

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: P731326 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-7F-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731326 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-70-7F-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 7F BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

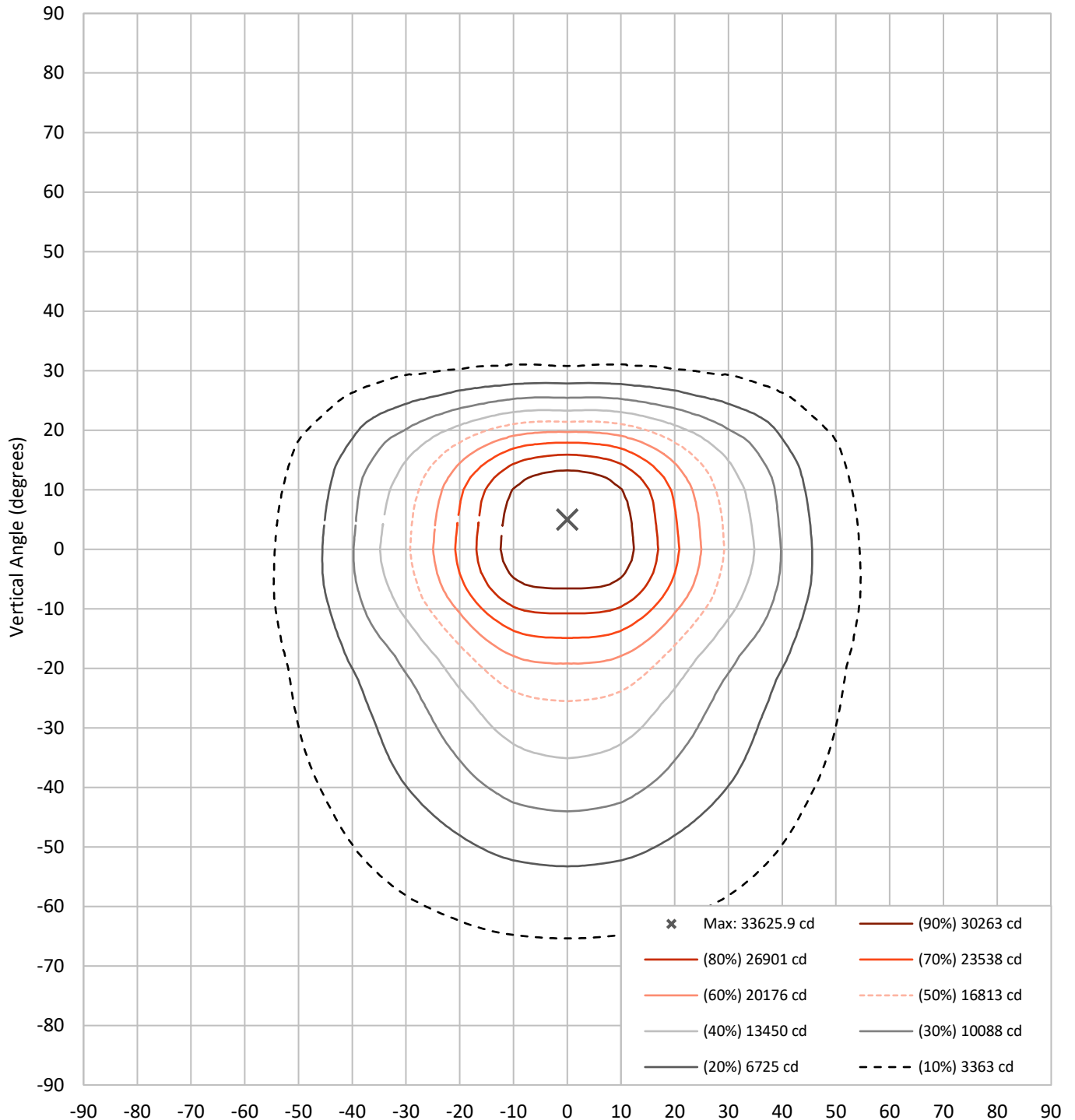
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	32947.7 lumens	Max Intensity:	33625.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	95.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.7°H x 46.8°V	Field Angle (10%):	107.9°H x 96.1°V
Beam Lumens:	15847.2 lumens	Field Lumens:	30543.5 lumens
Beam Efficiency:	48.1%	Field Efficiency:	92.7%

Input Watts (W): 345.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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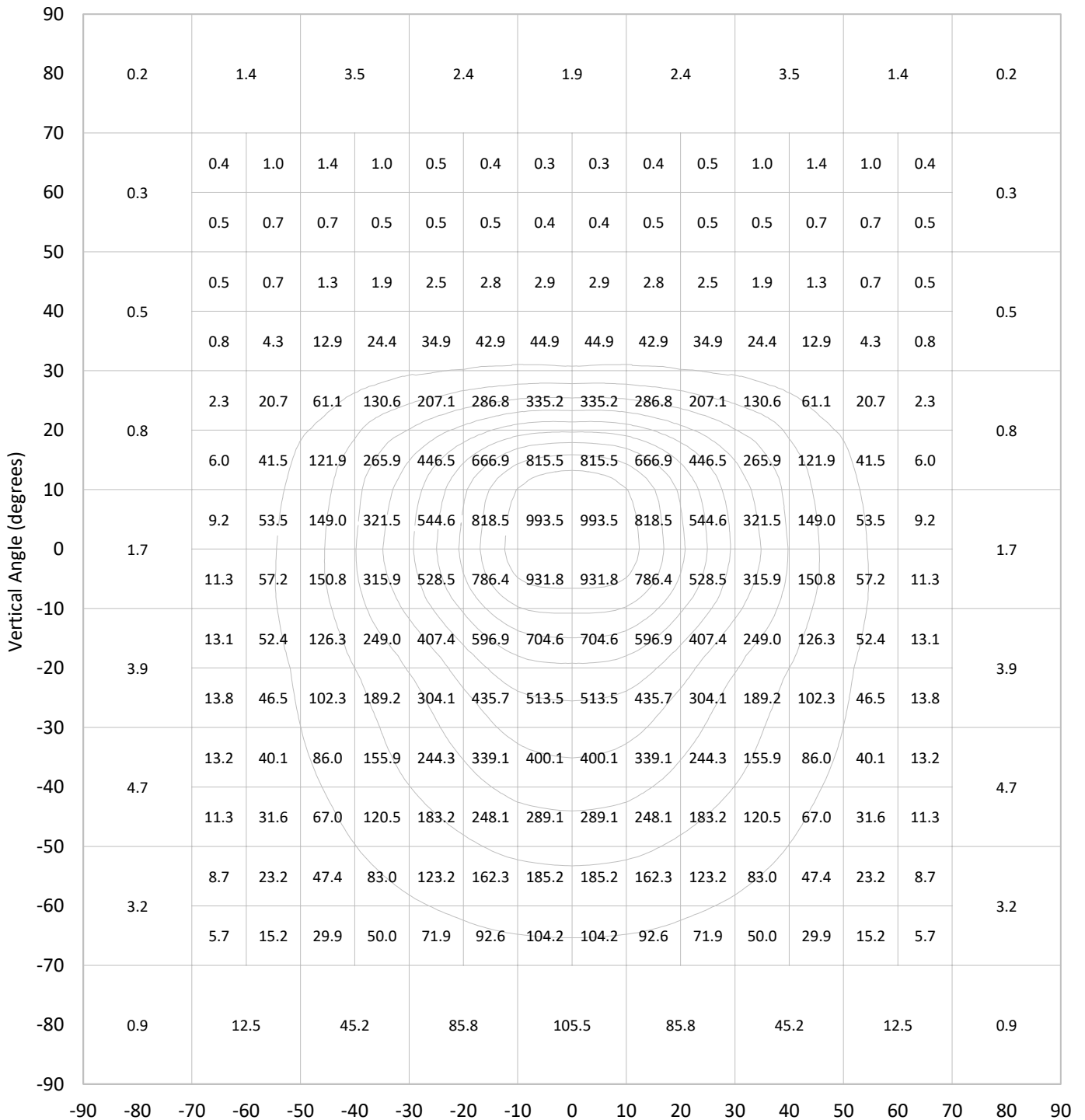
### Iso-Candela Plot





