

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: P735966 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-57-80-4S-VHE**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735966 (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-08-0530N-57-80-4S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

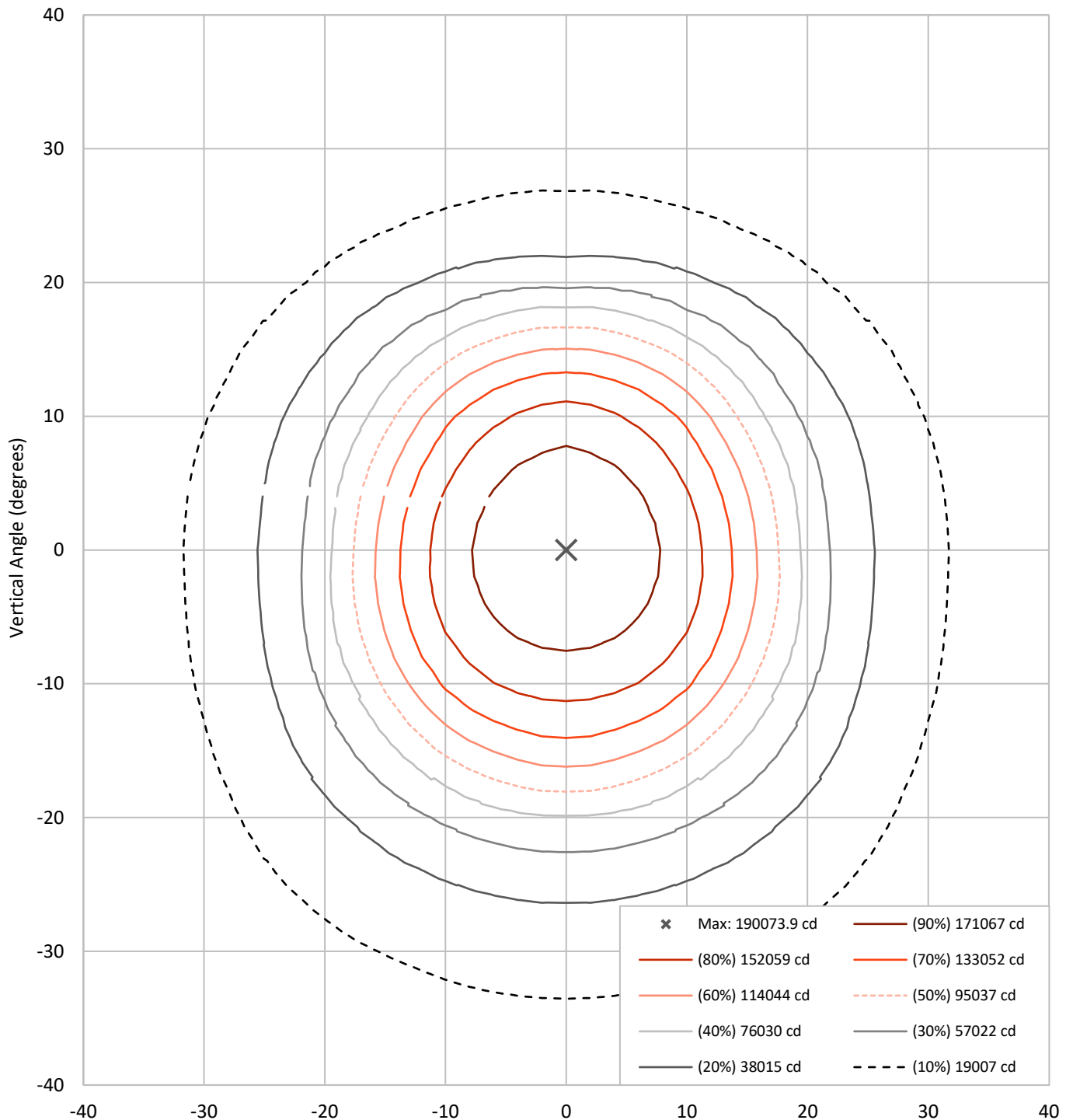
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	78846.4 lumens	Max Intensity:	190073.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	140.8 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:	42319.2 lumens	Field Lumens:	68866 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 559.9
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: 25 FT

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Iso-Candela Plot





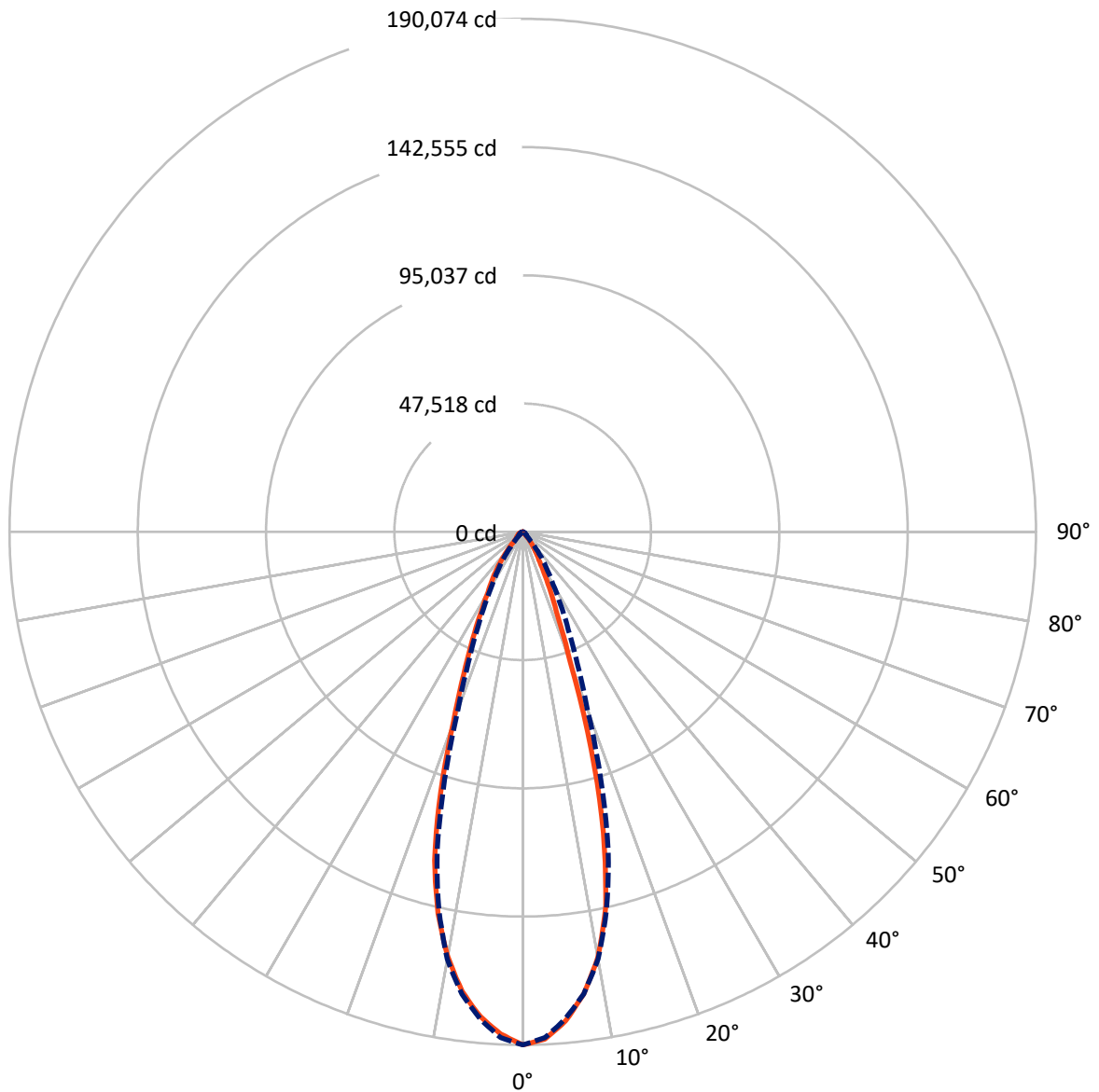
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Lumen Table

90	0.2	0.9	1.5	2.0	2.3	2.0	1.5	0.9	0.2									
80	0.2	0.9	1.5	2.0	2.3	2.0	1.5	0.9	0.2									
70	0.3	0.1	0.2	0.5	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.5	0.2	0.1	0.3		
60		0.4	0.6	1.1	1.0	0.8	1.0	1.1	1.1	1.0	0.8	1.0	1.1	0.6	0.4			
50	0.8	1.0	2.2	4.5	8.2	13.1	19.2	24.7	24.7	19.2	13.1	8.2	4.5	2.2	1.0	0.8		
40		2.4	7.5	14.3	23.6	54.4	121.7	197.2	197.2	121.7	54.4	23.6	14.3	7.5	2.4			
30	1.7	4.1	12.5	24.2	76.1	234.1	510.8	774.5	774.5	510.8	234.1	76.1	24.2	12.5	4.1	1.7		
20		5.6	16.4	38.8	198.1	656.8	1755.0	3118.5	3118.5	1755.0	656.8	198.1	38.8	16.4	5.6			
10	2.5	6.9	19.2	53.8	310.0	1078.1	3190.9	5109.5	5109.5	3190.9	1078.1	310.0	53.8	19.2	6.9	2.5		
0		7.7	21.4	60.1	332.3	1132.3	3345.2	5149.9	5149.9	3345.2	1132.3	332.3	60.1	21.4	7.7			
-10	2.9	7.9	22.6	55.4	265.2	836.4	2105.7	3459.5	3459.5	2105.7	836.4	265.2	55.4	22.6	7.9	2.9		
-20		7.4	22.5	47.5	145.9	464.5	912.0	1317.0	1317.0	912.0	464.5	145.9	47.5	22.5	7.4			
-30	2.7	6.3	20.3	39.7	70.1	172.4	347.3	480.1	480.1	347.3	172.4	70.1	39.7	20.3	6.3	2.7		
-40		4.9	15.2	31.8	50.1	69.5	94.9	121.5	121.5	94.9	69.5	50.1	31.8	15.2	4.9			
-50	2.3	3.7	9.5	20.7	35.6	48.1	58.1	65.1	65.1	58.1	48.1	35.6	20.7	9.5	3.7	2.3		
-60		2.8	5.6	10.5	17.9	25.4	32.3	36.8	36.8	32.3	25.4	17.9	10.5	5.6	2.8			
-70	1.7	10.0	22.5	36.4	44.7	36.4	22.5	10.0	1.7							1.7		
-80		1.7	10.0	22.5	36.4	44.7	36.4	22.5	10.0	1.7								
-90	0.2	0.9	1.5	2.0	2.3	2.0	1.5	0.9	0.2									

