

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: P731352 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-7F-CV5**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731352 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-42)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-80-7F-CV5
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

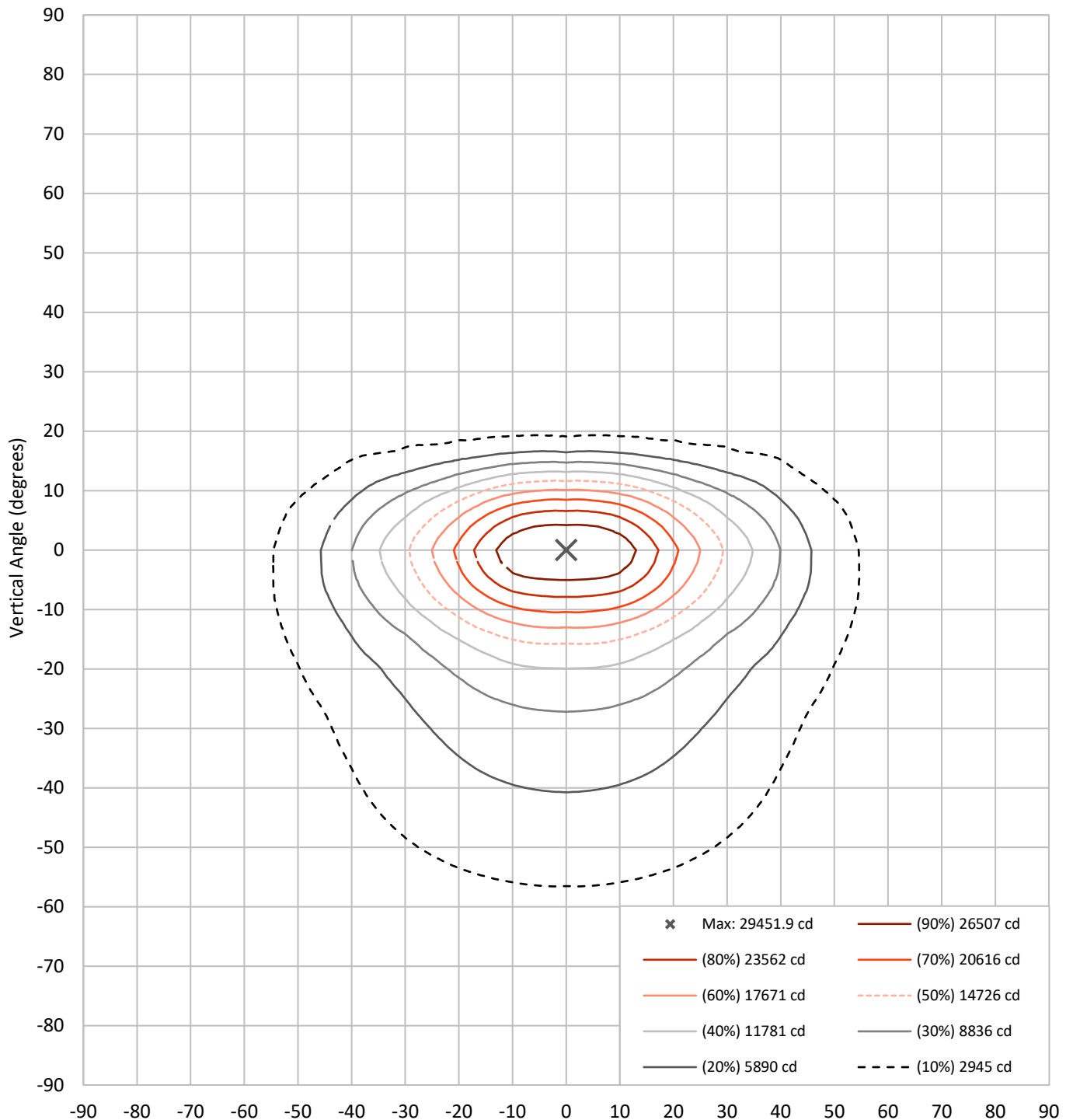
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	19817.1 lumens	Max Intensity:	29451.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	57.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	58.6°H x 27.3°V	Field Angle (10%):	109.1°H x 75.6°V
Beam Lumens:	7823 lumens	Field Lumens:	17439.5 lumens
Beam Efficiency:	39.5%	Field Efficiency:	88.0%

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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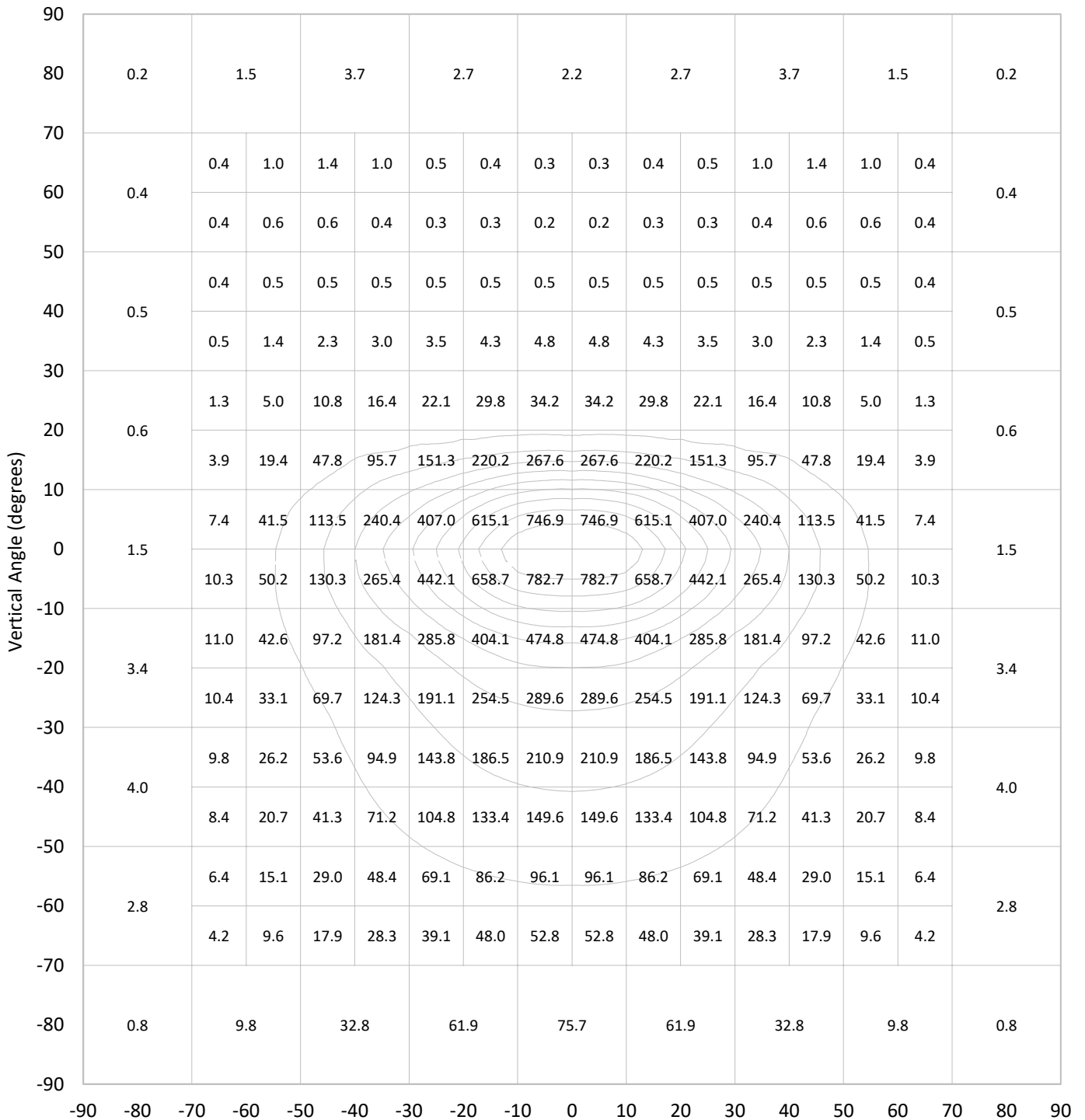
Iso-Candela Plot