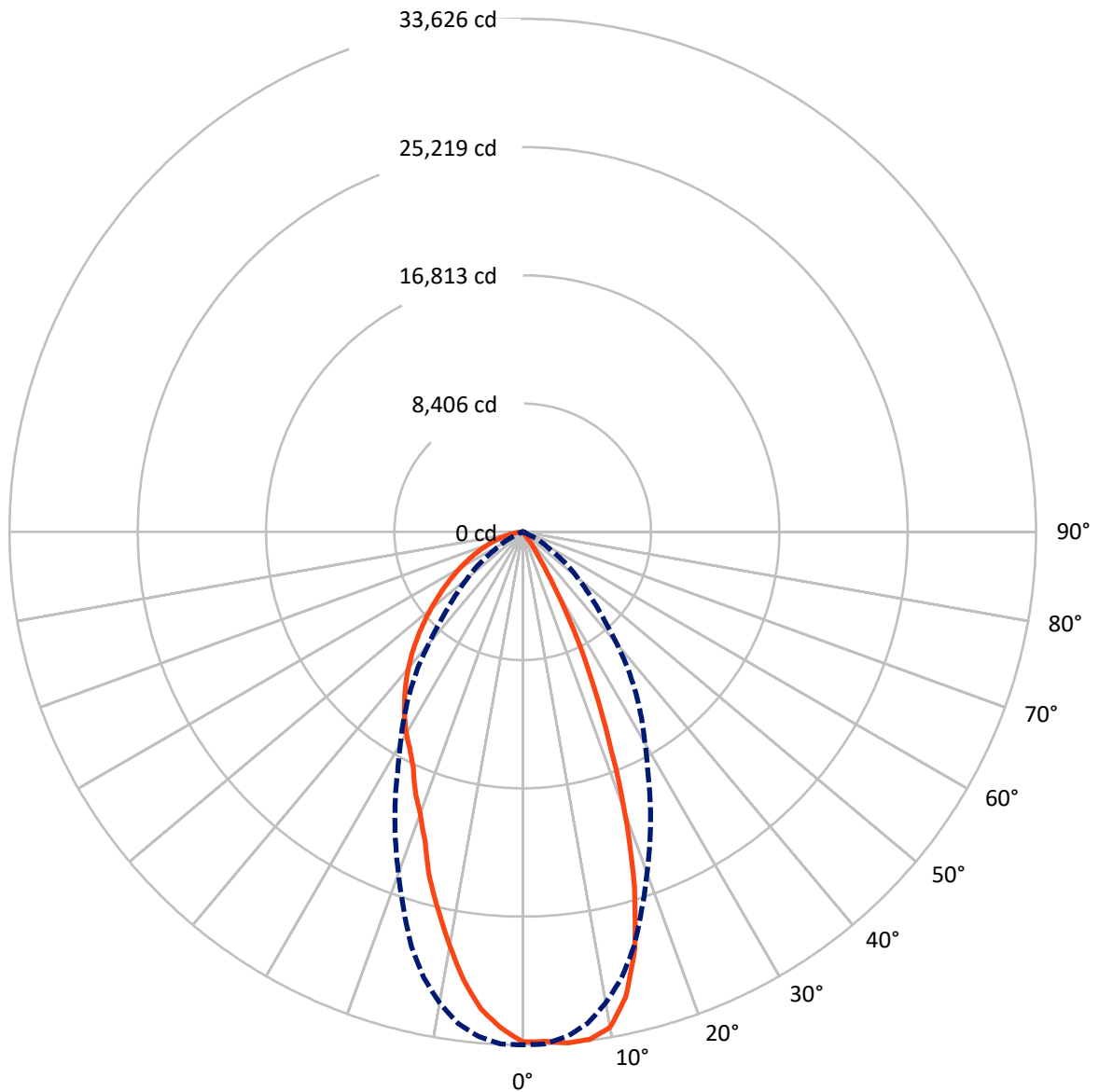
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### Lumen Table



REPORT NUMBER: P731326 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV1

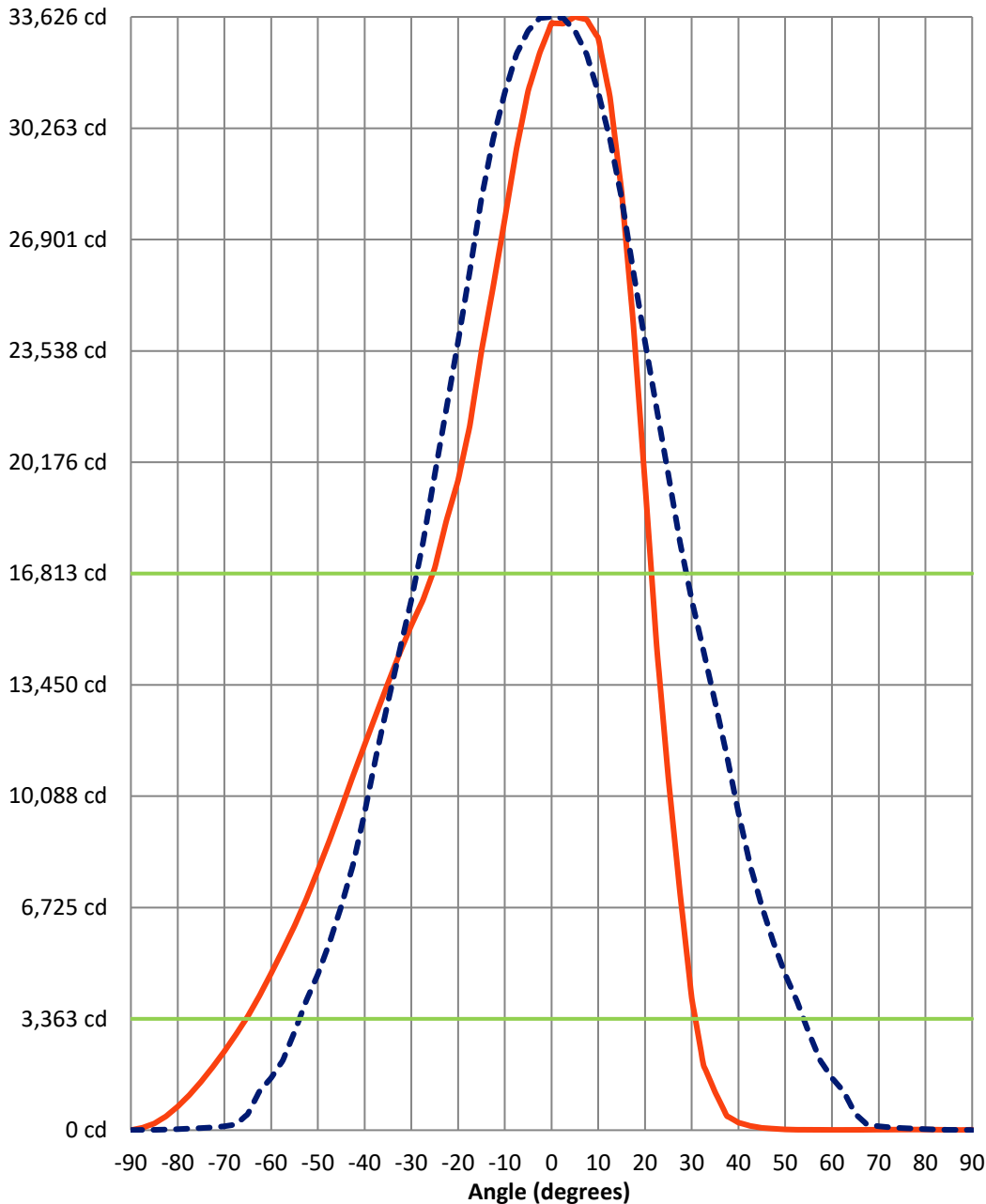
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 5-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 57.7°  
 V Angle: 46.8°  
 Lumens: 15847.2  
 Efficiency: 48.1%

**Field:**  
 H Angle: 107.9°  
 V Angle: 96.1°  
 Lumens: 30543.5  
 Efficiency: 92.7%

**Spill:**  
 Lumens: 2404.2  
 Efficiency: 7.3%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 5-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°	4.6	5.2	5.8	6.1	6.4	6.6	6.9	7.2	7.5	7.8	8.1
87.5°	4.6	5.4	6.2	6.3	6.4	6.6	7.0	6.9	6.8	6.6	6.4
85°	4.6	5.6	6.6	7.0	7.6	8.4	9.4	9.5	9.6	9.5	9.4
82.5°	4.6	5.7	7.0	7.7	8.8	10.1	11.7	12.1	12.4	13.0	14.4
80°	4.6	5.9	7.4	8.5	9.9	11.8	13.8	14.1	15.2	17.3	20.5
77.5°	4.6	6.1	7.7	9.2	11.1	13.0	14.3	15.5	17.9	21.5	25.1
75°	4.6	6.2	8.1	9.9	12.0	13.2	14.8	16.9	20.2	23.1	25.9
72.5°	4.6	6.4	8.5	10.6	12.0	13.4	15.2	17.9	20.8	23.7	26.6
70°	4.6	6.5	8.8	11.1	12.0	13.5	15.6	18.3	21.3	24.3	27.9
67.5°	4.6	6.7	9.2	11.0	12.0	13.6	16.0	18.7	21.8	25.6	29.5
65°	4.6	6.8	9.5	10.9	11.9	13.9	16.5	19.1	22.9	26.9	31.1
62.5°	4.6	7.0	9.8	10.7	11.9	14.4	17.0	19.9	24.0	28.2	33.1
60°	4.6	7.1	10.1	10.6	11.7	14.8	17.4	20.8	25.0	29.8	35.0
57.5°	4.6	7.2	10.0	10.4	12.1	15.3	18.3	21.7	26.1	31.2	35.9
55°	4.6	7.4	9.9	10.2	12.5	15.7	19.2	22.7	27.1	32.3	36.5
52.5°	4.6	7.5	9.8	10.0	12.9	16.2	20.1	23.8	28.0	32.9	37.1
50°	4.6	7.6	9.8	9.8	13.3	17.0	21.0	25.1	28.7	33.5	37.2
47.5°	4.6	7.7	9.7	9.7	13.7	17.7	21.9	26.5	29.3	34.1	37.9
45°	4.6	7.8	9.7	10.0	14.0	18.4	23.2	28.0	31.0	35.3	39.0
42.5°	4.6	7.9	9.6	10.2	14.4	19.0	24.6	29.6	32.9	36.9	41.0
40°	4.6	7.9	9.6	10.6	14.8	19.7	26.0	31.5	35.3	39.0	43.6
37.5°	4.6	8.0	9.6	11.2	15.3	20.3	27.4	33.5	38.5	42.8	46.8
35°	4.6	8.1	9.6	11.7	15.7	21.2	28.9	35.6	41.7	47.4	51.3
32.5°	4.6	8.1	9.6	12.3	16.1	22.3	30.5	37.9	45.2	52.6	59.8
30°	4.6	8.2	9.7	12.9	16.5	23.5	32.3	40.4	48.8	58.3	69.6
27.5°	4.6	8.2	9.7	13.5	17.7	24.6	34.1	43.3	52.9	64.4	80.6
25°	4.6	8.2	9.7	14.1	19.0	25.6	35.9	46.2	57.8	72.6	93.8
22.5°	4.6	8.3	9.8	14.8	20.4	27.2	37.8	49.2	62.9	82.2	137.6
20°	4.6	8.3	9.9	15.4	21.9	30.2	39.6	52.1	68.2	92.2	186.7
17.5°	4.6	8.3	9.9	16.0	23.4	33.1	43.0	54.9	73.5	102.5	239.9
15°	4.6	8.3	10.0	16.6	24.9	36.1	47.3	59.3	78.8	113.0	295.9
12.5°	4.6	8.3	10.1	17.2	26.4	39.1	51.6	65.6	87.1	123.4	353.1
10°	4.6	8.2	10.1	17.7	27.9	42.1	55.8	71.9	97.7	139.6	407.2
7.5°	4.6	8.2	10.2	18.2	29.4	45.0	60.0	78.1	108.3	156.3	451.1
5°	4.6	8.2	10.3	18.7	30.8	47.8	64.0	84.2	118.7	172.6	489.4
2.5°	4.6	8.1	10.3	19.2	32.1	50.5	67.8	90.1	128.8	188.2	521.7
0°	4.6	8.1	10.4	19.6	33.4	53.0	71.5	95.7	138.3	202.8	547.4
-2.5°	4.6	8.2	11.2	22.0	38.8	63.4	89.4	125.8	185.2	271.3	618.9
-5°	4.6	8.4	12.0	24.3	44.1	73.4	106.9	155.1	230.8	337.6	683.3
-7.5°	4.6	8.5	12.7	26.5	49.1	83.0	123.7	183.2	274.3	400.7	740.7
-10°	4.6	8.6	13.5	28.6	53.9	92.1	139.6	209.7	315.0	459.7	791.1
-12.5°	4.6	8.7	14.2	30.6	58.2	100.4	154.4	234.1	352.4	513.8	838.2
-15°	4.6	8.8	14.8	32.3	62.2	108.0	167.9	256.1	387.8	562.5	878.5
-17.5°	4.6	8.9	15.4	33.9	65.8	114.7	179.9	279.6	422.0	605.7	909.6
-20°	4.6	9.0	16.0	35.2	68.8	120.4	193.0	303.6	452.1	642.7	931.3



