

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: P731277 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-2S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731277 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-80-2S-HEG  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

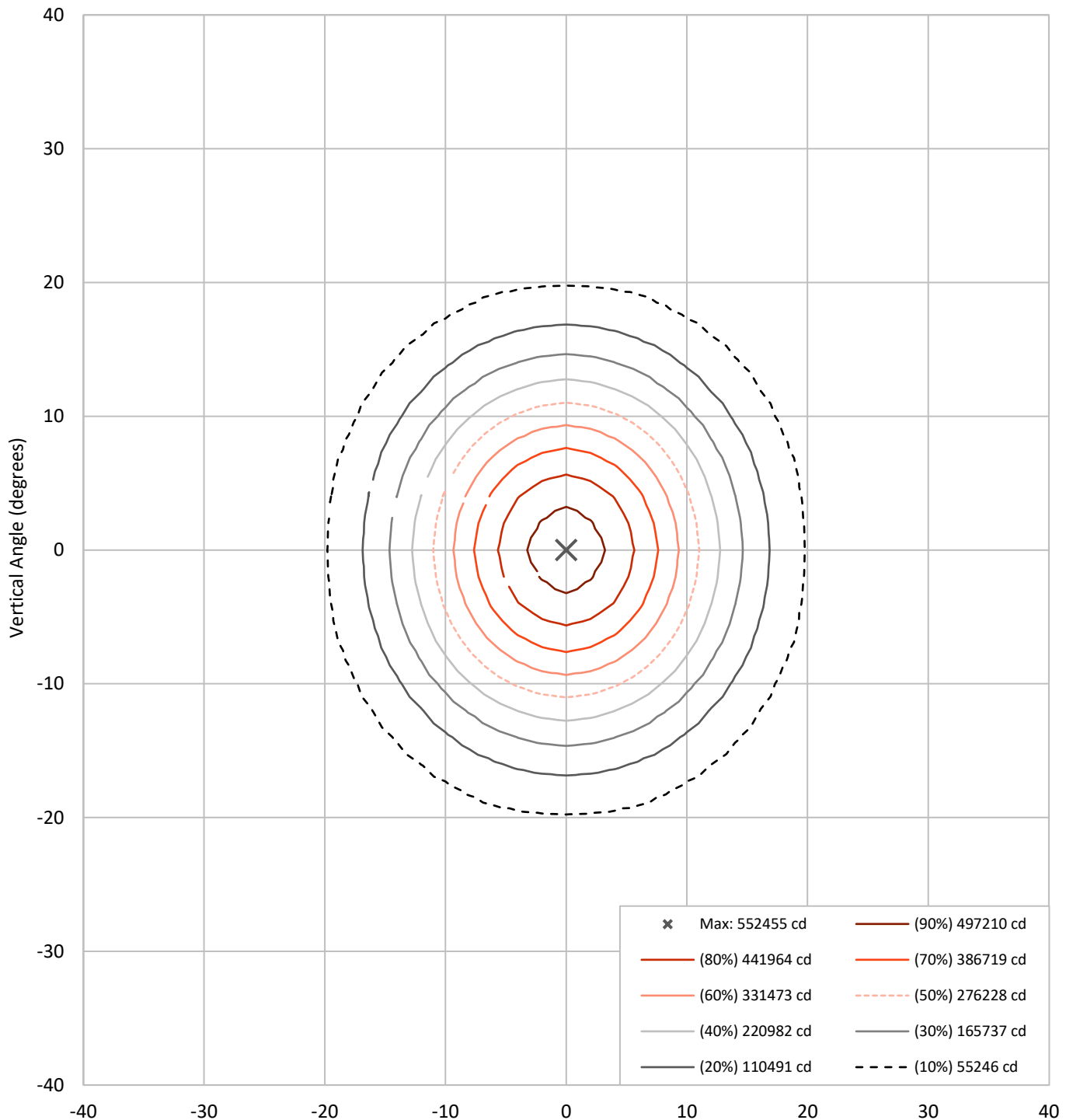
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	99514.6 lumens	Max Intensity:	552455 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	141.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	39.6°H x 39.6°V
Beam Lumens:	43982.1 lumens	Field Lumens:	81685.3 lumens
Beam Efficiency:	44.2%	Field Efficiency:	82.1%

Input Watts (W): 703.3  
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





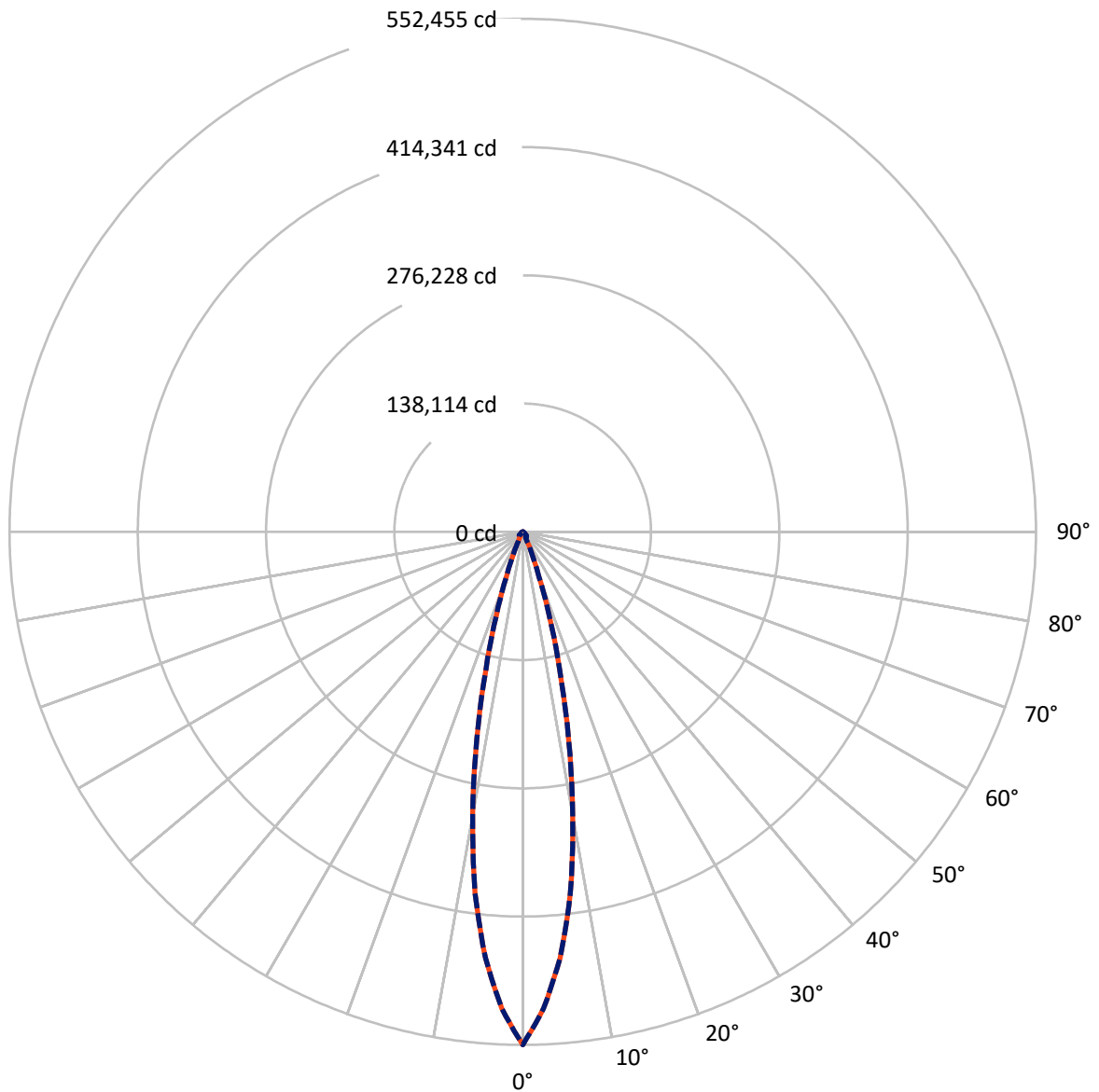
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### Lumen Table

90	0.2	1.0	3.5	8.8	11.6	8.8	3.5	1.0	0.2							
80	0.2	1.0	3.5	8.8	11.6	8.8	3.5	1.0	0.2							
70	0.5	0.5	2.1	6.3	12.5	19.2	24.7	27.8	27.8	24.7	19.2	12.5	6.3	2.1	0.5	0.5
60		1.6	7.3	17.7	30.6	42.6	50.7	54.9	54.9	50.7	42.6	30.6	17.7	7.3	1.6	
50	1.1	3.9	14.5	30.7	46.8	75.9	116.1	139.1	139.1	116.1	75.9	46.8	30.7	14.5	3.9	1.1
40		6.6	21.6	40.5	89.4	153.5	179.9	189.2	189.2	179.9	153.5	89.4	40.5	21.6	6.6	
30	2.5	9.2	27.2	59.8	139.0	172.9	236.4	482.4	482.4	236.4	172.9	139.0	59.8	27.2	9.2	2.5
20		11.1	30.3	86.2	152.7	222.5	1407.5	4170.6	4170.6	1407.5	222.5	152.7	86.2	30.3	11.1	
10	3.2	12.1	31.8	99.8	155.6	444.7	4064.7	11431.1	11431.1	4064.7	444.7	155.6	99.8	31.8	12.1	3.2
0		12.1	31.8	99.8	155.6	444.7	4064.7	11431.1	11431.1	4064.7	444.7	155.6	99.8	31.8	12.1	
-10	2.5	11.1	30.3	86.2	152.7	222.5	1407.5	4170.6	4170.6	1407.5	222.5	152.7	86.2	30.3	11.1	2.5
-20		9.2	27.2	59.8	139.0	172.9	236.4	482.4	482.4	236.4	172.9	139.0	59.8	27.2	9.2	
-30	1.1	6.6	21.6	40.5	89.4	153.5	179.9	189.2	189.2	179.9	153.5	89.4	40.5	21.6	6.6	1.1
-40		3.9	14.5	30.7	46.8	75.9	116.1	139.1	139.1	116.1	75.9	46.8	30.7	14.5	3.9	
-50	0.5	1.6	7.3	17.7	30.6	42.6	50.7	54.9	54.9	50.7	42.6	30.6	17.7	7.3	1.6	0.5
-60		0.5	2.1	6.3	12.5	19.2	24.7	27.8	27.8	24.7	19.2	12.5	6.3	2.1	0.5	
-70	0.2	1.0	3.5	8.8	11.6	8.8	3.5	1.0	0.2							
-80		0.2	1.0	3.5	8.8	11.6	8.8	3.5	1.0	0.2						
-90	0.2	1.0	3.5	8.8	11.6	8.8	3.5	1.0	0.2							