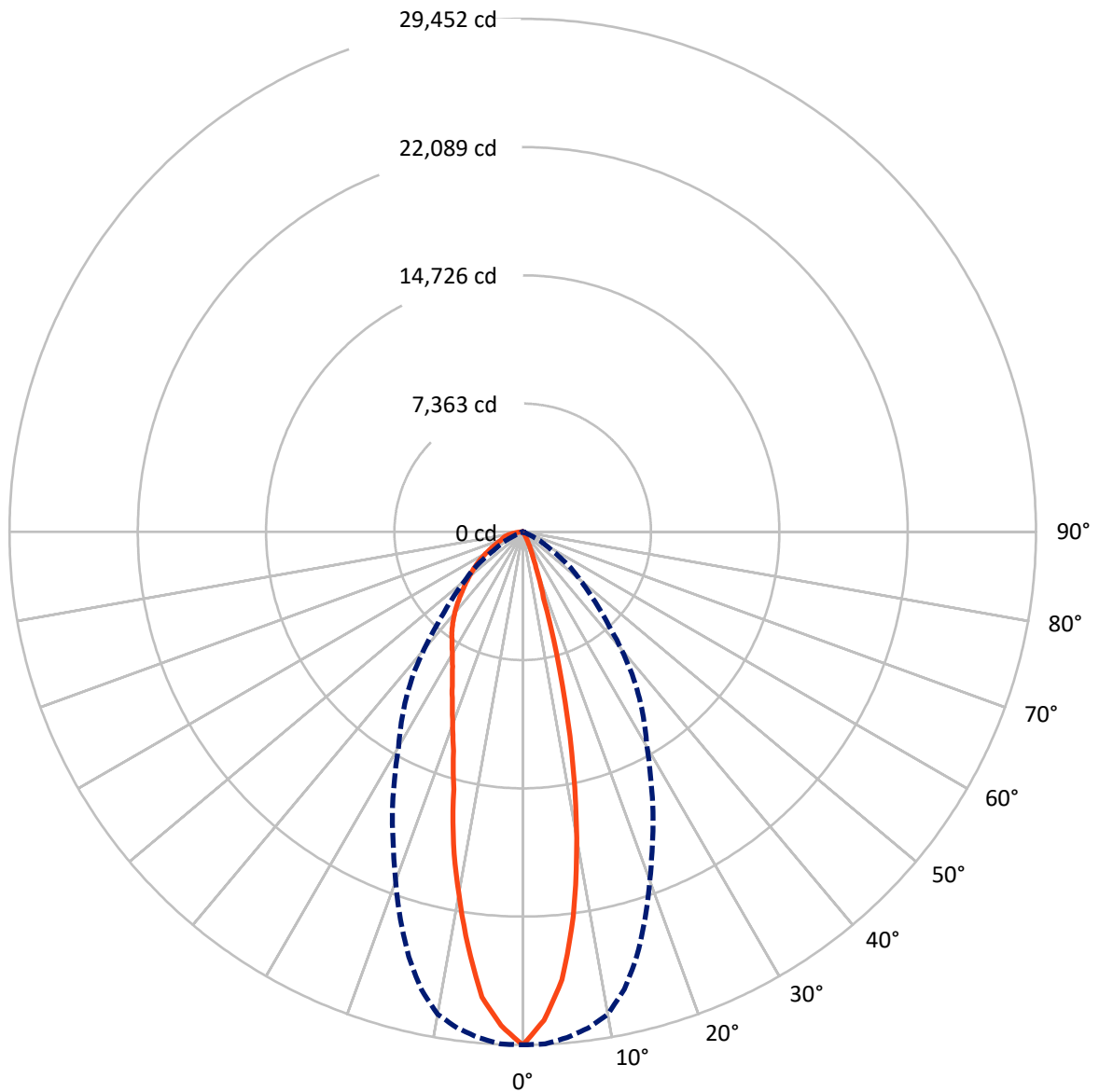
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Lumen Table



REPORT NUMBER: P731352 (CONVERTED FROM TYPE C PHOTOMETRY)
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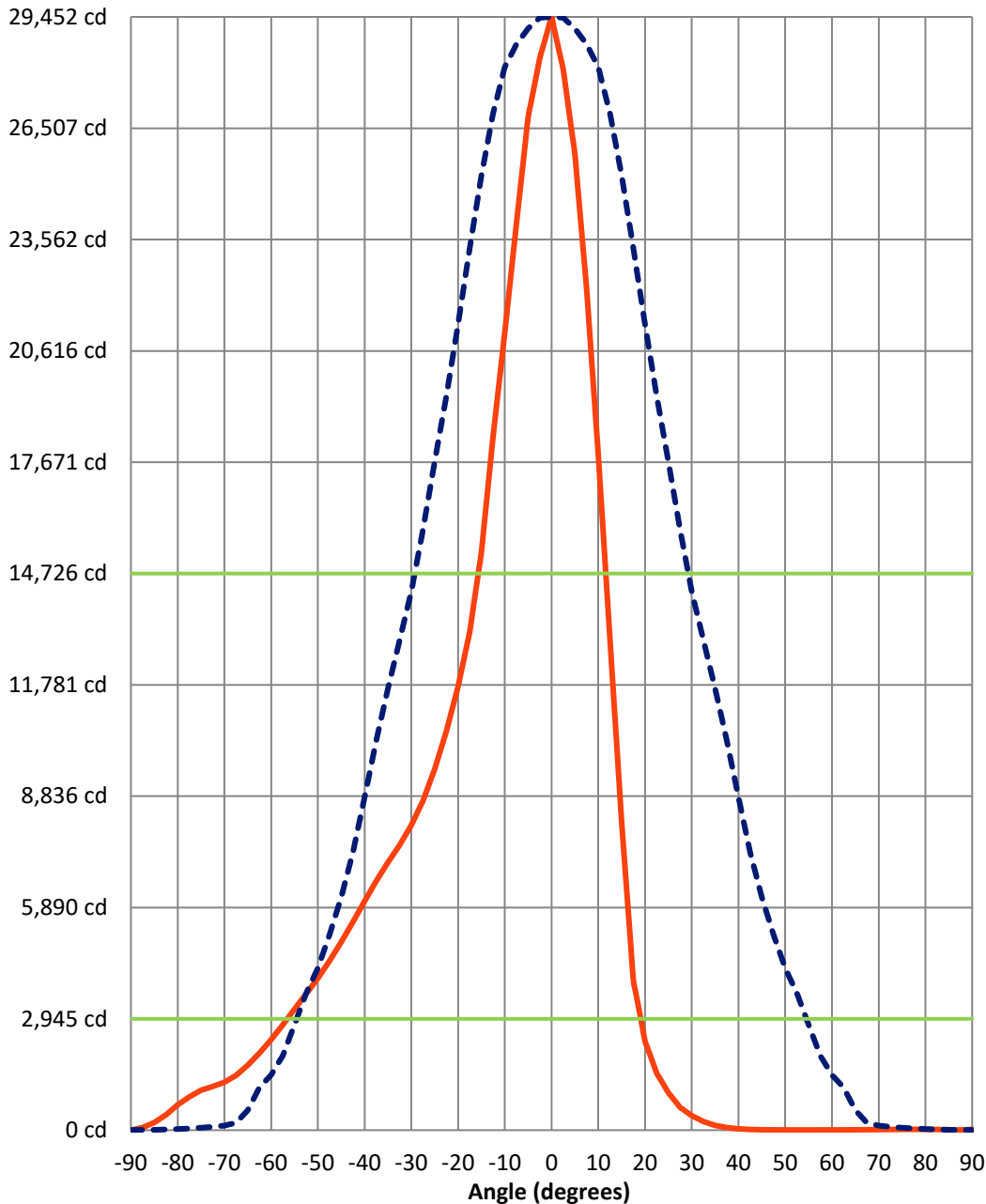
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 58.6°
 V Angle: 27.3°
 Lumens: 7823
 Efficiency: 39.5%