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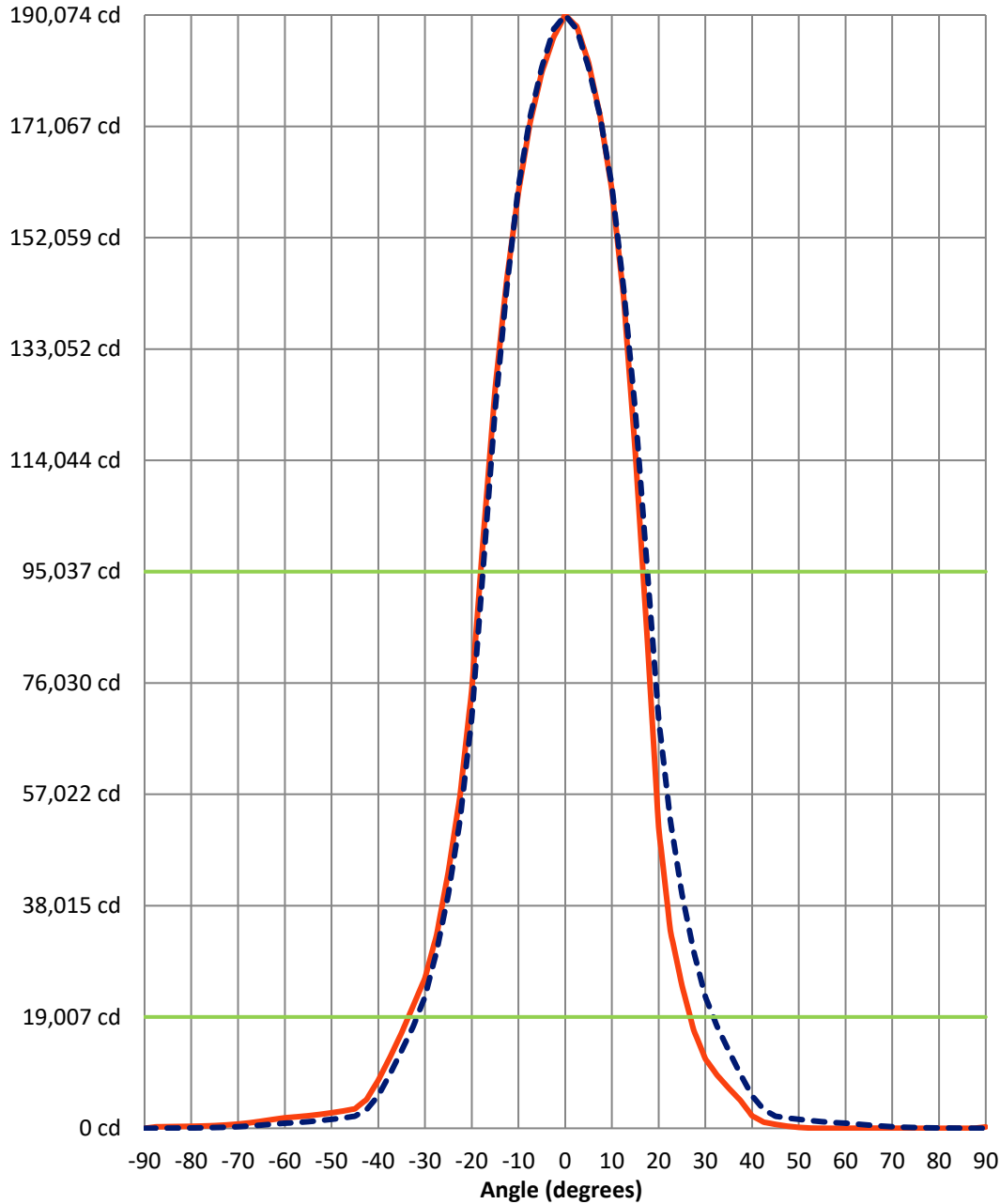
Luminous Intensity Polar Plot



— 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: 42319.2
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 68866
 Efficiency: 87.3%

Spill:
 Lumens: 9980.4
 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°	8.5	16.0	23.5	38.5	53.6	67.2	80.9	91.7	102.5	109.6	116.6
87.5°	8.5	7.7	6.8	6.8	6.9	6.9	6.8	6.4	5.9	6.0	6.0
85°	8.5	7.9	6.9	7.1	7.3	7.2	7.1	6.7	6.3	6.4	6.4
82.5°	8.5	8.0	7.1	7.3	7.6	7.5	7.3	7.0	6.7	6.8	6.8
80°	8.5	8.2	7.3	7.6	7.9	7.8	7.6	7.5	7.3	7.4	7.3
77.5°	8.5	8.4	7.5	7.8	8.2	8.2	8.1	8.1	8.0	7.9	7.6
75°	8.5	8.6	7.7	8.1	8.6	8.6	8.6	8.6	8.6	8.3	7.7
72.5°	8.5	8.7	7.9	8.3	8.9	9.0	9.1	9.2	9.0	8.6	7.9
70°	8.5	8.9	8.2	8.6	9.2	9.4	9.6	9.7	9.5	8.9	8.6
67.5°	8.5	9.1	8.4	8.9	9.6	9.8	10.3	10.2	10.0	9.7	9.5
65°	8.5	9.3	8.7	9.3	10.0	10.4	11.0	10.8	11.1	10.6	10.7
62.5°	8.5	9.5	9.0	9.7	10.4	11.3	11.8	12.1	12.4	11.8	12.7
60°	8.5	9.7	9.2	10.1	10.8	12.2	12.7	13.7	13.9	14.8	15.2
57.5°	8.5	9.9	9.8	10.4	11.8	13.1	14.4	15.5	17.3	18.5	20.5
55°	8.5	10.1	10.3	10.8	12.8	14.1	16.4	17.5	21.4	23.3	27.5
52.5°	8.5	10.3	10.9	11.2	13.9	15.3	18.5	21.7	25.9	31.5	35.1
50°	8.5	10.5	11.5	11.7	15.0	17.4	20.6	26.2	31.7	40.2	45.5
47.5°	8.5	10.7	12.1	12.2	16.2	19.7	23.2	31.0	40.3	49.6	57.3
45°	8.5	10.9	12.8	13.2	17.5	22.0	27.4	35.9	49.5	61.1	69.9
42.5°	8.5	11.1	13.5	14.1	18.8	24.4	31.8	42.9	59.0	73.2	90.1
40°	8.5	11.3	14.3	15.5	20.4	26.9	36.4	51.5	69.5	85.9	113.5
37.5°	8.5	11.5	15.0	17.2	22.4	29.6	41.3	60.2	81.5	102.3	138.8
35°	8.5	11.7	15.8	18.8	24.4	33.0	46.1	69.0	94.1	125.8	169.5
32.5°	8.5	11.9	16.6	20.5	26.4	36.9	51.6	77.9	107.2	149.9	204.6
30°	8.5	12.1	17.5	22.2	28.5	40.7	58.8	87.0	120.6	174.4	238.0
27.5°	8.5	12.3	18.3	23.9	31.2	44.4	65.8	96.9	135.4	199.3	269.7
25°	8.5	12.5	19.2	25.7	34.0	48.0	72.6	106.3	152.4	225.2	299.8
22.5°	8.5	12.7	20.1	27.4	36.7	51.8	79.1	115.3	168.4	245.2	330.6
20°	8.5	12.8	20.9	29.1	39.4	56.1	85.4	123.8	183.2	264.0	355.6
17.5°	8.5	13.0	21.8	30.8	41.9	60.3	91.9	131.7	196.8	281.4	378.8
15°	8.5	13.2	22.6	32.4	44.4	64.3	98.3	139.7	209.2	297.4	400.8
12.5°	8.5	13.4	23.5	34.0	46.9	68.2	104.3	147.8	221.6	311.8	421.1
10°	8.5	13.5	24.3	35.6	49.2	71.9	109.9	155.3	233.9	330.5	443.5
7.5°	8.5	13.7	25.1	37.2	51.4	75.4	115.1	162.3	245.1	348.9	472.1
5°	8.5	13.8	25.9	38.6	53.5	78.7	119.9	168.7	255.0	365.9	499.1
2.5°	8.5	14.0	26.6	40.1	55.5	81.8	124.1	174.5	263.6	381.4	524.0
0°	8.5	14.1	27.3	41.4	57.4	84.6	127.9	179.6	270.8	394.9	546.3
-2.5°	8.5	14.6	28.3	43.1	60.1	88.0	132.3	185.8	280.3	406.0	557.5
-5°	8.5	15.1	29.3	44.8	62.6	91.2	136.2	191.2	288.2	414.9	565.6
-7.5°	8.5	15.6	30.3	46.4	65.0	94.0	139.5	195.7	294.4	421.4	570.8
-10°	8.5	16.0	31.1	47.8	67.2	96.6	142.3	199.4	298.7	425.5	573.0
-12.5°	8.5	16.5	32.0	49.2	69.3	98.8	144.4	202.2	300.9	427.0	575.5
-15°	8.5	16.9	32.7	50.5	71.1	100.8	146.0	204.0	300.6	425.1	575.4
-17.5°	8.5	17.3	33.4	51.6	72.8	102.4	146.9	205.2	297.6	420.4	570.6
-20°	8.5	17.7	34.0	52.6	74.3	103.8	147.7	205.8	292.9	412.8	560.7