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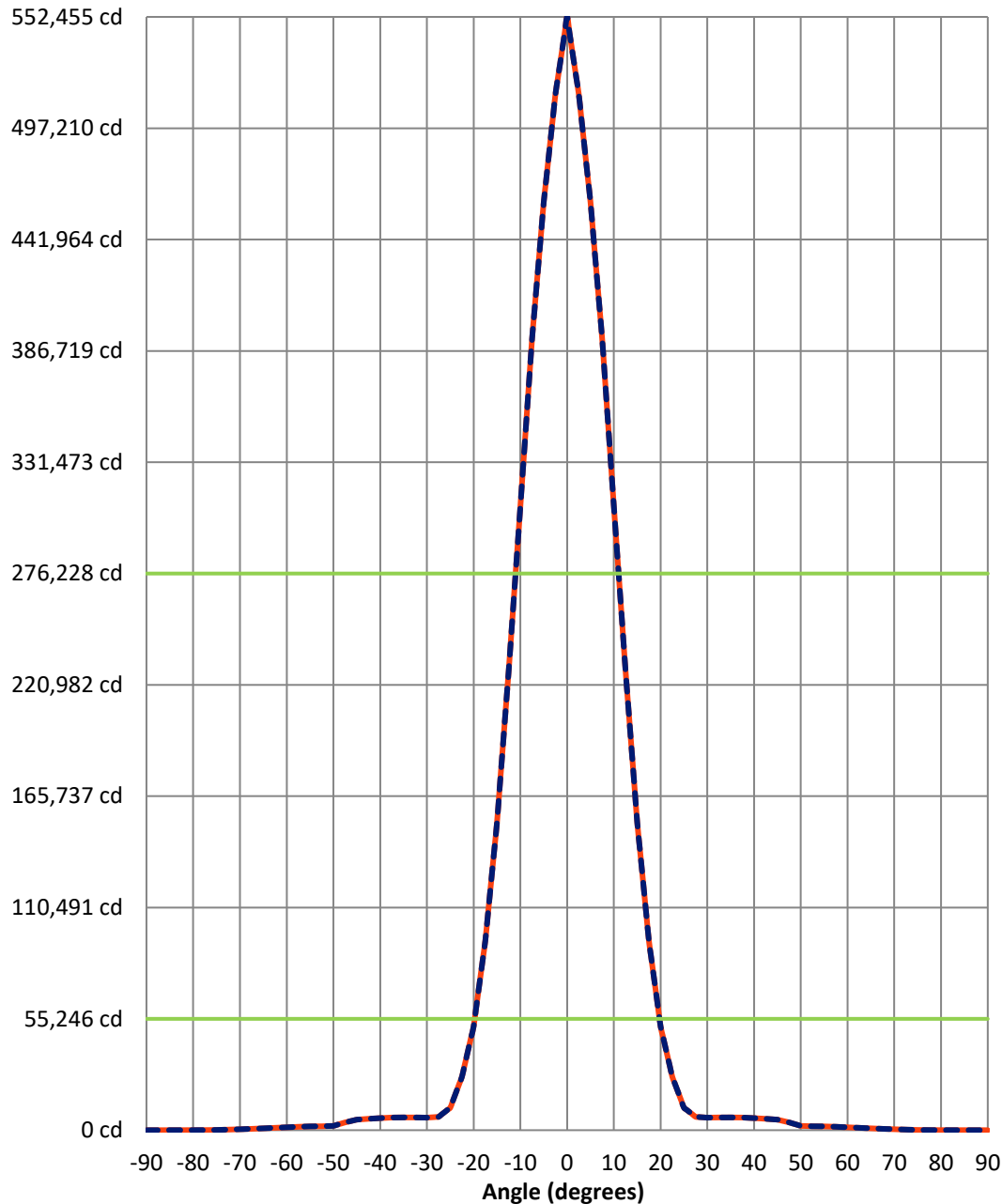
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 22°  
 V Angle: 22°  
 Lumens: 43982.1  
 Efficiency: 44.2%

**Field:**  
 H Angle: 39.6°  
 V Angle: 39.6°  
 Lumens: 81685.3  
 Efficiency: 82.1%

**Spill:**  
 Lumens: 17829.3  
 Efficiency: 17.9%

— 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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.5	3.9	4.4
85°	0.0	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.9	8.7
82.5°	0.0	1.3	2.7	4.0	5.4	6.7	8.0	9.3	10.4	11.1	11.7
80°	0.0	1.8	3.6	5.4	7.1	8.9	10.5	11.3	12.2	13.0	13.9
77.5°	0.0	2.2	4.5	6.7	8.9	10.7	11.8	12.9	13.9	15.0	16.2
75°	0.0	2.7	5.3	8.0	10.5	11.8	13.1	14.4	15.7	17.4	19.0
72.5°	0.0	3.1	6.2	9.3	11.3	12.9	14.4	16.0	18.0	19.9	21.8
70°	0.0	3.5	7.0	10.4	12.2	13.9	15.7	18.0	20.2	22.4	26.2
67.5°	0.0	3.9	7.9	11.1	13.0	15.0	17.4	19.9	22.4	26.8	31.0
65°	0.0	4.4	8.7	11.7	13.9	16.2	19.0	21.8	26.2	31.0	36.8
62.5°	0.0	4.8	9.5	12.3	14.7	17.5	20.6	24.6	30.0	35.9	44.7
60°	0.0	5.1	10.3	12.9	15.5	18.8	22.1	27.9	33.7	42.9	52.5
57.5°	0.0	5.5	10.7	13.5	16.5	20.1	24.7	31.0	39.3	49.8	72.6
55°	0.0	5.9	11.1	14.0	17.4	21.3	27.3	34.1	45.2	60.1	98.1
52.5°	0.0	6.3	11.4	14.6	18.4	22.6	29.9	38.9	51.0	82.4	122.9
50°	0.0	6.6	11.8	15.1	19.3	24.7	32.4	43.8	60.6	104.1	172.1
47.5°	0.0	7.0	12.1	15.7	20.2	26.7	35.0	48.6	79.2	125.0	222.7
45°	0.0	7.3	12.4	16.3	21.1	28.6	38.9	53.2	97.2	168.3	271.5
42.5°	0.0	7.6	12.8	16.9	21.9	30.4	42.6	63.7	114.4	210.4	328.4
40°	0.0	7.9	13.1	17.5	23.0	32.2	46.2	78.1	137.1	250.7	384.4
37.5°	0.0	8.2	13.3	18.1	24.3	33.9	49.6	91.7	171.0	291.7	437.9
35°	0.0	8.4	13.6	18.6	25.6	36.1	52.9	104.6	203.2	337.1	489.7
32.5°	0.0	8.7	13.9	19.1	26.8	38.7	58.1	116.8	233.5	379.9	540.1
30°	0.0	8.9	14.1	19.6	27.9	41.0	67.8	131.3	261.8	419.9	587.4
27.5°	0.0	9.1	14.3	20.0	28.9	43.2	76.8	154.2	290.6	457.2	631.4
25°	0.0	9.3	14.5	20.4	29.8	45.2	85.1	175.3	321.0	492.8	672.4
22.5°	0.0	9.5	14.7	20.7	30.7	47.0	92.6	194.6	348.6	525.9	718.4
20°	0.0	9.7	14.9	21.1	31.5	48.7	99.4	212.0	373.6	555.7	759.9
17.5°	0.0	9.8	15.0	21.4	32.1	50.2	105.5	227.4	395.8	582.3	796.8
15°	0.0	9.9	15.1	21.6	32.7	51.4	110.8	240.8	415.1	605.4	829.0
12.5°	0.0	10.1	15.3	21.8	33.2	52.5	115.2	252.2	431.5	625.1	856.5
10°	0.0	10.1	15.3	22.0	33.7	53.4	118.9	261.6	445.0	641.3	879.0
7.5°	0.0	10.2	15.4	22.1	34.0	54.1	121.8	269.0	455.6	654.0	896.6
5°	0.0	10.3	15.5	22.2	34.2	54.6	123.9	274.2	463.1	663.0	909.3
2.5°	0.0	10.3	15.5	22.3	34.4	54.9	125.1	277.3	467.7	668.5	916.9
0°	0.0	10.3	15.5	22.3	34.4	54.9	125.1	277.3	467.7	668.5	916.9
-2.5°	0.0	10.3	15.5	22.3	34.4	54.9	125.1	277.3	467.7	668.5	916.9
-5°	0.0	10.3	15.5	22.2	34.2	54.6	123.9	274.2	463.1	663.0	909.3
-7.5°	0.0	10.2	15.4	22.1	34.0	54.1	121.8	269.0	455.6	654.0	896.6
-10°	0.0	10.1	15.3	22.0	33.7	53.4	118.9	261.6	445.0	641.3	879.0
-12.5°	0.0	10.1	15.3	21.8	33.2	52.5	115.2	252.2	431.5	625.1	856.5
-15°	0.0	9.9	15.1	21.6	32.7	51.4	110.8	240.8	415.1	605.4	829.0
-17.5°	0.0	9.8	15.0	21.4	32.1	50.2	105.5	227.4	395.8	582.3	796.8
-20°	0.0	9.7	14.9	21.1	31.5	48.7	99.4	212.0	373.6	555.7	759.9



