

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: P731327 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-7F-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731327 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-43)
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-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 7F BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

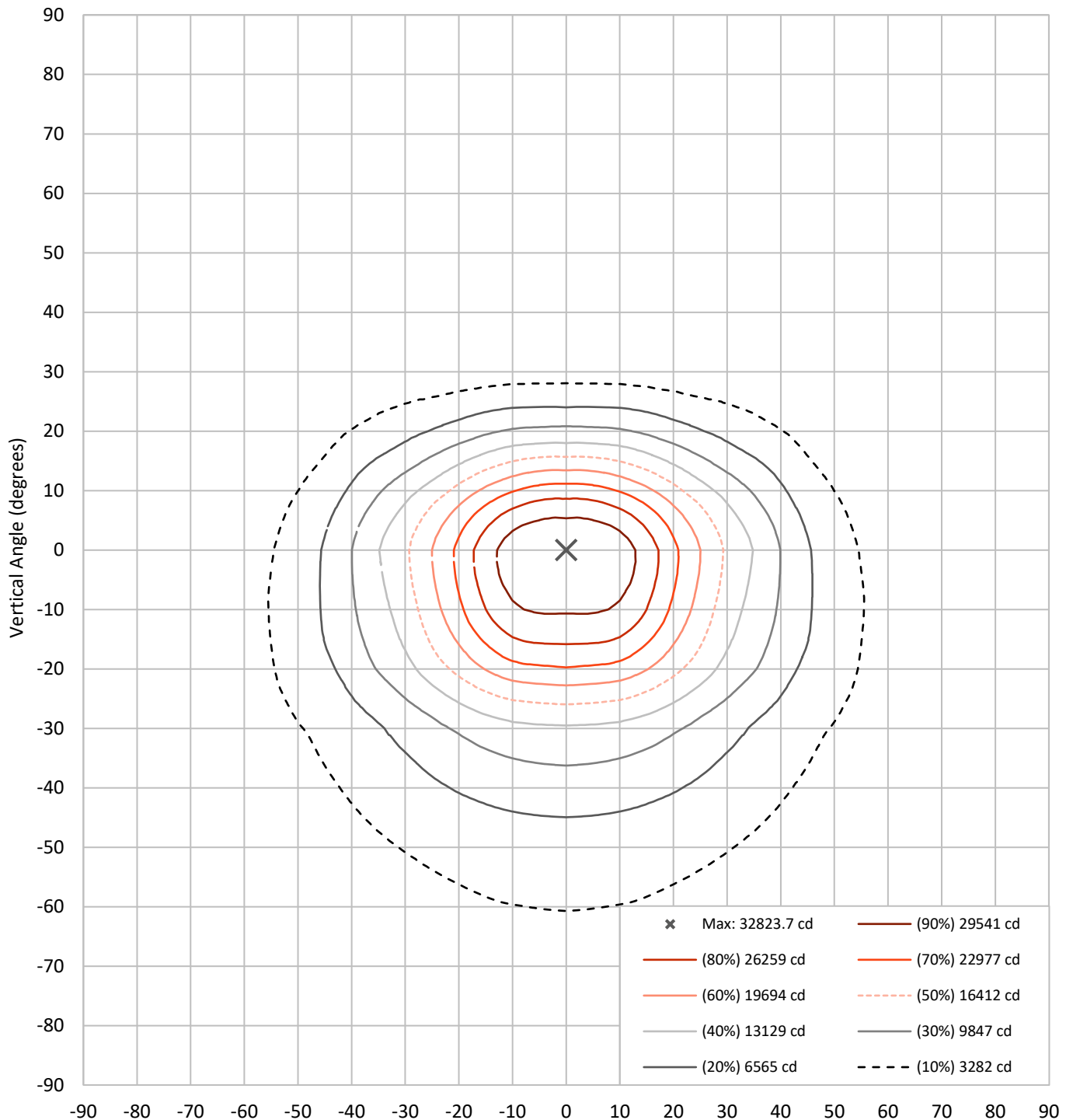
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	28716.9 lumens	Max Intensity:	32823.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	83.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	58.6°H x 41.6°V	Field Angle (10%):	109°H x 88.8°V
Beam Lumens:	13921.7 lumens	Field Lumens:	26081.7 lumens
Beam Efficiency:	48.5%	Field Efficiency:	90.8%

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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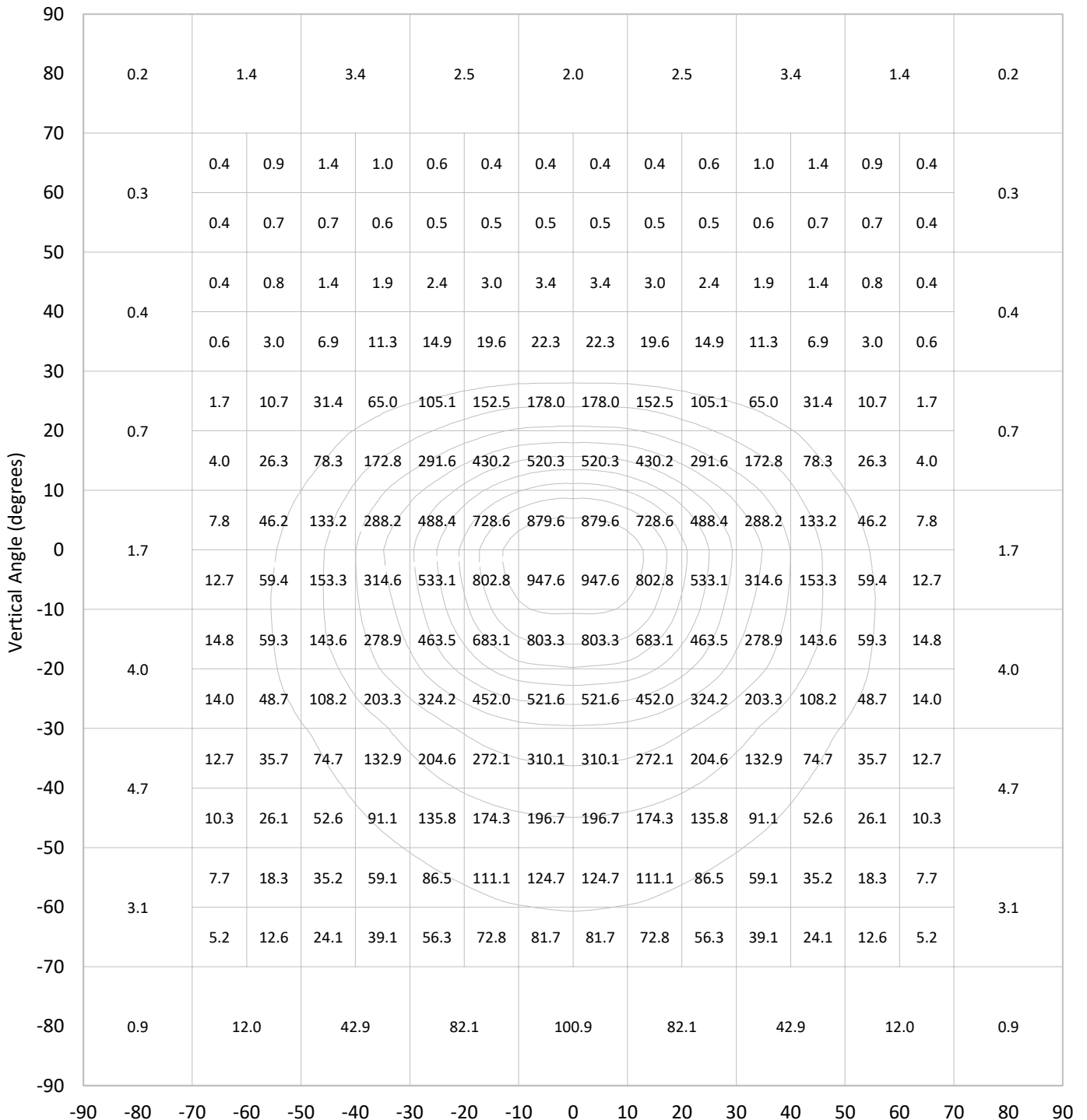
Iso-Candela Plot