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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°	8.5	18.0	34.6	53.5	75.5	104.8	148.4	205.5	286.4	402.3	546.1
-25°	8.5	18.4	35.1	54.2	76.5	106.0	148.4	204.3	278.1	388.7	530.9
-27.5°	8.5	18.7	35.5	54.9	77.4	107.1	147.8	202.1	268.1	377.1	517.8
-30°	8.5	18.9	35.9	55.3	78.0	107.8	146.5	199.1	262.0	366.4	500.7
-32.5°	8.5	19.2	36.1	55.7	79.0	108.2	144.5	196.6	258.5	352.8	479.3
-35°	8.5	19.4	36.3	55.9	79.8	108.2	143.7	193.6	253.6	336.4	453.5
-37.5°	8.5	19.6	36.5	56.0	80.4	108.2	143.3	189.7	247.2	317.1	428.9
-40°	8.5	19.7	36.5	55.9	80.8	108.6	142.4	184.7	239.4	304.8	404.8
-42.5°	8.5	19.8	36.5	55.8	81.1	108.8	140.9	178.7	231.8	294.6	377.9
-45°	8.5	19.9	36.5	55.9	81.2	108.7	138.7	173.5	223.6	282.5	350.6
-47.5°	8.5	19.9	36.3	55.9	81.2	108.3	136.2	170.5	214.2	268.6	334.6
-50°	8.5	19.9	36.1	55.9	80.8	107.7	134.8	166.9	203.5	256.1	316.4
-52.5°	8.5	19.9	35.8	55.8	80.3	106.7	133.4	162.8	196.4	242.1	295.5
-55°	8.5	19.9	35.4	55.6	79.5	105.4	131.6	158.4	190.5	226.6	275.4
-57.5°	8.5	19.8	35.0	55.2	78.4	103.8	129.5	155.8	183.9	216.7	253.9
-60°	8.5	19.6	34.5	54.7	77.2	101.9	127.0	152.6	177.2	207.9	234.7
-62.5°	8.5	19.5	33.9	54.0	76.2	99.7	124.2	148.8	172.5	197.9	222.6
-65°	8.5	19.3	33.3	53.1	74.9	97.2	121.0	144.5	167.2	189.7	209.9
-67.5°	8.5	19.1	32.7	52.2	73.5	94.8	117.5	139.8	161.5	182.0	199.9
-70°	8.5	18.8	31.9	51.1	71.8	92.2	113.6	134.8	155.4	174.0	190.8
-72.5°	8.5	18.6	31.0	49.9	70.0	89.4	109.7	129.4	149.0	165.9	181.4
-75°	8.5	18.3	30.1	48.6	68.0	86.4	105.6	123.8	142.2	157.5	171.7
-77.5°	8.5	17.9	29.2	47.2	65.9	83.1	101.1	118.0	135.2	148.8	161.7
-80°	8.5	17.6	28.1	45.7	63.7	80.0	96.4	112.0	127.9	140.0	151.7
-82.5°	8.5	17.2	27.0	44.0	61.4	77.0	92.6	106.3	120.2	131.0	141.6
-85°	8.5	16.8	25.9	42.3	58.9	73.9	88.9	101.6	114.4	123.4	132.2
-87.5°	8.5	16.4	24.7	40.5	56.3	70.6	85.0	96.7	108.5	116.5	124.5
-90°	8.5	7.6	6.6	6.6	6.6	6.6	6.6	6.1	5.6	5.6	5.6



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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°	121.8	126.9	131.6	136.3	142.0	147.6	153.3	158.9	165.0	171.1	177.3
87.5°	5.6	5.2	5.2	5.2	4.8	4.4	4.1	3.8	3.8	3.8	3.7
85°	6.0	5.6	5.6	5.6	5.3	5.0	4.6	4.2	4.2	4.3	4.1
82.5°	6.5	6.1	5.9	5.6	5.5	5.5	5.2	4.8	4.8	4.7	4.4
80°	7.0	6.7	6.2	5.9	5.8	5.6	5.5	5.5	5.2	4.8	4.8
77.5°	7.2	6.7	6.5	6.5	6.2	5.7	5.6	5.6	5.5	5.5	5.2
75°	7.2	6.8	6.7	6.7	6.3	5.8	5.6	5.8	5.9	5.7	5.5
72.5°	7.6	7.3	7.1	6.8	6.6	6.3	6.3	6.5	7.0	7.5	7.9
70°	8.4	8.0	7.7	7.5	7.2	7.2	8.0	9.5	11.1	11.7	13.3
67.5°	9.3	9.0	8.8	8.5	8.6	9.3	10.4	13.8	16.9	19.0	21.2
65°	10.3	10.1	10.1	10.2	10.3	13.2	16.3	19.7	25.0	28.0	28.1
62.5°	11.5	12.9	12.3	13.1	15.8	18.8	23.6	29.8	36.4	39.1	37.4
60°	16.3	17.0	17.3	19.4	22.0	25.4	31.9	39.4	47.1	51.8	44.9
57.5°	22.4	23.4	25.1	26.3	29.3	31.2	39.0	48.1	53.1	56.1	48.3
55°	30.1	31.5	34.1	34.7	37.2	38.0	44.5	50.7	55.0	55.9	47.4
52.5°	39.8	41.5	45.3	45.9	46.0	46.8	47.6	54.6	57.9	57.0	49.2
50°	50.4	56.2	58.2	60.3	57.5	58.7	55.6	63.6	70.3	68.5	70.8
47.5°	65.9	73.2	76.1	80.0	78.0	84.4	82.1	97.3	102.5	133.0	139.7
45°	84.6	97.5	101.4	110.4	119.5	126.9	151.4	153.4	217.5	244.3	294.7
42.5°	107.0	127.2	143.6	146.9	190.6	213.8	247.9	303.9	360.1	411.6	445.9
40°	140.3	161.2	196.3	237.3	283.7	333.7	379.1	444.1	498.6	539.1	563.3
37.5°	178.2	218.0	265.9	339.8	402.4	453.4	505.0	561.2	612.5	648.1	694.5
35°	219.8	277.8	366.6	443.5	510.7	558.8	609.1	668.7	717.1	774.5	831.8
32.5°	270.3	338.8	450.2	533.3	587.9	644.8	702.8	765.5	834.9	905.6	978.9
30°	320.2	407.5	516.4	602.8	655.6	721.9	792.5	866.0	956.9	1046.1	1145.1
27.5°	359.5	466.5	570.1	659.3	720.9	799.4	885.6	981.5	1089.5	1198.6	1330.1
25°	394.6	510.4	624.2	718.8	797.1	884.0	985.3	1100.3	1229.0	1382.3	1796.0
22.5°	428.9	553.2	684.0	782.5	870.5	968.7	1090.8	1225.1	1376.5	1580.3	2312.0
20°	464.0	601.6	741.2	835.5	937.5	1047.6	1190.6	1346.5	1534.2	2015.5	3094.8
17.5°	500.1	651.6	789.9	882.0	989.4	1123.6	1290.0	1465.9	1694.6	2423.0	4075.2
15°	535.3	698.6	828.9	923.1	1041.6	1197.8	1383.6	1599.0	1978.6	2991.8	5057.5
12.5°	569.0	740.9	857.9	958.5	1093.1	1267.7	1470.4	1712.2	2312.3	3759.4	6128.9
10°	600.7	778.4	883.1	992.3	1143.4	1333.4	1548.2	1811.8	2603.7	4372.8	6977.2
7.5°	635.0	810.5	906.0	1024.3	1189.7	1393.4	1612.3	1888.4	2820.8	4843.1	7607.2
5°	666.1	836.6	932.4	1061.9	1235.8	1447.6	1667.2	1952.6	2969.0	5141.2	8044.5
2.5°	693.3	857.4	956.8	1097.5	1279.1	1495.1	1716.8	2016.9	3101.2	5393.2	8597.8
0°	716.5	873.6	978.9	1129.3	1316.4	1534.6	1757.4	2068.7	3189.5	5562.9	9239.5
-2.5°	730.7	897.8	1015.6	1162.7	1347.2	1562.6	1794.2	2124.0	3279.1	5929.7	9483.9
-5°	740.9	917.4	1048.5	1191.9	1372.2	1583.1	1821.1	2163.1	3317.6	6030.6	9412.7
-7.5°	746.8	931.6	1076.7	1217.5	1394.6	1606.9	1863.5	2215.6	3335.1	5781.9	9009.4
-10°	750.0	943.5	1095.2	1238.6	1415.2	1628.8	1896.6	2249.4	3263.4	5446.4	8545.3
-12.5°	758.0	953.7	1109.9	1254.2	1429.1	1644.5	1922.3	2274.9	3100.2	4985.3	7907.4
-15°	760.1	958.9	1122.1	1265.0	1443.4	1667.5	1941.8	2279.2	2864.6	4389.5	7093.0
-17.5°	755.8	959.2	1130.7	1273.4	1450.6	1676.3	1948.0	2266.7	2688.5	3956.5	6273.7
-20°	744.8	947.9	1133.3	1274.1	1447.9	1679.9	1951.1	2261.3	2645.6	3513.9	5280.0



