	795.8	758.4	703.3	642.9	589.6	541.2	496.3
-70°	751.9	723.9	693.3	659.8	633.2	610.1	575.8	535.5	493.6	456.0	421.4
-72.5°	597.9	580.1	560.7	539.4	518.2	500.9	477.4	447.7	416.7	383.6	356.3
-75°	488.7	475.7	461.5	447.0	431.7	415.1	399.8	382.2	363.2	342.9	324.2
-77.5°	414.0	405.0	395.8	387.9	379.4	370.1	358.8	343.1	328.2	312.5	297.8
-80°	371.0	363.4	356.0	350.0	343.5	335.8	326.9	313.9	300.6	287.1	274.4
-82.5°	337.5	331.2	324.8	319.1	313.0	306.0	298.4	287.2	275.9	264.1	252.4
-85°	306.9	301.1	295.2	289.9	284.6	278.3	271.7	262.0	252.2	241.6	231.0
-87.5°	278.7	273.0	267.4	263.4	259.4	253.6	247.8	239.5	231.2	222.1	213.0
-90°	2.4	2.4	2.4	3.0	3.5	3.5	3.5	4.1	4.7	4.7	4.7



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	192.6	185.5	178.4	171.3	165.4	159.5	153.0	146.5	137.7	128.8	115.2
87.5°	5.1	5.5	6.0	6.6	6.5	6.5	7.1	7.6	7.6	7.5	8.1
85°	5.7	6.3	6.6	7.1	7.1	7.1	7.6	8.1	8.0	7.9	8.4
82.5°	6.6	7.0	7.0	7.1	7.5	7.7	8.2	8.6	8.6	8.4	8.8
80°	6.9	7.2	7.4	7.5	7.9	8.4	8.8	9.2	9.3	9.2	9.4
77.5°	7.1	7.3	7.9	8.1	8.2	8.4	9.0	9.6	10.0	10.0	10.1
75°	7.1	7.3	7.9	8.4	8.5	8.5	9.1	9.8	10.4	10.8	10.8
72.5°	7.9	8.0	8.3	8.6	8.9	9.2	9.5	10.0	10.8	11.3	11.5
70°	10.0	9.1	9.1	9.5	9.8	10.1	10.6	10.9	11.2	11.9	12.2
67.5°	13.1	11.7	10.8	10.7	11.0	11.3	11.7	12.0	12.2	12.5	12.9
65°	20.5	16.6	13.0	12.9	12.7	12.7	12.9	13.4	13.3	13.9	13.6
62.5°	29.6	23.7	19.9	16.5	15.5	16.2	14.4	16.0	14.8	15.6	15.2
60°	40.1	31.9	27.7	24.4	21.9	21.4	20.5	19.1	18.6	17.5	17.2
57.5°	49.0	39.2	36.8	33.1	31.6	29.4	28.2	25.8	23.2	21.7	19.5
55°	55.9	47.7	46.7	43.6	42.9	39.7	37.8	34.6	29.3	26.9	22.1
52.5°	59.8	58.8	57.7	57.6	56.9	52.2	50.1	44.2	39.6	32.5	27.3
50°	69.8	73.7	72.3	75.8	73.1	70.6	63.3	57.2	50.6	39.9	33.0
47.5°	103.1	106.0	97.9	100.5	95.6	91.9	82.8	72.0	62.3	50.7	39.0
45°	190.3	159.5	150.0	138.6	127.4	122.5	106.2	87.7	76.8	62.2	45.1
42.5°	311.5	268.7	239.4	184.5	180.4	159.8	134.4	113.2	92.0	74.2	53.9
40°	476.3	419.3	356.4	298.1	246.6	202.6	176.3	142.6	107.9	87.3	64.6
37.5°	634.6	569.8	505.6	427.0	334.1	273.9	223.9	174.4	128.6	102.4	75.6
35°	765.4	702.1	641.8	557.3	460.6	349.0	276.2	213.0	158.1	118.2	86.7
32.5°	883.2	810.2	738.8	670.1	565.7	425.7	339.6	257.1	188.3	134.6	97.9
30°	995.8	907.1	823.9	757.4	648.9	512.1	402.4	299.1	219.1	151.5	109.3