Field:
 H Angle: 109.1°
 V Angle: 75.6°
 Lumens: 17439.5
 Efficiency: 88.0%

Spill:
 Lumens: 2377.6
 Efficiency: 12.0%

- 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°	4.3	4.9	5.4	5.7	5.9	6.2	6.4	6.7	7.0	7.2	7.5
87.5°	4.3	4.5	4.8	5.1	5.5	6.0	6.5	6.6	6.7	6.6	6.5
85°	4.3	4.7	5.2	5.9	6.7	7.6	8.7	8.9	9.0	9.0	8.8
82.5°	4.3	4.9	5.7	6.7	7.9	9.3	10.9	11.3	11.5	12.3	13.9
80°	4.3	5.0	6.1	7.5	9.0	10.9	12.9	13.5	14.9	17.2	20.4
77.5°	4.3	5.2	6.6	8.2	10.2	12.1	13.9	15.5	18.1	21.9	25.7
75°	4.3	5.4	7.0	9.0	11.1	12.7	14.8	17.4	21.0	24.0	27.2
72.5°	4.3	5.6	7.4	9.7	11.3	13.1	15.7	18.8	22.0	25.3	28.7
70°	4.3	5.7	7.8	10.3	11.5	13.6	16.5	19.6	22.9	26.4	29.7
67.5°	4.3	5.9	8.2	10.2	11.6	13.9	17.1	20.3	23.8	27.2	30.7
65°	4.3	6.1	8.6	10.2	11.7	14.4	17.7	21.0	24.5	28.0	31.9
62.5°	4.3	6.2	9.0	10.1	11.7	15.0	18.4	21.5	25.1	28.9	33.7
60°	4.3	6.4	9.3	10.0	11.7	15.6	19.0	22.0	25.7	30.3	35.4
57.5°	4.3	6.5	9.2	9.8	12.2	16.1	19.7	22.6	26.6	31.5	36.0
55°	4.3	6.6	9.2	9.7	12.7	16.7	20.4	23.3	27.5	32.4	36.1
52.5°	4.3	6.8	9.1	9.5	13.1	17.2	21.2	24.3	28.2	32.4	36.1
50°	4.3	6.9	9.0	9.3	13.6	18.0	22.0	25.3	28.7	32.4	34.4
47.5°	4.3	7.0	9.0	9.2	14.0	18.7	22.8	26.3	28.6	32.3	32.6
45°	4.3	7.1	8.9	9.5	14.4	19.4	23.7	27.4	29.3	31.0	31.1
42.5°	4.3	7.2	8.9	9.8	14.8	20.2	24.6	28.2	30.1	29.9	29.7
40°	4.3	7.3	8.9	10.2	15.2	20.9	25.5	29.0	30.8	29.2	28.4
37.5°	4.3	7.3	8.9	10.8	15.8	21.7	26.4	29.9	31.4	29.9	27.4
35°	4.3	7.4	8.9	11.4	16.3	22.4	27.2	30.8	32.2	31.3	27.5
32.5°	4.3	7.5	8.9	11.9	16.9	23.0	28.0	31.7	33.3	33.3	32.9
30°	4.3	7.5	9.0	12.5	17.4	23.6	28.8	32.7	34.6	36.0	39.7
27.5°	4.3	7.6	9.0	13.1	18.4	24.2	29.5	33.7	36.4	39.4	47.7
25°	4.3	7.6	9.0	13.6	19.6	24.8	30.3	34.8	39.0	45.1	57.7
22.5°	4.3	7.6	9.1	14.2	20.8	25.7	31.0	36.1	41.9	52.3	90.5
20°	4.3	7.6	9.1	14.7	21.9	27.8	31.8	37.4	45.1	60.0	128.0
17.5°	4.3	7.7	9.2	15.3	23.1	29.9	34.5	38.8	48.6	68.2	169.0
15°	4.3	7.7	9.3	15.8	24.2	32.1	38.7	42.7	52.2	76.7	212.7
12.5°	4.3	7.6	9.3	16.3	25.3	34.3	43.0	50.0	60.6	85.4	257.9
10°	4.3	7.6	9.4	16.7	26.4	36.5	47.5	57.5	72.9	105.7	308.3
7.5°	4.3	7.6	9.4	17.1	27.4	38.7	52.1	65.1	85.3	128.1	368.5
5°	4.3	7.6	9.5	17.5	28.3	40.9	56.6	72.8	97.8	150.5	426.2
2.5°	4.3	7.5	9.6	17.9	29.2	42.9	61.0	80.4	110.1	172.5	480.1
0°	4.3	7.5	9.6	18.2	30.0	44.9	65.3	87.8	122.0	193.7	528.7
-2.5°	4.3	7.7	10.3	20.4	35.0	54.7	82.3	115.9	164.7	252.6	588.2
-5°	4.3	7.8	11.1	22.6	39.9	64.2	98.9	143.3	206.2	309.4	641.0
-7.5°	4.3	8.0	11.8	24.6	44.6	73.3	114.8	169.6	246.0	363.5	687.1
-10°	4.3	8.1	12.5	26.6	49.0	81.9	129.8	194.4	283.5	414.2	726.8
-12.5°	4.3	8.2	13.1	28.4	53.1	89.9	143.8	217.4	318.2	458.8	743.0
-15°	4.3	8.3	13.7	30.0	56.9	97.2	156.4	238.2	346.5	486.0	746.5
-17.5°	4.3	8.4	14.3	31.4	60.2	103.6	167.5	256.2	368.1	509.6	746.6
-20°	4.3	8.5	14.8	32.7	63.1	109.2	177.9	271.8	387.2	529.6	743.9