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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°	0.0	9.5	14.7	20.7	30.7	47.0	92.6	194.6	348.6	525.9	718.4
-25°	0.0	9.3	14.5	20.4	29.8	45.2	85.1	175.3	321.0	492.8	672.4
-27.5°	0.0	9.1	14.3	20.0	28.9	43.2	76.8	154.2	290.6	457.2	631.4
-30°	0.0	8.9	14.1	19.6	27.9	41.0	67.8	131.3	261.8	419.9	587.4
-32.5°	0.0	8.7	13.9	19.1	26.8	38.7	58.1	116.8	233.5	379.9	540.1
-35°	0.0	8.4	13.6	18.6	25.6	36.1	52.9	104.6	203.2	337.1	489.7
-37.5°	0.0	8.2	13.3	18.1	24.3	33.9	49.6	91.7	171.0	291.7	437.9
-40°	0.0	7.9	13.1	17.5	23.0	32.2	46.2	78.1	137.1	250.7	384.4
-42.5°	0.0	7.6	12.8	16.9	21.9	30.4	42.6	63.7	114.4	210.4	328.4
-45°	0.0	7.3	12.4	16.3	21.1	28.6	38.9	53.2	97.2	168.3	271.5
-47.5°	0.0	7.0	12.1	15.7	20.2	26.7	35.0	48.6	79.2	125.0	222.7
-50°	0.0	6.6	11.8	15.1	19.3	24.7	32.4	43.8	60.6	104.1	172.1
-52.5°	0.0	6.3	11.4	14.6	18.4	22.6	29.9	38.9	51.0	82.4	122.9
-55°	0.0	5.9	11.1	14.0	17.4	21.3	27.3	34.1	45.2	60.1	98.1
-57.5°	0.0	5.5	10.7	13.5	16.5	20.1	24.7	31.0	39.3	49.8	72.6
-60°	0.0	5.1	10.3	12.9	15.5	18.8	22.1	27.9	33.7	42.9	52.5
-62.5°	0.0	4.8	9.5	12.3	14.7	17.5	20.6	24.6	30.0	35.9	44.7
-65°	0.0	4.4	8.7	11.7	13.9	16.2	19.0	21.8	26.2	31.0	36.8
-67.5°	0.0	3.9	7.9	11.1	13.0	15.0	17.4	19.9	22.4	26.8	31.0
-70°	0.0	3.5	7.0	10.4	12.2	13.9	15.7	18.0	20.2	22.4	26.2
-72.5°	0.0	3.1	6.2	9.3	11.3	12.9	14.4	16.0	18.0	19.9	21.8
-75°	0.0	2.7	5.3	8.0	10.5	11.8	13.1	14.4	15.7	17.4	19.0
-77.5°	0.0	2.2	4.5	6.7	8.9	10.7	11.8	12.9	13.9	15.0	16.2
-80°	0.0	1.8	3.6	5.4	7.1	8.9	10.5	11.3	12.2	13.0	13.9
-82.5°	0.0	1.3	2.7	4.0	5.4	6.7	8.0	9.3	10.4	11.1	11.7
-85°	0.0	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.9	8.7
-87.5°	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.5	3.9	4.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	5.1	5.5	5.9	6.3	6.6	7.0	7.3	7.6	7.9	8.2
85°	9.5	10.3	10.7	11.1	11.4	11.8	12.1	12.4	12.8	13.1	13.3
82.5°	12.3	12.9	13.5	14.0	14.6	15.1	15.7	16.3	16.9	17.5	18.1
80°	14.7	15.5	16.5	17.4	18.4	19.3	20.2	21.1	21.9	23.0	24.3
77.5°	17.5	18.8	20.1	21.3	22.6	24.7	26.7	28.6	30.4	32.2	33.9
75°	20.6	22.1	24.7	27.3	29.9	32.4	35.0	38.9	42.6	46.2	49.6
72.5°	24.6	27.9	31.0	34.1	38.9	43.8	48.6	53.2	63.7	78.1	91.7
70°	30.0	33.7	39.3	45.2	51.0	60.6	79.2	97.2	114.4	137.1	171.0
67.5°	35.9	42.9	49.8	60.1	82.4	104.1	125.0	168.3	210.4	250.7	291.7
65°	44.7	52.5	72.6	98.1	122.9	172.1	222.7	271.5	328.4	384.4	437.9
62.5°	53.4	78.9	107.6	147.4	206.6	264.1	330.1	397.2	461.8	526.7	589.0
60°	78.9	110.8	161.2	227.4	295.3	373.6	449.6	525.9	600.5	672.4	757.0
57.5°	107.6	161.2	234.3	312.7	399.9	485.6	572.5	656.6	753.7	850.2	943.4
55°	147.4	227.4	312.7	408.7	504.3	600.7	700.1	812.5	921.2	1030.0	1134.1
52.5°	206.6	295.3	399.9	504.3	610.1	723.7	848.1	971.0	1092.6	1208.6	1316.4
50°	264.1	373.6	485.6	600.7	723.7	860.1	996.1	1130.6	1257.6	1378.2	1499.0
47.5°	330.1	449.6	572.5	700.1	848.1	996.1	1143.3	1282.3	1415.6	1553.2	1686.6
45°	397.2	525.9	656.6	812.5	971.0	1130.6	1282.3	1428.1	1580.6	1718.5	1817.9
42.5°	461.8	600.5	753.7	921.2	1092.6	1257.6	1415.6	1580.6	1728.2	1837.7	1901.1
40°	526.7	672.4	850.2	1030.0	1208.6	1378.2	1553.2	1718.5	1837.7	1904.1	1937.0
37.5°	589.0	757.0	943.4	1134.1	1316.4	1499.0	1686.6	1817.9	1901.1	1937.0	2061.8
35°	648.2	837.5	1034.9	1231.2	1419.3	1618.1	1778.8	1892.3	1931.0	2050.4	2506.1
32.5°	712.1	913.6	1121.5	1321.5	1523.8	1720.8	1863.8	1919.0	2016.2	2311.1	3505.7
30°	777.0	987.8	1202.0	1406.6	1622.9	1795.6	1901.4	1960.0	2116.9	3207.4	4345.6
27.5°	837.5	1057.3	1274.9	1490.5	1709.9	1865.7	1923.6	2048.6	2717.2	4016.2	5081.1
25°	893.4	1121.5	1342.5	1569.8	1770.1	1897.5	1959.5	2131.3	3458.1	4662.0	5393.8
22.5°	945.6	1180.2	1404.4	1642.6	1825.4	1915.1	2030.3	2681.5	4088.4	5241.5	5585.4
20°	993.7	1231.2	1462.9	1704.8	1875.6	1931.1	2094.7	3262.2	4597.7	5405.0	5742.7
17.5°	1036.5	1276.7	1516.7	1745.9	1894.4	1963.9	2221.4	3783.8	5056.1	5552.5	5876.1
15°	1073.9	1316.4	1563.7	1782.0	1906.0	2010.6	2644.8	4169.0	5300.8	5676.9	5993.8
12.5°	1105.8	1350.3	1603.9	1812.7	1915.8	2050.6	3007.5	4489.2	5404.4	5771.0	6077.2
10°	1132.0	1378.2	1636.9	1838.1	1924.0	2083.7	3307.4	4754.4	5490.2	5849.2	6146.6
7.5°	1152.5	1399.9	1662.8	1857.9	1930.3	2109.6	3542.7	4962.7	5557.8	5910.8	6201.4
5°	1167.2	1415.6	1681.3	1872.2	1934.9	2128.2	3711.9	5112.5	5606.4	5955.2	6241.0
2.5°	1176.1	1425.0	1692.5	1880.7	1937.7	2139.4	3813.8	5202.9	5635.8	5982.0	6264.9
0°	1179.0	1428.1	1696.2	1883.6	1938.6	2143.1	3847.9	5233.1	5645.6	5991.0	6272.9
-2.5°	1176.1	1425.0	1692.5	1880.7	1937.7	2139.4	3813.8	5202.9	5635.8	5982.0	6264.9
-5°	1167.2	1415.6	1681.3	1872.2	1934.9	2128.2	3711.9	5112.5	5606.4	5955.2	6241.0
-7.5°	1152.5	1399.9	1662.8	1857.9	1930.3	2109.6	3542.7	4962.7	5557.8	5910.8	6201.4
-10°	1132.0	1378.2	1636.9	1838.1	1924.0	2083.7	3307.4	4754.4	5490.2	5849.2	6146.6
-12.5°	1105.8	1350.3	1603.9	1812.7	1915.8	2050.6	3007.5	4489.2	5404.4	5771.0	6077.2
-15°	1073.9	1316.4	1563.7	1782.0	1906.0	2010.6	2644.8	4169.0	5300.8	5676.9	5993.8
-17.5°	1036.5	1276.7	1516.7	1745.9	1894.4	1963.9	2221.4	3783.8	5056.1	5552.5	5876.1
-20°	993.7	1231.2	1462.9	1704.8	1875.6	1931.1	2094.7	3262.2	4597.7	5405.0	5742.7