27.5°	1112.7	1004.4	905.9	828.5	716.4	586.2	451.7	338.9	250.3	170.1	121.7
25°	1238.0	1110.7	1001.5	903.2	784.4	641.4	495.8	376.7	282.9	191.5	133.6
22.5°	1370.6	1217.2	1093.8	983.3	859.4	695.1	538.8	415.4	308.1	211.5	144.9
20°	1496.1	1316.3	1178.0	1049.8	931.3	755.9	583.0	446.7	331.7	230.1	155.5
17.5°	1620.9	1411.9	1243.2	1108.2	992.5	818.7	628.4	476.0	353.6	247.2	165.5
15°	1738.6	1505.1	1308.8	1159.9	1041.5	877.8	672.6	503.5	373.6	262.8	175.5
12.5°	1847.7	1592.9	1373.5	1204.3	1078.0	930.9	715.0	529.1	391.7	278.5	185.7
10°	1945.4	1675.4	1436.7	1246.8	1109.7	978.0	754.7	557.2	415.2	294.0	195.2
7.5°	2025.9	1750.8	1494.9	1287.1	1138.4	1018.4	797.8	593.2	438.3	308.0	204.0
5°	2094.8	1818.9	1552.9	1334.3	1171.6	1051.1	837.0	627.2	459.8	320.4	212.1
2.5°	2157.2	1878.6	1607.2	1379.1	1202.3	1077.3	871.1	658.5	479.2	331.2	219.3
0°	2208.3	1928.3	1654.2	1419.0	1230.0	1097.7	900.3	686.5	496.2	340.3	225.7
-2.5°	2254.5	1963.5	1692.9	1460.9	1276.1	1128.1	918.1	700.5	510.2	352.3	233.4
-5°	2288.2	1989.3	1724.3	1497.6	1317.5	1152.7	930.9	710.8	521.3	362.2	240.2
-7.5°	2341.6	2019.1	1752.3	1529.7	1352.9	1170.6	938.4	717.2	529.5	370.0	246.0
-10°	2383.1	2046.6	1778.3	1556.3	1376.1	1185.6	942.3	720.0	534.6	375.3	250.6
-12.5°	2415.5	2066.4	1795.7	1576.0	1394.6	1198.4	952.4	723.2	536.6	378.2	254.1
-15°	2439.9	2095.3	1813.7	1589.5	1410.0	1204.9	955.1	723.0	534.2	377.7	256.3
-17.5°	2447.7	2106.4	1822.7	1600.0	1420.8	1205.3	949.8	717.0	528.3	374.0	257.8
-20°	2451.6	2111.0	1819.3	1601.0	1424.1	1191.2	935.9	704.6	518.7	368.1	258.6



REPORT NUMBER: P735979 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2440.3	2112.9	1831.2	1599.3	1412.6	1168.9	913.5	686.2	505.5	359.9	258.2
-25°	2392.6	2103.0	1833.4	1605.0	1382.6	1137.3	889.4	667.1	488.5	349.5	256.7
-27.5°	2335.1	2066.2	1822.2	1597.9	1351.9	1100.4	863.4	650.7	473.9	336.8	254.0
-30°	2271.7	2023.7	1795.8	1572.0	1310.8	1060.3	831.9	629.2	460.4	329.2	250.3
-32.5°	2181.7	1974.3	1760.8	1517.8	1259.7	1013.1	794.2	602.3	443.3	324.9	247.1
-35°	2094.4	1914.2	1718.0	1451.9	1199.8	965.3	753.2	569.9	422.7	318.7	243.3
-37.5°	2001.9	1839.5	1634.2	1375.4	1129.6	910.1	711.7	539.0	398.5	310.6	238.4
-40°	1918.5	1740.1	1518.2	1288.6	1056.4	846.6	664.5	508.7	383.0	300.8	232.1
-42.5°	1830.2	1606.8	1395.2	1186.8	976.3	784.7	613.8	474.9	370.2	291.2	224.5