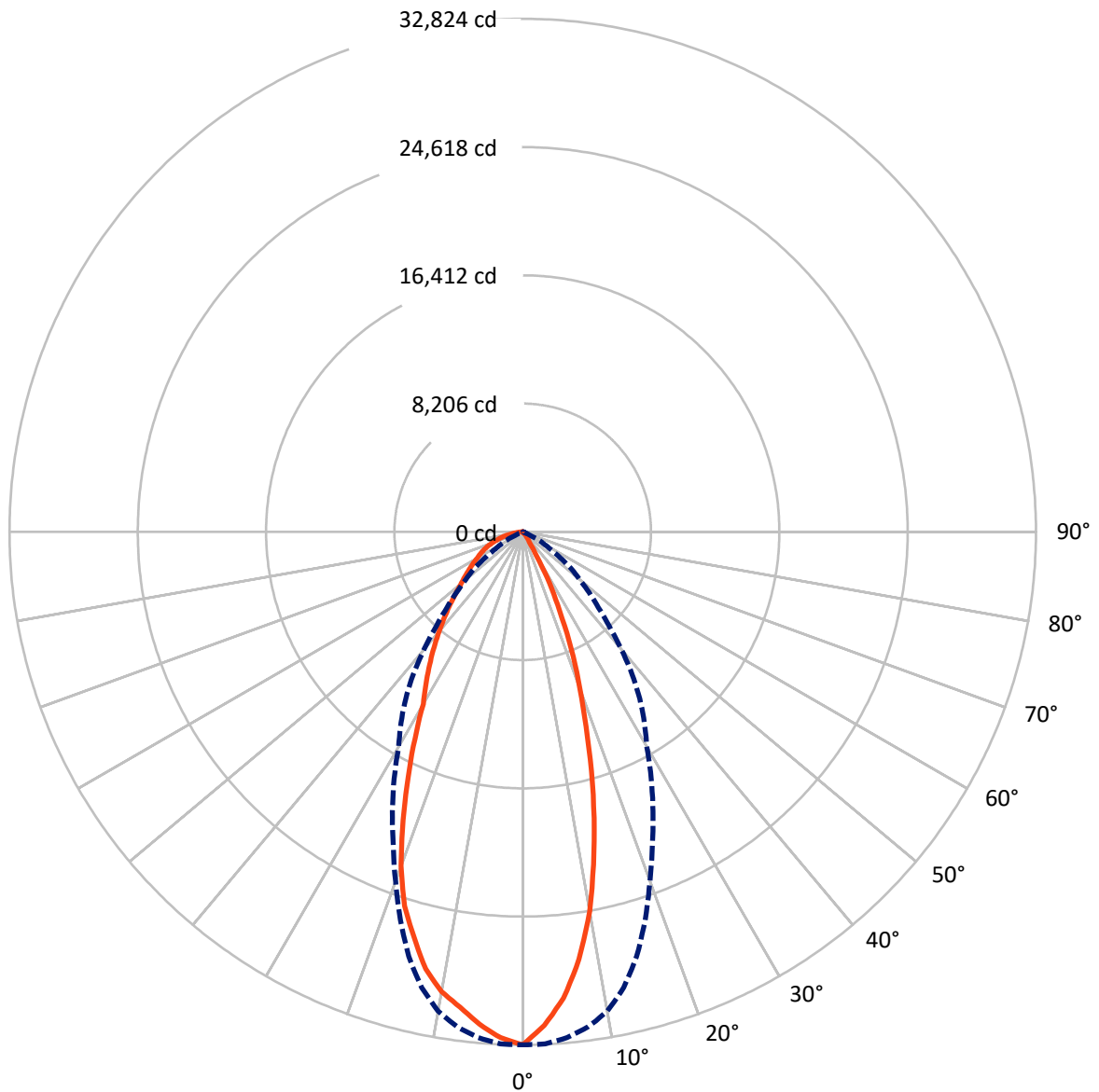
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Lumen Table



REPORT NUMBER: P731327 (CONVERTED FROM TYPE C PHOTOMETRY)
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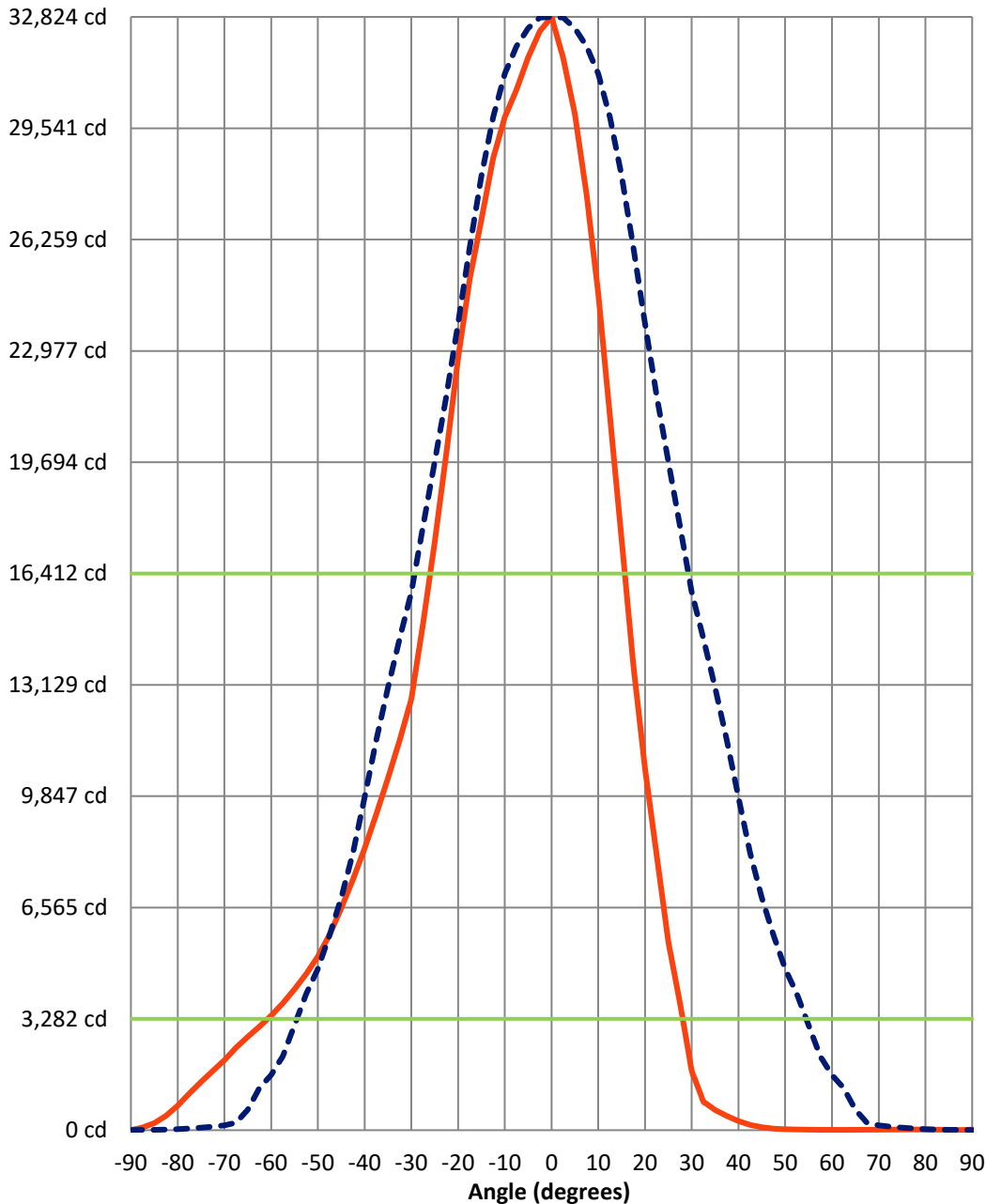
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 58.6°
 V Angle: 41.6°
 Lumens: 13921.7
 Efficiency: 48.5%

Field:
 H Angle: 109°
 V Angle: 88.8°
 Lumens: 26081.7
 Efficiency: 90.8%

Spill:
 Lumens: 2635.2
 Efficiency: 9.2%

— 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°	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	4.8	5.0	5.3	5.7	6.2	6.7	6.9	7.0	7.0	7.1
85°	4.6	5.0	5.4	6.0	6.8	7.7	8.8	9.1	9.4	9.5	9.5
82.5°	4.6	5.1	5.8	6.7	7.9	9.3	10.8	11.4	11.8	12.5	14.0
80°	4.6	5.3	6.2	7.4	9.0	10.8	12.7	13.0	14.2	16.4	19.6
77.5°	4.6	5.5	6.6	8.1	10.0	11.8	12.9	14.1	16.5	20.1	23.9
75°	4.6	5.6	7.0	8.8	10.8	11.8	13.1	15.1	18.4	21.5	24.6
72.5°	4.6	5.8	7.3	9.4	10.8	11.8	13.2	15.8	18.9	22.1	25.3
70°	4.6	6.0	7.7	9.9	10.7	11.8	13.4	16.2	19.4	22.6	26.2
67.5°	4.6	6.1	8.1	9.8	10.6	11.8	13.8	16.6	19.9	23.6	27.3
65°	4.6	6.3	8.4	9.6	10.5	12.0	14.3	16.9	20.6	24.4	28.6
62.5°	4.6	6.4	8.7	9.5	10.4	12.4	14.7	17.4	21.3	25.4	30.7
60°	4.6	6.6	9.0	9.3	10.2	12.8	15.1	18.0	22.0	27.1	32.6
57.5°	4.6	6.7	9.0	9.2	10.5	13.2	15.9	18.6	23.2	28.7	33.6
55°	4.6	6.9	8.9	9.0	10.8	13.5	16.6	19.4	24.4	30.0	34.2
52.5°	4.6	7.0	8.9	8.8	11.1	13.9	17.3	20.7	25.5	30.6	34.8
50°	4.6	7.1	8.9	8.6	11.4	14.6	18.1	22.1	26.4	31.2	33.8
47.5°	4.6	7.2	8.8	8.5	11.7	15.2	18.9	23.5	27.0	31.8	32.8
45°	4.6	7.3	8.8	8.7	11.9	15.9	20.1	24.8	28.4	31.1	31.9
42.5°	4.6	7.5	8.8	8.9	12.1	16.5	21.3	26.3	30.1	30.5	31.0
40°	4.6	7.6	8.9	9.2	12.5	17.1	22.4	27.8	31.7	30.2	30.3
37.5°	4.6	7.6	8.9	9.7	12.9	17.7	23.5	29.5	33.0	32.0	30.0
35°	4.6	7.7	9.0	10.2	13.4	18.5	24.6	31.3	34.8	34.5	32.2
32.5°	4.6	7.8	9.0	10.7	13.8	19.3	25.8	33.2	37.0	37.8	41.4
30°	4.6	7.9	9.1	11.2	14.2	20.1	27.3	35.2	39.6	41.7	50.7
27.5°	4.6	7.9	9.2	11.7	15.3	20.9	28.8	37.1	42.6	46.3	60.3
25°	4.6	8.0	9.3	12.3	16.6	21.6	30.3	39.3	46.3	53.4	71.0
22.5°	4.6	8.0	9.4	12.8	17.9	22.9	31.8	41.6	50.3	61.6	105.3
20°	4.6	8.1	9.5	13.4	19.3	25.8	33.2	44.0	54.6	69.6	141.6
17.5°	4.6	8.1	9.6	13.9	20.7	28.8	37.1	46.5	59.1	77.6	179.3
15°	4.6	8.1	9.7	14.5	22.1	31.9	42.5	51.6	63.7	85.4	217.5
12.5°	4.6	8.1	9.8	15.0	23.5	35.1	48.0	60.1	73.4	93.0	255.5
10°	4.6	8.1	9.9	15.5	24.9	38.4	53.6	68.7	87.3	115.8	305.6
7.5°	4.6	8.1	10.1	16.0	26.3	41.6	59.1	77.4	101.4	141.7	383.5
5°	4.6	8.1	10.2	16.5	27.6	44.8	64.5	86.0	115.5	167.9	461.1
2.5°	4.6	8.1	10.3	16.9	28.8	47.8	69.8	94.4	129.4	193.8	535.7
0°	4.6	8.1	10.4	17.3	30.0	50.7	74.9	102.6	142.9	219.0	605.1
-2.5°	4.6	8.2	11.2	19.9	35.8	61.6	94.3	134.7	193.4	300.6	712.2
-5°	4.6	8.4	11.9	22.3	41.5	72.1	113.2	165.9	242.5	379.3	810.0
-7.5°	4.6	8.5	12.6	24.7	46.9	82.2	131.3	195.8	289.5	453.6	897.2
-10°	4.6	8.6	13.3	27.0	52.1	91.7	148.3	224.1	333.5	522.0	972.5
-12.5°	4.6	8.7	13.9	29.1	56.8	100.5	164.0	250.2	373.9	580.8	1001.0
-15°	4.6	8.8	14.5	31.0	61.2	108.5	178.2	273.7	409.4	616.8	1005.4
-17.5°	4.6	8.9	15.1	32.7	65.0	115.6	190.5	296.1	439.9	647.5	1003.8
-20°	4.6	9.0	15.6	34.2	68.4	121.7	202.7	317.0	466.3	672.8	996.8