REPORT NUMBER: P731277 (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°	945.6	1180.2	1404.4	1642.6	1825.4	1915.1	2030.3	2681.5	4088.4	5241.5	5585.4
-25°	893.4	1121.5	1342.5	1569.8	1770.1	1897.5	1959.5	2131.3	3458.1	4662.0	5393.8
-27.5°	837.5	1057.3	1274.9	1490.5	1709.9	1865.7	1923.6	2048.6	2717.2	4016.2	5081.1
-30°	777.0	987.8	1202.0	1406.6	1622.9	1795.6	1901.4	1960.0	2116.9	3207.4	4345.6
-32.5°	712.1	913.6	1121.5	1321.5	1523.8	1720.8	1863.8	1919.0	2016.2	2311.1	3505.7
-35°	648.2	837.5	1034.9	1231.2	1419.3	1618.1	1778.8	1892.3	1931.0	2050.4	2506.1
-37.5°	589.0	757.0	943.4	1134.1	1316.4	1499.0	1686.6	1817.9	1901.1	1937.0	2061.8
-40°	526.7	672.4	850.2	1030.0	1208.6	1378.2	1553.2	1718.5	1837.7	1904.1	1937.0
-42.5°	461.8	600.5	753.7	921.2	1092.6	1257.6	1415.6	1580.6	1728.2	1837.7	1901.1
-45°	397.2	525.9	656.6	812.5	971.0	1130.6	1282.3	1428.1	1580.6	1718.5	1817.9
-47.5°	330.1	449.6	572.5	700.1	848.1	996.1	1143.3	1282.3	1415.6	1553.2	1686.6
-50°	264.1	373.6	485.6	600.7	723.7	860.1	996.1	1130.6	1257.6	1378.2	1499.0
-52.5°	206.6	295.3	399.9	504.3	610.1	723.7	848.1	971.0	1092.6	1208.6	1316.4
-55°	147.4	227.4	312.7	408.7	504.3	600.7	700.1	812.5	921.2	1030.0	1134.1
-57.5°	107.6	161.2	234.3	312.7	399.9	485.6	572.5	656.6	753.7	850.2	943.4
-60°	78.9	110.8	161.2	227.4	295.3	373.6	449.6	525.9	600.5	672.4	757.0
-62.5°	53.4	78.9	107.6	147.4	206.6	264.1	330.1	397.2	461.8	526.7	589.0
-65°	44.7	52.5	72.6	98.1	122.9	172.1	222.7	271.5	328.4	384.4	437.9
-67.5°	35.9	42.9	49.8	60.1	82.4	104.1	125.0	168.3	210.4	250.7	291.7
-70°	30.0	33.7	39.3	45.2	51.0	60.6	79.2	97.2	114.4	137.1	171.0
-72.5°	24.6	27.9	31.0	34.1	38.9	43.8	48.6	53.2	63.7	78.1	91.7
-75°	20.6	22.1	24.7	27.3	29.9	32.4	35.0	38.9	42.6	46.2	49.6
-77.5°	17.5	18.8	20.1	21.3	22.6	24.7	26.7	28.6	30.4	32.2	33.9
-80°	14.7	15.5	16.5	17.4	18.4	19.3	20.2	21.1	21.9	23.0	24.3
-82.5°	12.3	12.9	13.5	14.0	14.6	15.1	15.7	16.3	16.9	17.5	18.1
-85°	9.5	10.3	10.7	11.1	11.4	11.8	12.1	12.4	12.8	13.1	13.3
-87.5°	4.8	5.1	5.5	5.9	6.3	6.6	7.0	7.3	7.6	7.9	8.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.1
85°	13.6	13.9	14.1	14.3	14.5	14.7	14.9	15.0	15.1	15.3	15.3
82.5°	18.6	19.1	19.6	20.0	20.4	20.7	21.1	21.4	21.6	21.8	22.0
80°	25.6	26.8	27.9	28.9	29.8	30.7	31.5	32.1	32.7	33.2	33.7
77.5°	36.1	38.7	41.0	43.2	45.2	47.0	48.7	50.2	51.4	52.5	53.4
75°	52.9	58.1	67.8	76.8	85.1	92.6	99.4	105.5	110.8	115.2	118.9
72.5°	104.6	116.8	131.3	154.2	175.3	194.6	212.0	227.4	240.8	252.2	261.6
70°	203.2	233.5	261.8	290.6	321.0	348.6	373.6	395.8	415.1	431.5	445.0
67.5°	337.1	379.9	419.9	457.2	492.8	525.9	555.7	582.3	605.4	625.1	641.3
65°	489.7	540.1	587.4	631.4	672.4	718.4	759.9	796.8	829.0	856.5	879.0
62.5°	648.2	712.1	777.0	837.5	893.4	945.6	993.7	1036.5	1073.9	1105.8	1132.0
60°	837.5	913.6	987.8	1057.3	1121.5	1180.2	1231.2	1276.7	1316.4	1350.3	1378.2
57.5°	1034.9	1121.5	1202.0	1274.9	1342.5	1404.4	1462.9	1516.7	1563.7	1603.9	1636.9
55°	1231.2	1321.5	1406.6	1490.5	1569.8	1642.6	1704.8	1745.9	1782.0	1812.7	1838.1
52.5°	1419.3	1523.8	1622.9	1709.9	1770.1	1825.4	1875.6	1894.4	1906.0	1915.8	1924.0
50°	1618.1	1720.8	1795.6	1865.7	1897.5	1915.1	1931.1	1963.9	2010.6	2050.6	2083.7
47.5°	1778.8	1863.8	1901.4	1923.6	1959.5	2030.3	2094.7	2221.4	2644.8	3007.5	3307.4
45°	1892.3	1919.0	1960.0	2048.6	2131.3	2681.5	3262.2	3783.8	4169.0	4489.2	4754.4
42.5°	1931.0	2016.2	2116.9	2717.2	3458.1	4088.4	4597.7	5056.1	5300.8	5404.4	5490.2
40°	2050.4	2311.1	3207.4	4016.2	4662.0	5241.5	5405.0	5552.5	5676.9	5771.0	5849.2
37.5°	2506.1	3505.7	4345.6	5081.1	5393.8	5585.4	5742.7	5876.1	5993.8	6077.2	6146.6
35°	3605.9	4512.1	5263.9	5497.4	5705.9	5878.1	6028.4	6146.0	6250.5	6286.6	6301.8
32.5°	4512.1	5289.5	5549.9	5773.5	5970.4	6124.8	6264.2	6296.7	6319.5	6328.4	6326.4
30°	5263.9	5549.9	5796.2	6012.4	6183.8	6287.4	6317.5	6327.7	6324.7	6313.6	6281.1
27.5°	5497.4	5773.5	6012.4	6203.7	6295.7	6329.5	6325.6	6311.6	6263.6	6221.5	6362.2
25°	5705.9	5970.4	6183.8	6295.7	6329.0	6324.5	6286.5	6229.0	6398.3	6581.6	7881.9
22.5°	5878.1	6124.8	6287.4	6329.5	6324.5	6278.1	6261.0	6508.5	7849.7	10100.9	14125.0
20°	6028.4	6264.2	6317.5	6325.6	6286.5	6261.0	6545.9	8731.2	12293.7	20687.0	28826.9
17.5°	6146.0	6296.7	6327.7	6311.6	6229.0	6508.5	8731.2	13898.0	24089.1	37592.4	50719.4
15°	6250.5	6319.5	6324.7	6263.6	6398.3	7849.7	12293.7	24089.1	40598.9	61140.3	86147.3
12.5°	6286.6	6328.4	6313.6	6221.5	6581.6	10100.9	20687.0	37592.4	61140.3	92220.9	130280.3
10°	6301.8	6326.4	6281.1	6362.2	7881.9	14125.0	28826.9	50719.4	86147.3	130280.3	177924.4
7.5°	6313.9	6324.8	6255.3	6475.4	9284.5	19415.8	38446.9	68631.5	112090.9	165538.3	228778.9
5°	6322.6	6323.6	6236.5	6558.0	10312.6	23316.4	45594.0	82490.0	134150.6	197985.6	271736.4
2.5°	6327.8	6322.9	6225.1	6608.3	10940.6	25709.3	50004.2	91111.9	148040.0	220151.0	299746.2
0°	6329.6	6322.7	6221.3	6625.2	11151.9	26516.2	51495.9	94041.3	152791.4	228036.5	309568.2
-2.5°	6327.8	6322.9	6225.1	6608.3	10940.6	25709.3	50004.2	91111.9	148040.0	220151.0	299746.2
-5°	6322.6	6323.6	6236.5	6558.0	10312.6	23316.4	45594.0	82490.0	134150.6	197985.6	271736.4
-7.5°	6313.9	6324.8	6255.3	6475.4	9284.5	19415.8	38446.9	68631.5	112090.9	165538.3	228778.9
-10°	6301.8	6326.4	6281.1	6362.2	7881.9	14125.0	28826.9	50719.4	86147.3	130280.3	177924.4
-12.5°	6286.6	6328.4	6313.6	6221.5	6581.6	10100.9	20687.0	37592.4	61140.3	92220.9	130280.3
-15°	6250.5	6319.5	6324.7	6263.6	6398.3	7849.7	12293.7	24089.1	40598.9	61140.3	86147.3
-17.5°	6146.0	6296.7	6327.7	6311.6	6229.0	6508.5	8731.2	13898.0	24089.1	37592.4	50719.4
-20°	6028.4	6264.2	6317.5	6325.6	6286.5	6261.0	6545.9	8731.2	12293.7	20687.0	28826.9