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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°	4.3	8.6	15.3	33.7	65.4	113.7	188.5	285.3	403.5	545.8	739.0
-25°	4.3	8.7	15.7	34.5	67.2	119.5	197.5	296.3	416.9	557.9	732.4
-27.5°	4.3	8.7	16.1	35.0	68.4	125.1	204.8	304.8	427.4	568.0	742.5
-30°	4.3	8.7	16.3	35.3	69.3	129.5	210.4	310.8	435.8	578.0	748.4
-32.5°	4.3	8.7	16.6	35.3	71.5	132.6	214.2	316.1	441.4	584.1	749.2
-35°	4.3	8.7	16.7	35.1	72.9	134.4	217.2	319.6	443.4	586.3	744.8
-37.5°	4.3	8.7	16.8	34.5	73.5	135.2	218.6	320.6	441.8	584.6	720.5
-40°	4.3	8.7	16.8	33.6	73.2	135.5	218.1	319.0	436.6	579.2	695.0
-42.5°	4.3	8.6	16.7	32.8	72.6	134.3	215.5	315.0	430.8	555.7	666.0
-45°	4.3	8.6	16.5	32.3	72.0	131.8	211.0	308.9	423.1	527.6	633.6
-47.5°	4.3	8.5	16.3	31.3	70.5	127.9	204.4	300.7	411.8	497.2	599.2
-50°	4.3	8.4	16.0	31.0	68.4	122.7	197.2	289.9	387.4	469.0	562.0
-52.5°	4.3	8.2	15.6	30.7	65.4	116.1	188.2	276.5	361.6	438.3	522.6
-55°	4.3	8.1	15.1	30.1	61.8	110.2	177.4	260.8	334.4	405.2	484.5
-57.5°	4.3	7.9	14.6	29.1	57.5	103.6	164.7	244.0	305.6	371.5	443.6
-60°	4.3	7.8	14.0	27.8	52.6	95.9	150.8	221.8	276.0	336.5	401.2
-62.5°	4.3	7.6	13.5	26.3	49.4	87.2	138.4	197.3	248.0	299.8	359.2
-65°	4.3	7.4	12.9	24.5	45.7	77.6	124.7	173.6	219.2	266.2	315.4
-67.5°	4.3	7.2	12.3	22.4	41.5	68.9	109.7	152.9	189.7	232.9	275.9
-70°	4.3	6.9	11.6	20.1	36.9	61.2	93.6	131.8	165.9	198.8	238.1
-72.5°	4.3	6.7	10.9	18.4	31.9	52.9	80.5	110.3	141.9	172.3	201.5
-75°	4.3	6.5	10.2	16.8	26.5	44.0	67.3	91.2	117.6	145.6	172.5
-77.5°	4.3	6.2	9.5	15.1	23.0	34.7	53.3	72.4	93.8	117.9	143.2
-80°	4.3	5.9	8.7	13.3	19.7	28.0	38.8	53.1	69.4	87.9	108.6
-82.5°	4.3	5.7	7.9	11.4	16.4	22.7	30.3	36.7	44.4	57.2	71.7
-85°	4.3	5.4	7.1	9.5	12.9	17.2	22.4	26.8	31.4	36.4	41.8
-87.5°	4.3	5.1	6.2	7.6	9.4	11.7	14.4	16.7	19.2	21.9	24.7
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



REPORT NUMBER: P731352 (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°	7.8	8.1	8.3	8.6	9.4	10.2	11.0	11.8	13.1	14.5	15.8
87.5°	7.0	7.5	8.0	8.6	8.2	7.7	7.2	6.6	7.0	7.6	8.1
85°	9.7	10.7	12.1	13.2	13.1	13.2	13.4	13.7	14.6	15.4	16.0
82.5°	15.7	17.1	18.1	18.7	19.7	21.0	22.7	25.2	26.6	27.5	28.0
80°	22.4	23.6	24.5	26.3	29.5	33.2	37.2	41.5	43.0	43.1	42.7
77.5°	26.9	28.6	31.5	35.6	40.3	45.0	50.0	55.4	56.9	56.6	55.8
75°	29.8	33.3	37.6	43.1	48.9	54.9	61.2	67.0	68.6	66.9	64.6
72.5°	32.1	36.6	42.5	49.6	56.2	62.3	68.8	75.7	78.1	74.3	69.7
70°	33.7	39.5	46.5	54.0	61.5	68.1	74.2	80.8	84.6	78.3	69.0
67.5°	35.0	42.2	49.8	57.6	64.4	70.7	77.6	79.7	80.6	71.0	61.1
65°	36.9	44.6	51.7	58.5	65.8	67.9	69.3	70.8	69.2	58.3	47.5
62.5°	38.9	45.2	52.0	57.3	59.0	60.1	58.8	55.9	52.1	44.5	35.7
60°	39.5	45.1	49.4	51.0	51.6	49.3	45.9	42.5	38.5	32.2	26.1
57.5°	39.6	42.5	44.2	44.5	42.5	38.9	35.6	31.2	27.8	23.8	18.9
55°	38.7	38.1	38.9	37.6	34.6	30.9	27.0	24.0	19.9	17.6	14.7
52.5°	36.0	34.5	33.8	31.7	28.3	24.9	21.7	18.8	16.5	13.9	12.1
50°	33.7	31.6	29.4	26.8	24.3	22.0	18.4	16.3	14.4	12.4	10.7
47.5°	31.5	29.1	25.7	23.6	23.3	21.9	18.4	15.2	13.5	13.4	11.9
45°	29.5	27.5	23.7	24.1	24.8	24.7	22.2	14.9	16.5	16.9	16.0
42.5°	27.9	27.0	28.1	25.6	29.6	31.8	29.9	24.9	22.1	24.6	25.6
40°	28.1	27.7	37.0	36.8	37.4	43.2	45.9	42.4	32.6	38.7	41.4
37.5°	29.2	38.9	50.5	54.3	50.9	60.8	66.8	70.9	63.2	58.3	66.9
35°	31.0	52.9	70.2	78.3	78.8	84.5	100.0	106.4	101.3	93.5	100.4
32.5°	40.5	69.7	93.5	107.3	120.0	125.9	139.7	146.2	151.8	151.9	148.9
30°	60.6	91.8	120.6	139.4	169.9	197.6	191.6	193.0	213.5	234.4	244.5
27.5°	94.9	119.2	150.8	184.7	231.4	285.3	294.9	267.6	295.4	333.9	368.1
25°	138.0	202.1	182.9	238.8	316.4	391.2	430.9	449.9	411.9	467.9	548.7
22.5°	197.7	307.2	308.1	297.7	412.0	516.5	614.5	708.4	757.0	696.1	780.2
20°	278.1	419.5	464.7	515.0	554.9	659.0	828.2	1033.1	1220.8	1327.0	1278.3
17.5°	370.5	542.1	646.0	780.5	913.4	970.2	1078.0	1413.5	1777.8	2087.9	2254.6
15°	472.2	673.2	842.1	1073.4	1312.3	1492.4	1679.1	1967.4	2448.2	2978.7	3403.4
12.5°	580.4	810.4	1049.3	1387.3	1742.3	2038.4	2371.3	2809.7	3364.4	4026.1	4717.9
10°	691.8	951.4	1263.5	1715.2	2194.1	2600.7	3077.0	3652.1	4360.4	5184.9	6054.4
7.5°	809.9	1089.4	1474.6	2049.5	2657.8	3170.9	3786.8	4486.6	5346.0	6326.2	7374.4
5°	924.3	1219.6	1650.7	2318.4	3034.1	3652.1	4433.4	5301.9	6309.6	7437.0	8672.3
2.5°	1030.9	1344.2	1817.4	2564.5	3339.5	3981.1	4817.7	5751.4	6888.2	8217.4	9646.2
0°	1126.9	1461.9	1972.4	2791.1	3621.6	4287.2	5170.1	6163.3	7348.0	8806.7	10308.2
-2.5°	1168.5	1523.3	2042.2	2824.9	3614.6	4292.8	5142.3	6155.5	7297.9	8688.7	10161.5
-5°	1198.0	1575.1	2097.3	2837.0	3584.2	4272.7	5083.0	6101.1	7139.0	8376.1	9695.6
-7.5°	1216.6	1616.3	2137.0	2816.2	3485.2	4115.8	4820.7	5687.9	6634.3	7735.4	8897.1
-10°	1220.5	1611.9	2077.3	2680.7	3292.9	3871.1	4499.2	5252.3	6098.6	7061.6	8071.5
-12.5°	1182.6	1567.3	1993.3	2535.4	3093.9	3616.9	4166.9	4806.7	5540.2	6368.0	7262.1
-15°	1141.4	1516.8	1902.9	2384.0	2892.9	3357.6	3829.5	4360.1	5010.9	5765.1	6536.1
-17.5°	1099.1	1461.2	1808.1	2229.9	2694.5	3097.2	3510.2	4014.1	4597.2	5232.8	5860.4
-20°	1057.6	1401.5	1710.5	2076.0	2501.7	2881.9	3284.7	3727.5	4217.0	4735.0	5233.9