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV1

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.6	9.1	16.4	36.3	71.2	125.0	208.7	324.5	477.8	673.0	943.3
-25°	4.6	9.1	16.8	37.2	73.1	132.1	222.1	342.0	498.9	696.3	945.4
-27.5°	4.6	9.1	17.2	37.8	74.3	139.2	232.9	356.0	515.2	714.6	967.8
-30°	4.6	9.2	17.5	38.1	75.2	144.8	241.2	366.3	529.0	731.0	981.9
-32.5°	4.6	9.2	17.6	38.1	78.0	148.6	246.7	375.0	539.4	740.7	986.2
-35°	4.6	9.2	17.7	37.8	79.9	150.8	250.6	380.6	544.6	743.6	980.5
-37.5°	4.6	9.1	17.8	37.1	80.7	151.8	252.5	382.1	544.4	739.7	951.5
-40°	4.6	9.1	17.7	36.2	80.5	152.4	251.7	379.4	538.8	732.8	920.9
-42.5°	4.6	9.0	17.5	35.4	80.1	151.3	248.4	372.7	530.3	707.9	884.6
-45°	4.6	8.9	17.3	34.9	79.6	148.5	242.3	363.4	517.6	676.4	843.5
-47.5°	4.6	8.8	17.0	34.0	78.2	144.1	233.7	352.7	499.1	640.7	802.8
-50°	4.6	8.7	16.6	33.8	76.0	138.0	225.2	338.5	468.2	604.9	756.8
-52.5°	4.6	8.6	16.1	33.4	73.0	130.3	214.7	320.8	438.1	565.0	706.4
-55°	4.6	8.4	15.5	32.7	69.1	123.9	202.0	300.3	406.6	521.2	655.7
-57.5°	4.6	8.3	14.8	31.6	64.4	116.7	187.1	280.4	372.1	478.7	600.6
-60°	4.6	8.1	14.1	30.1	59.1	108.3	170.6	255.4	336.0	434.0	543.5
-62.5°	4.6	7.9	13.6	28.4	55.4	98.8	157.0	227.7	302.3	386.1	486.9
-65°	4.6	7.7	13.0	26.3	51.1	88.2	141.8	200.4	266.5	341.7	426.6
-67.5°	4.6	7.5	12.4	23.9	46.3	78.4	125.2	176.8	228.9	296.6	370.4
-70°	4.6	7.3	11.8	21.3	41.0	69.5	107.2	152.1	198.2	249.4	314.8
-72.5°	4.6	7.0	11.1	19.5	35.2	59.9	92.2	126.3	166.5	210.9	259.4
-75°	4.6	6.8	10.4	17.8	29.1	49.7	76.9	103.9	133.7	171.3	212.5
-77.5°	4.6	6.5	9.7	16.0	25.1	38.9	60.8	82.2	105.9	132.6	164.1
-80°	4.6	6.3	8.9	14.1	21.6	31.2	44.1	60.0	78.1	98.5	121.2
-82.5°	4.6	6.0	8.2	12.2	17.9	25.3	34.3	41.3	49.6	63.7	79.5
-85°	4.6	5.8	7.4	10.2	14.1	19.1	25.3	30.0	35.0	40.3	45.9
-87.5°	4.6	5.5	6.6	8.1	10.2	12.9	16.1	18.6	21.3	24.1	27.1
-90°	4.6	5.2	5.8	5.5	5.2	4.9	4.6	4.3	4.1	3.8	3.5





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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV1

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	8.1	8.1	8.1	8.1	8.4	8.7	8.9	9.2	9.8	10.4	10.9
87.5°	6.8	7.2	7.6	8.1	7.5	6.8	6.0	5.1	5.4	5.7	6.0
85°	10.1	10.9	11.9	12.7	12.1	11.6	11.3	11.0	11.6	12.1	12.5
82.5°	15.8	16.7	17.3	17.4	17.7	18.3	19.3	21.3	22.6	23.5	24.0
80°	22.0	22.6	23.1	24.6	27.4	30.6	34.2	38.1	39.4	39.5	39.1
77.5°	25.8	27.2	29.9	33.9	38.4	42.9	47.9	53.4	55.0	54.5	53.5
75°	28.0	31.3	36.0	41.9	47.8	54.0	60.5	66.6	68.4	66.5	63.9
72.5°	30.2	35.2	41.5	49.0	55.6	61.9	68.9	76.7	79.4	75.4	70.8
70°	32.3	38.6	45.8	53.3	60.8	68.0	74.8	82.2	86.6	80.5	71.1
67.5°	34.1	41.5	49.1	56.8	63.6	70.6	78.4	81.5	83.5	73.6	63.0
65°	36.3	44.0	51.0	57.9	65.1	68.0	70.5	73.2	72.8	61.5	50.3
62.5°	38.4	44.8	51.5	56.8	58.6	60.3	60.3	58.6	55.9	48.1	38.4
60°	39.2	44.7	49.3	51.1	51.5	49.8	47.7	45.5	42.2	35.7	29.1
57.5°	39.6	42.6	44.7	45.3	43.3	40.0	38.5	35.1	32.2	28.5	23.0
55°	39.4	39.1	40.3	39.2	36.9	34.2	31.5	29.3	25.7	24.6	22.1
52.5°	38.4	36.7	36.1	34.9	33.3	30.6	27.9	26.1	25.2	23.8	21.8
50°	38.1	35.8	33.0	32.9	31.7	29.6	26.8	26.5	26.5	25.2	22.9
47.5°	38.5	35.9	32.4	32.4	32.5	33.3	30.9	29.8	30.2	33.6	30.0
45°	39.8	38.4	34.7	34.6	37.8	42.1	46.0	35.3	46.1	51.4	55.6
42.5°	41.9	42.6	44.4	37.8	50.0	65.4	72.8	76.6	72.7	89.4	106.8
40°	46.5	48.1	61.0	66.0	71.2	103.2	147.4	157.7	119.8	166.6	195.5
37.5°	52.2	68.5	90.9	117.9	115.5	182.0	251.3	304.3	299.1	282.8	405.0
35°	58.8	93.6	153.9	214.2	240.7	303.8	431.4	523.9	578.9	612.1	712.8
32.5°	76.9	123.3	232.7	360.8	471.1	533.7	654.2	856.9	1048.7	1163.2	1162.2
30°	108.7	196.4	344.0	540.8	755.2	931.0	1030.7	1291.2	1656.7	1916.8	2090.0
27.5°	155.6	285.3	515.7	800.8	1101.1	1399.6	1598.6	1937.0	2428.9	2825.2	3195.3
25°	213.0	426.5	709.0	1109.9	1551.5	1930.7	2216.9	2687.4	3310.7	3932.1	4551.3
22.5°	304.4	590.5	923.5	1447.8	2048.6	2479.6	2900.0	3473.4	4194.3	5066.8	6010.8
20°	431.7	781.4	1152.6	1713.0	2545.7	3038.3	3554.5	4238.9	5079.6	6140.0	7400.5
17.5°	569.3	961.5	1377.2	2002.0	2814.4	3497.1	4190.1	4970.1	5912.3	7142.4	8500.2
15°	714.1	1131.0	1577.9	2260.0	3066.0	3803.5	4623.6	5638.0	6749.1	8079.4	9499.7
12.5°	862.5	1289.6	1755.7	2487.3	3306.1	4081.2	4955.7	6010.7	7303.3	8863.8	10354.8
10°	1010.8	1437.4	1912.0	2684.2	3531.4	4329.4	5240.9	6320.4	7635.5	9198.9	10810.5
7.5°	1101.8	1535.0	2039.8	2851.4	3738.0	4547.7	5480.3	6569.1	7865.6	9438.5	11099.4
5°	1170.6	1578.8	2106.2	2965.3	3901.3	4709.5	5667.2	6759.8	8004.1	9584.5	11318.9
2.5°	1224.2	1611.2	2159.2	3050.0	4024.8	4797.4	5778.4	6881.8	8148.4	9766.0	11540.4
0°	1261.9	1633.0	2197.7	3108.1	4117.7	4854.1	5850.9	6955.0	8249.2	9923.7	11737.6
-2.5°	1298.6	1700.5	2276.0	3182.2	4131.1	4862.5	5878.5	6958.0	8249.1	9893.1	11655.9
-5°	1321.7	1756.7	2337.8	3228.9	4117.3	4845.1	5863.3	6916.2	8159.2	9713.7	11353.0
-7.5°	1333.6	1799.7	2382.4	3236.0	4046.2	4742.9	5680.0	6669.8	7862.5	9319.1	10830.6
-10°	1340.0	1825.6	2377.6	3138.5	3898.5	4578.6	5435.3	6383.6	7507.1	8861.6	10260.1
-12.5°	1357.6	1839.7	2356.1	3032.2	3738.1	4392.8	5163.9	6061.9	7094.8	8350.0	9633.1
-15°	1367.1	1846.8	2326.2	2922.4	3569.5	4187.0	4870.2	5707.9	6648.3	7771.0	8909.4
-17.5°	1369.8	1848.1	2289.7	2814.4	3396.8	3962.8	4581.2	5404.5	6260.7	7230.3	8201.1
-20°	1366.8	1844.6	2248.4	2712.6	3227.0	3799.8	4424.1	5142.4	5908.9	6728.7	7537.5