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV2

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	16.1	35.4	71.1	126.7	215.6	334.9	488.3	692.5	985.2
-25°	4.6	9.1	16.5	36.4	73.2	133.2	226.2	349.5	505.5	706.3	969.6
-27.5°	4.6	9.1	16.8	37.0	74.7	139.5	234.6	360.6	517.9	717.7	979.4
-30°	4.6	9.2	17.1	37.4	75.7	144.2	240.4	368.1	528.2	729.7	983.4
-32.5°	4.6	9.2	17.2	37.4	78.0	147.2	243.8	373.9	535.4	735.0	980.0
-35°	4.6	9.2	17.3	37.1	79.4	148.6	246.4	376.7	537.6	733.4	969.1
-37.5°	4.6	9.1	17.4	36.4	79.9	149.0	247.3	375.9	534.7	724.9	921.8
-40°	4.6	9.1	17.3	35.4	79.3	149.0	245.8	371.3	526.5	714.7	874.4
-42.5°	4.6	9.0	17.2	34.5	78.6	147.6	241.6	363.0	516.0	680.3	823.9
-45°	4.6	8.9	17.0	33.9	77.9	144.5	234.9	352.7	502.0	640.7	772.0
-47.5°	4.6	8.8	16.7	32.8	76.3	140.0	225.6	341.3	482.7	599.2	725.6
-50°	4.6	8.7	16.3	32.4	73.9	133.9	217.0	326.4	449.0	561.2	677.1
-52.5°	4.6	8.6	15.9	32.1	70.7	126.3	206.8	308.2	417.3	521.6	627.4
-55°	4.6	8.4	15.3	31.4	66.8	119.8	194.4	287.4	385.6	480.4	581.8
-57.5°	4.6	8.3	14.7	30.3	62.0	112.7	180.0	268.4	352.4	441.7	534.6
-60°	4.6	8.1	14.1	28.8	56.7	104.4	164.3	244.6	318.8	402.6	487.5
-62.5°	4.6	7.9	13.6	27.0	52.9	95.1	151.0	218.3	287.6	362.1	442.3
-65°	4.6	7.7	13.0	24.9	48.5	84.7	136.2	192.6	254.7	322.8	395.5
-67.5°	4.6	7.5	12.4	22.5	43.6	74.9	120.1	169.9	220.3	282.5	348.3
-70°	4.6	7.3	11.8	19.8	38.1	65.7	102.8	146.1	190.8	240.5	299.6
-72.5°	4.6	7.0	11.1	18.1	32.2	55.7	87.4	121.3	160.2	203.4	250.6
-75°	4.6	6.8	10.4	16.6	25.9	45.1	71.5	98.8	128.5	165.0	205.1
-77.5°	4.6	6.5	9.7	15.0	22.3	34.0	54.8	76.7	100.7	127.3	158.1
-80°	4.6	6.3	8.9	13.3	19.3	26.9	37.4	54.2	72.9	93.6	116.2
-82.5°	4.6	6.0	8.2	11.5	16.1	22.0	29.0	35.8	44.4	59.2	75.5
-85°	4.6	5.8	7.4	9.7	12.9	16.9	21.7	26.4	31.4	37.0	43.0
-87.5°	4.6	5.5	6.6	7.9	9.6	11.8	14.3	16.8	19.5	22.5	25.6
-90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



REPORT NUMBER: P731327 (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°
90°	8.4	8.7	8.9	9.2	9.5	9.8	10.1	10.4	11.0	11.6	12.1
87.5°	7.4	7.8	8.2	8.6	7.8	7.0	6.1	5.1	5.4	5.7	6.0
85°	10.2	10.9	11.9	12.7	12.1	11.6	11.3	11.0	11.6	12.1	12.5
82.5°	15.4	16.4	17.1	17.4	17.7	18.3	19.2	21.3	22.6	23.3	23.7
80°	21.2	22.0	22.6	24.2	26.9	30.2	33.9	38.0	39.2	39.0	38.2
77.5°	24.8	26.2	29.0	32.9	37.4	42.0	47.2	52.7	54.2	53.5	52.4
75°	26.9	30.1	34.6	40.2	46.1	52.3	58.9	65.0	66.5	64.5	62.2
72.5°	28.7	33.5	39.5	46.8	53.6	60.0	66.7	73.7	76.4	73.1	68.9
70°	30.4	36.4	43.7	51.5	59.2	66.0	72.6	80.1	85.0	78.9	69.6
67.5°	31.8	39.3	47.3	55.3	61.9	68.7	76.6	79.9	81.7	71.9	61.9
65°	34.0	42.0	49.1	55.9	62.8	66.1	68.8	71.2	70.2	59.2	48.5
62.5°	36.1	42.6	49.3	54.7	56.9	58.9	58.6	56.2	52.6	45.8	37.5
60°	36.9	42.5	47.3	49.6	50.4	48.6	45.8	43.7	40.6	34.7	29.2
57.5°	37.3	40.6	43.3	43.9	41.9	39.0	37.9	34.9	32.6	28.9	23.9
55°	37.0	37.5	38.8	37.3	35.6	34.5	32.8	31.9	28.7	25.2	21.5
52.5°	35.5	34.9	33.7	33.0	33.5	33.3	32.7	31.0	28.2	24.7	22.6
50°	34.1	32.0	30.1	32.7	35.1	37.0	34.0	32.2	32.1	30.5	27.1
47.5°	32.3	29.6	31.2	35.2	41.9	44.3	40.1	40.1	41.4	44.7	40.7
45°	30.7	31.7	34.3	44.2	52.3	56.1	56.7	52.2	63.3	67.0	65.9
42.5°	29.6	36.1	47.9	54.8	68.0	76.1	79.3	85.8	92.4	100.4	102.5
40°	33.9	41.9	68.5	80.2	88.4	102.2	118.9	129.8	131.8	144.0	149.4
37.5°	39.5	65.3	96.6	116.8	116.3	140.3	165.4	191.6	206.3	194.7	221.5
35°	45.9	92.7	137.0	166.6	174.1	189.0	233.1	283.2	331.7	303.4	317.2
32.5°	64.9	124.2	184.4	229.6	273.6	283.6	310.9	447.0	535.0	536.5	465.7
30°	96.0	168.4	240.8	302.6	404.4	451.0	494.6	663.6	811.7	907.0	927.3
27.5°	134.9	219.0	309.8	421.0	565.3	649.5	790.8	972.3	1205.3	1379.7	1500.3
25°	178.7	297.2	385.2	570.9	757.3	912.0	1110.4	1360.2	1687.0	1966.6	2227.6
22.5°	234.9	388.0	504.9	738.7	970.1	1195.9	1471.5	1830.5	2246.3	2610.0	2979.8
20°	305.7	491.2	661.0	945.7	1212.2	1483.9	1837.5	2336.8	2863.1	3377.1	3857.1
17.5°	382.4	599.8	835.8	1182.3	1542.8	1850.0	2220.3	2862.5	3512.6	4218.5	4917.5
15°	463.1	712.4	1009.1	1440.3	1897.7	2316.0	2805.7	3460.0	4233.0	5138.5	6040.3
12.5°	545.9	827.1	1179.1	1713.5	2267.9	2790.6	3414.1	4160.6	5048.1	6121.9	7215.4
10°	628.9	941.9	1344.0	1994.5	2646.2	3267.4	4007.1	4837.0	5851.8	7058.3	8295.3
7.5°	779.3	1092.6	1515.1	2275.6	3024.7	3739.5	4579.5	5484.6	6612.9	7954.2	9307.2
5°	939.9	1278.3	1748.3	2570.5	3382.2	4153.8	5094.3	6097.3	7325.5	8797.9	10265.1
2.5°	1095.9	1457.0	1970.9	2845.9	3710.8	4469.7	5440.4	6495.1	7795.9	9387.0	10992.6
0°	1242.4	1627.3	2180.5	3095.6	4012.9	4755.1	5747.4	6849.2	8167.6	9808.7	11498.3
-2.5°	1374.7	1783.0	2356.9	3248.3	4106.2	4825.7	5825.0	6930.0	8234.0	9810.3	11372.2
-5°	1491.1	1928.0	2516.7	3375.8	4175.9	4872.6	5861.9	6962.5	8241.4	9739.7	11198.0
-7.5°	1590.2	2061.6	2658.9	3467.5	4213.0	4910.1	5869.8	6950.9	8197.9	9611.5	10992.4
-10°	1656.3	2116.7	2667.8	3443.7	4202.8	4925.2	5842.9	6895.3	8095.9	9429.5	10737.5
-12.5°	1613.6	2096.3	2636.1	3390.7	4167.7	4905.7	5780.4	6797.6	7937.4	9204.1	10436.5
-15°	1565.1	2062.5	2584.4	3307.5	4107.9	4849.2	5684.0	6660.3	7665.4	8835.0	10051.0
-17.5°	1513.5	2014.7	2512.1	3193.3	4023.5	4753.9	5505.6	6298.2	7220.4	8367.5	9568.7
-20°	1461.0	1952.5	2418.6	3047.8	3907.6	4511.5	5126.8	5863.7	6738.1	7805.9	9008.4