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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°	727.0	930.2	1124.2	1272.8	1457.3	1681.5	1942.1	2227.9	2552.4	2979.9	4290.8
-25°	707.8	905.1	1100.3	1277.3	1459.1	1673.6	1904.1	2166.5	2466.1	2800.5	3585.0
-27.5°	687.1	875.7	1075.9	1271.6	1450.1	1644.3	1858.3	2104.3	2351.0	2621.1	2955.2
-30°	662.1	843.8	1043.1	1251.0	1429.1	1610.5	1807.9	2006.7	2227.9	2471.0	2754.0
-32.5°	632.1	806.3	1002.5	1207.9	1401.2	1571.2	1736.3	1914.8	2112.2	2326.6	2560.7
-35°	599.4	768.2	954.8	1155.4	1367.2	1523.3	1666.7	1821.2	1996.0	2191.9	2409.3
-37.5°	566.4	724.3	899.0	1094.5	1300.5	1464.0	1593.2	1737.2	1891.2	2058.9	2261.1
-40°	528.9	673.7	840.8	1025.6	1208.2	1384.8	1526.8	1657.4	1792.7	1946.1	2111.3
-42.5°	488.4	624.5	777.0	944.5	1110.4	1278.7	1456.5	1584.9	1705.9	1836.2	1981.0
-45°	454.7	570.1	708.0	857.0	1006.6	1169.6	1341.1	1512.7	1623.3	1736.0	1859.4
-47.5°	415.6	515.0	641.1	765.2	903.2	1057.0	1219.5	1378.6	1535.5	1645.2	1749.0
-50°	378.2	468.3	564.6	678.8	801.8	943.7	1092.6	1238.1	1385.3	1533.8	1652.2
-52.5°	352.6	418.3	501.9	592.1	705.8	831.2	961.7	1091.4	1229.6	1371.4	1507.8
-55°	324.9	381.2	440.7	517.4	611.0	722.8	831.3	947.5	1066.2	1196.9	1329.8
-57.5°	298.5	345.2	391.9	450.1	528.9	614.3	709.5	804.9	912.5	1021.9	1135.7
-60°	272.4	310.7	350.3	396.8	451.0	523.0	592.0	675.1	764.4	854.5	955.6
-62.5°	247.4	278.6	311.6	350.9	396.2	438.7	495.6	560.1	624.5	704.3	786.2
-65°	232.7	250.0	275.9	310.0	345.4	382.9	419.9	459.4	515.5	574.9	633.2
-67.5°	217.1	233.0	249.2	270.2	301.2	330.5	360.2	394.9	430.7	469.3	511.6
-70°	205.3	216.4	230.8	247.4	263.5	281.3	307.8	335.4	362.9	392.9	426.2
-72.5°	194.2	204.6	215.4	227.0	241.2	254.7	268.7	283.6	305.3	331.6	356.3
-75°	183.0	192.7	202.5	212.7	223.3	233.6	244.6	258.0	272.9	289.0	304.1
-77.5°	171.7	180.6	189.6	198.4	208.0	218.0	227.4	237.0	248.7	261.2	273.1
-80°	160.5	168.5	176.8	184.9	193.4	202.0	210.4	218.4	228.5	239.2	249.8
-82.5°	149.5	157.0	164.2	171.4	178.7	185.9	193.4	200.9	210.2	219.6	228.6
-85°	138.9	145.5	151.6	157.6	164.4	171.1	177.5	183.9	192.3	200.8	208.5
-87.5°	130.4	136.2	141.4	146.5	152.5	158.5	164.0	169.5	176.8	184.0	190.6
-90°	5.2	4.7	4.7	4.7	4.3	3.8	3.8	3.8	3.8	3.8	3.3



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	183.4	187.6	191.8	194.7	197.5	201.7	205.9	212.1	218.2	223.4	228.5
87.5°	3.6	3.2	2.8	2.7	2.7	2.7	2.7	2.3	1.9	1.9	1.9
85°	3.8	3.6	3.5	3.6	3.6	3.2	2.8	2.8	2.7	2.8	2.8
82.5°	4.2	4.1	3.8	3.8	3.8	3.7	3.6	3.3	2.8	2.8	2.8
80°	4.7	4.5	4.3	4.1	3.8	3.8	3.8	3.4	2.8	2.8	2.8
77.5°	4.9	4.8	4.7	4.4	3.9	3.8	3.8	3.4	2.9	2.8	2.8
75°	5.5	5.5	5.4	5.3	5.1	5.3	5.6	5.4	5.1	4.9	4.6
72.5°	8.4	8.5	8.3	8.8	9.3	9.7	10.0	10.2	10.6	11.3	12.2
70°	15.0	16.1	16.2	16.2	16.1	15.6	15.1	14.9	15.0	15.3	15.6
67.5°	22.6	23.5	23.9	24.2	22.0	20.6	20.1	20.1	21.0	22.7	25.1
65°	28.8	27.1	25.5	23.9	24.0	23.9	22.8	22.3	23.0	24.1	25.3
62.5°	34.3	27.2	22.7	20.5	20.9	21.6	19.5	17.9	17.4	17.1	17.2
60°	36.8	25.6	18.0	15.3	13.8	13.0	11.5	9.9	9.3	9.2	9.4
57.5°	37.2	24.4	14.4	11.3	8.7	6.7	5.6	4.9	4.9	4.8	4.7
55°	36.0	24.7	14.0	12.8	11.7	10.7	9.3	9.1	8.6	8.5	9.0
52.5°	37.3	34.6	28.3	27.4	33.5	33.7	29.0	35.7	40.2	43.7	45.4
50°	73.8	70.9	89.6	89.5	108.4	124.6	119.9	129.4	145.7	159.9	168.7
47.5°	172.4	185.9	214.0	239.1	267.5	303.3	319.2	330.6	344.8	364.0	376.8
45°	321.2	354.8	391.1	431.9	479.3	521.3	545.8	569.3	584.9	601.9	622.1
42.5°	476.9	517.0	570.9	619.5	670.9	720.0	758.6	792.7	859.1	953.9	1029.3
40°	610.2	655.7	718.4	783.3	843.8	905.8	1076.6	1222.1	1403.4	1674.2	1914.1
37.5°	742.5	795.2	865.1	944.6	1127.2	1312.2	1685.1	2088.0	2437.0	2828.4	3223.6
35°	886.8	956.0	1049.4	1316.9	1655.0	2147.9	2682.7	3281.0	3788.9	4335.4	5136.1
32.5°	1057.0	1178.0	1480.2	1966.3	2572.6	3272.8	3936.2	4688.3	5322.6	6326.7	7549.6
30°	1276.6	1655.8	2236.0	2907.2	3725.3	4611.7	5443.4	6661.5	8084.7	9344.5	10384.9
27.5°	1806.1	2538.6	3348.7	4199.3	5223.7	6297.7	8041.7	9618.3	11149.5	12509.8	14090.2
25°	2596.9	3771.9	5156.4	6296.7	7688.8	9629.8	11601.8	13338.2	15665.4	17712.2	20008.3
22.5°	3715.3	5388.5	7171.8	8836.7	10974.5	13405.5	16058.6	19258.0	22490.9	26081.9	29276.7
20°	4806.9	6923.9	9182.1	11579.0	14316.8	17356.3	21693.3	26885.5	31867.2	37524.9	42295.6
17.5°	6260.6	8819.7	11490.5	14537.2	18057.3	22733.5	29134.8	36234.4	43938.0	52386.3	60198.9
15°	7738.9	10495.8	13599.2	17498.6	22477.6	28832.9	36999.5	46664.4	57930.3	70349.6	85448.4
12.5°	8950.3	11965.0	15594.0	20508.0	27020.0	35519.2	45413.7	57048.0	72493.0	91225.0	108766.9
10°	9985.4	13600.3	18185.9	24001.7	31661.4	41256.2	52496.3	66900.3	87705.7	109405.8	128656.5
7.5°	11051.7	15328.1	20184.5	26490.1	35199.2	46090.3	59931.2	78740.9	101632.3	123889.5	141543.1
5°	12057.3	16506.3	21445.6	28182.5	37600.6	49297.6	65001.7	87912.0	112822.8	134622.2	151207.7
2.5°	12845.1	17098.9	22109.7	29442.9	38898.8	51040.7	68180.2	93583.2	119714.6	141199.0	158206.2
0°	13253.7	17420.2	22478.2	30231.1	39975.5	52640.6	70002.5	96085.8	122518.0	143439.9	160774.7
-2.5°	13163.3	17265.1	22250.0	29622.8	39729.4	52930.0	71517.7	97390.1	123000.9	144204.4	160541.3
-5°	12973.0	17020.8	21936.8	28875.3	38848.3	52202.4	69872.5	93658.8	118393.1	140143.0	156025.1
-7.5°	12618.6	16611.6	21312.1	27781.9	37387.9	50033.7	65979.3	86648.7	110377.1	132169.0	147544.2
-10°	12097.1	15979.5	20415.7	26299.8	34926.8	46541.7	60098.2	76239.6	98436.6	118810.7	135894.6
-12.5°	11355.9	15085.3	19172.0	24228.3	31954.3	42190.2	53877.2	67288.7	83153.1	102802.5	118816.0
-15°	10412.7	13920.1	17717.6	22488.4	28948.5	37335.3	47189.0	57593.2	69752.7	83316.3	98925.2
-17.5°	9255.2	12549.9	16086.2	20199.1	25423.7	32460.3	40254.9	48373.1	57150.1	67131.6	76302.0
-20°	7874.9	10888.5	14221.1	18046.7	22523.4	27606.1	33272.2	39835.2	46638.4	53762.5	60065.6