-45°	1685.2	1469.6	1264.7	1076.9	889.7	716.4	571.4	440.5	355.0	281.0	218.1
-47.5°	1532.3	1328.1	1134.9	961.6	805.6	647.2	522.2	420.5	337.5	269.2	214.3
-50°	1372.9	1185.9	1007.5	853.0	709.5	588.5	475.3	397.6	321.8	255.7	209.7
-52.5°	1208.5	1044.5	886.9	744.0	630.7	525.7	443.1	371.3	304.2	246.8	204.5
-55°	1044.6	908.2	767.8	650.2	553.8	479.0	408.2	346.1	284.8	239.4	199.0
-57.5°	891.5	771.9	664.6	565.6	492.4	433.7	375.1	319.1	272.4	231.1	195.8
-60°	743.9	657.2	566.7	498.6	440.2	390.3	342.3	295.0	261.3	222.6	191.7
-62.5°	622.8	551.2	497.9	440.9	391.5	350.0	310.9	279.7	248.7	216.7	187.0
-65°	527.6	481.2	433.9	389.5	346.7	314.1	292.3	263.7	238.4	210.1	181.6
-67.5°	452.6	415.3	378.4	339.5	313.1	292.8	272.7	251.1	228.8	202.9	175.7
-70°	386.8	353.5	331.1	310.8	290.1	272.0	258.0	239.7	218.6	195.3	169.3
-72.5°	337.6	320.1	303.1	285.3	270.7	257.2	244.1	227.9	208.5	187.3	162.6
-75°	307.3	293.5	280.6	267.3	254.5	242.2	230.0	215.7	197.9	178.8	155.6
-77.5°	285.7	273.9	261.4	249.3	238.2	227.0	215.8	203.2	187.0	169.9	148.3
-80°	264.3	253.8	242.9	232.4	222.1	211.7	201.6	190.6	175.9	160.6	140.7
-82.5°	242.9	233.5	224.5	215.3	206.3	197.3	187.9	177.8	164.5	151.0	133.5
-85°	223.0	214.9	206.5	198.1	190.5	182.8	174.5	166.1	154.9	143.7	127.6
-87.5°	206.1	199.1	191.7	184.1	177.7	171.2	163.8	156.4	146.4	136.4	121.5
-90°	4.7	4.7	5.3	5.9	5.9	5.9	6.5	7.1	7.1	7.1	7.7



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	101.6	84.4	67.3	48.4	29.5	20.0	10.6
87.5°	8.6	8.7	8.7	8.6	8.5	9.7	10.6
85°	8.9	9.1	9.1	8.9	8.7	9.9	10.6
82.5°	9.3	9.4	9.5	9.2	8.9	10.1	10.6
80°	9.6	9.8	9.9	9.5	9.2	10.3	10.6
77.5°	10.2	10.3	10.3	9.8	9.4	10.5	10.6
75°	10.8	10.8	10.7	10.1	9.7	10.7	10.6
72.5°	11.5	11.3	11.1	10.4	9.9	10.9	10.6
70°	12.1	11.9	11.6	10.7	10.2	11.2	10.6
67.5°	12.9	12.4	12.0	11.2	10.5	11.4	10.6
65°	13.8	13.2	12.5	11.6	10.8	11.6	10.6
62.5°	14.8	14.2	13.1	12.1	11.2	11.9	10.6
60°	15.9	15.4	13.6	12.6	11.5	12.1	10.6
57.5°	18.2	16.5	14.8	13.1	12.2	12.4	10.6
55°	20.6	17.8	16.1	13.6	12.9	12.6	10.6
52.5°	23.2	19.3	17.5	14.2	13.6	12.8	10.6
50°	25.9	21.9	19.0	14.7	14.4	13.1	10.6
47.5°	29.1	24.7	20.5	15.4	15.2	13.4	10.6
45°	34.5	27.7	22.0	16.6	16.1	13.6	10.6
42.5°	40.0	30.7	23.7	17.8	17.0	13.9	10.6
40°	45.8	33.9	25.7	19.6	17.9	14.1	10.6
37.5°	51.8	37.1	28.2	21.6	18.9	14.4	10.6