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV1

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1359.2	1837.4	2213.6	2640.4	3145.5	3693.1	4267.3	4888.9	5548.4	6260.3	7080.6
-25°	1355.5	1811.0	2190.3	2589.4	3066.6	3580.8	4102.5	4654.7	5229.7	5975.3	6757.6
-27.5°	1349.5	1783.1	2144.5	2518.5	2975.3	3467.4	3956.7	4460.7	5051.0	5720.8	6446.9
-30°	1331.7	1715.8	2082.3	2435.5	2878.7	3352.8	3820.1	4299.2	4857.8	5489.3	6162.8
-32.5°	1281.6	1639.3	1999.6	2354.4	2762.4	3227.2	3679.0	4143.6	4661.7	5227.6	5875.6
-35°	1225.5	1560.3	1906.9	2253.9	2626.6	3074.9	3514.4	3963.5	4444.4	4975.3	5579.5
-37.5°	1184.7	1475.6	1807.6	2140.6	2498.3	2896.6	3327.6	3759.9	4215.2	4721.1	5292.5
-40°	1136.1	1385.2	1706.9	2025.6	2351.2	2718.4	3121.1	3536.0	3963.5	4467.9	4991.5
-42.5°	1081.8	1322.3	1602.4	1903.6	2210.7	2544.5	2903.8	3298.6	3727.5	4196.8	4688.5
-45°	1034.8	1251.7	1498.0	1779.8	2065.1	2367.5	2700.8	3053.7	3477.4	3914.0	4370.6
-47.5°	981.4	1177.8	1409.4	1649.0	1917.7	2196.5	2491.3	2835.0	3211.4	3620.3	4039.1
-50°	923.7	1110.9	1308.5	1531.2	1769.4	2024.6	2293.7	2607.3	2950.9	3316.2	3701.6
-52.5°	865.7	1037.1	1218.9	1412.8	1629.1	1858.5	2107.8	2387.1	2691.1	3011.2	3351.3
-55°	802.1	962.2	1127.6	1303.4	1492.1	1700.2	1923.1	2172.8	2434.2	2724.4	3010.4
-57.5°	736.7	881.5	1034.1	1196.9	1366.5	1543.4	1745.4	1957.0	2193.1	2441.2	2693.6
-60°	668.5	798.1	936.4	1086.1	1243.7	1403.1	1566.7	1754.1	1954.6	2160.8	2386.4
-62.5°	596.9	713.3	836.9	969.6	1113.9	1258.1	1404.8	1559.8	1722.3	1907.5	2095.7
-65°	525.9	626.2	736.3	854.3	977.8	1107.4	1238.9	1371.7	1513.8	1666.4	1824.9
-67.5°	451.1	541.7	636.4	736.6	846.2	956.2	1071.0	1191.1	1311.8	1435.4	1565.6
-70°	383.7	455.6	538.1	625.6	714.1	804.2	903.4	1006.5	1111.7	1216.9	1325.0
-72.5°	315.8	377.6	443.5	513.4	587.8	662.0	739.4	819.8	905.3	993.8	1083.6
-75°	254.1	297.9	351.9	410.2	467.0	522.9	581.0	646.3	714.0	782.2	850.3
-77.5°	197.1	232.0	269.6	309.7	349.2	394.1	440.0	486.9	535.9	586.2	637.2
-80°	142.6	164.7	192.5	222.4	251.1	280.1	310.0	340.5	372.4	407.7	445.8
-82.5°	94.5	110.2	126.7	144.0	160.0	175.8	192.8	213.6	234.6	256.1	278.1
-85°	50.5	55.2	64.9	75.2	85.4	95.6	105.8	116.0	126.4	136.5	146.4
-87.5°	29.4	31.7	34.1	36.5	39.0	41.6	44.1	46.7	50.1	53.6	57.1
-90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	11.5	11.8	12.1	12.4	12.7	13.0	13.3	13.5	13.8	14.1	14.4
87.5°	6.3	5.8	5.4	4.9	4.4	5.8	7.2	8.6	10.1	9.4	8.6
85°	12.8	12.9	12.9	13.0	13.1	14.6	16.1	17.5	18.9	17.5	15.9
82.5°	24.1	23.7	22.9	21.7	20.1	19.7	19.2	18.5	17.6	16.8	16.2
80°	38.2	36.3	33.8	30.9	27.5	25.8	24.2	22.4	20.4	19.8	19.4
77.5°	51.5	47.9	43.6	39.1	34.2	31.1	28.3	25.3	22.1	21.2	20.7
75°	60.7	56.2	50.1	43.6	36.8	32.0	28.2	24.5	20.8	19.9	19.7
72.5°	65.6	59.3	51.6	42.5	33.8	28.1	24.5	21.4	18.5	17.5	17.1
70°	61.6	52.1	43.2	34.9	27.1	22.0	19.5	17.3	15.3	14.8	15.1
67.5°	52.1	42.5	34.4	27.2	21.0	16.8	15.3	14.2	13.3	13.0	13.0
65°	40.7	32.6	26.0	20.5	16.1	13.5	13.1	12.6	12.1	11.7	11.3
62.5°	30.0	23.9	19.7	16.6	14.2	12.7	12.3	11.8	11.2	10.6	10.2
60°	23.4	18.6	16.4	15.1	13.9	12.9	12.5	12.2	12.0	11.9	11.5
57.5°	20.3	17.8	15.9	15.1	14.5	14.0	13.7	13.5	13.1	12.7	12.2
55°	19.8	17.9	16.2	15.8	15.5	15.2	14.8	14.4	13.9	13.4	13.2
52.5°	19.9	19.0	17.8	17.2	17.4	17.0	16.0	16.5	16.6	16.1	15.9
50°	22.5	22.7	22.9	21.0	23.0	23.8	22.6	23.6	25.1	25.3	25.2
47.5°	31.8	33.9	36.7	34.5	37.1	40.9	40.6	40.9	44.3	44.8	44.6
45°	50.7	59.9	64.2	66.7	65.8	74.7	76.5	73.6	78.3	79.2	77.8
42.5°	101.6	106.7	118.2	127.2	122.0	131.2	133.9	125.6	133.7	137.4	133.4
40°	227.6	180.9	214.8	238.2	230.0	212.1	243.2	232.1	231.0	243.9	233.8
37.5°	449.3	398.8	433.5	500.3	497.9	413.8	507.6	501.5	421.6	516.3	508.1
35°	805.8	899.1	857.4	982.3	1018.5	1037.3	1089.4	1143.2	1084.3	1161.9	1159.9
32.5°	1442.7	1636.3	1721.9	1737.1	1897.5	2028.1	1972.8	2182.4	2169.6	2222.0	2275.6
30°	2277.6	2709.2	2927.7	2933.2	3199.1	3433.2	3507.5	3770.5	3926.1	3900.3	4160.8
27.5°	3633.9	4057.9	4417.7	4724.7	4931.9	5301.1	5814.9	6074.2	6456.4	6606.4	6966.5
25°	5166.4	5693.3	6261.2	6795.4	7234.1	7895.3	8534.8	8938.1	9484.9	9913.5	10349.0
22.5°	6826.7	7525.5	8254.2	9053.3	9869.2	10676.0	11452.7	12197.7	12926.8	13732.2	14224.4
20°	8524.0	9313.9	10200.9	11284.0	12415.9	13388.7	14449.7	15617.8	16734.7	17774.1	18559.2
17.5°	9813.8	11036.2	11997.1	13168.8	14574.5	15944.9	17297.5	18838.0	20258.8	21584.1	22766.1
15°	10798.8	12080.2	13473.0	14887.2	16368.0	17999.8	19860.3	21546.0	23301.1	24859.8	26319.6
12.5°	11657.3	12958.3	14415.8	16065.2	17933.0	19684.9	21634.9	23742.9	25605.0	27436.2	28805.8
10°	12291.0	13736.1	15213.8	16872.1	18776.8	20822.2	22935.5	25066.4	27154.3	28921.9	30393.4
7.5°	12640.6	14175.3	15721.3	17453.1	19411.3	21423.2	23534.3	25759.1	27860.7	29681.1	31032.5
5°	12925.2	14485.4	16013.5	17752.2	19792.6	21791.1	23813.4	25936.8	28137.4	29932.9	31338.8
2.5°	13173.5	14695.8	16186.4	17879.3	19982.0	21989.4	24068.6	26269.8	28397.9	30129.9	31498.4
0°	13389.0	14826.1	16284.0	17961.9	20160.8	22192.5	24238.1	26392.0	28559.8	30246.9	31632.2
-2.5°	13233.1	14642.2	16078.7	17793.8	19890.8	21889.4	23946.6	26127.7	28181.0	29889.9	31232.9
-5°	12826.4	14183.8	15610.2	17321.2	19322.9	21280.5	23310.3	25411.2	27341.3	29049.9	30285.2
-7.5°	12231.9	13560.7	14981.6	16665.7	18528.4	20305.1	22119.2	24066.7	25987.8	27496.3	28673.0
-10°	11571.1	12835.7	14143.5	15624.8	17274.1	18933.6	20600.4	22410.9	24103.6	25520.0	26652.6
-12.5°	10786.5	11909.9	13114.1	14406.0	15920.2	17500.7	19090.2	20676.0	22237.2	23511.4	24537.5
-15°	9939.1	10932.5	12032.3	13281.9	14631.0	16025.8	17459.6	18974.0	20380.0	21566.8	22471.5
-17.5°	9103.1	9992.7	11110.5	12246.7	13336.9	14615.9	16041.8	17294.2	18577.3	19643.0	20442.2
-20°	8394.5	9351.5	10323.4	11294.2	12335.7	13579.1	14788.1	15968.8	17109.0	18079.5	18874.1