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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°	6473.4	9222.5	12398.2	15743.2	19634.2	23513.8	27319.5	32199.3	37453.2	42610.6	47302.2
-25°	5065.1	7492.0	10444.7	13582.1	16705.1	19874.0	22964.1	25994.2	29774.8	33094.5	36538.0
-27.5°	4023.1	5838.6	8317.9	11055.9	13777.2	16421.4	19093.1	21624.2	24008.4	26013.2	28334.8
-30°	3164.0	4389.4	6304.7	8459.3	10840.4	13170.2	15472.4	17610.5	19488.0	21138.7	22750.9
-32.5°	2860.6	3361.0	4499.2	6136.5	8015.0	10059.0	11983.3	13819.8	15367.6	16901.7	18346.2
-35°	2646.2	2921.7	3293.8	4316.6	5540.0	7166.6	8675.0	10199.1	11499.0	13031.2	14215.8
-37.5°	2470.5	2682.7	2917.9	3159.1	3903.1	4717.5	5803.5	6946.0	7950.3	9235.5	10281.3
-40°	2300.3	2488.2	2672.1	2855.5	3053.3	3235.1	3881.4	4470.6	5151.8	6031.0	6783.2
-42.5°	2135.8	2301.3	2460.5	2609.6	2747.8	2867.1	2997.2	3121.9	3489.8	3937.8	4282.0
-45°	1988.1	2128.8	2262.1	2388.2	2493.5	2589.0	2689.2	2793.5	2930.3	3054.6	3157.2
-47.5°	1862.6	1973.8	2083.0	2185.7	2266.6	2348.2	2428.0	2518.0	2624.5	2728.8	2816.2
-50°	1749.1	1845.3	1928.2	2000.9	2068.2	2137.2	2200.8	2280.7	2366.4	2452.7	2525.0
-52.5°	1640.3	1725.9	1795.1	1850.5	1901.8	1958.1	2012.8	2076.5	2146.1	2218.7	2276.1
-55°	1457.5	1566.3	1666.9	1718.9	1759.1	1805.5	1851.8	1903.4	1962.2	2023.2	2068.7
-57.5°	1255.5	1362.9	1457.7	1525.2	1591.8	1659.9	1710.8	1751.3	1804.4	1856.5	1895.7
-60°	1052.7	1142.7	1226.4	1294.7	1364.2	1432.3	1489.6	1542.4	1608.1	1667.8	1716.4
-62.5°	863.9	942.6	1007.2	1062.5	1121.7	1180.9	1235.5	1287.5	1347.2	1400.9	1446.4
-65°	692.2	758.3	806.1	849.5	896.6	945.6	988.9	1032.0	1080.0	1122.9	1160.2
-67.5°	559.7	603.5	633.3	661.0	698.4	736.5	770.4	804.7	841.4	873.9	902.2
-70°	458.2	485.6	504.0	525.2	551.7	576.1	598.4	623.5	650.5	675.4	697.9
-72.5°	379.9	398.6	412.4	429.3	446.2	461.7	475.8	493.8	513.5	532.7	550.9
-75°	318.2	330.3	343.5	355.7	367.3	378.6	389.0	403.4	418.6	433.0	446.8
-77.5°	285.6	294.6	301.9	308.7	315.1	322.3	329.5	341.7	355.0	366.1	376.6
-80°	260.1	267.2	273.4	278.5	283.3	289.2	295.2	305.2	315.6	325.0	334.1
-82.5°	237.4	243.5	249.2	253.9	258.4	263.6	268.6	277.4	286.3	294.3	302.1
-85°	216.2	221.5	226.5	230.7	234.9	239.6	244.2	251.9	259.5	266.6	273.7
-87.5°	197.2	201.8	206.4	209.6	212.8	217.3	221.8	228.6	235.4	241.6	247.9
-90°	2.8	2.8	2.8	2.4	1.9	1.9	1.9	1.9	1.9	1.4	0.9



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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°	231.3	234.1	234.6	235.1	234.6	234.1	231.3	228.5	223.4	218.2	212.1
87.5°	1.4	0.9	1.4	1.9	1.4	0.9	1.4	1.9	1.9	1.9	2.3
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.8
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.3
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.4
77.5°	2.4	1.9	2.3	2.8	2.3	1.9	2.4	2.8	2.8	2.9	3.4
75°	4.2	3.8	3.3	2.8	3.3	3.8	4.2	4.6	4.9	5.1	5.4
72.5°	12.7	12.9	13.6	14.1	13.6	12.9	12.7	12.2	11.3	10.6	10.2
70°	15.1	14.2	14.1	14.1	14.1	14.2	15.1	15.6	15.3	15.0	14.9
67.5°	26.9	28.4	29.0	29.1	29.0	28.4	26.9	25.1	22.7	21.0	20.1
65°	26.2	27.2	27.3	27.3	27.3	27.2	26.2	25.3	24.1	23.0	22.3
62.5°	17.6	18.1	18.4	18.8	18.4	18.1	17.6	17.2	17.1	17.4	17.9
60°	9.8	10.4	10.8	11.3	10.8	10.4	9.8	9.4	9.2	9.3	9.9
57.5°	4.6	4.8	5.1	5.6	5.1	4.8	4.6	4.7	4.8	4.9	4.9
55°	9.4	9.9	10.2	10.3	10.2	9.9	9.4	9.0	8.5	8.6	9.1
52.5°	44.6	42.4	40.7	39.5	40.7	42.4	44.6	45.4	43.7	40.2	35.7
50°	172.3	168.1	163.4	158.9	163.4	168.1	172.3	168.7	159.9	145.7	129.4
47.5°	384.5	381.1	374.0	364.8	374.0	381.1	384.5	376.8	364.0	344.8	330.6
45°	649.7	668.6	677.0	672.3	677.0	668.6	649.7	622.1	601.9	584.9	569.3
42.5°	1054.9	1071.5	1073.0	1048.4	1073.0	1071.5	1054.9	1029.3	953.9	859.1	792.7
40°	2087.6	2232.3	2281.9	2132.6	2281.9	2232.3	2087.6	1914.1	1674.2	1403.4	1222.1
37.5°	3700.0	4268.4	4742.5	4760.8	4742.5	4268.4	3700.0	3223.6	2828.4	2437.0	2088.0
35°	5996.6	6581.3	6864.1	6852.1	6864.1	6581.3	5996.6	5136.1	4335.4	3788.9	3281.0
32.5°	8428.3	8871.3	9154.4	9086.2	9154.4	8871.3	8428.3	7549.6	6326.7	5322.6	4688.3
30°	11127.9	11539.0	11869.0	11863.9	11869.0	11539.0	11127.9	10384.9	9344.5	8084.7	6661.5
27.5°	15376.6	16223.6	16896.9	16782.7	16896.9	16223.6	15376.6	14090.2	12509.8	11149.5	9618.3
25°	21945.1	23494.4	24589.9	24364.4	24589.9	23494.4	21945.1	20008.3	17712.2	15665.4	13338.2
22.5°	31648.5	33636.0	34467.1	33808.0	34467.1	33636.0	31648.5	29276.7	26081.9	22490.9	19258.0
20°	46840.5	50525.3	52816.2	51450.1	52816.2	50525.3	46840.5	42295.6	37524.9	31867.2	26885.5
17.5°	70310.4	78304.4	84620.7	84446.7	84620.7	78304.4	70310.4	60198.9	52386.3	43938.0	36234.4
15°	98594.0	107692.8	114698.8	115508.9	114698.8	107692.8	98594.0	85448.4	70349.6	57930.3	46664.4
12.5°	123919.0	133172.5	140028.6	142001.3	140028.6	133172.5	123919.0	108766.9	91225.0	72493.0	57048.0
10°	141968.0	151202.4	157838.5	160178.5	157838.5	151202.4	141968.0	128656.5	109405.8	87705.7	66900.3
7.5°	155208.6	165227.1	170201.4	172743.9	170201.4	165227.1	155208.6	141543.1	123889.5	101632.3	78740.9
5°	164736.1	174047.0	178859.2	181940.1	178859.2	174047.0	164736.1	151207.7	134622.2	112822.8	87912.0
2.5°	170742.0	179532.3	185311.3	188074.8	185311.3	179532.3	170742.0	158206.2	141199.0	119714.6	93583.2
0°	172680.5	181119.3	187596.6	190073.9	187596.6	181119.3	172680.5	160774.7	143439.9	122518.0	96085.8
-2.5°	171778.8	180045.3	185211.4	186212.9	185211.4	180045.3	171778.8	160541.3	144204.4	123000.9	97390.1
-5°	167086.5	174705.6	179475.9	180259.8	179475.9	174705.6	167086.5	156025.1	140143.0	118393.1	93658.8
-7.5°	158997.3	166597.5	170540.6	171701.5	170540.6	166597.5	158997.3	147544.2	132169.0	110377.1	86648.7
-10°	147268.5	154611.3	158825.4	159824.9	158825.4	154611.3	147268.5	135894.6	118810.7	98436.6	76239.6
-12.5°	131264.4	139097.6	143814.1	144853.3	143814.1	139097.6	131264.4	118816.0	102802.5	83153.1	67288.7
-15°	110511.8	118569.3	124590.3	126047.0	124590.3	118569.3	110511.8	98925.2	83316.3	69752.7	57593.2
-17.5°	86590.3	94653.4	100063.9	101096.8	100063.9	94653.4	86590.3	76302.0	67131.6	57150.1	48373.1
-20°	65987.5	71173.2	74226.8	74758.6	74226.8	71173.2	65987.5	60065.6	53762.5	46638.4	39835.2