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1018.7	1338.4	1620.4	1946.9	2336.0	2700.6	3060.4	3440.8	3846.2	4265.6	4792.1
-25°	992.5	1277.7	1541.7	1844.4	2180.5	2516.9	2834.3	3161.3	3510.2	3974.1	4461.8
-27.5°	976.3	1226.1	1472.6	1741.6	2031.6	2335.8	2623.0	2911.5	3300.5	3717.8	4149.5
-30°	960.4	1174.8	1400.6	1644.3	1908.4	2172.2	2419.5	2745.5	3108.1	3490.0	3873.8
-32.5°	930.0	1120.9	1335.0	1560.5	1793.9	2022.4	2280.5	2601.1	2933.7	3269.4	3615.9
-35°	892.4	1073.3	1270.6	1475.4	1684.5	1910.6	2172.3	2454.4	2760.1	3072.4	3414.3
-37.5°	859.6	1021.6	1203.8	1394.8	1590.8	1813.4	2054.0	2317.6	2596.2	2888.3	3214.7
-40°	823.1	965.9	1140.7	1319.7	1503.8	1711.7	1938.4	2178.0	2434.4	2713.6	3006.6
-42.5°	784.1	921.6	1075.7	1242.7	1417.7	1607.9	1813.7	2039.0	2278.2	2532.5	2800.8
-45°	747.8	873.9	1009.5	1165.5	1327.3	1500.3	1691.2	1893.4	2120.2	2354.2	2596.0
-47.5°	707.5	824.1	952.6	1083.1	1234.7	1394.1	1563.3	1754.7	1955.0	2172.4	2395.5
-50°	664.0	774.7	887.8	1007.2	1139.8	1285.5	1440.1	1612.3	1797.7	1987.5	2188.3
-52.5°	619.3	721.0	823.3	929.7	1048.1	1177.6	1318.1	1470.4	1637.3	1811.4	1984.7
-55°	571.6	665.6	756.6	853.3	956.5	1071.8	1196.0	1331.8	1471.7	1630.3	1782.9
-57.5°	523.4	606.2	688.9	776.8	868.7	965.3	1078.4	1193.4	1319.6	1450.0	1577.1
-60°	473.6	545.8	619.4	698.7	781.8	869.3	961.4	1064.1	1170.9	1276.4	1388.4
-62.5°	421.9	485.6	550.4	618.3	693.0	771.8	854.1	939.7	1027.8	1119.5	1210.0
-65°	372.0	426.0	482.5	542.0	601.8	674.1	746.9	818.9	895.9	970.2	1042.8
-67.5°	321.2	372.4	419.9	466.3	521.5	583.5	640.7	706.0	770.5	831.6	890.6
-70°	279.1	320.1	363.7	405.7	449.2	501.9	558.0	610.0	658.8	710.0	765.4
-72.5°	238.6	278.1	314.6	348.2	392.2	441.6	487.6	530.5	577.0	625.7	670.5
-75°	201.5	235.9	271.6	304.6	341.3	384.3	430.7	474.4	513.9	553.3	594.1
-77.5°	165.8	191.7	221.7	255.5	291.9	325.4	362.0	401.6	438.6	476.1	516.0
-80°	127.3	145.8	166.1	189.5	216.6	246.2	277.9	311.7	341.2	368.4	395.3
-82.5°	85.7	99.7	114.0	128.3	143.4	159.3	176.9	198.5	217.6	236.9	256.4
-85°	47.4	53.4	63.1	73.0	81.4	90.2	99.6	109.3	118.4	127.4	136.1
-87.5°	27.7	30.8	34.0	37.4	39.7	41.8	43.9	45.8	48.4	50.9	53.3
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	17.1	17.4	17.7	17.9	18.2	19.0	19.8	20.6	21.4	21.1	20.9
87.5°	8.6	8.5	8.4	8.2	8.1	8.9	9.7	10.6	11.5	10.5	9.5
85°	16.4	16.5	16.5	16.5	16.4	17.5	18.6	19.7	20.7	19.1	17.4
82.5°	28.2	27.7	26.8	25.4	23.8	23.4	22.9	22.3	21.4	20.6	19.7
80°	41.9	39.9	37.3	34.3	30.9	29.1	27.4	25.5	23.4	22.8	22.3
77.5°	54.0	50.4	45.9	41.2	36.0	33.0	30.3	27.6	24.8	24.2	24.0
75°	61.8	57.1	50.6	43.9	37.0	32.7	29.5	26.5	23.5	22.6	22.2
72.5°	64.1	57.6	50.0	41.7	33.6	28.5	25.6	22.9	20.6	19.6	19.2
70°	60.0	51.2	42.9	34.9	27.4	22.7	20.7	18.9	17.4	16.7	16.4
67.5°	50.7	41.5	33.7	27.0	21.6	18.1	17.0	15.9	14.9	14.3	13.8
65°	38.5	31.3	25.6	21.1	17.7	15.6	14.6	13.7	12.9	12.2	11.7
62.5°	28.3	23.0	19.7	17.1	15.1	13.7	12.8	12.1	11.4	10.9	10.5
60°	21.3	17.7	15.6	14.0	12.8	11.9	11.3	10.8	10.3	9.9	9.5
57.5°	16.3	14.1	12.6	11.8	11.2	10.8	10.4	9.9	9.4	8.9	8.5
55°	12.8	11.7	10.9	10.6	10.4	10.0	9.5	9.1	8.6	7.9	7.5
52.5°	10.8	10.7	10.7	10.5	10.2	9.9	9.5	8.9	8.3	7.6	7.2
50°	10.7	10.8	10.8	10.6	10.3	10.0	9.6	9.2	8.8	8.3	8.1
47.5°	11.1	11.3	11.9	10.9	10.7	11.0	10.8	10.4	10.3	10.0	9.8
45°	13.1	15.3	15.9	15.1	13.2	14.7	14.2	12.5	13.5	13.4	12.6
42.5°	23.2	25.6	27.5	26.4	22.6	23.8	23.8	21.3	22.0	22.1	21.1
40°	44.3	43.5	46.5	45.3	41.2	39.7	41.5	38.5	38.0	39.4	37.7
37.5°	73.1	73.5	72.2	72.4	70.9	66.9	69.3	68.5	66.0	70.6	71.2
35°	114.2	117.8	106.6	111.0	112.9	108.6	111.3	119.1	114.1	124.9	127.8
32.5°	169.4	176.7	171.4	166.3	174.7	181.4	184.6	201.1	205.5	215.2	226.8
30°	237.3	256.4	271.4	262.0	261.0	284.6	298.3	320.5	342.0	355.0	378.6
27.5°	378.7	372.8	408.7	419.3	395.7	433.5	484.9	494.7	560.3	565.6	611.5
25°	598.6	595.5	606.3	658.2	671.4	690.4	778.6	825.2	900.3	941.0	976.1
22.5°	893.7	977.1	991.4	967.5	1081.7	1156.3	1181.0	1315.1	1376.4	1467.9	1495.4
20°	1262.9	1456.9	1702.0	1705.9	1658.9	1874.0	1963.1	2033.6	2183.4	2287.8	2358.6
17.5°	2230.8	2229.3	2729.9	3006.5	2975.2	3130.0	3568.2	3523.0	3877.0	4091.6	4100.6
15°	3651.3	3916.0	4233.7	4735.4	5162.3	5506.5	5922.6	6466.1	6906.3	7423.3	7815.8
12.5°	5276.4	5797.7	6341.5	6913.7	7583.9	8344.8	9172.4	9897.0	10758.9	11513.2	12293.1
10°	6904.6	7730.4	8497.9	9353.1	10305.5	11319.1	12532.9	13593.4	14868.4	15986.6	16721.7
7.5°	8397.7	9388.4	10425.5	11668.7	12998.0	14270.9	15645.0	17132.4	18624.0	19916.1	21013.2
5°	9857.0	10970.8	12120.3	13489.7	15008.9	16603.8	18304.1	20063.2	21626.2	23098.0	24379.1
2.5°	11001.8	12277.6	13590.9	15139.4	16773.9	18390.2	20092.3	21986.0	23803.7	25525.1	26841.1
0°	11682.3	12962.2	14250.8	15891.4	17686.1	19423.0	21320.5	23336.7	25255.6	26901.5	28121.6
-2.5°	11411.2	12657.9	13959.9	15580.8	17309.8	18928.3	20741.2	22694.3	24552.8	26219.8	27486.0
-5°	10798.4	11916.9	13110.4	14609.1	16226.7	17834.6	19612.0	21469.9	23073.2	24552.9	25688.2
-7.5°	9936.6	10968.5	12081.6	13469.1	14956.7	16360.8	17813.6	19312.6	20771.6	22037.1	22971.1
-10°	9021.4	9955.5	10913.7	12026.4	13294.1	14519.7	15745.5	17112.7	18315.2	19359.9	20130.3
-12.5°	8103.6	8870.9	9626.8	10477.6	11565.5	12668.5	13728.6	14875.1	15832.9	16694.8	17380.1
-15°	7222.5	7820.0	8393.5	9217.0	10174.9	10989.5	11641.9	12680.3	13330.5	14096.6	14575.7
-17.5°	6403.7	6880.7	7577.7	8285.6	8969.1	9638.5	10391.2	11006.0	11644.2	12270.0	12681.8
-20°	5759.4	6349.4	6938.5	7514.2	8101.3	8740.3	9336.2	9917.1	10473.3	10954.3	11284.4