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1409.8	1875.4	2320.0	2919.9	3598.9	4168.7	4724.7	5387.8	6181.9	7148.2	8202.0
-25°	1371.1	1795.5	2224.6	2710.7	3274.4	3820.5	4293.2	4881.1	5603.4	6430.0	7263.7
-27.5°	1341.2	1724.7	2089.5	2504.4	2969.5	3469.5	3889.3	4394.0	5074.2	5736.2	6379.6
-30°	1309.3	1631.0	1952.7	2314.1	2725.2	3139.8	3504.0	3996.6	4601.8	5173.1	5685.2
-32.5°	1247.7	1531.9	1832.8	2158.6	2503.3	2844.9	3226.1	3692.7	4198.5	4689.8	5100.6
-35°	1174.8	1438.9	1717.4	2004.9	2296.1	2626.5	3006.1	3406.3	3834.4	4278.5	4746.7
-37.5°	1113.7	1342.1	1598.7	1862.6	2131.4	2439.1	2778.8	3146.2	3525.7	3922.9	4381.2
-40°	1047.9	1241.8	1485.8	1730.3	1977.8	2254.6	2566.7	2892.7	3232.8	3608.9	4005.6
-42.5°	979.4	1164.1	1373.0	1595.4	1827.6	2075.5	2347.1	2650.1	2962.7	3293.1	3647.5
-45°	920.5	1082.4	1261.8	1468.9	1675.4	1894.8	2140.1	2404.2	2697.5	2991.6	3300.1
-47.5°	858.5	1001.1	1167.7	1340.4	1530.2	1724.5	1930.0	2178.7	2432.1	2701.7	2968.9
-50°	796.6	930.1	1069.9	1229.1	1391.8	1562.2	1742.4	1964.8	2197.2	2424.0	2658.2
-52.5°	741.1	856.3	987.5	1122.6	1267.6	1415.4	1582.5	1776.0	1980.8	2182.7	2391.3
-55°	683.7	791.6	907.1	1028.8	1153.2	1284.6	1438.4	1610.8	1779.3	1967.1	2153.8
-57.5°	629.3	728.8	833.9	941.3	1053.1	1166.7	1314.7	1458.0	1614.4	1770.4	1932.3
-60°	576.2	668.3	764.7	862.1	959.0	1072.9	1198.5	1331.9	1465.1	1597.7	1749.2
-62.5°	522.4	610.5	698.2	786.7	876.7	982.3	1102.0	1219.6	1333.0	1459.3	1587.8
-65°	471.0	551.4	634.3	715.9	795.9	898.3	1006.2	1117.4	1227.7	1333.7	1442.8
-67.5°	417.7	491.0	567.4	646.0	722.8	811.6	908.1	1009.3	1112.2	1209.8	1309.8
-70°	361.8	427.8	496.7	568.0	642.5	721.6	804.1	892.8	983.9	1070.1	1157.2
-72.5°	303.5	360.7	421.7	486.1	550.9	618.8	691.1	767.2	841.8	914.1	989.3
-75°	246.8	291.6	342.6	396.9	452.1	509.4	569.8	631.9	691.8	750.5	811.0
-77.5°	191.1	226.6	265.2	306.8	348.2	392.7	439.9	489.4	536.0	581.7	628.1
-80°	137.8	160.1	188.4	219.2	250.3	282.1	314.7	347.9	377.7	409.0	442.7
-82.5°	90.8	106.8	123.6	141.2	158.8	177.1	196.9	220.4	240.1	259.5	279.0
-85°	47.9	52.9	63.1	73.8	84.1	94.8	106.0	117.4	127.6	137.4	146.6
-87.5°	28.2	30.8	33.5	36.3	38.6	40.9	43.2	45.4	48.5	51.7	54.8
-90°	4.6	4.6	4.6	4.6	4.3	4.1	3.8	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°	12.7	13.3	13.9	14.4	15.0	15.3	15.6	15.8	16.1	16.4	16.7
87.5°	6.3	6.1	6.0	5.8	5.6	6.9	8.3	9.7	11.2	10.2	9.1
85°	12.8	12.8	12.7	12.5	12.3	14.2	16.2	18.1	20.0	18.3	16.5
82.5°	23.6	23.2	22.3	21.2	19.8	19.6	19.2	18.6	17.7	16.9	16.2
80°	37.1	35.4	33.2	30.5	27.5	25.8	24.2	22.4	20.4	19.8	19.4
77.5°	50.3	46.9	43.0	38.7	34.1	31.2	28.6	25.9	23.0	22.2	21.7
75°	59.4	55.2	49.3	43.1	36.6	32.3	29.1	25.9	22.7	21.6	20.9
72.5°	63.6	57.4	50.2	41.9	34.0	28.8	25.6	22.6	19.9	18.7	18.2
70°	60.4	51.6	43.4	35.5	28.1	23.2	20.8	18.9	17.2	16.4	15.9
67.5°	51.5	42.5	34.7	27.8	22.1	18.3	17.1	15.9	14.9	14.3	14.1
65°	39.9	33.0	27.0	22.1	18.1	15.6	14.6	13.6	12.7	12.1	11.9
62.5°	30.3	24.9	21.0	17.9	15.4	13.7	13.0	12.3	11.8	11.4	11.2
60°	24.2	19.7	17.2	15.6	14.2	12.9	12.7	12.6	12.4	12.2	11.7
57.5°	20.7	17.9	16.1	15.7	15.1	14.2	14.0	13.9	13.5	12.7	12.2
55°	19.8	19.1	18.3	18.6	18.6	17.9	16.9	16.2	15.5	14.9	15.0
52.5°	22.0	23.5	24.4	24.3	23.1	21.4	19.4	19.6	20.0	20.3	20.7
50°	29.5	31.3	31.3	28.7	28.6	27.6	25.2	26.3	27.7	28.1	28.3
47.5°	40.9	42.7	43.9	39.4	40.1	42.6	40.0	39.3	44.1	46.3	47.4
45°	59.6	66.9	69.0	70.4	68.4	74.7	74.8	71.8	81.3	86.5	88.2
42.5°	99.3	111.6	121.3	124.2	121.9	129.8	135.8	135.4	147.3	155.8	158.0
40°	166.1	177.7	191.7	196.9	199.2	206.4	221.7	231.5	243.5	256.7	263.4
37.5°	251.9	270.1	273.0	283.6	297.0	303.8	327.1	346.9	363.2	388.0	403.9
35°	377.6	425.6	373.8	398.4	432.4	436.3	457.5	503.3	514.8	558.1	582.1
32.5°	609.4	698.8	687.1	603.9	677.0	760.0	667.6	832.0	817.3	863.5	922.3
30°	961.7	1221.8	1250.7	1129.0	1332.0	1442.2	1424.5	1588.3	1693.2	1680.2	1884.0
27.5°	1715.7	1924.3	2019.0	2193.7	2303.3	2465.7	2751.7	2918.4	3218.1	3375.3	3563.9
25°	2531.8	2778.4	3082.7	3383.1	3611.3	3971.3	4372.7	4688.3	5112.4	5378.4	5572.4
22.5°	3413.9	3849.5	4273.2	4691.6	5152.3	5648.1	6121.6	6668.4	7184.6	7565.8	7854.0
20°	4381.0	4983.8	5583.1	6157.6	6732.2	7395.2	7981.6	8638.7	9272.8	9824.0	10203.7
17.5°	5576.5	6206.8	6972.2	7740.8	8485.3	9306.3	10172.3	10909.1	11798.3	12532.7	13085.1
15°	6878.6	7667.9	8503.2	9464.6	10470.0	11485.9	12536.3	13619.6	14631.8	15570.7	16274.0
12.5°	8223.1	9205.6	10223.4	11287.9	12453.8	13718.0	15037.9	16327.3	17578.9	18610.9	19575.8
10°	9514.7	10742.6	11923.6	13170.9	14513.5	15927.8	17473.4	19009.2	20463.9	21735.2	22773.6
7.5°	10646.4	11979.4	13341.9	14871.4	16465.0	18049.9	19724.5	21447.3	23103.0	24568.3	25782.2
5°	11710.2	13100.9	14481.3	16126.8	17885.0	19703.8	21599.7	23535.0	25322.5	26979.1	28323.5
2.5°	12539.6	14002.4	15421.8	17226.1	19081.3	20933.6	22866.9	24982.9	26976.7	28777.6	30096.7
0°	13046.0	14490.1	15861.5	17797.7	19706.2	21650.4	23782.5	26034.5	28134.3	29859.5	31144.5
-2.5°	12870.9	14279.8	15767.6	17669.6	19687.1	21631.7	23788.5	26061.2	28147.3	29900.5	31155.4
-5°	12630.4	14011.7	15517.5	17420.5	19389.6	21331.9	23458.3	25693.3	27742.2	29466.9	30655.3
-7.5°	12334.7	13667.9	15136.2	16981.8	18940.0	20884.6	22954.6	25069.2	27028.7	28743.1	29861.4
-10°	11985.2	13249.0	14701.7	16476.8	18420.0	20294.5	22261.4	24355.8	26322.2	27881.3	29081.7
-12.5°	11622.5	12853.8	14202.8	15882.3	17742.6	19485.4	21363.3	23380.1	25112.6	26707.0	27761.8
-15°	11207.3	12388.1	13653.0	15201.1	16887.1	18518.3	20149.5	21928.1	23508.9	24926.7	26047.5
-17.5°	10726.6	11845.4	12955.5	14347.5	15961.8	17418.7	18846.9	20395.7	21801.1	23102.8	24073.1
-20°	10062.8	10983.4	12050.1	13381.7	14780.1	16009.1	17312.2	18613.1	19864.3	20966.2	21787.9