REPORT NUMBER: P731277 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	5878.1	6124.8	6287.4	6329.5	6324.5	6278.1	6261.0	6508.5	7849.7	10100.9	14125.0
-25°	5705.9	5970.4	6183.8	6295.7	6329.0	6324.5	6286.5	6229.0	6398.3	6581.6	7881.9
-27.5°	5497.4	5773.5	6012.4	6203.7	6295.7	6329.5	6325.6	6311.6	6263.6	6221.5	6362.2
-30°	5263.9	5549.9	5796.2	6012.4	6183.8	6287.4	6317.5	6327.7	6324.7	6313.6	6281.1
-32.5°	4512.1	5289.5	5549.9	5773.5	5970.4	6124.8	6264.2	6296.7	6319.5	6328.4	6326.4
-35°	3605.9	4512.1	5263.9	5497.4	5705.9	5878.1	6028.4	6146.0	6250.5	6286.6	6301.8
-37.5°	2506.1	3505.7	4345.6	5081.1	5393.8	5585.4	5742.7	5876.1	5993.8	6077.2	6146.6
-40°	2050.4	2311.1	3207.4	4016.2	4662.0	5241.5	5405.0	5552.5	5676.9	5771.0	5849.2
-42.5°	1931.0	2016.2	2116.9	2717.2	3458.1	4088.4	4597.7	5056.1	5300.8	5404.4	5490.2
-45°	1892.3	1919.0	1960.0	2048.6	2131.3	2681.5	3262.2	3783.8	4169.0	4489.2	4754.4
-47.5°	1778.8	1863.8	1901.4	1923.6	1959.5	2030.3	2094.7	2221.4	2644.8	3007.5	3307.4
-50°	1618.1	1720.8	1795.6	1865.7	1897.5	1915.1	1931.1	1963.9	2010.6	2050.6	2083.7
-52.5°	1419.3	1523.8	1622.9	1709.9	1770.1	1825.4	1875.6	1894.4	1906.0	1915.8	1924.0
-55°	1231.2	1321.5	1406.6	1490.5	1569.8	1642.6	1704.8	1745.9	1782.0	1812.7	1838.1
-57.5°	1034.9	1121.5	1202.0	1274.9	1342.5	1404.4	1462.9	1516.7	1563.7	1603.9	1636.9
-60°	837.5	913.6	987.8	1057.3	1121.5	1180.2	1231.2	1276.7	1316.4	1350.3	1378.2
-62.5°	648.2	712.1	777.0	837.5	893.4	945.6	993.7	1036.5	1073.9	1105.8	1132.0
-65°	489.7	540.1	587.4	631.4	672.4	718.4	759.9	796.8	829.0	856.5	879.0
-67.5°	337.1	379.9	419.9	457.2	492.8	525.9	555.7	582.3	605.4	625.1	641.3
-70°	203.2	233.5	261.8	290.6	321.0	348.6	373.6	395.8	415.1	431.5	445.0
-72.5°	104.6	116.8	131.3	154.2	175.3	194.6	212.0	227.4	240.8	252.2	261.6
-75°	52.9	58.1	67.8	76.8	85.1	92.6	99.4	105.5	110.8	115.2	118.9
-77.5°	36.1	38.7	41.0	43.2	45.2	47.0	48.7	50.2	51.4	52.5	53.4
-80°	25.6	26.8	27.9	28.9	29.8	30.7	31.5	32.1	32.7	33.2	33.7
-82.5°	18.6	19.1	19.6	20.0	20.4	20.7	21.1	21.4	21.6	21.8	22.0
-85°	13.6	13.9	14.1	14.3	14.5	14.7	14.9	15.0	15.1	15.3	15.3
-87.5°	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731277 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	10.3	10.3	10.3	10.3	10.3	10.2	10.1	10.1	9.9	9.8
85°	15.4	15.5	15.5	15.5	15.5	15.5	15.4	15.3	15.3	15.1	15.0
82.5°	22.1	22.2	22.3	22.3	22.3	22.2	22.1	22.0	21.8	21.6	21.4
80°	34.0	34.2	34.4	34.4	34.4	34.2	34.0	33.7	33.2	32.7	32.1
77.5°	54.1	54.6	54.9	55.0	54.9	54.6	54.1	53.4	52.5	51.4	50.2
75°	121.8	123.9	125.1	125.5	125.1	123.9	121.8	118.9	115.2	110.8	105.5
72.5°	269.0	274.2	277.3	278.4	277.3	274.2	269.0	261.6	252.2	240.8	227.4
70°	455.6	463.1	467.7	469.2	467.7	463.1	455.6	445.0	431.5	415.1	395.8
67.5°	654.0	663.0	668.5	670.3	668.5	663.0	654.0	641.3	625.1	605.4	582.3
65°	896.6	909.3	916.9	919.4	916.9	909.3	896.6	879.0	856.5	829.0	796.8
62.5°	1152.5	1167.2	1176.1	1179.0	1176.1	1167.2	1152.5	1132.0	1105.8	1073.9	1036.5
60°	1399.9	1415.6	1425.0	1428.1	1425.0	1415.6	1399.9	1378.2	1350.3	1316.4	1276.7
57.5°	1662.8	1681.3	1692.5	1696.2	1692.5	1681.3	1662.8	1636.9	1603.9	1563.7	1516.7
55°	1857.9	1872.2	1880.7	1883.6	1880.7	1872.2	1857.9	1838.1	1812.7	1782.0	1745.9
52.5°	1930.3	1934.9	1937.7	1938.6	1937.7	1934.9	1930.3	1924.0	1915.8	1906.0	1894.4
50°	2109.6	2128.2	2139.4	2143.1	2139.4	2128.2	2109.6	2083.7	2050.6	2010.6	1963.9
47.5°	3542.7	3711.9	3813.8	3847.9	3813.8	3711.9	3542.7	3307.4	3007.5	2644.8	2221.4
45°	4962.7	5112.5	5202.9	5233.1	5202.9	5112.5	4962.7	4754.4	4489.2	4169.0	3783.8
42.5°	5557.8	5606.4	5635.8	5645.6	5635.8	5606.4	5557.8	5490.2	5404.4	5300.8	5056.1
40°	5910.8	5955.2	5982.0	5991.0	5982.0	5955.2	5910.8	5849.2	5771.0	5676.9	5552.5
37.5°	6201.4	6241.0	6264.9	6272.9	6264.9	6241.0	6201.4	6146.6	6077.2	5993.8	5876.1
35°	6313.9	6322.6	6327.8	6329.6	6327.8	6322.6	6313.9	6301.8	6286.6	6250.5	6146.0
32.5°	6324.8	6323.6	6322.9	6322.7	6322.9	6323.6	6324.8	6326.4	6328.4	6319.5	6296.7
30°	6255.3	6236.5	6225.1	6221.3	6225.1	6236.5	6255.3	6281.1	6313.6	6324.7	6327.7
27.5°	6475.4	6558.0	6608.3	6625.2	6608.3	6558.0	6475.4	6362.2	6221.5	6263.6	6311.6
25°	9284.5	10312.6	10940.6	11151.9	10940.6	10312.6	9284.5	7881.9	6581.6	6398.3	6229.0
22.5°	19415.8	23316.4	25709.3	26516.2	25709.3	23316.4	19415.8	14125.0	10100.9	7849.7	6508.5
20°	38446.9	45594.0	50004.2	51495.9	50004.2	45594.0	38446.9	28826.9	20687.0	12293.7	8731.2
17.5°	68631.5	82490.0	91111.9	94041.3	91111.9	82490.0	68631.5	50719.4	37592.4	24089.1	13898.0
15°	112090.9	134150.6	148040.0	152791.4	148040.0	134150.6	112090.9	86147.3	61140.3	40598.9	24089.1
12.5°	165538.3	197985.6	220151.0	228036.5	220151.0	197985.6	165538.3	130280.3	92220.9	61140.3	37592.4
10°	228778.9	271736.4	299746.2	309568.2	299746.2	271736.4	228778.9	177924.4	130280.3	86147.3	50719.4
7.5°	290502.6	341502.9	379121.8	392736.9	379121.8	341502.9	290502.6	228778.9	165538.3	112090.9	68631.5
5°	341502.9	407364.1	447746.9	460512.1	447746.9	407364.1	341502.9	271736.4	197985.6	134150.6	82490.0
2.5°	379121.8	447746.9	491400.2	514035.1	491400.2	447746.9	379121.8	299746.2	220151.0	148040.0	91111.9
0°	392736.9	460512.1	514035.1	552455.0	514035.1	460512.1	392736.9	309568.2	228036.5	152791.4	94041.3
-2.5°	379121.8	447746.9	491400.2	514035.1	491400.2	447746.9	379121.8	299746.2	220151.0	148040.0	91111.9
-5°	341502.9	407364.1	447746.9	460512.1	447746.9	407364.1	341502.9	271736.4	197985.6	134150.6	82490.0
-7.5°	290502.6	341502.9	379121.8	392736.9	379121.8	341502.9	290502.6	228778.9	165538.3	112090.9	68631.5
-10°	228778.9	271736.4	299746.2	309568.2	299746.2	271736.4	228778.9	177924.4	130280.3	86147.3	50719.4
-12.5°	165538.3	197985.6	220151.0	228036.5	220151.0	197985.6	165538.3	130280.3	92220.9	61140.3	37592.4
-15°	112090.9	134150.6	148040.0	152791.4	148040.0	134150.6	112090.9	86147.3	61140.3	40598.9	24089.1
-17.5°	68631.5	82490.0	91111.9	94041.3	91111.9	82490.0	68631.5	50719.4	37592.4	24089.1	13898.0
-20°	38446.9	45594.0	50004.2	51495.9	50004.2	45594.0	38446.9	28826.9	20687.0	12293.7	8731.2