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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°	5340.0	5863.7	6359.7	6877.7	7449.7	7986.3	8489.7	9024.6	9500.2	9859.3	10127.9
-25°	4937.3	5392.7	5875.2	6393.6	6877.5	7329.2	7792.8	8205.7	8611.5	8910.5	9161.8
-27.5°	4574.3	5006.4	5481.8	5941.2	6372.5	6794.6	7188.6	7530.7	7868.7	8107.9	8357.8
-30°	4258.5	4696.2	5128.6	5536.9	5942.1	6324.5	6671.9	6996.7	7280.3	7513.3	7722.8
-32.5°	4020.0	4417.0	4802.0	5184.0	5568.0	5920.6	6224.6	6536.6	6797.6	7020.9	7210.7
-35°	3784.2	4157.4	4513.3	4863.4	5216.8	5556.7	5851.1	6122.8	6379.6	6579.6	6753.4
-37.5°	3554.3	3902.2	4231.5	4546.4	4869.8	5183.1	5451.7	5706.8	5936.4	6121.2	6286.1
-40°	3322.6	3641.4	3935.8	4229.1	4519.7	4782.3	5034.7	5269.7	5466.5	5636.8	5786.8
-42.5°	3083.2	3363.9	3629.5	3897.9	4163.3	4395.7	4618.5	4829.6	4997.0	5148.0	5278.0
-45°	2843.0	3090.0	3333.3	3574.5	3792.8	4007.4	4209.3	4387.6	4538.6	4672.3	4785.0
-47.5°	2611.8	2821.7	3044.3	3264.2	3451.8	3635.4	3812.1	3963.2	4094.4	4211.3	4310.5
-50°	2380.7	2568.0	2762.2	2950.9	3123.0	3284.1	3432.2	3564.2	3683.7	3784.8	3869.9
-52.5°	2151.9	2325.8	2491.8	2645.3	2801.6	2949.8	3087.5	3202.9	3307.7	3401.1	3476.1
-55°	1933.5	2087.3	2242.5	2373.2	2499.6	2623.0	2737.7	2840.8	2935.7	3021.5	3088.8
-57.5°	1713.2	1847.3	1977.0	2094.2	2207.6	2316.5	2409.4	2490.3	2566.0	2635.4	2694.7
-60°	1500.5	1612.3	1721.9	1819.7	1914.1	2004.7	2083.9	2152.7	2213.7	2267.4	2316.0
-62.5°	1300.9	1397.0	1484.3	1563.2	1637.2	1711.1	1778.5	1838.0	1889.7	1933.9	1971.9
-65°	1117.4	1196.9	1266.7	1332.1	1393.5	1455.7	1509.9	1558.8	1602.2	1638.8	1668.1
-67.5°	954.2	1016.4	1074.6	1125.2	1177.4	1230.4	1279.4	1322.1	1359.0	1388.2	1411.0
-70°	816.6	866.9	919.0	969.5	1019.2	1064.7	1107.1	1145.0	1178.7	1203.9	1224.0
-72.5°	711.5	754.0	802.0	853.0	900.2	945.4	988.5	1028.6	1066.0	1089.9	1108.6
-75°	636.1	679.9	722.9	765.3	807.1	847.0	887.1	928.0	969.4	993.7	1013.3
-77.5°	552.7	583.4	615.4	650.1	686.9	722.6	757.6	792.1	825.9	842.8	855.8
-80°	423.7	448.3	472.3	496.7	521.2	546.3	571.7	596.8	621.5	632.9	641.5
-82.5°	276.2	293.0	309.0	324.5	339.2	351.8	363.5	374.5	384.6	389.5	392.9
-85°	144.6	152.1	159.1	165.7	171.9	175.7	179.0	181.8	184.1	187.2	189.9
-87.5°	55.7	57.8	59.8	61.8	63.8	64.7	65.6	66.3	66.9	67.9	68.8
-90°	4.3	4.0	3.8	3.5	3.2	2.9	2.7	2.4	2.1	2.1	2.1