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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°	9111.8	10007.6	10995.8	12085.0	13255.0	14383.8	15499.2	16563.7	17581.6	18498.6	19159.9
-25°	8099.6	8917.8	9809.8	10715.2	11649.4	12660.6	13639.0	14517.6	15354.7	16063.2	16607.9
-27.5°	7093.9	7867.7	8647.6	9378.2	10125.5	10970.1	11826.3	12562.0	13271.0	13825.9	14250.7
-30°	6195.6	7022.8	7709.5	8206.7	8930.8	9671.8	10227.0	10896.3	11454.8	11808.9	12265.4
-32.5°	5700.6	6324.5	6947.1	7458.2	8033.6	8683.8	9209.5	9756.3	10227.7	10608.3	10895.3
-35°	5249.0	5797.3	6323.4	6849.2	7363.0	7885.2	8369.8	8831.4	9249.4	9586.0	9852.0
-37.5°	4843.4	5317.9	5794.2	6247.8	6709.3	7145.9	7561.8	7959.9	8311.4	8614.8	8865.5
-40°	4433.8	4857.7	5276.6	5686.8	6090.4	6446.7	6804.4	7133.3	7430.0	7698.4	7917.6
-42.5°	4022.6	4400.9	4767.7	5139.8	5497.9	5807.2	6102.5	6374.4	6628.8	6857.6	7046.7
-45°	3618.3	3952.4	4275.6	4605.9	4907.9	5189.8	5447.2	5676.2	5894.8	6087.6	6246.5
-47.5°	3253.9	3526.0	3814.4	4096.4	4358.5	4612.4	4837.5	5039.0	5230.8	5394.1	5523.8
-50°	2915.2	3163.6	3406.8	3635.3	3880.2	4102.8	4293.3	4479.0	4653.3	4799.0	4908.5
-52.5°	2596.8	2826.0	3044.6	3257.8	3470.3	3668.4	3851.2	4020.9	4173.3	4306.8	4401.6
-55°	2344.7	2532.0	2709.1	2914.2	3109.3	3285.4	3449.0	3613.9	3760.7	3890.4	3969.6
-57.5°	2106.0	2275.0	2443.6	2621.0	2792.6	2958.0	3113.3	3257.8	3393.1	3514.5	3582.7
-60°	1893.1	2029.5	2189.8	2353.4	2508.9	2656.6	2802.5	2938.0	3063.7	3169.3	3229.6
-62.5°	1714.7	1844.3	1979.9	2116.5	2251.2	2388.6	2520.9	2646.8	2766.1	2862.4	2920.9
-65°	1557.3	1674.7	1793.3	1914.3	2037.0	2157.9	2270.6	2381.2	2489.1	2571.5	2624.3
-67.5°	1409.3	1510.2	1609.9	1712.9	1818.5	1922.9	2022.3	2120.3	2216.3	2282.9	2324.2
-70°	1247.0	1336.1	1421.9	1508.6	1594.9	1679.8	1761.9	1843.8	1924.8	1978.2	2013.6
-72.5°	1067.1	1141.6	1211.2	1280.5	1351.0	1420.7	1488.3	1554.0	1617.4	1658.7	1689.3
-75°	872.9	929.7	983.8	1038.4	1093.0	1149.7	1205.5	1258.9	1309.9	1340.9	1364.6
-77.5°	675.1	715.3	753.5	791.9	830.3	874.2	918.6	961.7	1003.2	1025.1	1041.4
-80°	476.7	504.9	531.0	555.9	579.6	607.6	635.7	663.0	689.2	701.7	710.9
-82.5°	298.6	315.1	330.6	345.3	359.2	374.2	388.4	401.6	413.9	419.9	424.4
-85°	155.4	162.5	169.2	175.3	181.0	187.9	194.4	200.5	206.1	207.9	209.1
-87.5°	58.0	60.2	62.2	64.3	66.2	68.8	71.4	73.8	76.3	76.9	77.5
-90°	3.5	3.5	3.5	3.5	3.5	3.2	2.9	2.6	2.3	2.3	2.3



REPORT NUMBER: P731327 (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°
90°	17.0	17.3	17.3	17.3	17.3	17.3	17.0	16.7	16.4	16.1	15.8
87.5°	8.0	6.9	6.3	5.8	6.3	6.9	8.0	9.1	10.2	11.2	9.7
85°	14.6	12.7	12.1	11.5	12.1	12.7	14.6	16.5	18.3	20.0	18.1
82.5°	15.6	15.0	15.0	15.0	15.0	15.0	15.6	16.2	16.9	17.7	18.6
80°	18.9	18.4	18.4	18.4	18.4	18.4	18.9	19.4	19.8	20.4	22.4
77.5°	21.2	20.7	20.7	20.7	20.7	20.7	21.2	21.7	22.2	23.0	25.9
75°	20.3	19.7	19.6	19.6	19.6	19.7	20.3	20.9	21.6	22.7	25.9
72.5°	17.8	17.4	17.3	17.3	17.3	17.4	17.8	18.2	18.7	19.9	22.6
70°	15.5	15.1	15.0	15.0	15.0	15.1	15.5	15.9	16.4	17.2	18.9
67.5°	13.9	13.8	13.8	13.8	13.8	13.8	13.9	14.1	14.3	14.9	15.9
65°	11.7	11.6	11.5	11.5	11.5	11.6	11.7	11.9	12.1	12.7	13.6
62.5°	10.9	10.5	9.9	9.2	9.9	10.5	10.9	11.2	11.4	11.8	12.3
60°	11.2	10.6	10.4	10.4	10.4	10.6	11.2	11.7	12.2	12.4	12.6
57.5°	11.9	11.6	11.5	11.5	11.5	11.6	11.9	12.2	12.7	13.5	13.9
55°	15.0	14.9	14.9	15.0	14.9	14.9	15.0	15.0	14.9	15.5	16.2
52.5°	20.8	20.6	20.6	20.7	20.6	20.6	20.8	20.7	20.3	20.0	19.6
50°	28.6	28.6	28.3	27.7	28.3	28.6	28.6	28.3	28.1	27.7	26.3
47.5°	48.1	47.4	46.5	46.1	46.5	47.4	48.1	47.4	46.3	44.1	39.3
45°	90.3	89.6	88.3	87.6	88.3	89.6	90.3	88.2	86.5	81.3	71.8
42.5°	161.7	160.4	157.3	155.6	157.3	160.4	161.7	158.0	155.8	147.3	135.4
40°	271.0	272.4	270.1	268.5	270.1	272.4	271.0	263.4	256.7	243.5	231.5
37.5°	416.5	422.6	421.8	419.5	421.8	422.6	416.5	403.9	388.0	363.2	346.9
35°	593.1	599.8	596.4	595.8	596.4	599.8	593.1	582.1	558.1	514.8	503.3
32.5°	878.1	868.2	831.1	841.3	831.1	868.2	878.1	922.3	863.5	817.3	832.0
30°	1897.7	1934.2	1830.2	1747.2	1830.2	1934.2	1897.7	1884.0	1680.2	1693.2	1588.3
27.5°	3582.5	3661.2	3646.5	3731.7	3646.5	3661.2	3582.5	3563.9	3375.3	3218.1	2918.4
25°	5648.5	5700.7	5704.0	5550.3	5704.0	5700.7	5648.5	5572.4	5378.4	5112.4	4688.3
22.5°	7960.7	8011.0	8102.8	8103.1	8102.8	8011.0	7960.7	7854.0	7565.8	7184.6	6668.4
20°	10467.6	10476.8	10652.3	10665.0	10652.3	10476.8	10467.6	10203.7	9824.0	9272.8	8638.7
17.5°	13473.9	13620.1	13857.3	13719.1	13857.3	13620.1	13473.9	13085.1	12532.7	11798.3	10909.1
15°	16939.5	17266.2	17519.8	17405.9	17519.8	17266.2	16939.5	16274.0	15570.7	14631.8	13619.6
12.5°	20343.0	20857.9	21103.0	21043.1	21103.0	20857.9	20343.0	19575.8	18610.9	17578.9	16327.3
10°	23582.6	24307.3	24567.7	24659.6	24567.7	24307.3	23582.6	22773.6	21735.2	20463.9	19009.2
7.5°	26688.3	27352.4	27747.2	27582.3	27747.2	27352.4	26688.3	25782.2	24568.3	23103.0	21447.3
5°	29181.0	29741.9	30060.7	29947.1	30060.7	29741.9	29181.0	28323.5	26979.1	25322.5	23535.0
2.5°	30946.2	31470.0	31746.3	31607.3	31746.3	31470.0	30946.2	30096.7	28777.6	26976.7	24982.9
0°	31954.7	32488.3	32801.2	32823.7	32801.2	32488.3	31954.7	31144.5	29859.5	28134.3	26034.5
-2.5°	31915.4	32292.3	32512.2	32400.2	32512.2	32292.3	31915.4	31155.4	29900.5	28147.3	26061.2
-5°	31247.2	31565.5	31679.7	31630.9	31679.7	31565.5	31247.2	30655.3	29466.9	27742.2	25693.3
-7.5°	30422.9	30657.7	30736.1	30677.8	30736.1	30657.7	30422.9	29861.4	28743.1	27028.7	25069.2
-10°	29625.5	29860.0	29899.8	29866.5	29899.8	29860.0	29625.5	29081.7	27881.3	26322.2	24355.8
-12.5°	28464.4	28718.6	28726.8	28649.4	28726.8	28718.6	28464.4	27761.8	26707.0	25112.6	23380.1
-15°	26653.5	26861.4	26894.9	26851.6	26894.9	26861.4	26653.5	26047.5	24926.7	23508.9	21928.1
-17.5°	24640.7	24778.4	24927.5	25094.0	24927.5	24778.4	24640.7	24073.1	23102.8	21801.1	20395.7
-20°	22224.0	22388.7	22564.7	22751.1	22564.7	22388.7	22224.0	21787.9	20966.2	19864.3	18613.1