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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°	7932.5	8773.3	9602.7	10520.9	11579.7	12677.0	13771.2	14844.6	15876.6	16798.4	17554.3
-25°	7512.4	8223.9	9045.2	9977.5	10871.5	11834.1	12867.2	13764.4	14743.3	15578.1	16224.8
-27.5°	7145.1	7849.3	8655.3	9493.8	10302.4	11170.0	12111.0	12967.3	13848.2	14651.0	15215.2
-30°	6825.3	7554.8	8312.8	9079.9	9841.4	10644.0	11461.9	12289.6	13097.8	13825.7	14368.0
-32.5°	6552.9	7237.2	7948.0	8661.9	9356.2	10087.3	10846.0	11606.9	12355.7	12992.6	13523.6
-35°	6243.1	6898.2	7558.7	8199.8	8842.9	9496.8	10200.9	10913.3	11583.2	12164.7	12683.1
-37.5°	5897.3	6528.5	7131.3	7714.9	8311.1	8915.8	9568.0	10222.4	10837.7	11364.1	11858.3
-40°	5553.2	6128.3	6674.3	7219.0	7765.6	8331.9	8921.8	9507.7	10047.9	10545.7	11006.3
-42.5°	5195.6	5699.1	6196.0	6703.1	7207.3	7718.0	8245.0	8777.8	9259.2	9713.2	10121.5
-45°	4834.9	5267.0	5706.0	6170.5	6630.8	7089.3	7545.6	7995.4	8446.1	8869.1	9214.0
-47.5°	4451.3	4841.2	5239.8	5639.2	6051.7	6470.2	6869.1	7258.4	7656.5	8034.5	8319.4
-50°	4064.2	4425.2	4785.4	5137.3	5502.0	5870.1	6233.5	6576.2	6909.7	7231.2	7453.9
-52.5°	3674.3	4008.2	4338.3	4656.5	4972.9	5286.6	5594.5	5898.6	6190.8	6466.3	6642.9
-55°	3304.0	3601.8	3892.1	4170.0	4449.2	4724.8	4996.3	5262.3	5514.5	5751.4	5887.6
-57.5°	2955.8	3215.1	3469.3	3708.6	3942.3	4169.4	4409.4	4651.1	4878.1	5081.8	5191.5
-60°	2616.5	2850.1	3068.2	3268.2	3468.7	3668.1	3870.3	4069.9	4264.3	4433.4	4527.8
-62.5°	2282.8	2482.4	2668.0	2840.1	3005.7	3170.4	3345.8	3514.1	3674.3	3804.8	3884.9
-65°	1990.4	2159.5	2298.5	2435.5	2571.5	2716.3	2862.0	3001.0	3132.5	3234.8	3302.3
-67.5°	1706.1	1845.2	1960.9	2074.6	2188.5	2303.6	2420.9	2534.6	2643.7	2726.4	2785.0
-70°	1435.8	1541.0	1631.6	1724.1	1818.5	1912.6	2006.8	2097.6	2184.2	2247.2	2294.4
-72.5°	1174.4	1255.6	1326.2	1398.0	1469.0	1541.9	1614.9	1685.0	1751.8	1797.0	1830.1
-75°	917.9	976.8	1033.4	1088.2	1141.1	1195.3	1249.1	1300.4	1349.0	1383.2	1410.4
-77.5°	691.1	732.9	769.8	806.0	841.2	878.9	915.7	950.5	983.0	1006.7	1026.7
-80°	484.1	511.1	534.7	556.8	577.5	600.9	623.7	645.3	665.6	679.4	690.5
-82.5°	300.4	316.3	330.5	343.5	355.4	367.6	378.9	389.2	398.4	409.2	419.3
-85°	155.9	162.4	168.4	174.0	179.1	184.1	188.6	192.6	196.1	198.1	199.5
-87.5°	60.6	62.1	63.5	64.8	66.0	67.6	69.1	70.5	71.8	72.9	74.0
-90°	3.5	3.2	2.9	2.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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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°	14.7	15.0	15.0	15.0	15.0	15.0	14.7	14.4	14.1	13.8	13.5
87.5°	7.7	6.9	6.3	5.8	6.3	6.9	7.7	8.6	9.4	10.1	8.6
85°	14.3	12.7	11.5	10.4	11.5	12.7	14.3	15.9	17.5	18.9	17.5
82.5°	15.6	15.0	15.0	15.0	15.0	15.0	15.6	16.2	16.8	17.6	18.5
80°	18.9	18.4	19.0	19.6	19.0	18.4	18.9	19.4	19.8	20.4	22.4
77.5°	20.2	19.6	19.6	19.6	19.6	19.6	20.2	20.7	21.2	22.1	25.3
75°	19.6	19.6	19.0	18.4	19.0	19.6	19.6	19.7	19.9	20.8	24.5
72.5°	16.6	16.2	16.1	16.1	16.1	16.2	16.6	17.1	17.5	18.5	21.4
70°	15.5	16.0	15.6	15.0	15.6	16.0	15.5	15.1	14.8	15.3	17.3
67.5°	12.9	12.8	12.7	12.7	12.7	12.8	12.9	13.0	13.0	13.3	14.2
65°	10.9	10.5	10.4	10.4	10.4	10.5	10.9	11.3	11.7	12.1	12.6
62.5°	9.7	9.3	9.2	9.2	9.2	9.3	9.7	10.2	10.6	11.2	11.8
60°	11.1	10.5	9.9	9.2	9.9	10.5	11.1	11.5	11.9	12.0	12.2
57.5°	11.9	11.6	11.5	11.5	11.5	11.6	11.9	12.2	12.7	13.1	13.5
55°	13.0	12.7	12.7	12.7	12.7	12.7	13.0	13.2	13.4	13.9	14.4
52.5°	15.6	15.1	14.5	13.8	14.5	15.1	15.6	15.9	16.1	16.6	16.5
50°	24.6	23.4	22.8	23.0	22.8	23.4	24.6	25.2	25.3	25.1	23.6
47.5°	45.5	45.5	45.3	44.9	45.3	45.5	45.5	44.6	44.8	44.3	40.9
45°	77.4	74.3	71.4	70.3	71.4	74.3	77.4	77.8	79.2	78.3	73.6
42.5°	136.1	135.4	133.0	130.2	133.0	135.4	136.1	133.4	137.4	133.7	125.6
40°	236.5	233.3	227.8	229.3	227.8	233.3	236.5	233.8	243.9	231.0	232.1
37.5°	492.5	468.9	433.0	433.3	433.0	468.9	492.5	508.1	516.3	421.6	501.5
35°	1152.8	1172.2	1149.3	1149.0	1149.3	1172.2	1152.8	1159.9	1161.9	1084.3	1143.2
32.5°	2206.2	2174.1	2044.2	1976.4	2044.2	2174.1	2206.2	2275.6	2222.0	2169.6	2182.4
30°	4156.2	4176.8	3982.0	3986.3	3982.0	4176.8	4156.2	4160.8	3900.3	3926.1	3770.5
27.5°	7111.7	7270.0	7228.3	7159.0	7228.3	7270.0	7111.7	6966.5	6606.4	6456.4	6074.2
25°	10634.6	10753.8	10673.9	10625.5	10673.9	10753.8	10634.6	10349.0	9913.5	9484.9	8938.1
22.5°	14702.5	14868.5	14826.8	14616.4	14826.8	14868.5	14702.5	14224.4	13732.2	12926.8	12197.7
20°	19205.9	19490.1	19655.2	19548.8	19655.2	19490.1	19205.9	18559.2	17774.1	16734.7	15617.8
17.5°	23605.5	23972.0	24253.0	24347.6	24253.0	23972.0	23605.5	22766.1	21584.1	20258.8	18838.0
15°	27305.1	27829.2	28198.4	28329.3	28198.4	27829.2	27305.1	26319.6	24859.8	23301.1	21546.0
12.5°	29960.0	30642.2	31075.1	31205.2	31075.1	30642.2	29960.0	28805.8	27436.2	25605.0	23742.9
10°	31420.0	32279.9	32772.7	32978.2	32772.7	32279.9	31420.0	30393.4	28921.9	27154.3	25066.4
7.5°	32235.7	33012.4	33478.0	33547.0	33478.0	33012.4	32235.7	31032.5	29681.1	27860.7	25759.1
5°	32500.4	33206.0	33590.4	33625.9	33590.4	33206.0	32500.4	31338.8	29932.9	28137.4	25936.8
2.5°	32616.3	33212.7	33496.2	33423.7	33496.2	33212.7	32616.3	31498.4	30129.9	28397.9	26269.8
0°	32557.0	33090.0	33390.8	33435.7	33390.8	33090.0	32557.0	31632.2	30246.9	28559.8	26392.0
-2.5°	32073.6	32470.4	32683.7	32546.7	32683.7	32470.4	32073.6	31232.9	29889.9	28181.0	26127.7
-5°	30971.3	31256.8	31345.9	31395.9	31345.9	31256.8	30971.3	30285.2	29049.9	27341.3	25411.2
-7.5°	29378.0	29611.1	29699.0	29637.3	29699.0	29611.1	29378.0	28673.0	27496.3	25987.8	24066.7
-10°	27278.1	27491.6	27566.2	27523.7	27566.2	27491.6	27278.1	26652.6	25520.0	24103.6	22410.9
-12.5°	25152.4	25405.5	25463.5	25467.2	25463.5	25405.5	25152.4	24537.5	23511.4	22237.2	20676.0
-15°	23062.8	23352.1	23440.5	23517.8	23440.5	23352.1	23062.8	22471.5	21566.8	20380.0	18974.0
-17.5°	21009.4	21296.9	21371.5	21270.6	21371.5	21296.9	21009.4	20442.2	19643.0	18577.3	17294.2
-20°	19321.6	19470.6	19629.6	19628.4	19629.6	19470.6	19321.6	18874.1	18079.5	17109.0	15968.8