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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°	20.6	20.3	20.9	21.4	20.9	20.3	20.6	20.9	21.1	21.4	20.6
87.5°	8.5	7.5	6.9	6.4	6.9	7.5	8.5	9.5	10.5	11.5	10.6
85°	15.7	13.9	12.8	11.8	12.8	13.9	15.7	17.4	19.1	20.7	19.7
82.5°	18.9	18.2	18.2	18.2	18.2	18.2	18.9	19.7	20.6	21.4	22.3
80°	21.8	21.4	21.4	21.4	21.4	21.4	21.8	22.3	22.8	23.4	25.5
77.5°	23.7	23.5	23.0	22.5	23.0	23.5	23.7	24.0	24.2	24.8	27.6
75°	21.8	21.5	21.4	21.4	21.4	21.5	21.8	22.2	22.6	23.5	26.5
72.5°	18.7	18.3	18.2	18.2	18.2	18.3	18.7	19.2	19.6	20.6	22.9
70°	16.3	16.2	15.6	15.0	15.6	16.2	16.3	16.4	16.7	17.4	18.9
67.5°	13.4	13.0	12.8	12.8	12.8	13.0	13.4	13.8	14.3	14.9	15.9
65°	11.3	10.8	10.7	10.7	10.7	10.8	11.3	11.7	12.2	12.9	13.7
62.5°	10.1	9.7	9.2	8.6	9.2	9.7	10.1	10.5	10.9	11.4	12.1
60°	9.1	8.7	8.1	7.5	8.1	8.7	9.1	9.5	9.9	10.3	10.8
57.5°	8.1	7.7	7.5	7.5	7.5	7.7	8.1	8.5	8.9	9.4	9.9
55°	7.0	6.6	6.4	6.4	6.4	6.6	7.0	7.5	7.9	8.6	9.1
52.5°	6.9	6.5	6.4	6.4	6.4	6.5	6.9	7.2	7.6	8.3	8.9
50°	7.8	7.6	7.5	7.5	7.5	7.6	7.8	8.1	8.3	8.8	9.2
47.5°	9.4	8.9	8.6	8.6	8.6	8.9	9.4	9.8	10.0	10.3	10.4
45°	12.3	12.0	11.7	11.8	11.7	12.0	12.3	12.6	13.4	13.5	12.5
42.5°	21.3	20.7	19.8	19.3	19.8	20.7	21.3	21.1	22.1	22.0	21.3
40°	37.8	37.0	35.7	35.3	35.7	37.0	37.8	37.7	39.4	38.0	38.5
37.5°	72.1	71.6	69.3	68.5	69.3	71.6	72.1	71.2	70.6	66.0	68.5
35°	127.6	128.5	126.3	126.3	126.3	128.5	127.6	127.8	124.9	114.1	119.1
32.5°	230.7	233.1	226.6	230.1	226.6	233.1	230.7	226.8	215.2	205.5	201.1
30°	377.8	386.2	382.5	384.2	382.5	386.2	377.8	378.6	355.0	342.0	320.5
27.5°	615.9	622.2	609.2	604.7	609.2	622.2	615.9	611.5	565.6	560.3	494.7
25°	995.9	999.9	987.1	992.1	987.1	999.9	995.9	976.1	941.0	900.3	825.2
22.5°	1551.4	1536.5	1522.4	1509.0	1522.4	1536.5	1551.4	1495.4	1467.9	1376.4	1315.1
20°	2424.4	2390.2	2385.6	2359.8	2385.6	2390.2	2424.4	2358.6	2287.8	2183.4	2033.6
17.5°	4319.5	4381.7	4243.7	3976.9	4243.7	4381.7	4319.5	4100.6	4091.6	3877.0	3523.0
15°	8047.0	8339.1	8464.5	8158.1	8464.5	8339.1	8047.0	7815.8	7423.3	6906.3	6466.1
12.5°	12723.6	12929.2	13178.2	12996.5	13178.2	12929.2	12723.6	12293.1	11513.2	10758.9	9897.0
10°	17353.2	17661.0	18037.9	17868.0	18037.9	17661.0	17353.2	16721.7	15986.6	14868.4	13593.4
7.5°	21617.0	22147.2	22478.5	22265.5	22478.5	22147.2	21617.0	21013.2	19916.1	18624.0	17132.4
5°	25255.8	25675.0	25874.7	25819.6	25874.7	25675.0	25255.8	24379.1	23098.0	21626.2	20063.2
2.5°	27589.4	28032.0	28210.9	28062.2	28210.9	28032.0	27589.4	26841.1	25525.1	23803.7	21986.0
0°	28730.0	29144.7	29429.4	29451.9	29429.4	29144.7	28730.0	28121.6	26901.5	25255.6	23336.7
-2.5°	28070.8	28322.9	28459.1	28368.3	28459.1	28322.9	28070.8	27486.0	26219.8	24552.8	22694.3
-5°	26344.6	26611.1	26697.5	26803.1	26697.5	26611.1	26344.6	25688.2	24552.9	23073.2	21469.9
-7.5°	23496.6	23788.9	24004.5	23995.5	24004.5	23788.9	23496.6	22971.1	22037.1	20771.6	19312.6
-10°	20703.2	20920.4	21145.3	21107.5	21145.3	20920.4	20703.2	20130.3	19359.9	18315.2	17112.7
-12.5°	17934.8	18297.2	18385.2	18358.7	18385.2	18297.2	17934.8	17380.1	16694.8	15832.9	14875.1
-15°	15121.2	15389.7	15367.7	15296.3	15367.7	15389.7	15121.2	14575.7	14096.6	13330.5	12680.3
-17.5°	13038.1	13186.1	13242.7	13187.0	13242.7	13186.1	13038.1	12681.8	12270.0	11644.2	11006.0
-20°	11555.8	11670.2	11708.8	11734.7	11708.8	11670.2	11555.8	11284.4	10954.3	10473.3	9917.1