REPORT NUMBER: P731277 (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°	19415.8	23316.4	25709.3	26516.2	25709.3	23316.4	19415.8	14125.0	10100.9	7849.7	6508.5
-25°	9284.5	10312.6	10940.6	11151.9	10940.6	10312.6	9284.5	7881.9	6581.6	6398.3	6229.0
-27.5°	6475.4	6558.0	6608.3	6625.2	6608.3	6558.0	6475.4	6362.2	6221.5	6263.6	6311.6
-30°	6255.3	6236.5	6225.1	6221.3	6225.1	6236.5	6255.3	6281.1	6313.6	6324.7	6327.7
-32.5°	6324.8	6323.6	6322.9	6322.7	6322.9	6323.6	6324.8	6326.4	6328.4	6319.5	6296.7
-35°	6313.9	6322.6	6327.8	6329.6	6327.8	6322.6	6313.9	6301.8	6286.6	6250.5	6146.0
-37.5°	6201.4	6241.0	6264.9	6272.9	6264.9	6241.0	6201.4	6146.6	6077.2	5993.8	5876.1
-40°	5910.8	5955.2	5982.0	5991.0	5982.0	5955.2	5910.8	5849.2	5771.0	5676.9	5552.5
-42.5°	5557.8	5606.4	5635.8	5645.6	5635.8	5606.4	5557.8	5490.2	5404.4	5300.8	5056.1
-45°	4962.7	5112.5	5202.9	5233.1	5202.9	5112.5	4962.7	4754.4	4489.2	4169.0	3783.8
-47.5°	3542.7	3711.9	3813.8	3847.9	3813.8	3711.9	3542.7	3307.4	3007.5	2644.8	2221.4
-50°	2109.6	2128.2	2139.4	2143.1	2139.4	2128.2	2109.6	2083.7	2050.6	2010.6	1963.9
-52.5°	1930.3	1934.9	1937.7	1938.6	1937.7	1934.9	1930.3	1924.0	1915.8	1906.0	1894.4
-55°	1857.9	1872.2	1880.7	1883.6	1880.7	1872.2	1857.9	1838.1	1812.7	1782.0	1745.9
-57.5°	1662.8	1681.3	1692.5	1696.2	1692.5	1681.3	1662.8	1636.9	1603.9	1563.7	1516.7
-60°	1399.9	1415.6	1425.0	1428.1	1425.0	1415.6	1399.9	1378.2	1350.3	1316.4	1276.7
-62.5°	1152.5	1167.2	1176.1	1179.0	1176.1	1167.2	1152.5	1132.0	1105.8	1073.9	1036.5
-65°	896.6	909.3	916.9	919.4	916.9	909.3	896.6	879.0	856.5	829.0	796.8
-67.5°	654.0	663.0	668.5	670.3	668.5	663.0	654.0	641.3	625.1	605.4	582.3
-70°	455.6	463.1	467.7	469.2	467.7	463.1	455.6	445.0	431.5	415.1	395.8
-72.5°	269.0	274.2	277.3	278.4	277.3	274.2	269.0	261.6	252.2	240.8	227.4
-75°	121.8	123.9	125.1	125.5	125.1	123.9	121.8	118.9	115.2	110.8	105.5
-77.5°	54.1	54.6	54.9	55.0	54.9	54.6	54.1	53.4	52.5	51.4	50.2
-80°	34.0	34.2	34.4	34.4	34.4	34.2	34.0	33.7	33.2	32.7	32.1
-82.5°	22.1	22.2	22.3	22.3	22.3	22.2	22.1	22.0	21.8	21.6	21.4
-85°	15.4	15.5	15.5	15.5	15.5	15.5	15.4	15.3	15.3	15.1	15.0
-87.5°	10.2	10.3	10.3	10.3	10.3	10.3	10.2	10.1	10.1	9.9	9.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	9.5	9.3	9.1	8.9	8.7	8.4	8.2	7.9	7.6	7.3
85°	14.9	14.7	14.5	14.3	14.1	13.9	13.6	13.3	13.1	12.8	12.4
82.5°	21.1	20.7	20.4	20.0	19.6	19.1	18.6	18.1	17.5	16.9	16.3
80°	31.5	30.7	29.8	28.9	27.9	26.8	25.6	24.3	23.0	21.9	21.1
77.5°	48.7	47.0	45.2	43.2	41.0	38.7	36.1	33.9	32.2	30.4	28.6
75°	99.4	92.6	85.1	76.8	67.8	58.1	52.9	49.6	46.2	42.6	38.9
72.5°	212.0	194.6	175.3	154.2	131.3	116.8	104.6	91.7	78.1	63.7	53.2
70°	373.6	348.6	321.0	290.6	261.8	233.5	203.2	171.0	137.1	114.4	97.2
67.5°	555.7	525.9	492.8	457.2	419.9	379.9	337.1	291.7	250.7	210.4	168.3
65°	759.9	718.4	672.4	631.4	587.4	540.1	489.7	437.9	384.4	328.4	271.5
62.5°	993.7	945.6	893.4	837.5	777.0	712.1	648.2	589.0	526.7	461.8	397.2
60°	1231.2	1180.2	1121.5	1057.3	987.8	913.6	837.5	757.0	672.4	600.5	525.9
57.5°	1462.9	1404.4	1342.5	1274.9	1202.0	1121.5	1034.9	943.4	850.2	753.7	656.6
55°	1704.8	1642.6	1569.8	1490.5	1406.6	1321.5	1231.2	1134.1	1030.0	921.2	812.5
52.5°	1875.6	1825.4	1770.1	1709.9	1622.9	1523.8	1419.3	1316.4	1208.6	1092.6	971.0
50°	1931.1	1915.1	1897.5	1865.7	1795.6	1720.8	1618.1	1499.0	1378.2	1257.6	1130.6
47.5°	2094.7	2030.3	1959.5	1923.6	1901.4	1863.8	1778.8	1686.6	1553.2	1415.6	1282.3
45°	3262.2	2681.5	2131.3	2048.6	1960.0	1919.0	1892.3	1817.9	1718.5	1580.6	1428.1
42.5°	4597.7	4088.4	3458.1	2717.2	2116.9	2016.2	1931.0	1901.1	1837.7	1728.2	1580.6
40°	5405.0	5241.5	4662.0	4016.2	3207.4	2311.1	2050.4	1937.0	1904.1	1837.7	1718.5
37.5°	5742.7	5585.4	5393.8	5081.1	4345.6	3505.7	2506.1	2061.8	1937.0	1901.1	1817.9
35°	6028.4	5878.1	5705.9	5497.4	5263.9	4512.1	3605.9	2506.1	2050.4	1931.0	1892.3
32.5°	6264.2	6124.8	5970.4	5773.5	5549.9	5289.5	4512.1	3505.7	2311.1	2016.2	1919.0
30°	6317.5	6287.4	6183.8	6012.4	5796.2	5549.9	5263.9	4345.6	3207.4	2116.9	1960.0
27.5°	6325.6	6329.5	6295.7	6203.7	6012.4	5773.5	5497.4	5081.1	4016.2	2717.2	2048.6
25°	6286.5	6324.5	6329.0	6295.7	6183.8	5970.4	5705.9	5393.8	4662.0	3458.1	2131.3
22.5°	6261.0	6278.1	6324.5	6329.5	6287.4	6124.8	5878.1	5585.4	5241.5	4088.4	2681.5
20°	6545.9	6261.0	6286.5	6325.6	6317.5	6264.2	6028.4	5742.7	5405.0	4597.7	3262.2
17.5°	8731.2	6508.5	6229.0	6311.6	6327.7	6296.7	6146.0	5876.1	5552.5	5056.1	3783.8
15°	12293.7	7849.7	6398.3	6263.6	6324.7	6319.5	6250.5	5993.8	5676.9	5300.8	4169.0
12.5°	20687.0	10100.9	6581.6	6221.5	6313.6	6328.4	6286.6	6077.2	5771.0	5404.4	4489.2
10°	28826.9	14125.0	7881.9	6362.2	6281.1	6326.4	6301.8	6146.6	5849.2	5490.2	4754.4
7.5°	38446.9	19415.8	9284.5	6475.4	6255.3	6324.8	6313.9	6201.4	5910.8	5557.8	4962.7
5°	45594.0	23316.4	10312.6	6558.0	6236.5	6323.6	6322.6	6241.0	5955.2	5606.4	5112.5
2.5°	50004.2	25709.3	10940.6	6608.3	6225.1	6322.9	6327.8	6264.9	5982.0	5635.8	5202.9
0°	51495.9	26516.2	11151.9	6625.2	6221.3	6322.7	6329.6	6272.9	5991.0	5645.6	5233.1
-2.5°	50004.2	25709.3	10940.6	6608.3	6225.1	6322.9	6327.8	6264.9	5982.0	5635.8	5202.9
-5°	45594.0	23316.4	10312.6	6558.0	6236.5	6323.6	6322.6	6241.0	5955.2	5606.4	5112.5
-7.5°	38446.9	19415.8	9284.5	6475.4	6255.3	6324.8	6313.9	6201.4	5910.8	5557.8	4962.7
-10°	28826.9	14125.0	7881.9	6362.2	6281.1	6326.4	6301.8	6146.6	5849.2	5490.2	4754.4
-12.5°	20687.0	10100.9	6581.6	6221.5	6313.6	6328.4	6286.6	6077.2	5771.0	5404.4	4489.2
-15°	12293.7	7849.7	6398.3	6263.6	6324.7	6319.5	6250.5	5993.8	5676.9	5300.8	4169.0
-17.5°	8731.2	6508.5	6229.0	6311.6	6327.7	6296.7	6146.0	5876.1	5552.5	5056.1	3783.8
-20°	6545.9	6261.0	6286.5	6325.6	6317.5	6264.2	6028.4	5742.7	5405.0	4597.7	3262.2