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	51136.3	54621.6	56480.8	56743.2	56480.8	54621.6	51136.3	47302.2	42610.6	37453.2	32199.3
-25°	39625.7	42158.1	43542.9	43773.4	43542.9	42158.1	39625.7	36538.0	33094.5	29774.8	25994.2
-27.5°	30425.7	31998.9	33287.4	33019.1	33287.4	31998.9	30425.7	28334.8	26013.2	24008.4	21624.2
-30°	24075.5	25084.5	25845.5	25646.1	25845.5	25084.5	24075.5	22750.9	21138.7	19488.0	17610.5
-32.5°	19485.9	20276.4	20811.3	20953.9	20811.3	20276.4	19485.9	18346.2	16901.7	15367.6	13819.8
-35°	15145.3	15791.3	16162.0	16306.0	16162.0	15791.3	15145.3	14215.8	13031.2	11499.0	10199.1
-37.5°	11057.6	11624.2	11978.0	12100.9	11978.0	11624.2	11057.6	10281.3	9235.5	7950.3	6946.0
-40°	7359.2	7795.7	8085.5	8197.6	8085.5	7795.7	7359.2	6783.2	6031.0	5151.8	4470.6
-42.5°	4550.1	4754.5	4883.9	4924.4	4883.9	4754.5	4550.1	4282.0	3937.8	3489.8	3121.9
-45°	3236.5	3293.0	3325.3	3331.5	3325.3	3293.0	3236.5	3157.2	3054.6	2930.3	2793.5
-47.5°	2884.3	2928.8	2951.6	2952.6	2951.6	2928.8	2884.3	2816.2	2728.8	2624.5	2518.0
-50°	2584.5	2625.8	2646.6	2647.9	2646.6	2625.8	2584.5	2525.0	2452.7	2366.4	2280.7
-52.5°	2323.0	2355.9	2371.2	2371.5	2371.2	2355.9	2323.0	2276.1	2218.7	2146.1	2076.5
-55°	2106.0	2131.6	2141.0	2139.2	2141.0	2131.6	2106.0	2068.7	2023.2	1962.2	1903.4
-57.5°	1928.4	1953.4	1961.3	1958.7	1961.3	1953.4	1928.4	1895.7	1856.5	1804.4	1751.3
-60°	1754.3	1781.1	1791.2	1790.4	1791.2	1781.1	1754.3	1716.4	1667.8	1608.1	1542.4
-62.5°	1478.9	1499.5	1510.5	1513.9	1510.5	1499.5	1478.9	1446.4	1400.9	1347.2	1287.5
-65°	1185.9	1202.3	1211.1	1213.9	1211.1	1202.3	1185.9	1160.2	1122.9	1080.0	1032.0
-67.5°	920.5	932.3	938.0	939.4	938.0	932.3	920.5	902.2	873.9	841.4	804.7
-70°	711.9	721.6	726.1	727.8	726.1	721.6	711.9	697.9	675.4	650.5	623.5
-72.5°	561.5	569.2	572.4	573.6	572.4	569.2	561.5	550.9	532.7	513.5	493.8
-75°	453.4	458.0	459.9	460.8	459.9	458.0	453.4	446.8	433.0	418.6	403.4
-77.5°	382.3	387.2	389.0	390.2	389.0	387.2	382.3	376.6	366.1	355.0	341.7
-80°	338.2	341.7	343.1	344.2	343.1	341.7	338.2	334.1	325.0	315.6	305.2
-82.5°	307.1	311.8	312.1	312.2	312.1	311.8	307.1	302.1	294.3	286.3	277.4
-85°	277.4	281.0	281.6	282.1	281.6	281.0	277.4	273.7	266.6	259.5	251.9
-87.5°	251.3	254.7	254.8	254.8	254.8	254.7	251.3	247.9	241.6	235.4	228.6
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	205.9	201.7	197.5	194.7	191.8	187.6	183.4	177.3	171.1	165.0	158.9
87.5°	2.7	2.7	2.7	2.7	2.8	3.2	3.6	3.7	3.8	3.8	3.8
85°	2.8	3.2	3.6	3.6	3.5	3.6	3.8	4.1	4.3	4.2	4.2
82.5°	3.6	3.7	3.8	3.8	3.8	4.1	4.2	4.4	4.7	4.8	4.8
80°	3.8	3.8	3.8	4.1	4.3	4.5	4.7	4.8	4.8	5.2	5.5
77.5°	3.8	3.8	3.9	4.4	4.7	4.8	4.9	5.2	5.5	5.5	5.6
75°	5.6	5.3	5.1	5.3	5.4	5.5	5.5	5.5	5.7	5.9	5.8
72.5°	10.0	9.7	9.3	8.8	8.3	8.5	8.4	7.9	7.5	7.0	6.5
70°	15.1	15.6	16.1	16.2	16.2	16.1	15.0	13.3	11.7	11.1	9.5
67.5°	20.1	20.6	22.0	24.2	23.9	23.5	22.6	21.2	19.0	16.9	13.8
65°	22.8	23.9	24.0	23.9	25.5	27.1	28.8	28.1	28.0	25.0	19.7
62.5°	19.5	21.6	20.9	20.5	22.7	27.2	34.3	37.4	39.1	36.4	29.8
60°	11.5	13.0	13.8	15.3	18.0	25.6	36.8	44.9	51.8	47.1	39.4
57.5°	5.6	6.7	8.7	11.3	14.4	24.4	37.2	48.3	56.1	53.1	48.1
55°	9.3	10.7	11.7	12.8	14.0	24.7	36.0	47.4	55.9	55.0	50.7
52.5°	29.0	33.7	33.5	27.4	28.3	34.6	37.3	49.2	57.0	57.9	54.6
50°	119.9	124.6	108.4	89.5	89.6	70.9	73.8	70.8	68.5	70.3	63.6
47.5°	319.2	303.3	267.5	239.1	214.0	185.9	172.4	139.7	133.0	102.5	97.3
45°	545.8	521.3	479.3	431.9	391.1	354.8	321.2	294.7	244.3	217.5	153.4
42.5°	758.6	720.0	670.9	619.5	570.9	517.0	476.9	445.9	411.6	360.1	303.9
40°	1076.6	905.8	843.8	783.3	718.4	655.7	610.2	563.3	539.1	498.6	444.1
37.5°	1685.1	1312.2	1127.2	944.6	865.1	795.2	742.5	694.5	648.1	612.5	561.2
35°	2682.7	2147.9	1655.0	1316.9	1049.4	956.0	886.8	831.8	774.5	717.1	668.7
32.5°	3936.2	3272.8	2572.6	1966.3	1480.2	1178.0	1057.0	978.9	905.6	834.9	765.5
30°	5443.4	4611.7	3725.3	2907.2	2236.0	1655.8	1276.6	1145.1	1046.1	956.9	866.0
27.5°	8041.7	6297.7	5223.7	4199.3	3348.7	2538.6	1806.1	1330.1	1198.6	1089.5	981.5
25°	11601.8	9629.8	7688.8	6296.7	5156.4	3771.9	2596.9	1796.0	1382.3	1229.0	1100.3
22.5°	16058.6	13405.5	10974.5	8836.7	7171.8	5388.5	3715.3	2312.0	1580.3	1376.5	1225.1
20°	21693.3	17356.3	14316.8	11579.0	9182.1	6923.9	4806.9	3094.8	2015.5	1534.2	1346.5
17.5°	29134.8	22733.5	18057.3	14537.2	11490.5	8819.7	6260.6	4075.2	2423.0	1694.6	1465.9
15°	36999.5	28832.9	22477.6	17498.6	13599.2	10495.8	7738.9	5057.5	2991.8	1978.6	1599.0
12.5°	45413.7	35519.2	27020.0	20508.0	15594.0	11965.0	8950.3	6128.9	3759.4	2312.3	1712.2
10°	52496.3	41256.2	31661.4	24001.7	18185.9	13600.3	9985.4	6977.2	4372.8	2603.7	1811.8
7.5°	59931.2	46090.3	35199.2	26490.1	20184.5	15328.1	11051.7	7607.2	4843.1	2820.8	1888.4
5°	65001.7	49297.6	37600.6	28182.5	21445.6	16506.3	12057.3	8044.5	5141.2	2969.0	1952.6
2.5°	68180.2	51040.7	38898.8	29442.9	22109.7	17098.9	12845.1	8597.8	5393.2	3101.2	2016.9
0°	70002.5	52640.6	39975.5	30231.1	22478.2	17420.2	13253.7	9239.5	5562.9	3189.5	2068.7
-2.5°	71517.7	52930.0	39729.4	29622.8	22250.0	17265.1	13163.3	9483.9	5929.7	3279.1	2124.0
-5°	69872.5	52202.4	38848.3	28875.3	21936.8	17020.8	12973.0	9412.7	6030.6	3317.6	2163.1
-7.5°	65979.3	50033.7	37387.9	27781.9	21312.1	16611.6	12618.6	9009.4	5781.9	3335.1	2215.6
-10°	60098.2	46541.7	34926.8	26299.8	20415.7	15979.5	12097.1	8545.3	5446.4	3263.4	2249.4
-12.5°	53877.2	42190.2	31954.3	24228.3	19172.0	15085.3	11355.9	7907.4	4985.3	3100.2	2274.9
-15°	47189.0	37335.3	28948.5	22488.4	17717.6	13920.1	10412.7	7093.0	4389.5	2864.6	2279.2
-17.5°	40254.9	32460.3	25423.7	20199.1	16086.2	12549.9	9255.2	6273.7	3956.5	2688.5	2266.7
-20°	33272.2	27606.1	22523.4	18046.7	14221.1	10888.5	7874.9	5280.0	3513.9	2645.6	2261.3