35°	57.9	41.5	30.7	23.7	19.9	14.6	10.6
32.5°	64.9	46.3	33.3	25.8	20.9	14.9	10.6
30°	73.9	51.1	35.8	28.0	22.0	15.1	10.6
27.5°	82.7	55.8	39.2	30.1	23.0	15.4	10.6
25°	91.2	60.3	42.7	32.3	24.1	15.6	10.6
22.5°	99.4	65.1	46.1	34.4	25.2	15.9	10.6
20°	107.3	70.5	49.5	36.5	26.3	16.1	10.6
17.5°	115.4	75.7	52.7	38.7	27.4	16.3	10.6
15°	123.5	80.8	55.8	40.7	28.5	16.6	10.6
12.5°	131.0	85.6	58.9	42.8	29.5	16.8	10.6
10°	138.1	90.3	61.8	44.8	30.6	17.0	10.6
7.5°	144.6	94.7	64.6	46.7	31.6	17.2	10.6
5°	150.6	98.9	67.2	48.5	32.5	17.4	10.6
2.5°	156.0	102.7	69.7	50.3	33.4	17.5	10.6
0°	160.7	106.3	72.1	52.0	34.3	17.7	10.6
-2.5°	166.2	110.6	75.5	54.2	35.6	18.3	10.6
-5°	171.1	114.5	78.6	56.3	36.9	19.0	10.6
-7.5°	175.3	118.1	81.6	58.3	38.0	19.6	10.6
-10°	178.7	121.3	84.4	60.1	39.1	20.1	10.6
-12.5°	181.5	124.2	87.0	61.8	40.2	20.7	10.6
-15°	183.4	126.7	89.4	63.4	41.1	21.2	10.6
-17.5°	184.6	128.7	91.5	64.9	42.0	21.7	10.6
-20°	185.5	130.4	93.3	66.1	42.8	22.2	10.6



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	186.4	131.6	94.9	67.2	43.5	22.7	10.6
-25°	186.5	133.2	96.2	68.2	44.1	23.1	10.6
-27.5°	185.7	134.6	97.2	69.0	44.6	23.5	10.6
-30°	184.1	135.5	98.1	69.6	45.1	23.8	10.6
-32.5°	181.5	136.0	99.4	70.0	45.4	24.1	10.6
-35°	180.6	135.9	100.4	70.3	45.7	24.4	10.6
-37.5°	180.1	136.0	101.1	70.4	45.9	24.6	10.6
-40°	178.9	136.5	101.6	70.3	46.0	24.7	10.6
-42.5°	177.0	136.8	101.9	70.2	45.9	24.9	10.6
-45°	174.4	136.6	102.1	70.3	45.8	25.0	10.6
-47.5°	171.1	136.1	102.0	70.3	45.6	25.0	10.6
-50°	169.4	135.2	101.6	70.3	45.4	25.0	10.6
-52.5°	167.6	134.0	100.9	70.2	45.0	25.0	10.6
-55°	165.3	132.4	99.9	69.9	44.5	24.9	10.6
-57.5°	162.7	130.4	98.6	69.4	44.0	24.8	10.6
-60°	159.6	128.0	97.0	68.7	43.3	24.7	10.6
-62.5°	156.0	125.3	95.7	67.8	42.7	24.5	10.6
-65°	152.0	122.2	94.1	66.8	41.9	24.2	10.6
-67.5°	147.6	119.1	92.3	65.6	41.1	23.9	10.6
-70°	142.8	115.9	90.2	64.2	40.1	23.6	10.6
-72.5°	137.9	112.3	87.9	62.7	39.0	23.3	10.6
-75°	132.6	108.5	85.4	61.1	37.9	22.9	10.6
-77.5°	127.0	104.3	82.8	59.3	36.6	22.5	10.6
-80°	121.0	100.5	80.0	57.4	35.3	22.1	10.6
-82.5°	116.3	96.8	77.1	55.3	34.0	21.6	10.6
-85°	111.6	92.8	74.0	53.1	32.5	21.1	10.6
-87.5°	106.7	88.7	70.7	50.8	31.0	20.6	10.6
-90°	8.3	8.3	8.3	8.3	8.3	9.5	10.6

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