REPORT NUMBER: P731327 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	19508.0	19693.0	19873.5	19967.8	19873.5	19693.0	19508.0	19159.9	18498.6	17581.6	16563.7
-25°	16880.7	17106.0	17248.6	17334.4	17248.6	17106.0	16880.7	16607.9	16063.2	15354.7	14517.6
-27.5°	14472.2	14739.3	14870.8	14926.9	14870.8	14739.3	14472.2	14250.7	13825.9	13271.0	12562.0
-30°	12443.6	12607.7	12630.4	12715.3	12630.4	12607.7	12443.6	12265.4	11808.9	11454.8	10896.3
-32.5°	11106.2	11288.4	11399.1	11492.5	11399.1	11288.4	11106.2	10895.3	10608.3	10227.7	9756.3
-35°	10058.4	10223.4	10332.1	10376.9	10332.1	10223.4	10058.4	9852.0	9586.0	9249.4	8831.4
-37.5°	9054.1	9178.8	9254.7	9315.5	9254.7	9178.8	9054.1	8865.5	8614.8	8311.4	7959.9
-40°	8085.8	8209.5	8284.6	8304.8	8284.6	8209.5	8085.8	7917.6	7698.4	7430.0	7133.3
-42.5°	7182.1	7277.3	7342.7	7387.4	7342.7	7277.3	7182.1	7046.7	6857.6	6628.8	6374.4
-45°	6363.7	6447.6	6505.8	6541.5	6505.8	6447.6	6363.7	6246.5	6087.6	5894.8	5676.2
-47.5°	5619.3	5686.8	5733.1	5760.1	5733.1	5686.8	5619.3	5523.8	5394.1	5230.8	5039.0
-50°	4990.1	5050.5	5093.3	5119.3	5093.3	5050.5	4990.1	4908.5	4799.0	4653.3	4479.0
-52.5°	4475.6	4534.3	4577.4	4605.3	4577.4	4534.3	4475.6	4401.6	4306.8	4173.3	4020.9
-55°	4035.4	4089.3	4128.3	4153.5	4128.3	4089.3	4035.4	3969.6	3890.4	3760.7	3613.9
-57.5°	3640.6	3688.2	3721.3	3742.1	3721.3	3688.2	3640.6	3582.7	3514.5	3393.1	3257.8
-60°	3281.0	3323.9	3354.3	3375.6	3354.3	3323.9	3281.0	3229.6	3169.3	3063.7	2938.0
-62.5°	2972.8	3017.9	3042.0	3055.2	3042.0	3017.9	2972.8	2920.9	2862.4	2766.1	2646.8
-65°	2672.8	2716.3	2739.8	2753.3	2739.8	2716.3	2672.8	2624.3	2571.5	2489.1	2381.2
-67.5°	2360.7	2392.1	2415.9	2434.0	2415.9	2392.1	2360.7	2324.2	2282.9	2216.3	2120.3
-70°	2044.0	2069.4	2070.2	2062.9	2070.2	2069.4	2044.0	2013.6	1978.2	1924.8	1843.8
-72.5°	1715.8	1738.0	1743.8	1743.7	1743.8	1738.0	1715.8	1689.3	1658.7	1617.4	1554.0
-75°	1385.2	1402.2	1413.6	1421.0	1413.6	1402.2	1385.2	1364.6	1340.9	1309.9	1258.9
-77.5°	1054.8	1065.0	1074.6	1081.0	1074.6	1065.0	1054.8	1041.4	1025.1	1003.2	961.7
-80°	717.9	722.7	723.8	722.6	723.8	722.7	717.9	710.9	701.7	689.2	663.0
-82.5°	427.7	429.7	427.6	424.1	427.6	429.7	427.7	424.4	419.9	413.9	401.6
-85°	209.8	209.9	209.5	208.6	209.5	209.9	209.8	209.1	207.9	206.1	200.5
-87.5°	77.9	78.2	79.5	80.7	79.5	78.2	77.9	77.5	76.9	76.3	73.8
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.6



REPORT NUMBER: P731327 (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°
90°	15.6	15.3	15.0	14.4	13.9	13.3	12.7	12.1	11.6	11.0	10.4
87.5°	8.3	6.9	5.6	5.8	6.0	6.1	6.3	6.0	5.7	5.4	5.1
85°	16.2	14.2	12.3	12.5	12.7	12.8	12.8	12.5	12.1	11.6	11.0
82.5°	19.2	19.6	19.8	21.2	22.3	23.2	23.6	23.7	23.3	22.6	21.3
80°	24.2	25.8	27.5	30.5	33.2	35.4	37.1	38.2	39.0	39.2	38.0
77.5°	28.6	31.2	34.1	38.7	43.0	46.9	50.3	52.4	53.5	54.2	52.7
75°	29.1	32.3	36.6	43.1	49.3	55.2	59.4	62.2	64.5	66.5	65.0
72.5°	25.6	28.8	34.0	41.9	50.2	57.4	63.6	68.9	73.1	76.4	73.7
70°	20.8	23.2	28.1	35.5	43.4	51.6	60.4	69.6	78.9	85.0	80.1
67.5°	17.1	18.3	22.1	27.8	34.7	42.5	51.5	61.9	71.9	81.7	79.9
65°	14.6	15.6	18.1	22.1	27.0	33.0	39.9	48.5	59.2	70.2	71.2
62.5°	13.0	13.7	15.4	17.9	21.0	24.9	30.3	37.5	45.8	52.6	56.2
60°	12.7	12.9	14.2	15.6	17.2	19.7	24.2	29.2	34.7	40.6	43.7
57.5°	14.0	14.2	15.1	15.7	16.1	17.9	20.7	23.9	28.9	32.6	34.9
55°	16.9	17.9	18.6	18.6	18.3	19.1	19.8	21.5	25.2	28.7	31.9
52.5°	19.4	21.4	23.1	24.3	24.4	23.5	22.0	22.6	24.7	28.2	31.0
50°	25.2	27.6	28.6	28.7	31.3	31.3	29.5	27.1	30.5	32.1	32.2
47.5°	40.0	42.6	40.1	39.4	43.9	42.7	40.9	40.7	44.7	41.4	40.1
45°	74.8	74.7	68.4	70.4	69.0	66.9	59.6	65.9	67.0	63.3	52.2
42.5°	135.8	129.8	121.9	124.2	121.3	111.6	99.3	102.5	100.4	92.4	85.8
40°	221.7	206.4	199.2	196.9	191.7	177.7	166.1	149.4	144.0	131.8	129.8
37.5°	327.1	303.8	297.0	283.6	273.0	270.1	251.9	221.5	194.7	206.3	191.6
35°	457.5	436.3	432.4	398.4	373.8	425.6	377.6	317.2	303.4	331.7	283.2
32.5°	667.6	760.0	677.0	603.9	687.1	698.8	609.4	465.7	536.5	535.0	447.0
30°	1424.5	1442.2	1332.0	1129.0	1250.7	1221.8	961.7	927.3	907.0	811.7	663.6
27.5°	2751.7	2465.7	2303.3	2193.7	2019.0	1924.3	1715.7	1500.3	1379.7	1205.3	972.3
25°	4372.7	3971.3	3611.3	3383.1	3082.7	2778.4	2531.8	2227.6	1966.6	1687.0	1360.2
22.5°	6121.6	5648.1	5152.3	4691.6	4273.2	3849.5	3413.9	2979.8	2610.0	2246.3	1830.5
20°	7981.6	7395.2	6732.2	6157.6	5583.1	4983.8	4381.0	3857.1	3377.1	2863.1	2336.8
17.5°	10172.3	9306.3	8485.3	7740.8	6972.2	6206.8	5576.5	4917.5	4218.5	3512.6	2862.5
15°	12536.3	11485.9	10470.0	9464.6	8503.2	7667.9	6878.6	6040.3	5138.5	4233.0	3460.0
12.5°	15037.9	13718.0	12453.8	11287.9	10223.4	9205.6	8223.1	7215.4	6121.9	5048.1	4160.6
10°	17473.4	15927.8	14513.5	13170.9	11923.6	10742.6	9514.7	8295.3	7058.3	5851.8	4837.0
7.5°	19724.5	18049.9	16465.0	14871.4	13341.9	11979.4	10646.4	9307.2	7954.2	6612.9	5484.6
5°	21599.7	19703.8	17885.0	16126.8	14481.3	13100.9	11710.2	10265.1	8797.9	7325.5	6097.3
2.5°	22866.9	20933.6	19081.3	17226.1	15421.8	14002.4	12539.6	10992.6	9387.0	7795.9	6495.1
0°	23782.5	21650.4	19706.2	17797.7	15861.5	14490.1	13046.0	11498.3	9808.7	8167.6	6849.2
-2.5°	23788.5	21631.7	19687.1	17669.6	15767.6	14279.8	12870.9	11372.2	9810.3	8234.0	6930.0
-5°	23458.3	21331.9	19389.6	17420.5	15517.5	14011.7	12630.4	11198.0	9739.7	8241.4	6962.5
-7.5°	22954.6	20884.6	18940.0	16981.8	15136.2	13667.9	12334.7	10992.4	9611.5	8197.9	6950.9
-10°	22261.4	20294.5	18420.0	16476.8	14701.7	13249.0	11985.2	10737.5	9429.5	8095.9	6895.3
-12.5°	21363.3	19485.4	17742.6	15882.3	14202.8	12853.8	11622.5	10436.5	9204.1	7937.4	6797.6
-15°	20149.5	18518.3	16887.1	15201.1	13653.0	12388.1	11207.3	10051.0	8835.0	7665.4	6660.3
-17.5°	18846.9	17418.7	15961.8	14347.5	12955.5	11845.4	10726.6	9568.7	8367.5	7220.4	6298.2
-20°	17312.2	16009.1	14780.1	13381.7	12050.1	10983.4	10062.8	9008.4	7805.9	6738.1	5863.7