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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°	27319.5	23513.8	19634.2	15743.2	12398.2	9222.5	6473.4	4290.8	2979.9	2552.4	2227.9
-25°	22964.1	19874.0	16705.1	13582.1	10444.7	7492.0	5065.1	3585.0	2800.5	2466.1	2166.5
-27.5°	19093.1	16421.4	13777.2	11055.9	8317.9	5838.6	4023.1	2955.2	2621.1	2351.0	2104.3
-30°	15472.4	13170.2	10840.4	8459.3	6304.7	4389.4	3164.0	2754.0	2471.0	2227.9	2006.7
-32.5°	11983.3	10059.0	8015.0	6136.5	4499.2	3361.0	2860.6	2560.7	2326.6	2112.2	1914.8
-35°	8675.0	7166.6	5540.0	4316.6	3293.8	2921.7	2646.2	2409.3	2191.9	1996.0	1821.2
-37.5°	5803.5	4717.5	3903.1	3159.1	2917.9	2682.7	2470.5	2261.1	2058.9	1891.2	1737.2
-40°	3881.4	3235.1	3053.3	2855.5	2672.1	2488.2	2300.3	2111.3	1946.1	1792.7	1657.4
-42.5°	2997.2	2867.1	2747.8	2609.6	2460.5	2301.3	2135.8	1981.0	1836.2	1705.9	1584.9
-45°	2689.2	2589.0	2493.5	2388.2	2262.1	2128.8	1988.1	1859.4	1736.0	1623.3	1512.7
-47.5°	2428.0	2348.2	2266.6	2185.7	2083.0	1973.8	1862.6	1749.0	1645.2	1535.5	1378.6
-50°	2200.8	2137.2	2068.2	2000.9	1928.2	1845.3	1749.1	1652.2	1533.8	1385.3	1238.1
-52.5°	2012.8	1958.1	1901.8	1850.5	1795.1	1725.9	1640.3	1507.8	1371.4	1229.6	1091.4
-55°	1851.8	1805.5	1759.1	1718.9	1666.9	1566.3	1457.5	1329.8	1196.9	1066.2	947.5
-57.5°	1710.8	1659.9	1591.8	1525.2	1457.7	1362.9	1255.5	1135.7	1021.9	912.5	804.9
-60°	1489.6	1432.3	1364.2	1294.7	1226.4	1142.7	1052.7	955.6	854.5	764.4	675.1
-62.5°	1235.5	1180.9	1121.7	1062.5	1007.2	942.6	863.9	786.2	704.3	624.5	560.1
-65°	988.9	945.6	896.6	849.5	806.1	758.3	692.2	633.2	574.9	515.5	459.4
-67.5°	770.4	736.5	698.4	661.0	633.3	603.5	559.7	511.6	469.3	430.7	394.9
-70°	598.4	576.1	551.7	525.2	504.0	485.6	458.2	426.2	392.9	362.9	335.4
-72.5°	475.8	461.7	446.2	429.3	412.4	398.6	379.9	356.3	331.6	305.3	283.6
-75°	389.0	378.6	367.3	355.7	343.5	330.3	318.2	304.1	289.0	272.9	258.0
-77.5°	329.5	322.3	315.1	308.7	301.9	294.6	285.6	273.1	261.2	248.7	237.0
-80°	295.2	289.2	283.3	278.5	273.4	267.2	260.1	249.8	239.2	228.5	218.4
-82.5°	268.6	263.6	258.4	253.9	249.2	243.5	237.4	228.6	219.6	210.2	200.9
-85°	244.2	239.6	234.9	230.7	226.5	221.5	216.2	208.5	200.8	192.3	183.9
-87.5°	221.8	217.3	212.8	209.6	206.4	201.8	197.2	190.6	184.0	176.8	169.5
-90°	1.9	1.9	1.9	2.4	2.8	2.8	2.8	3.3	3.8	3.8	3.8



REPORT NUMBER: P735966 (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°
90°	153.3	147.6	142.0	136.3	131.6	126.9	121.8	116.6	109.6	102.5	91.7
87.5°	4.1	4.4	4.8	5.2	5.2	5.2	5.6	6.0	6.0	5.9	6.4
85°	4.6	5.0	5.3	5.6	5.6	5.6	6.0	6.4	6.4	6.3	6.7
82.5°	5.2	5.5	5.5	5.6	5.9	6.1	6.5	6.8	6.8	6.7	7.0
80°	5.5	5.6	5.8	5.9	6.2	6.7	7.0	7.3	7.4	7.3	7.5
77.5°	5.6	5.7	6.2	6.5	6.5	6.7	7.2	7.6	7.9	8.0	8.1
75°	5.6	5.8	6.3	6.7	6.7	6.8	7.2	7.7	8.3	8.6	8.6
72.5°	6.3	6.3	6.6	6.8	7.1	7.3	7.6	7.9	8.6	9.0	9.2
70°	8.0	7.2	7.2	7.5	7.7	8.0	8.4	8.6	8.9	9.5	9.7
67.5°	10.4	9.3	8.6	8.5	8.8	9.0	9.3	9.5	9.7	10.0	10.2
65°	16.3	13.2	10.3	10.2	10.1	10.1	10.3	10.7	10.6	11.1	10.8
62.5°	23.6	18.8	15.8	13.1	12.3	12.9	11.5	12.7	11.8	12.4	12.1
60°	31.9	25.4	22.0	19.4	17.3	17.0	16.3	15.2	14.8	13.9	13.7
57.5°	39.0	31.2	29.3	26.3	25.1	23.4	22.4	20.5	18.5	17.3	15.5
55°	44.5	38.0	37.2	34.7	34.1	31.5	30.1	27.5	23.3	21.4	17.5
52.5°	47.6	46.8	46.0	45.9	45.3	41.5	39.8	35.1	31.5	25.9	21.7
50°	55.6	58.7	57.5	60.3	58.2	56.2	50.4	45.5	40.2	31.7	26.2
47.5°	82.1	84.4	78.0	80.0	76.1	73.2	65.9	57.3	49.6	40.3	31.0
45°	151.4	126.9	119.5	110.4	101.4	97.5	84.6	69.9	61.1	49.5	35.9
42.5°	247.9	213.8	190.6	146.9	143.6	127.2	107.0	90.1	73.2	59.0	42.9
40°	379.1	333.7	283.7	237.3	196.3	161.2	140.3	113.5	85.9	69.5	51.5
37.5°	505.0	453.4	402.4	339.8	265.9	218.0	178.2	138.8	102.3	81.5	60.2
35°	609.1	558.8	510.7	443.5	366.6	277.8	219.8	169.5	125.8	94.1	69.0
32.5°	702.8	644.8	587.9	533.3	450.2	338.8	270.3	204.6	149.9	107.2	77.9
30°	792.5	721.9	655.6	602.8	516.4	407.5	320.2	238.0	174.4	120.6	87.0
27.5°	885.6	799.4	720.9	659.3	570.1	466.5	359.5	269.7	199.3	135.4	96.9
25°	985.3	884.0	797.1	718.8	624.2	510.4	394.6	299.8	225.2	152.4	106.3
22.5°	1090.8	968.7	870.5	782.5	684.0	553.2	428.9	330.6	245.2	168.4	115.3
20°	1190.6	1047.6	937.5	835.5	741.2	601.6	464.0	355.6	264.0	183.2	123.8
17.5°	1290.0	1123.6	989.4	882.0	789.9	651.6	500.1	378.8	281.4	196.8	131.7
15°	1383.6	1197.8	1041.6	923.1	828.9	698.6	535.3	400.8	297.4	209.2	139.7
12.5°	1470.4	1267.7	1093.1	958.5	857.9	740.9	569.0	421.1	311.8	221.6	147.8
10°	1548.2	1333.4	1143.4	992.3	883.1	778.4	600.7	443.5	330.5	233.9	155.3
7.5°	1612.3	1393.4	1189.7	1024.3	906.0	810.5	635.0	472.1	348.9	245.1	162.3
5°	1667.2	1447.6	1235.8	1061.9	932.4	836.6	666.1	499.1	365.9	255.0	168.7
2.5°	1716.8	1495.1	1279.1	1097.5	956.8	857.4	693.3	524.0	381.4	263.6	174.5
0°	1757.4	1534.6	1316.4	1129.3	978.9	873.6	716.5	546.3	394.9	270.8	179.6
-2.5°	1794.2	1562.6	1347.2	1162.7	1015.6	897.8	730.7	557.5	406.0	280.3	185.8
-5°	1821.1	1583.1	1372.2	1191.9	1048.5	917.4	740.9	565.6	414.9	288.2	191.2
-7.5°	1863.5	1606.9	1394.6	1217.5	1076.7	931.6	746.8	570.8	421.4	294.4	195.7
-10°	1896.6	1628.8	1415.2	1238.6	1095.2	943.5	750.0	573.0	425.5	298.7	199.4
-12.5°	1922.3	1644.5	1429.1	1254.2	1109.9	953.7	758.0	575.5	427.0	300.9	202.2
-15°	1941.8	1667.5	1443.4	1265.0	1122.1	958.9	760.1	575.4	425.1	300.6	204.0
-17.5°	1948.0	1676.3	1450.6	1273.4	1130.7	959.2	755.8	570.6	420.4	297.6	205.2
-20°	1951.1	1679.9	1447.9	1274.1	1133.3	947.9	744.8	560.7	412.8	292.9	205.8