REPORT NUMBER: P731277 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	6261.0	6278.1	6324.5	6329.5	6287.4	6124.8	5878.1	5585.4	5241.5	4088.4	2681.5
-25°	6286.5	6324.5	6329.0	6295.7	6183.8	5970.4	5705.9	5393.8	4662.0	3458.1	2131.3
-27.5°	6325.6	6329.5	6295.7	6203.7	6012.4	5773.5	5497.4	5081.1	4016.2	2717.2	2048.6
-30°	6317.5	6287.4	6183.8	6012.4	5796.2	5549.9	5263.9	4345.6	3207.4	2116.9	1960.0
-32.5°	6264.2	6124.8	5970.4	5773.5	5549.9	5289.5	4512.1	3505.7	2311.1	2016.2	1919.0
-35°	6028.4	5878.1	5705.9	5497.4	5263.9	4512.1	3605.9	2506.1	2050.4	1931.0	1892.3
-37.5°	5742.7	5585.4	5393.8	5081.1	4345.6	3505.7	2506.1	2061.8	1937.0	1901.1	1817.9
-40°	5405.0	5241.5	4662.0	4016.2	3207.4	2311.1	2050.4	1937.0	1904.1	1837.7	1718.5
-42.5°	4597.7	4088.4	3458.1	2717.2	2116.9	2016.2	1931.0	1901.1	1837.7	1728.2	1580.6
-45°	3262.2	2681.5	2131.3	2048.6	1960.0	1919.0	1892.3	1817.9	1718.5	1580.6	1428.1
-47.5°	2094.7	2030.3	1959.5	1923.6	1901.4	1863.8	1778.8	1686.6	1553.2	1415.6	1282.3
-50°	1931.1	1915.1	1897.5	1865.7	1795.6	1720.8	1618.1	1499.0	1378.2	1257.6	1130.6
-52.5°	1875.6	1825.4	1770.1	1709.9	1622.9	1523.8	1419.3	1316.4	1208.6	1092.6	971.0
-55°	1704.8	1642.6	1569.8	1490.5	1406.6	1321.5	1231.2	1134.1	1030.0	921.2	812.5
-57.5°	1462.9	1404.4	1342.5	1274.9	1202.0	1121.5	1034.9	943.4	850.2	753.7	656.6
-60°	1231.2	1180.2	1121.5	1057.3	987.8	913.6	837.5	757.0	672.4	600.5	525.9
-62.5°	993.7	945.6	893.4	837.5	777.0	712.1	648.2	589.0	526.7	461.8	397.2
-65°	759.9	718.4	672.4	631.4	587.4	540.1	489.7	437.9	384.4	328.4	271.5
-67.5°	555.7	525.9	492.8	457.2	419.9	379.9	337.1	291.7	250.7	210.4	168.3
-70°	373.6	348.6	321.0	290.6	261.8	233.5	203.2	171.0	137.1	114.4	97.2
-72.5°	212.0	194.6	175.3	154.2	131.3	116.8	104.6	91.7	78.1	63.7	53.2
-75°	99.4	92.6	85.1	76.8	67.8	58.1	52.9	49.6	46.2	42.6	38.9
-77.5°	48.7	47.0	45.2	43.2	41.0	38.7	36.1	33.9	32.2	30.4	28.6
-80°	31.5	30.7	29.8	28.9	27.9	26.8	25.6	24.3	23.0	21.9	21.1
-82.5°	21.1	20.7	20.4	20.0	19.6	19.1	18.6	18.1	17.5	16.9	16.3
-85°	14.9	14.7	14.5	14.3	14.1	13.9	13.6	13.3	13.1	12.8	12.4
-87.5°	9.7	9.5	9.3	9.1	8.9	8.7	8.4	8.2	7.9	7.6	7.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P731277 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	6.6	6.3	5.9	5.5	5.1	4.8	4.4	3.9	3.5	3.1
85°	12.1	11.8	11.4	11.1	10.7	10.3	9.5	8.7	7.9	7.0	6.2
82.5°	15.7	15.1	14.6	14.0	13.5	12.9	12.3	11.7	11.1	10.4	9.3
80°	20.2	19.3	18.4	17.4	16.5	15.5	14.7	13.9	13.0	12.2	11.3
77.5°	26.7	24.7	22.6	21.3	20.1	18.8	17.5	16.2	15.0	13.9	12.9
75°	35.0	32.4	29.9	27.3	24.7	22.1	20.6	19.0	17.4	15.7	14.4
72.5°	48.6	43.8	38.9	34.1	31.0	27.9	24.6	21.8	19.9	18.0	16.0
70°	79.2	60.6	51.0	45.2	39.3	33.7	30.0	26.2	22.4	20.2	18.0
67.5°	125.0	104.1	82.4	60.1	49.8	42.9	35.9	31.0	26.8	22.4	19.9
65°	222.7	172.1	122.9	98.1	72.6	52.5	44.7	36.8	31.0	26.2	21.8
62.5°	330.1	264.1	206.6	147.4	107.6	78.9	53.4	44.7	35.9	30.0	24.6
60°	449.6	373.6	295.3	227.4	161.2	110.8	78.9	52.5	42.9	33.7	27.9
57.5°	572.5	485.6	399.9	312.7	234.3	161.2	107.6	72.6	49.8	39.3	31.0
55°	700.1	600.7	504.3	408.7	312.7	227.4	147.4	98.1	60.1	45.2	34.1
52.5°	848.1	723.7	610.1	504.3	399.9	295.3	206.6	122.9	82.4	51.0	38.9
50°	996.1	860.1	723.7	600.7	485.6	373.6	264.1	172.1	104.1	60.6	43.8
47.5°	1143.3	996.1	848.1	700.1	572.5	449.6	330.1	222.7	125.0	79.2	48.6
45°	1282.3	1130.6	971.0	812.5	656.6	525.9	397.2	271.5	168.3	97.2	53.2
42.5°	1415.6	1257.6	1092.6	921.2	753.7	600.5	461.8	328.4	210.4	114.4	63.7
40°	1553.2	1378.2	1208.6	1030.0	850.2	672.4	526.7	384.4	250.7	137.1	78.1
37.5°	1686.6	1499.0	1316.4	1134.1	943.4	757.0	589.0	437.9	291.7	171.0	91.7
35°	1778.8	1618.1	1419.3	1231.2	1034.9	837.5	648.2	489.7	337.1	203.2	104.6
32.5°	1863.8	1720.8	1523.8	1321.5	1121.5	913.6	712.1	540.1	379.9	233.5	116.8
30°	1901.4	1795.6	1622.9	1406.6	1202.0	987.8	777.0	587.4	419.9	261.8	131.3
27.5°	1923.6	1865.7	1709.9	1490.5	1274.9	1057.3	837.5	631.4	457.2	290.6	154.2
25°	1959.5	1897.5	1770.1	1569.8	1342.5	1121.5	893.4	672.4	492.8	321.0	175.3
22.5°	2030.3	1915.1	1825.4	1642.6	1404.4	1180.2	945.6	718.4	525.9	348.6	194.6
20°	2094.7	1931.1	1875.6	1704.8	1462.9	1231.2	993.7	759.9	555.7	373.6	212.0
17.5°	2221.4	1963.9	1894.4	1745.9	1516.7	1276.7	1036.5	796.8	582.3	395.8	227.4
15°	2644.8	2010.6	1906.0	1782.0	1563.7	1316.4	1073.9	829.0	605.4	415.1	240.8
12.5°	3007.5	2050.6	1915.8	1812.7	1603.9	1350.3	1105.8	856.5	625.1	431.5	252.2
10°	3307.4	2083.7	1924.0	1838.1	1636.9	1378.2	1132.0	879.0	641.3	445.0	261.6
7.5°	3542.7	2109.6	1930.3	1857.9	1662.8	1399.9	1152.5	896.6	654.0	455.6	269.0
5°	3711.9	2128.2	1934.9	1872.2	1681.3	1415.6	1167.2	909.3	663.0	463.1	274.2
2.5°	3813.8	2139.4	1937.7	1880.7	1692.5	1425.0	1176.1	916.9	668.5	467.7	277.3
0°	3847.9	2143.1	1938.6	1883.6	1696.2	1428.1	1179.0	919.4	670.3	469.2	278.4
-2.5°	3813.8	2139.4	1937.7	1880.7	1692.5	1425.0	1176.1	916.9	668.5	467.7	277.3
-5°	3711.9	2128.2	1934.9	1872.2	1681.3	1415.6	1167.2	909.3	663.0	463.1	274.2
-7.5°	3542.7	2109.6	1930.3	1857.9	1662.8	1399.9	1152.5	896.6	654.0	455.6	269.0
-10°	3307.4	2083.7	1924.0	1838.1	1636.9	1378.2	1132.0	879.0	641.3	445.0	261.6
-12.5°	3007.5	2050.6	1915.8	1812.7	1603.9	1350.3	1105.8	856.5	625.1	431.5	252.2
-15°	2644.8	2010.6	1906.0	1782.0	1563.7	1316.4	1073.9	829.0	605.4	415.1	240.8
-17.5°	2221.4	1963.9	1894.4	1745.9	1516.7	1276.7	1036.5	796.8	582.3	395.8	227.4
-20°	2094.7	1931.1	1875.6	1704.8	1462.9	1231.2	993.7	759.9	555.7	373.6	212.0