REPORT NUMBER: P731327 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV2

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	15499.2	14383.8	13255.0	12085.0	10995.8	10007.6	9111.8	8202.0	7148.2	6181.9	5387.8
-25°	13639.0	12660.6	11649.4	10715.2	9809.8	8917.8	8099.6	7263.7	6430.0	5603.4	4881.1
-27.5°	11826.3	10970.1	10125.5	9378.2	8647.6	7867.7	7093.9	6379.6	5736.2	5074.2	4394.0
-30°	10227.0	9671.8	8930.8	8206.7	7709.5	7022.8	6195.6	5685.2	5173.1	4601.8	3996.6
-32.5°	9209.5	8683.8	8033.6	7458.2	6947.1	6324.5	5700.6	5100.6	4689.8	4198.5	3692.7
-35°	8369.8	7885.2	7363.0	6849.2	6323.4	5797.3	5249.0	4746.7	4278.5	3834.4	3406.3
-37.5°	7561.8	7145.9	6709.3	6247.8	5794.2	5317.9	4843.4	4381.2	3922.9	3525.7	3146.2
-40°	6804.4	6446.7	6090.4	5686.8	5276.6	4857.7	4433.8	4005.6	3608.9	3232.8	2892.7
-42.5°	6102.5	5807.2	5497.9	5139.8	4767.7	4400.9	4022.6	3647.5	3293.1	2962.7	2650.1
-45°	5447.2	5189.8	4907.9	4605.9	4275.6	3952.4	3618.3	3300.1	2991.6	2697.5	2404.2
-47.5°	4837.5	4612.4	4358.5	4096.4	3814.4	3526.0	3253.9	2968.9	2701.7	2432.1	2178.7
-50°	4293.3	4102.8	3880.2	3635.3	3406.8	3163.6	2915.2	2658.2	2424.0	2197.2	1964.8
-52.5°	3851.2	3668.4	3470.3	3257.8	3044.6	2826.0	2596.8	2391.3	2182.7	1980.8	1776.0
-55°	3449.0	3285.4	3109.3	2914.2	2709.1	2532.0	2344.7	2153.8	1967.1	1779.3	1610.8
-57.5°	3113.3	2958.0	2792.6	2621.0	2443.6	2275.0	2106.0	1932.3	1770.4	1614.4	1458.0
-60°	2802.5	2656.6	2508.9	2353.4	2189.8	2029.5	1893.1	1749.2	1597.7	1465.1	1331.9
-62.5°	2520.9	2388.6	2251.2	2116.5	1979.9	1844.3	1714.7	1587.8	1459.3	1333.0	1219.6
-65°	2270.6	2157.9	2037.0	1914.3	1793.3	1674.7	1557.3	1442.8	1333.7	1227.7	1117.4
-67.5°	2022.3	1922.9	1818.5	1712.9	1609.9	1510.2	1409.3	1309.8	1209.8	1112.2	1009.3
-70°	1761.9	1679.8	1594.9	1508.6	1421.9	1336.1	1247.0	1157.2	1070.1	983.9	892.8
-72.5°	1488.3	1420.7	1351.0	1280.5	1211.2	1141.6	1067.1	989.3	914.1	841.8	767.2
-75°	1205.5	1149.7	1093.0	1038.4	983.8	929.7	872.9	811.0	750.5	691.8	631.9
-77.5°	918.6	874.2	830.3	791.9	753.5	715.3	675.1	628.1	581.7	536.0	489.4
-80°	635.7	607.6	579.6	555.9	531.0	504.9	476.7	442.7	409.0	377.7	347.9
-82.5°	388.4	374.2	359.2	345.3	330.6	315.1	298.6	279.0	259.5	240.1	220.4
-85°	194.4	187.9	181.0	175.3	169.2	162.5	155.4	146.6	137.4	127.6	117.4
-87.5°	71.4	68.8	66.2	64.3	62.2	60.2	58.0	54.8	51.7	48.5	45.4
-90°	2.9	3.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5



REPORT NUMBER: P731327 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	10.1	9.8	9.5	9.2	8.9	8.7	8.4	8.1	7.8	7.5	7.2
87.5°	6.1	7.0	7.8	8.6	8.2	7.8	7.4	7.1	7.0	7.0	6.9
85°	11.3	11.6	12.1	12.7	11.9	10.9	10.2	9.5	9.5	9.4	9.1
82.5°	19.2	18.3	17.7	17.4	17.1	16.4	15.4	14.0	12.5	11.8	11.4
80°	33.9	30.2	26.9	24.2	22.6	22.0	21.2	19.6	16.4	14.2	13.0
77.5°	47.2	42.0	37.4	32.9	29.0	26.2	24.8	23.9	20.1	16.5	14.1
75°	58.9	52.3	46.1	40.2	34.6	30.1	26.9	24.6	21.5	18.4	15.1
72.5°	66.7	60.0	53.6	46.8	39.5	33.5	28.7	25.3	22.1	18.9	15.8
70°	72.6	66.0	59.2	51.5	43.7	36.4	30.4	26.2	22.6	19.4	16.2
67.5°	76.6	68.7	61.9	55.3	47.3	39.3	31.8	27.3	23.6	19.9	16.6
65°	68.8	66.1	62.8	55.9	49.1	42.0	34.0	28.6	24.4	20.6	16.9
62.5°	58.6	58.9	56.9	54.7	49.3	42.6	36.1	30.7	25.4	21.3	17.4
60°	45.8	48.6	50.4	49.6	47.3	42.5	36.9	32.6	27.1	22.0	18.0
57.5°	37.9	39.0	41.9	43.9	43.3	40.6	37.3	33.6	28.7	23.2	18.6
55°	32.8	34.5	35.6	37.3	38.8	37.5	37.0	34.2	30.0	24.4	19.4
52.5°	32.7	33.3	33.5	33.0	33.7	34.9	35.5	34.8	30.6	25.5	20.7
50°	34.0	37.0	35.1	32.7	30.1	32.0	34.1	33.8	31.2	26.4	22.1
47.5°	40.1	44.3	41.9	35.2	31.2	29.6	32.3	32.8	31.8	27.0	23.5
45°	56.7	56.1	52.3	44.2	34.3	31.7	30.7	31.9	31.1	28.4	24.8
42.5°	79.3	76.1	68.0	54.8	47.9	36.1	29.6	31.0	30.5	30.1	26.3
40°	118.9	102.2	88.4	80.2	68.5	41.9	33.9	30.3	30.2	31.7	27.8
37.5°	165.4	140.3	116.3	116.8	96.6	65.3	39.5	30.0	32.0	33.0	29.5
35°	233.1	189.0	174.1	166.6	137.0	92.7	45.9	32.2	34.5	34.8	31.3
32.5°	310.9	283.6	273.6	229.6	184.4	124.2	64.9	41.4	37.8	37.0	33.2
30°	494.6	451.0	404.4	302.6	240.8	168.4	96.0	50.7	41.7	39.6	35.2
27.5°	790.8	649.5	565.3	421.0	309.8	219.0	134.9	60.3	46.3	42.6	37.1
25°	1110.4	912.0	757.3	570.9	385.2	297.2	178.7	71.0	53.4	46.3	39.3
22.5°	1471.5	1195.9	970.1	738.7	504.9	388.0	234.9	105.3	61.6	50.3	41.6
20°	1837.5	1483.9	1212.2	945.7	661.0	491.2	305.7	141.6	69.6	54.6	44.0
17.5°	2220.3	1850.0	1542.8	1182.3	835.8	599.8	382.4	179.3	77.6	59.1	46.5
15°	2805.7	2316.0	1897.7	1440.3	1009.1	712.4	463.1	217.5	85.4	63.7	51.6
12.5°	3414.1	2790.6	2267.9	1713.5	1179.1	827.1	545.9	255.5	93.0	73.4	60.1
10°	4007.1	3267.4	2646.2	1994.5	1344.0	941.9	628.9	305.6	115.8	87.3	68.7
7.5°	4579.5	3739.5	3024.7	2275.6	1515.1	1092.6	779.3	383.5	141.7	101.4	77.4
5°	5094.3	4153.8	3382.2	2570.5	1748.3	1278.3	939.9	461.1	167.9	115.5	86.0
2.5°	5440.4	4469.7	3710.8	2845.9	1970.9	1457.0	1095.9	535.7	193.8	129.4	94.4
0°	5747.4	4755.1	4012.9	3095.6	2180.5	1627.3	1242.4	605.1	219.0	142.9	102.6
-2.5°	5825.0	4825.7	4106.2	3248.3	2356.9	1783.0	1374.7	712.2	300.6	193.4	134.7
-5°	5861.9	4872.6	4175.9	3375.8	2516.7	1928.0	1491.1	810.0	379.3	242.5	165.9
-7.5°	5869.8	4910.1	4213.0	3467.5	2658.9	2061.6	1590.2	897.2	453.6	289.5	195.8
-10°	5842.9	4925.2	4202.8	3443.7	2667.8	2116.7	1656.3	972.5	522.0	333.5	224.1
-12.5°	5780.4	4905.7	4167.7	3390.7	2636.1	2096.3	1613.6	1001.0	580.8	373.9	250.2
-15°	5684.0	4849.2	4107.9	3307.5	2584.4	2062.5	1565.1	1005.4	616.8	409.4	273.7
-17.5°	5505.6	4753.9	4023.5	3193.3	2512.1	2014.7	1513.5	1003.8	647.5	439.9	296.1
-20°	5126.8	4511.5	3907.6	3047.8	2418.6	1952.5	1461.0	996.8	672.8	466.3	317.0