REPORT NUMBER: P735966 (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°	1942.1	1681.5	1457.3	1272.8	1124.2	930.2	727.0	546.1	402.3	286.4	205.5
-25°	1904.1	1673.6	1459.1	1277.3	1100.3	905.1	707.8	530.9	388.7	278.1	204.3
-27.5°	1858.3	1644.3	1450.1	1271.6	1075.9	875.7	687.1	517.8	377.1	268.1	202.1
-30°	1807.9	1610.5	1429.1	1251.0	1043.1	843.8	662.1	500.7	366.4	262.0	199.1
-32.5°	1736.3	1571.2	1401.2	1207.9	1002.5	806.3	632.1	479.3	352.8	258.5	196.6
-35°	1666.7	1523.3	1367.2	1155.4	954.8	768.2	599.4	453.5	336.4	253.6	193.6
-37.5°	1593.2	1464.0	1300.5	1094.5	899.0	724.3	566.4	428.9	317.1	247.2	189.7
-40°	1526.8	1384.8	1208.2	1025.6	840.8	673.7	528.9	404.8	304.8	239.4	184.7
-42.5°	1456.5	1278.7	1110.4	944.5	777.0	624.5	488.4	377.9	294.6	231.8	178.7
-45°	1341.1	1169.6	1006.6	857.0	708.0	570.1	454.7	350.6	282.5	223.6	173.5
-47.5°	1219.5	1057.0	903.2	765.2	641.1	515.0	415.6	334.6	268.6	214.2	170.5
-50°	1092.6	943.7	801.8	678.8	564.6	468.3	378.2	316.4	256.1	203.5	166.9
-52.5°	961.7	831.2	705.8	592.1	501.9	418.3	352.6	295.5	242.1	196.4	162.8
-55°	831.3	722.8	611.0	517.4	440.7	381.2	324.9	275.4	226.6	190.5	158.4
-57.5°	709.5	614.3	528.9	450.1	391.9	345.2	298.5	253.9	216.7	183.9	155.8
-60°	592.0	523.0	451.0	396.8	350.3	310.7	272.4	234.7	207.9	177.2	152.6
-62.5°	495.6	438.7	396.2	350.9	311.6	278.6	247.4	222.6	197.9	172.5	148.8
-65°	419.9	382.9	345.4	310.0	275.9	250.0	232.7	209.9	189.7	167.2	144.5
-67.5°	360.2	330.5	301.2	270.2	249.2	233.0	217.1	199.9	182.0	161.5	139.8
-70°	307.8	281.3	263.5	247.4	230.8	216.4	205.3	190.8	174.0	155.4	134.8
-72.5°	268.7	254.7	241.2	227.0	215.4	204.6	194.2	181.4	165.9	149.0	129.4
-75°	244.6	233.6	223.3	212.7	202.5	192.7	183.0	171.7	157.5	142.2	123.8
-77.5°	227.4	218.0	208.0	198.4	189.6	180.6	171.7	161.7	148.8	135.2	118.0
-80°	210.4	202.0	193.4	184.9	176.8	168.5	160.5	151.7	140.0	127.9	112.0
-82.5°	193.4	185.9	178.7	171.4	164.2	157.0	149.5	141.6	131.0	120.2	106.3
-85°	177.5	171.1	164.4	157.6	151.6	145.5	138.9	132.2	123.4	114.4	101.6
-87.5°	164.0	158.5	152.5	146.5	141.4	136.2	130.4	124.5	116.5	108.5	96.7
-90°	3.8	3.8	4.3	4.7	4.7	4.7	5.2	5.6	5.6	5.6	6.1



REPORT NUMBER: P735966 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	80.9	67.2	53.6	38.5	23.5	16.0	8.5
87.5°	6.8	6.9	6.9	6.8	6.8	7.7	8.5
85°	7.1	7.2	7.3	7.1	6.9	7.9	8.5
82.5°	7.3	7.5	7.6	7.3	7.1	8.0	8.5
80°	7.6	7.8	7.9	7.6	7.3	8.2	8.5
77.5°	8.1	8.2	8.2	7.8	7.5	8.4	8.5
75°	8.6	8.6	8.6	8.1	7.7	8.6	8.5
72.5°	9.1	9.0	8.9	8.3	7.9	8.7	8.5
70°	9.6	9.4	9.2	8.6	8.2	8.9	8.5
67.5°	10.3	9.8	9.6	8.9	8.4	9.1	8.5
65°	11.0	10.4	10.0	9.3	8.7	9.3	8.5
62.5°	11.8	11.3	10.4	9.7	9.0	9.5	8.5
60°	12.7	12.2	10.8	10.1	9.2	9.7	8.5
57.5°	14.4	13.1	11.8	10.4	9.8	9.9	8.5
55°	16.4	14.1	12.8	10.8	10.3	10.1	8.5
52.5°	18.5	15.3	13.9	11.2	10.9	10.3	8.5
50°	20.6	17.4	15.0	11.7	11.5	10.5	8.5
47.5°	23.2	19.7	16.2	12.2	12.1	10.7	8.5
45°	27.4	22.0	17.5	13.2	12.8	10.9	8.5
42.5°	31.8	24.4	18.8	14.1	13.5	11.1	8.5
40°	36.4	26.9	20.4	15.5	14.3	11.3	8.5
37.5°	41.3	29.6	22.4	17.2	15.0	11.5	8.5
35°	46.1	33.0	24.4	18.8	15.8	11.7	8.5
32.5°	51.6	36.9	26.4	20.5	16.6	11.9	8.5
30°	58.8	40.7	28.5	22.2	17.5	12.1	8.5
27.5°	65.8	44.4	31.2	23.9	18.3	12.3	8.5
25°	72.6	48.0	34.0	25.7	19.2	12.5	8.5
22.5°	79.1	51.8	36.7	27.4	20.1	12.7	8.5
20°	85.4	56.1	39.4	29.1	20.9	12.8	8.5
17.5°	91.9	60.3	41.9	30.8	21.8	13.0	8.5
15°	98.3	64.3	44.4	32.4	22.6	13.2	8.5
12.5°	104.3	68.2	46.9	34.0	23.5	13.4	8.5
10°	109.9	71.9	49.2	35.6	24.3	13.5	8.5
7.5°	115.1	75.4	51.4	37.2	25.1	13.7	8.5
5°	119.9	78.7	53.5	38.6	25.9	13.8	8.5
2.5°	124.1	81.8	55.5	40.1	26.6	14.0	8.5
0°	127.9	84.6	57.4	41.4	27.3	14.1	8.5
-2.5°	132.3	88.0	60.1	43.1	28.3	14.6	8.5
-5°	136.2	91.2	62.6	44.8	29.3	15.1	8.5
-7.5°	139.5	94.0	65.0	46.4	30.3	15.6	8.5
-10°	142.3	96.6	67.2	47.8	31.1	16.0	8.5
-12.5°	144.4	98.8	69.3	49.2	32.0	16.5	8.5
-15°	146.0	100.8	71.1	50.5	32.7	16.9	8.5
-17.5°	146.9	102.4	72.8	51.6	33.4	17.3	8.5
-20°	147.7	103.8	74.3	52.6	34.0	17.7	8.5



REPORT NUMBER: P735966 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	148.4	104.8	75.5	53.5	34.6	18.0	8.5
-25°	148.4	106.0	76.5	54.2	35.1	18.4	8.5
-27.5°	147.8	107.1	77.4	54.9	35.5	18.7	8.5
-30°	146.5	107.8	78.0	55.3	35.9	18.9	8.5
-32.5°	144.5	108.2	79.0	55.7	36.1	19.2	8.5
-35°	143.7	108.2	79.8	55.9	36.3	19.4	8.5
-37.5°	143.3	108.2	80.4	56.0	36.5	19.6	8.5
-40°	142.4	108.6	80.8	55.9	36.5	19.7	8.5
-42.5°	140.9	108.8	81.1	55.8	36.5	19.8	8.5
-45°	138.7	108.7	81.2	55.9	36.5	19.9	8.5
-47.5°	136.2	108.3	81.2	55.9	36.3	19.9	8.5
-50°	134.8	107.7	80.8	55.9	36.1	19.9	8.5
-52.5°	133.4	106.7	80.3	55.8	35.8	19.9	8.5
-55°	131.6	105.4	79.5	55.6	35.4	19.9	8.5
-57.5°	129.5	103.8	78.4	55.2	35.0	19.8	8.5
-60°	127.0	101.9	77.2	54.7	34.5	19.6	8.5
-62.5°	124.2	99.7	76.2	54.0	33.9	19.5	8.5
-65°	121.0	97.2	74.9	53.1	33.3	19.3	8.5
-67.5°	117.5	94.8	73.5	52.2	32.7	19.1	8.5
-70°	113.6	92.2	71.8	51.1	31.9	18.8	8.5
-72.5°	109.7	89.4	70.0	49.9	31.0	18.6	8.5
-75°	105.6	86.4	68.0	48.6	30.1	18.3	8.5
-77.5°	101.1	83.1	65.9	47.2	29.2	17.9	8.5
-80°	96.4	80.0	63.7	45.7	28.1	17.6	8.5
-82.5°	92.6	77.0	61.4	44.0	27.0	17.2	8.5
-85°	88.9	73.9	58.9	42.3	25.9	16.8	8.5
-87.5°	85.0	70.6	56.3	40.5	24.7	16.4	8.5
-90°	6.6	6.6	6.6	6.6	6.6	7.6	8.5

(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