REPORT NUMBER: P731326 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	17927.7	18174.0	18309.4	18405.6	18309.4	18174.0	17927.7	17554.3	16798.4	15876.6	14844.6
-25°	16620.3	16829.5	16913.6	16977.7	16913.6	16829.5	16620.3	16224.8	15578.1	14743.3	13764.4
-27.5°	15613.1	15825.4	15945.5	16016.6	15945.5	15825.4	15613.1	15215.2	14651.0	13848.2	12967.3
-30°	14809.9	15018.5	15161.6	15251.4	15161.6	15018.5	14809.9	14368.0	13825.7	13097.8	12289.6
-32.5°	13944.5	14162.6	14311.7	14404.3	14311.7	14162.6	13944.5	13523.6	12992.6	12355.7	11606.9
-35°	13045.0	13263.3	13424.2	13499.7	13424.2	13263.3	13045.0	12683.1	12164.7	11583.2	10913.3
-37.5°	12171.3	12375.0	12517.2	12573.1	12517.2	12375.0	12171.3	11858.3	11364.1	10837.7	10222.4
-40°	11260.5	11452.7	11584.8	11636.2	11584.8	11452.7	11260.5	11006.3	10545.7	10047.9	9507.7
-42.5°	10342.1	10521.4	10643.4	10694.6	10643.4	10521.4	10342.1	10121.5	9713.2	9259.2	8777.8
-45°	9411.7	9571.2	9674.5	9713.9	9674.5	9571.2	9411.7	9214.0	8869.1	8446.1	7995.4
-47.5°	8496.0	8639.8	8728.6	8757.4	8728.6	8639.8	8496.0	8319.4	8034.5	7656.5	7258.4
-50°	7602.2	7720.0	7801.2	7847.0	7801.2	7720.0	7602.2	7453.9	7231.2	6909.7	6576.2
-52.5°	6775.3	6882.4	6946.1	6971.1	6946.1	6882.4	6775.3	6642.9	6466.3	6190.8	5898.6
-55°	6000.4	6093.0	6147.2	6169.0	6147.2	6093.0	6000.4	5887.6	5751.4	5514.5	5262.3
-57.5°	5284.8	5360.7	5411.8	5440.7	5411.8	5360.7	5284.8	5191.5	5081.8	4878.1	4651.1
-60°	4606.3	4668.5	4711.4	4736.5	4711.4	4668.5	4606.3	4527.8	4433.4	4264.3	4069.9
-62.5°	3951.4	4004.2	4038.9	4058.9	4038.9	4004.2	3951.4	3884.9	3804.8	3674.3	3514.1
-65°	3359.2	3405.5	3427.9	3436.6	3427.9	3405.5	3359.2	3302.3	3234.8	3132.5	3001.0
-67.5°	2835.4	2877.1	2892.2	2894.9	2892.2	2877.1	2835.4	2785.0	2726.4	2643.7	2534.6
-70°	2335.2	2369.2	2380.7	2382.1	2380.7	2369.2	2335.2	2294.4	2247.2	2184.2	2097.6
-72.5°	1857.4	1878.8	1895.3	1906.1	1895.3	1878.8	1857.4	1830.1	1797.0	1751.8	1685.0
-75°	1433.2	1451.6	1459.5	1462.4	1459.5	1451.6	1433.2	1410.4	1383.2	1349.0	1300.4
-77.5°	1043.8	1057.8	1060.9	1060.2	1060.9	1057.8	1043.8	1026.7	1006.7	983.0	950.5
-80°	699.2	705.7	709.9	712.2	709.9	705.7	699.2	690.5	679.4	665.6	645.3
-82.5°	428.4	436.3	428.1	418.3	428.1	436.3	428.4	419.3	409.2	398.4	389.2
-85°	200.4	200.7	201.5	201.7	201.5	200.7	200.4	199.5	198.1	196.1	192.6
-87.5°	75.0	75.9	75.4	74.9	75.4	75.9	75.0	74.0	72.9	71.8	70.5
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	13.3	13.0	12.7	12.4	12.1	11.8	11.5	10.9	10.4	9.8	9.2
87.5°	7.2	5.8	4.4	4.9	5.4	5.8	6.3	6.0	5.7	5.4	5.1
85°	16.1	14.6	13.1	13.0	12.9	12.9	12.8	12.5	12.1	11.6	11.0
82.5°	19.2	19.7	20.1	21.7	22.9	23.7	24.1	24.0	23.5	22.6	21.3
80°	24.2	25.8	27.5	30.9	33.8	36.3	38.2	39.1	39.5	39.4	38.1
77.5°	28.3	31.1	34.2	39.1	43.6	47.9	51.5	53.5	54.5	55.0	53.4
75°	28.2	32.0	36.8	43.6	50.1	56.2	60.7	63.9	66.5	68.4	66.6
72.5°	24.5	28.1	33.8	42.5	51.6	59.3	65.6	70.8	75.4	79.4	76.7
70°	19.5	22.0	27.1	34.9	43.2	52.1	61.6	71.1	80.5	86.6	82.2
67.5°	15.3	16.8	21.0	27.2	34.4	42.5	52.1	63.0	73.6	83.5	81.5
65°	13.1	13.5	16.1	20.5	26.0	32.6	40.7	50.3	61.5	72.8	73.2
62.5°	12.3	12.7	14.2	16.6	19.7	23.9	30.0	38.4	48.1	55.9	58.6
60°	12.5	12.9	13.9	15.1	16.4	18.6	23.4	29.1	35.7	42.2	45.5
57.5°	13.7	14.0	14.5	15.1	15.9	17.8	20.3	23.0	28.5	32.2	35.1
55°	14.8	15.2	15.5	15.8	16.2	17.9	19.8	22.1	24.6	25.7	29.3
52.5°	16.0	17.0	17.4	17.2	17.8	19.0	19.9	21.8	23.8	25.2	26.1
50°	22.6	23.8	23.0	21.0	22.9	22.7	22.5	22.9	25.2	26.5	26.5
47.5°	40.6	40.9	37.1	34.5	36.7	33.9	31.8	30.0	33.6	30.2	29.8
45°	76.5	74.7	65.8	66.7	64.2	59.9	50.7	55.6	51.4	46.1	35.3
42.5°	133.9	131.2	122.0	127.2	118.2	106.7	101.6	106.8	89.4	72.7	76.6
40°	243.2	212.1	230.0	238.2	214.8	180.9	227.6	195.5	166.6	119.8	157.7
37.5°	507.6	413.8	497.9	500.3	433.5	398.8	449.3	405.0	282.8	299.1	304.3
35°	1089.4	1037.3	1018.5	982.3	857.4	899.1	805.8	712.8	612.1	578.9	523.9
32.5°	1972.8	2028.1	1897.5	1737.1	1721.9	1636.3	1442.7	1162.2	1163.2	1048.7	856.9
30°	3507.5	3433.2	3199.1	2933.2	2927.7	2709.2	2277.6	2090.0	1916.8	1656.7	1291.2
27.5°	5814.9	5301.1	4931.9	4724.7	4417.7	4057.9	3633.9	3195.3	2825.2	2428.9	1937.0
25°	8534.8	7895.3	7234.1	6795.4	6261.2	5693.3	5166.4	4551.3	3932.1	3310.7	2687.4
22.5°	11452.7	10676.0	9869.2	9053.3	8254.2	7525.5	6826.7	6010.8	5066.8	4194.3	3473.4
20°	14449.7	13388.7	12415.9	11284.0	10200.9	9313.9	8524.0	7400.5	6140.0	5079.6	4238.9
17.5°	17297.5	15944.9	14574.5	13168.8	11997.1	11036.2	9813.8	8500.2	7142.4	5912.3	4970.1
15°	19860.3	17999.8	16368.0	14887.2	13473.0	12080.2	10798.8	9499.7	8079.4	6749.1	5638.0
12.5°	21634.9	19684.9	17933.0	16065.2	14415.8	12958.3	11657.3	10354.8	8863.8	7303.3	6010.7
10°	22935.5	20822.2	18776.8	16872.1	15213.8	13736.1	12291.0	10810.5	9198.9	7635.5	6320.4
7.5°	23534.3	21423.2	19411.3	17453.1	15721.3	14175.3	12640.6	11099.4	9438.5	7865.6	6569.1
5°	23813.4	21791.1	19792.6	17752.2	16013.5	14485.4	12925.2	11318.9	9584.5	8004.1	6759.8
2.5°	24068.6	21989.4	19982.0	17879.3	16186.4	14695.8	13173.5	11540.4	9766.0	8148.4	6881.8
0°	24238.1	22192.5	20160.8	17961.9	16284.0	14826.1	13389.0	11737.6	9923.7	8249.2	6955.0
-2.5°	23946.6	21889.4	19890.8	17793.8	16078.7	14642.2	13233.1	11655.9	9893.1	8249.1	6958.0
-5°	23310.3	21280.5	19322.9	17321.2	15610.2	14183.8	12826.4	11353.0	9713.7	8159.2	6916.2
-7.5°	22119.2	20305.1	18528.4	16665.7	14981.6	13560.7	12231.9	10830.6	9319.1	7862.5	6669.8
-10°	20600.4	18933.6	17274.1	15624.8	14143.5	12835.7	11571.1	10260.1	8861.6	7507.1	6383.6
-12.5°	19090.2	17500.7	15920.2	14406.0	13114.1	11909.9	10786.5	9633.1	8350.0	7094.8	6061.9
-15°	17459.6	16025.8	14631.0	13281.9	12032.3	10932.5	9939.1	8909.4	7771.0	6648.3	5707.9
-17.5°	16041.8	14615.9	13336.9	12246.7	11110.5	9992.7	9103.1	8201.1	7230.3	6260.7	5404.5
-20°	14788.1	13579.1	12335.7	11294.2	10323.4	9351.5	8394.5	7537.5	6728.7	5908.9	5142.4