REPORT NUMBER: P731327 (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°	4724.7	4168.7	3598.9	2919.9	2320.0	1875.4	1409.8	985.2	692.5	488.3	334.9
-25°	4293.2	3820.5	3274.4	2710.7	2224.6	1795.5	1371.1	969.6	706.3	505.5	349.5
-27.5°	3889.3	3469.5	2969.5	2504.4	2089.5	1724.7	1341.2	979.4	717.7	517.9	360.6
-30°	3504.0	3139.8	2725.2	2314.1	1952.7	1631.0	1309.3	983.4	729.7	528.2	368.1
-32.5°	3226.1	2844.9	2503.3	2158.6	1832.8	1531.9	1247.7	980.0	735.0	535.4	373.9
-35°	3006.1	2626.5	2296.1	2004.9	1717.4	1438.9	1174.8	969.1	733.4	537.6	376.7
-37.5°	2778.8	2439.1	2131.4	1862.6	1598.7	1342.1	1113.7	921.8	724.9	534.7	375.9
-40°	2566.7	2254.6	1977.8	1730.3	1485.8	1241.8	1047.9	874.4	714.7	526.5	371.3
-42.5°	2347.1	2075.5	1827.6	1595.4	1373.0	1164.1	979.4	823.9	680.3	516.0	363.0
-45°	2140.1	1894.8	1675.4	1468.9	1261.8	1082.4	920.5	772.0	640.7	502.0	352.7
-47.5°	1930.0	1724.5	1530.2	1340.4	1167.7	1001.1	858.5	725.6	599.2	482.7	341.3
-50°	1742.4	1562.2	1391.8	1229.1	1069.9	930.1	796.6	677.1	561.2	449.0	326.4
-52.5°	1582.5	1415.4	1267.6	1122.6	987.5	856.3	741.1	627.4	521.6	417.3	308.2
-55°	1438.4	1284.6	1153.2	1028.8	907.1	791.6	683.7	581.8	480.4	385.6	287.4
-57.5°	1314.7	1166.7	1053.1	941.3	833.9	728.8	629.3	534.6	441.7	352.4	268.4
-60°	1198.5	1072.9	959.0	862.1	764.7	668.3	576.2	487.5	402.6	318.8	244.6
-62.5°	1102.0	982.3	876.7	786.7	698.2	610.5	522.4	442.3	362.1	287.6	218.3
-65°	1006.2	898.3	795.9	715.9	634.3	551.4	471.0	395.5	322.8	254.7	192.6
-67.5°	908.1	811.6	722.8	646.0	567.4	491.0	417.7	348.3	282.5	220.3	169.9
-70°	804.1	721.6	642.5	568.0	496.7	427.8	361.8	299.6	240.5	190.8	146.1
-72.5°	691.1	618.8	550.9	486.1	421.7	360.7	303.5	250.6	203.4	160.2	121.3
-75°	569.8	509.4	452.1	396.9	342.6	291.6	246.8	205.1	165.0	128.5	98.8
-77.5°	439.9	392.7	348.2	306.8	265.2	226.6	191.1	158.1	127.3	100.7	76.7
-80°	314.7	282.1	250.3	219.2	188.4	160.1	137.8	116.2	93.6	72.9	54.2
-82.5°	196.9	177.1	158.8	141.2	123.6	106.8	90.8	75.5	59.2	44.4	35.8
-85°	106.0	94.8	84.1	73.8	63.1	52.9	47.9	43.0	37.0	31.4	26.4
-87.5°	43.2	40.9	38.6	36.3	33.5	30.8	28.2	25.6	22.5	19.5	16.8
-90°	3.8	4.1	4.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



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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°	6.7	6.2	5.7	5.3	5.0	4.8	4.6
85°	8.8	7.7	6.8	6.0	5.4	5.0	4.6
82.5°	10.8	9.3	7.9	6.7	5.8	5.1	4.6
80°	12.7	10.8	9.0	7.4	6.2	5.3	4.6
77.5°	12.9	11.8	10.0	8.1	6.6	5.5	4.6
75°	13.1	11.8	10.8	8.8	7.0	5.6	4.6
72.5°	13.2	11.8	10.8	9.4	7.3	5.8	4.6
70°	13.4	11.8	10.7	9.9	7.7	6.0	4.6
67.5°	13.8	11.8	10.6	9.8	8.1	6.1	4.6
65°	14.3	12.0	10.5	9.6	8.4	6.3	4.6
62.5°	14.7	12.4	10.4	9.5	8.7	6.4	4.6
60°	15.1	12.8	10.2	9.3	9.0	6.6	4.6
57.5°	15.9	13.2	10.5	9.2	9.0	6.7	4.6
55°	16.6	13.5	10.8	9.0	8.9	6.9	4.6
52.5°	17.3	13.9	11.1	8.8	8.9	7.0	4.6
50°	18.1	14.6	11.4	8.6	8.9	7.1	4.6
47.5°	18.9	15.2	11.7	8.5	8.8	7.2	4.6
45°	20.1	15.9	11.9	8.7	8.8	7.3	4.6
42.5°	21.3	16.5	12.1	8.9	8.8	7.5	4.6
40°	22.4	17.1	12.5	9.2	8.9	7.6	4.6
37.5°	23.5	17.7	12.9	9.7	8.9	7.6	4.6
35°	24.6	18.5	13.4	10.2	9.0	7.7	4.6
32.5°	25.8	19.3	13.8	10.7	9.0	7.8	4.6
30°	27.3	20.1	14.2	11.2	9.1	7.9	4.6
27.5°	28.8	20.9	15.3	11.7	9.2	7.9	4.6
25°	30.3	21.6	16.6	12.3	9.3	8.0	4.6
22.5°	31.8	22.9	17.9	12.8	9.4	8.0	4.6
20°	33.2	25.8	19.3	13.4	9.5	8.1	4.6
17.5°	37.1	28.8	20.7	13.9	9.6	8.1	4.6
15°	42.5	31.9	22.1	14.5	9.7	8.1	4.6
12.5°	48.0	35.1	23.5	15.0	9.8	8.1	4.6
10°	53.6	38.4	24.9	15.5	9.9	8.1	4.6
7.5°	59.1	41.6	26.3	16.0	10.1	8.1	4.6
5°	64.5	44.8	27.6	16.5	10.2	8.1	4.6
2.5°	69.8	47.8	28.8	16.9	10.3	8.1	4.6
0°	74.9	50.7	30.0	17.3	10.4	8.1	4.6
-2.5°	94.3	61.6	35.8	19.9	11.2	8.2	4.6
-5°	113.2	72.1	41.5	22.3	11.9	8.4	4.6
-7.5°	131.3	82.2	46.9	24.7	12.6	8.5	4.6
-10°	148.3	91.7	52.1	27.0	13.3	8.6	4.6
-12.5°	164.0	100.5	56.8	29.1	13.9	8.7	4.6
-15°	178.2	108.5	61.2	31.0	14.5	8.8	4.6
-17.5°	190.5	115.6	65.0	32.7	15.1	8.9	4.6
-20°	202.7	121.7	68.4	34.2	15.6	9.0	4.6



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	215.6	126.7	71.1	35.4	16.1	9.1	4.6
-25°	226.2	133.2	73.2	36.4	16.5	9.1	4.6
-27.5°	234.6	139.5	74.7	37.0	16.8	9.1	4.6
-30°	240.4	144.2	75.7	37.4	17.1	9.2	4.6
-32.5°	243.8	147.2	78.0	37.4	17.2	9.2	4.6
-35°	246.4	148.6	79.4	37.1	17.3	9.2	4.6
-37.5°	247.3	149.0	79.9	36.4	17.4	9.1	4.6
-40°	245.8	149.0	79.3	35.4	17.3	9.1	4.6
-42.5°	241.6	147.6	78.6	34.5	17.2	9.0	4.6
-45°	234.9	144.5	77.9	33.9	17.0	8.9	4.6
-47.5°	225.6	140.0	76.3	32.8	16.7	8.8	4.6
-50°	217.0	133.9	73.9	32.4	16.3	8.7	4.6
-52.5°	206.8	126.3	70.7	32.1	15.9	8.6	4.6
-55°	194.4	119.8	66.8	31.4	15.3	8.4	4.6
-57.5°	180.0	112.7	62.0	30.3	14.7	8.3	4.6
-60°	164.3	104.4	56.7	28.8	14.1	8.1	4.6
-62.5°	151.0	95.1	52.9	27.0	13.6	7.9	4.6
-65°	136.2	84.7	48.5	24.9	13.0	7.7	4.6
-67.5°	120.1	74.9	43.6	22.5	12.4	7.5	4.6
-70°	102.8	65.7	38.1	19.8	11.8	7.3	4.6
-72.5°	87.4	55.7	32.2	18.1	11.1	7.0	4.6
-75°	71.5	45.1	25.9	16.6	10.4	6.8	4.6
-77.5°	54.8	34.0	22.3	15.0	9.7	6.5	4.6
-80°	37.4	26.9	19.3	13.3	8.9	6.3	4.6
-82.5°	29.0	22.0	16.1	11.5	8.2	6.0	4.6
-85°	21.7	16.9	12.9	9.7	7.4	5.8	4.6
-87.5°	14.3	11.8	9.6	7.9	6.6	5.5	4.6
-90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6

(END OF 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