REPORT NUMBER: P731277 (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°	2030.3	1915.1	1825.4	1642.6	1404.4	1180.2	945.6	718.4	525.9	348.6	194.6
-25°	1959.5	1897.5	1770.1	1569.8	1342.5	1121.5	893.4	672.4	492.8	321.0	175.3
-27.5°	1923.6	1865.7	1709.9	1490.5	1274.9	1057.3	837.5	631.4	457.2	290.6	154.2
-30°	1901.4	1795.6	1622.9	1406.6	1202.0	987.8	777.0	587.4	419.9	261.8	131.3
-32.5°	1863.8	1720.8	1523.8	1321.5	1121.5	913.6	712.1	540.1	379.9	233.5	116.8
-35°	1778.8	1618.1	1419.3	1231.2	1034.9	837.5	648.2	489.7	337.1	203.2	104.6
-37.5°	1686.6	1499.0	1316.4	1134.1	943.4	757.0	589.0	437.9	291.7	171.0	91.7
-40°	1553.2	1378.2	1208.6	1030.0	850.2	672.4	526.7	384.4	250.7	137.1	78.1
-42.5°	1415.6	1257.6	1092.6	921.2	753.7	600.5	461.8	328.4	210.4	114.4	63.7
-45°	1282.3	1130.6	971.0	812.5	656.6	525.9	397.2	271.5	168.3	97.2	53.2
-47.5°	1143.3	996.1	848.1	700.1	572.5	449.6	330.1	222.7	125.0	79.2	48.6
-50°	996.1	860.1	723.7	600.7	485.6	373.6	264.1	172.1	104.1	60.6	43.8
-52.5°	848.1	723.7	610.1	504.3	399.9	295.3	206.6	122.9	82.4	51.0	38.9
-55°	700.1	600.7	504.3	408.7	312.7	227.4	147.4	98.1	60.1	45.2	34.1
-57.5°	572.5	485.6	399.9	312.7	234.3	161.2	107.6	72.6	49.8	39.3	31.0
-60°	449.6	373.6	295.3	227.4	161.2	110.8	78.9	52.5	42.9	33.7	27.9
-62.5°	330.1	264.1	206.6	147.4	107.6	78.9	53.4	44.7	35.9	30.0	24.6
-65°	222.7	172.1	122.9	98.1	72.6	52.5	44.7	36.8	31.0	26.2	21.8
-67.5°	125.0	104.1	82.4	60.1	49.8	42.9	35.9	31.0	26.8	22.4	19.9
-70°	79.2	60.6	51.0	45.2	39.3	33.7	30.0	26.2	22.4	20.2	18.0
-72.5°	48.6	43.8	38.9	34.1	31.0	27.9	24.6	21.8	19.9	18.0	16.0
-75°	35.0	32.4	29.9	27.3	24.7	22.1	20.6	19.0	17.4	15.7	14.4
-77.5°	26.7	24.7	22.6	21.3	20.1	18.8	17.5	16.2	15.0	13.9	12.9
-80°	20.2	19.3	18.4	17.4	16.5	15.5	14.7	13.9	13.0	12.2	11.3
-82.5°	15.7	15.1	14.6	14.0	13.5	12.9	12.3	11.7	11.1	10.4	9.3
-85°	12.1	11.8	11.4	11.1	10.7	10.3	9.5	8.7	7.9	7.0	6.2
-87.5°	7.0	6.6	6.3	5.9	5.5	5.1	4.8	4.4	3.9	3.5	3.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	2.2	1.8	1.3	0.9	0.4	0.0
85°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
82.5°	8.0	6.7	5.4	4.0	2.7	1.3	0.0
80°	10.5	8.9	7.1	5.4	3.6	1.8	0.0
77.5°	11.8	10.7	8.9	6.7	4.5	2.2	0.0
75°	13.1	11.8	10.5	8.0	5.3	2.7	0.0
72.5°	14.4	12.9	11.3	9.3	6.2	3.1	0.0
70°	15.7	13.9	12.2	10.4	7.0	3.5	0.0
67.5°	17.4	15.0	13.0	11.1	7.9	3.9	0.0
65°	19.0	16.2	13.9	11.7	8.7	4.4	0.0
62.5°	20.6	17.5	14.7	12.3	9.5	4.8	0.0
60°	22.1	18.8	15.5	12.9	10.3	5.1	0.0
57.5°	24.7	20.1	16.5	13.5	10.7	5.5	0.0
55°	27.3	21.3	17.4	14.0	11.1	5.9	0.0
52.5°	29.9	22.6	18.4	14.6	11.4	6.3	0.0
50°	32.4	24.7	19.3	15.1	11.8	6.6	0.0
47.5°	35.0	26.7	20.2	15.7	12.1	7.0	0.0
45°	38.9	28.6	21.1	16.3	12.4	7.3	0.0
42.5°	42.6	30.4	21.9	16.9	12.8	7.6	0.0
40°	46.2	32.2	23.0	17.5	13.1	7.9	0.0
37.5°	49.6	33.9	24.3	18.1	13.3	8.2	0.0
35°	52.9	36.1	25.6	18.6	13.6	8.4	0.0
32.5°	58.1	38.7	26.8	19.1	13.9	8.7	0.0
30°	67.8	41.0	27.9	19.6	14.1	8.9	0.0
27.5°	76.8	43.2	28.9	20.0	14.3	9.1	0.0
25°	85.1	45.2	29.8	20.4	14.5	9.3	0.0
22.5°	92.6	47.0	30.7	20.7	14.7	9.5	0.0
20°	99.4	48.7	31.5	21.1	14.9	9.7	0.0
17.5°	105.5	50.2	32.1	21.4	15.0	9.8	0.0
15°	110.8	51.4	32.7	21.6	15.1	9.9	0.0
12.5°	115.2	52.5	33.2	21.8	15.3	10.1	0.0
10°	118.9	53.4	33.7	22.0	15.3	10.1	0.0
7.5°	121.8	54.1	34.0	22.1	15.4	10.2	0.0
5°	123.9	54.6	34.2	22.2	15.5	10.3	0.0
2.5°	125.1	54.9	34.4	22.3	15.5	10.3	0.0
0°	125.5	55.0	34.4	22.3	15.5	10.3	0.0
-2.5°	125.1	54.9	34.4	22.3	15.5	10.3	0.0
-5°	123.9	54.6	34.2	22.2	15.5	10.3	0.0
-7.5°	121.8	54.1	34.0	22.1	15.4	10.2	0.0
-10°	118.9	53.4	33.7	22.0	15.3	10.1	0.0
-12.5°	115.2	52.5	33.2	21.8	15.3	10.1	0.0
-15°	110.8	51.4	32.7	21.6	15.1	9.9	0.0
-17.5°	105.5	50.2	32.1	21.4	15.0	9.8	0.0
-20°	99.4	48.7	31.5	21.1	14.9	9.7	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	92.6	47.0	30.7	20.7	14.7	9.5	0.0
-25°	85.1	45.2	29.8	20.4	14.5	9.3	0.0
-27.5°	76.8	43.2	28.9	20.0	14.3	9.1	0.0
-30°	67.8	41.0	27.9	19.6	14.1	8.9	0.0
-32.5°	58.1	38.7	26.8	19.1	13.9	8.7	0.0
-35°	52.9	36.1	25.6	18.6	13.6	8.4	0.0
-37.5°	49.6	33.9	24.3	18.1	13.3	8.2	0.0
-40°	46.2	32.2	23.0	17.5	13.1	7.9	0.0
-42.5°	42.6	30.4	21.9	16.9	12.8	7.6	0.0
-45°	38.9	28.6	21.1	16.3	12.4	7.3	0.0
-47.5°	35.0	26.7	20.2	15.7	12.1	7.0	0.0
-50°	32.4	24.7	19.3	15.1	11.8	6.6	0.0
-52.5°	29.9	22.6	18.4	14.6	11.4	6.3	0.0
-55°	27.3	21.3	17.4	14.0	11.1	5.9	0.0
-57.5°	24.7	20.1	16.5	13.5	10.7	5.5	0.0
-60°	22.1	18.8	15.5	12.9	10.3	5.1	0.0
-62.5°	20.6	17.5	14.7	12.3	9.5	4.8	0.0
-65°	19.0	16.2	13.9	11.7	8.7	4.4	0.0
-67.5°	17.4	15.0	13.0	11.1	7.9	3.9	0.0
-70°	15.7	13.9	12.2	10.4	7.0	3.5	0.0
-72.5°	14.4	12.9	11.3	9.3	6.2	3.1	0.0
-75°	13.1	11.8	10.5	8.0	5.3	2.7	0.0
-77.5°	11.8	10.7	8.9	6.7	4.5	2.2	0.0
-80°	10.5	8.9	7.1	5.4	3.6	1.8	0.0
-82.5°	8.0	6.7	5.4	4.0	2.7	1.3	0.0
-85°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
-87.5°	2.7	2.2	1.8	1.3	0.9	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