REPORT NUMBER: P731326 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV1

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	13771.2	12677.0	11579.7	10520.9	9602.7	8773.3	7932.5	7080.6	6260.3	5548.4	4888.9
-25°	12867.2	11834.1	10871.5	9977.5	9045.2	8223.9	7512.4	6757.6	5975.3	5229.7	4654.7
-27.5°	12111.0	11170.0	10302.4	9493.8	8655.3	7849.3	7145.1	6446.9	5720.8	5051.0	4460.7
-30°	11461.9	10644.0	9841.4	9079.9	8312.8	7554.8	6825.3	6162.8	5489.3	4857.8	4299.2
-32.5°	10846.0	10087.3	9356.2	8661.9	7948.0	7237.2	6552.9	5875.6	5227.6	4661.7	4143.6
-35°	10200.9	9496.8	8842.9	8199.8	7558.7	6898.2	6243.1	5579.5	4975.3	4444.4	3963.5
-37.5°	9568.0	8915.8	8311.1	7714.9	7131.3	6528.5	5897.3	5292.5	4721.1	4215.2	3759.9
-40°	8921.8	8331.9	7765.6	7219.0	6674.3	6128.3	5553.2	4991.5	4467.9	3963.5	3536.0
-42.5°	8245.0	7718.0	7207.3	6703.1	6196.0	5699.1	5195.6	4688.5	4196.8	3727.5	3298.6
-45°	7545.6	7089.3	6630.8	6170.5	5706.0	5267.0	4834.9	4370.6	3914.0	3477.4	3053.7
-47.5°	6869.1	6470.2	6051.7	5639.2	5239.8	4841.2	4451.3	4039.1	3620.3	3211.4	2835.0
-50°	6233.5	5870.1	5502.0	5137.3	4785.4	4425.2	4064.2	3701.6	3316.2	2950.9	2607.3
-52.5°	5594.5	5286.6	4972.9	4656.5	4338.3	4008.2	3674.3	3351.3	3011.2	2691.1	2387.1
-55°	4996.3	4724.8	4449.2	4170.0	3892.1	3601.8	3304.0	3010.4	2724.4	2434.2	2172.8
-57.5°	4409.4	4169.4	3942.3	3708.6	3469.3	3215.1	2955.8	2693.6	2441.2	2193.1	1957.0
-60°	3870.3	3668.1	3468.7	3268.2	3068.2	2850.1	2616.5	2386.4	2160.8	1954.6	1754.1
-62.5°	3345.8	3170.4	3005.7	2840.1	2668.0	2482.4	2282.8	2095.7	1907.5	1722.3	1559.8
-65°	2862.0	2716.3	2571.5	2435.5	2298.5	2159.5	1990.4	1824.9	1666.4	1513.8	1371.7
-67.5°	2420.9	2303.6	2188.5	2074.6	1960.9	1845.2	1706.1	1565.6	1435.4	1311.8	1191.1
-70°	2006.8	1912.6	1818.5	1724.1	1631.6	1541.0	1435.8	1325.0	1216.9	1111.7	1006.5
-72.5°	1614.9	1541.9	1469.0	1398.0	1326.2	1255.6	1174.4	1083.6	993.8	905.3	819.8
-75°	1249.1	1195.3	1141.1	1088.2	1033.4	976.8	917.9	850.3	782.2	714.0	646.3
-77.5°	915.7	878.9	841.2	806.0	769.8	732.9	691.1	637.2	586.2	535.9	486.9
-80°	623.7	600.9	577.5	556.8	534.7	511.1	484.1	445.8	407.7	372.4	340.5
-82.5°	378.9	367.6	355.4	343.5	330.5	316.3	300.4	278.1	256.1	234.6	213.6
-85°	188.6	184.1	179.1	174.0	168.4	162.4	155.9	146.4	136.5	126.4	116.0
-87.5°	69.1	67.6	66.0	64.8	63.5	62.1	60.6	57.1	53.6	50.1	46.7
-90°	2.3	2.3	2.3	2.6	2.9	3.2	3.5	3.5	3.5	3.5	3.5





REPORT NUMBER: P731326 (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°	8.9	8.7	8.4	8.1	8.1	8.1	8.1	8.1	7.8	7.5	7.2
87.5°	6.0	6.8	7.5	8.1	7.6	7.2	6.8	6.4	6.6	6.8	6.9
85°	11.3	11.6	12.1	12.7	11.9	10.9	10.1	9.4	9.5	9.6	9.5
82.5°	19.3	18.3	17.7	17.4	17.3	16.7	15.8	14.4	13.0	12.4	12.1
80°	34.2	30.6	27.4	24.6	23.1	22.6	22.0	20.5	17.3	15.2	14.1
77.5°	47.9	42.9	38.4	33.9	29.9	27.2	25.8	25.1	21.5	17.9	15.5
75°	60.5	54.0	47.8	41.9	36.0	31.3	28.0	25.9	23.1	20.2	16.9
72.5°	68.9	61.9	55.6	49.0	41.5	35.2	30.2	26.6	23.7	20.8	17.9
70°	74.8	68.0	60.8	53.3	45.8	38.6	32.3	27.9	24.3	21.3	18.3
67.5°	78.4	70.6	63.6	56.8	49.1	41.5	34.1	29.5	25.6	21.8	18.7
65°	70.5	68.0	65.1	57.9	51.0	44.0	36.3	31.1	26.9	22.9	19.1
62.5°	60.3	60.3	58.6	56.8	51.5	44.8	38.4	33.1	28.2	24.0	19.9
60°	47.7	49.8	51.5	51.1	49.3	44.7	39.2	35.0	29.8	25.0	20.8
57.5°	38.5	40.0	43.3	45.3	44.7	42.6	39.6	35.9	31.2	26.1	21.7
55°	31.5	34.2	36.9	39.2	40.3	39.1	39.4	36.5	32.3	27.1	22.7
52.5°	27.9	30.6	33.3	34.9	36.1	36.7	38.4	37.1	32.9	28.0	23.8
50°	26.8	29.6	31.7	32.9	33.0	35.8	38.1	37.2	33.5	28.7	25.1
47.5°	30.9	33.3	32.5	32.4	32.4	35.9	38.5	37.9	34.1	29.3	26.5
45°	46.0	42.1	37.8	34.6	34.7	38.4	39.8	39.0	35.3	31.0	28.0
42.5°	72.8	65.4	50.0	37.8	44.4	42.6	41.9	41.0	36.9	32.9	29.6
40°	147.4	103.2	71.2	66.0	61.0	48.1	46.5	43.6	39.0	35.3	31.5
37.5°	251.3	182.0	115.5	117.9	90.9	68.5	52.2	46.8	42.8	38.5	33.5
35°	431.4	303.8	240.7	214.2	153.9	93.6	58.8	51.3	47.4	41.7	35.6
32.5°	654.2	533.7	471.1	360.8	232.7	123.3	76.9	59.8	52.6	45.2	37.9
30°	1030.7	931.0	755.2	540.8	344.0	196.4	108.7	69.6	58.3	48.8	40.4
27.5°	1598.6	1399.6	1101.1	800.8	515.7	285.3	155.6	80.6	64.4	52.9	43.3
25°	2216.9	1930.7	1551.5	1109.9	709.0	426.5	213.0	93.8	72.6	57.8	46.2
22.5°	2900.0	2479.6	2048.6	1447.8	923.5	590.5	304.4	137.6	82.2	62.9	49.2
20°	3554.5	3038.3	2545.7	1713.0	1152.6	781.4	431.7	186.7	92.2	68.2	52.1
17.5°	4190.1	3497.1	2814.4	2002.0	1377.2	961.5	569.3	239.9	102.5	73.5	54.9
15°	4623.6	3803.5	3066.0	2260.0	1577.9	1131.0	714.1	295.9	113.0	78.8	59.3
12.5°	4955.7	4081.2	3306.1	2487.3	1755.7	1289.6	862.5	353.1	123.4	87.1	65.6
10°	5240.9	4329.4	3531.4	2684.2	1912.0	1437.4	1010.8	407.2	139.6	97.7	71.9
7.5°	5480.3	4547.7	3738.0	2851.4	2039.8	1535.0	1101.8	451.1	156.3	108.3	78.1
5°	5667.2	4709.5	3901.3	2965.3	2106.2	1578.8	1170.6	489.4	172.6	118.7	84.2
2.5°	5778.4	4797.4	4024.8	3050.0	2159.2	1611.2	1224.2	521.7	188.2	128.8	90.1
0°	5850.9	4854.1	4117.7	3108.1	2197.7	1633.0	1261.9	547.4	202.8	138.3	95.7
-2.5°	5878.5	4862.5	4131.1	3182.2	2276.0	1700.5	1298.6	618.9	271.3	185.2	125.8
-5°	5863.3	4845.1	4117.3	3228.9	2337.8	1756.7	1321.7	683.3	337.6	230.8	155.1
-7.5°	5680.0	4742.9	4046.2	3236.0	2382.4	1799.7	1333.6	740.7	400.7	274.3	183.2
-10°	5435.3	4578.6	3898.5	3138.5	2377.6	1825.6	1340.0	791.1	459.7	315.0	209.7
-12.5°	5163.9	4392.8	3738.1	3032.2	2356.1	1839.7	1357.6	838.2	513.8	352.4	234.1
-15°	4870.2	4187.0	3569.5	2922.4	2326.2	1846.8	1367.1	878.5	562.5	387.8	256.1
-17.5°	4581.2	3962.8	3396.8	2814.4	2289.7	1848.1	1369.8	909.6	605.7	422.0	279.6
-20°	4424.1	3799.8	3227.0	2712.6	2248.4	1844.6	1366.8	931.3	642.7	452.1	303.6



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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°	4267.3	3693.1	3145.5	2640.4	2213.6	1837.4	1359.2	943.3	673.0	477.8	324.5
-25°	4102.5	3580.8	3066.6	2589.4	2190.3	1811.0	1355.5	945.4	696.3	498.9	342.0
-27.5°	3956.7	3467.4	2975.3	2518.5	2144.5	1783.1	1349.5	967.8	714.6	515.2	356.0
-30°	3820.1	3352.8	2878.7	2435.5	2082.3	1715.8	1331.7	981.9	731.0	529.0	366.3
-32.5°	3679.0	3227.2	2762.4	2354.4	1999.6	1639.3	1281.6	986.2	740.7	539.4	375.0
-35°	3514.4	3074.9	2626.6	2253.9	1906.9	1560.3	1225.5	980.5	743.6	544.6	380.6
-37.5°	3327.6	2896.6	2498.3	2140.6	1807.6	1475.6	1184.7	951.5	739.7	544.4	382.1
-40°	3121.1	2718.4	2351.2	2025.6	1706.9	1385.2	1136.1	920.9	732.8	538.8	379.4
-42.5°	2903.8	2544.5	2210.7	1903.6	1602.4	1322.3	1081.8	884.6	707.9	530.3	372.7
-45°	2700.8	2367.5	2065.1	1779.8	1498.0	1251.7	1034.8	843.5	676.4	517.6	363.4
-47.5°	2491.3	2196.5	1917.7	1649.0	1409.4	1177.8	981.4	802.8	640.7	499.1	352.7
-50°	2293.7	2024.6	1769.4	1531.2	1308.5	1110.9	923.7	756.8	604.9	468.2	338.5
-52.5°	2107.8	1858.5	1629.1	1412.8	1218.9	1037.1	865.7	706.4	565.0	438.1	320.8
-55°	1923.1	1700.2	1492.1	1303.4	1127.6	962.2	802.1	655.7	521.2	406.6	300.3
-57.5°	1745.4	1543.4	1366.5	1196.9	1034.1	881.5	736.7	600.6	478.7	372.1	280.4
-60°	1566.7	1403.1	1243.7	1086.1	936.4	798.1	668.5	543.5	434.0	336.0	255.4
-62.5°	1404.8	1258.1	1113.9	969.6	836.9	713.3	596.9	486.9	386.1	302.3	227.7
-65°	1238.9	1107.4	977.8	854.3	736.3	626.2	525.9	426.6	341.7	266.5	200.4
-67.5°	1071.0	956.2	846.2	736.6	636.4	541.7	451.1	370.4	296.6	228.9	176.8
-70°	903.4	804.2	714.1	625.6	538.1	455.6	383.7	314.8	249.4	198.2	152.1
-72.5°	739.4	662.0	587.8	513.4	443.5	377.6	315.8	259.4	210.9	166.5	126.3
-75°	581.0	522.9	467.0	410.2	351.9	297.9	254.1	212.5	171.3	133.7	103.9
-77.5°	440.0	394.1	349.2	309.7	269.6	232.0	197.1	164.1	132.6	105.9	82.2
-80°	310.0	280.1	251.1	222.4	192.5	164.7	142.6	121.2	98.5	78.1	60.0
-82.5°	192.8	175.8	160.0	144.0	126.7	110.2	94.5	79.5	63.7	49.6	41.3
-85°	105.8	95.6	85.4	75.2	64.9	55.2	50.5	45.9	40.3	35.0	30.0
-87.5°	44.1	41.6	39.0	36.5	34.1	31.7	29.4	27.1	24.1	21.3	18.6
-90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.8	4.1	4.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.9	6.6	6.4	6.1	5.8	5.2	4.6
87.5°	7.0	6.6	6.4	6.3	6.2	5.4	4.6
85°	9.4	8.4	7.6	7.0	6.6	5.6	4.6
82.5°	11.7	10.1	8.8	7.7	7.0	5.7	4.6
80°	13.8	11.8	9.9	8.5	7.4	5.9	4.6
77.5°	14.3	13.0	11.1	9.2	7.7	6.1	4.6
75°	14.8	13.2	12.0	9.9	8.1	6.2	4.6
72.5°	15.2	13.4	12.0	10.6	8.5	6.4	4.6
70°	15.6	13.5	12.0	11.1	8.8	6.5	4.6
67.5°	16.0	13.6	12.0	11.0	9.2	6.7	4.6
65°	16.5	13.9	11.9	10.9	9.5	6.8	4.6
62.5°	17.0	14.4	11.9	10.7	9.8	7.0	4.6
60°	17.4	14.8	11.7	10.6	10.1	7.1	4.6
57.5°	18.3	15.3	12.1	10.4	10.0	7.2	4.6
55°	19.2	15.7	12.5	10.2	9.9	7.4	4.6
52.5°	20.1	16.2	12.9	10.0	9.8	7.5	4.6
50°	21.0	17.0	13.3	9.8	9.8	7.6	4.6
47.5°	21.9	17.7	13.7	9.7	9.7	7.7	4.6
45°	23.2	18.4	14.0	10.0	9.7	7.8	4.6
42.5°	24.6	19.0	14.4	10.2	9.6	7.9	4.6
40°	26.0	19.7	14.8	10.6	9.6	7.9	4.6
37.5°	27.4	20.3	15.3	11.2	9.6	8.0	4.6
35°	28.9	21.2	15.7	11.7	9.6	8.1	4.6
32.5°	30.5	22.3	16.1	12.3	9.6	8.1	4.6
30°	32.3	23.5	16.5	12.9	9.7	8.2	4.6
27.5°	34.1	24.6	17.7	13.5	9.7	8.2	4.6
25°	35.9	25.6	19.0	14.1	9.7	8.2	4.6
22.5°	37.8	27.2	20.4	14.8	9.8	8.3	4.6
20°	39.6	30.2	21.9	15.4	9.9	8.3	4.6
17.5°	43.0	33.1	23.4	16.0	9.9	8.3	4.6
15°	47.3	36.1	24.9	16.6	10.0	8.3	4.6
12.5°	51.6	39.1	26.4	17.2	10.1	8.3	4.6
10°	55.8	42.1	27.9	17.7	10.1	8.2	4.6
7.5°	60.0	45.0	29.4	18.2	10.2	8.2	4.6
5°	64.0	47.8	30.8	18.7	10.3	8.2	4.6
2.5°	67.8	50.5	32.1	19.2	10.3	8.1	4.6
0°	71.5	53.0	33.4	19.6	10.4	8.1	4.6
-2.5°	89.4	63.4	38.8	22.0	11.2	8.2	4.6
-5°	106.9	73.4	44.1	24.3	12.0	8.4	4.6
-7.5°	123.7	83.0	49.1	26.5	12.7	8.5	4.6
-10°	139.6	92.1	53.9	28.6	13.5	8.6	4.6
-12.5°	154.4	100.4	58.2	30.6	14.2	8.7	4.6
-15°	167.9	108.0	62.2	32.3	14.8	8.8	4.6
-17.5°	179.9	114.7	65.8	33.9	15.4	8.9	4.6
-20°	193.0	120.4	68.8	35.2	16.0	9.0	4.6



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	208.7	125.0	71.2	36.3	16.4	9.1	4.6
-25°	222.1	132.1	73.1	37.2	16.8	9.1	4.6
-27.5°	232.9	139.2	74.3	37.8	17.2	9.1	4.6
-30°	241.2	144.8	75.2	38.1	17.5	9.2	4.6
-32.5°	246.7	148.6	78.0	38.1	17.6	9.2	4.6
-35°	250.6	150.8	79.9	37.8	17.7	9.2	4.6
-37.5°	252.5	151.8	80.7	37.1	17.8	9.1	4.6
-40°	251.7	152.4	80.5	36.2	17.7	9.1	4.6
-42.5°	248.4	151.3	80.1	35.4	17.5	9.0	4.6
-45°	242.3	148.5	79.6	34.9	17.3	8.9	4.6
-47.5°	233.7	144.1	78.2	34.0	17.0	8.8	4.6
-50°	225.2	138.0	76.0	33.8	16.6	8.7	4.6
-52.5°	214.7	130.3	73.0	33.4	16.1	8.6	4.6
-55°	202.0	123.9	69.1	32.7	15.5	8.4	4.6
-57.5°	187.1	116.7	64.4	31.6	14.8	8.3	4.6
-60°	170.6	108.3	59.1	30.1	14.1	8.1	4.6
-62.5°	157.0	98.8	55.4	28.4	13.6	7.9	4.6
-65°	141.8	88.2	51.1	26.3	13.0	7.7	4.6
-67.5°	125.2	78.4	46.3	23.9	12.4	7.5	4.6
-70°	107.2	69.5	41.0	21.3	11.8	7.3	4.6
-72.5°	92.2	59.9	35.2	19.5	11.1	7.0	4.6
-75°	76.9	49.7	29.1	17.8	10.4	6.8	4.6
-77.5°	60.8	38.9	25.1	16.0	9.7	6.5	4.6
-80°	44.1	31.2	21.6	14.1	8.9	6.3	4.6
-82.5°	34.3	25.3	17.9	12.2	8.2	6.0	4.6
-85°	25.3	19.1	14.1	10.2	7.4	5.8	4.6
-87.5°	16.1	12.9	10.2	8.1	6.6	5.5	4.6
-90°	4.6	4.9	5.2	5.5	5.8	5.2	4.6

(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