REPORT NUMBER: P731352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-CV5

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10359.2	10476.1	10510.0	10554.3	10510.0	10476.1	10359.2	10127.9	9859.3	9500.2	9024.6
-25°	9355.7	9469.9	9508.6	9552.6	9508.6	9469.9	9355.7	9161.8	8910.5	8611.5	8205.7
-27.5°	8525.4	8636.9	8683.3	8716.8	8683.3	8636.9	8525.4	8357.8	8107.9	7868.7	7530.7
-30°	7871.6	7981.3	8047.7	8069.3	8047.7	7981.3	7871.6	7722.8	7513.3	7280.3	6996.7
-32.5°	7352.8	7448.7	7511.0	7542.8	7511.0	7448.7	7352.8	7210.7	7020.9	6797.6	6536.6
-35°	6890.8	6987.0	7051.8	7084.7	7051.8	6987.0	6890.8	6753.4	6579.6	6379.6	6122.8
-37.5°	6418.3	6523.1	6591.6	6593.5	6591.6	6523.1	6418.3	6286.1	6121.2	5936.4	5706.8
-40°	5897.0	5980.1	6034.5	6056.3	6034.5	5980.1	5897.0	5786.8	5636.8	5466.5	5269.7
-42.5°	5374.2	5444.8	5488.9	5507.2	5488.9	5444.8	5374.2	5278.0	5148.0	4997.0	4829.6
-45°	4875.0	4946.2	4982.9	4977.5	4982.9	4946.2	4875.0	4785.0	4672.3	4538.6	4387.6
-47.5°	4386.7	4441.9	4472.0	4478.8	4472.0	4441.9	4386.7	4310.5	4211.3	4094.4	3963.2
-50°	3942.2	4000.7	4025.7	4018.6	4025.7	4000.7	3942.2	3869.9	3784.8	3683.7	3564.2
-52.5°	3537.9	3587.7	3609.3	3606.6	3609.3	3587.7	3537.9	3476.1	3401.1	3307.7	3202.9
-55°	3143.7	3186.7	3203.8	3201.0	3203.8	3186.7	3143.7	3088.8	3021.5	2935.7	2840.8
-57.5°	2743.8	2782.5	2794.0	2786.8	2794.0	2782.5	2743.8	2694.7	2635.4	2566.0	2490.3
-60°	2356.4	2388.2	2398.1	2394.0	2398.1	2388.2	2356.4	2316.0	2267.4	2213.7	2152.7
-62.5°	2003.4	2028.0	2038.1	2038.7	2038.1	2028.0	2003.4	1971.9	1933.9	1889.7	1838.0
-65°	1691.9	1710.1	1718.2	1719.8	1718.2	1710.1	1691.9	1668.1	1638.8	1602.2	1558.8
-67.5°	1429.3	1443.6	1448.5	1449.0	1448.5	1443.6	1429.3	1411.0	1388.2	1359.0	1322.1
-70°	1241.9	1257.8	1264.4	1268.2	1264.4	1257.8	1241.9	1224.0	1203.9	1178.7	1145.0
-72.5°	1126.1	1142.5	1150.1	1155.8	1150.1	1142.5	1126.1	1108.6	1089.9	1066.0	1028.6
-75°	1031.9	1049.2	1054.7	1057.4	1054.7	1049.2	1031.9	1013.3	993.7	969.4	928.0
-77.5°	867.0	876.3	879.7	880.8	879.7	876.3	867.0	855.8	842.8	825.9	792.1
-80°	648.2	653.1	662.4	669.9	662.4	653.1	648.2	641.5	632.9	621.5	596.8
-82.5°	395.0	395.8	401.2	405.6	401.2	395.8	395.0	392.9	389.5	384.6	374.5
-85°	192.1	193.8	198.3	202.3	198.3	193.8	192.1	189.9	187.2	184.1	181.8
-87.5°	69.6	70.4	70.1	69.6	70.1	70.4	69.6	68.8	67.9	66.9	66.3
-90°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4



REPORT NUMBER: P731352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-CV5

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	19.8	19.0	18.2	17.9	17.7	17.4	17.1	15.8	14.5	13.1	11.8
87.5°	9.7	8.9	8.1	8.2	8.4	8.5	8.6	8.1	7.6	7.0	6.6
85°	18.6	17.5	16.4	16.5	16.5	16.5	16.4	16.0	15.4	14.6	13.7
82.5°	22.9	23.4	23.8	25.4	26.8	27.7	28.2	28.0	27.5	26.6	25.2
80°	27.4	29.1	30.9	34.3	37.3	39.9	41.9	42.7	43.1	43.0	41.5
77.5°	30.3	33.0	36.0	41.2	45.9	50.4	54.0	55.8	56.6	56.9	55.4
75°	29.5	32.7	37.0	43.9	50.6	57.1	61.8	64.6	66.9	68.6	67.0
72.5°	25.6	28.5	33.6	41.7	50.0	57.6	64.1	69.7	74.3	78.1	75.7
70°	20.7	22.7	27.4	34.9	42.9	51.2	60.0	69.0	78.3	84.6	80.8
67.5°	17.0	18.1	21.6	27.0	33.7	41.5	50.7	61.1	71.0	80.6	79.7
65°	14.6	15.6	17.7	21.1	25.6	31.3	38.5	47.5	58.3	69.2	70.8
62.5°	12.8	13.7	15.1	17.1	19.7	23.0	28.3	35.7	44.5	52.1	55.9
60°	11.3	11.9	12.8	14.0	15.6	17.7	21.3	26.1	32.2	38.5	42.5
57.5°	10.4	10.8	11.2	11.8	12.6	14.1	16.3	18.9	23.8	27.8	31.2
55°	9.5	10.0	10.4	10.6	10.9	11.7	12.8	14.7	17.6	19.9	24.0
52.5°	9.5	9.9	10.2	10.5	10.7	10.7	10.8	12.1	13.9	16.5	18.8
50°	9.6	10.0	10.3	10.6	10.8	10.8	10.7	10.7	12.4	14.4	16.3
47.5°	10.8	11.0	10.7	10.9	11.9	11.3	11.1	11.9	13.4	13.5	15.2
45°	14.2	14.7	13.2	15.1	15.9	15.3	13.1	16.0	16.9	16.5	14.9
42.5°	23.8	23.8	22.6	26.4	27.5	25.6	23.2	25.6	24.6	22.1	24.9
40°	41.5	39.7	41.2	45.3	46.5	43.5	44.3	41.4	38.7	32.6	42.4
37.5°	69.3	66.9	70.9	72.4	72.2	73.5	73.1	66.9	58.3	63.2	70.9
35°	111.3	108.6	112.9	111.0	106.6	117.8	114.2	100.4	93.5	101.3	106.4
32.5°	184.6	181.4	174.7	166.3	171.4	176.7	169.4	148.9	151.9	151.8	146.2
30°	298.3	284.6	261.0	262.0	271.4	256.4	237.3	244.5	234.4	213.5	193.0
27.5°	484.9	433.5	395.7	419.3	408.7	372.8	378.7	368.1	333.9	295.4	267.6
25°	778.6	690.4	671.4	658.2	606.3	595.5	598.6	548.7	467.9	411.9	449.9
22.5°	1181.0	1156.3	1081.7	967.5	991.4	977.1	893.7	780.2	696.1	757.0	708.4
20°	1963.1	1874.0	1658.9	1705.9	1702.0	1456.9	1262.9	1278.3	1327.0	1220.8	1033.1
17.5°	3568.2	3130.0	2975.2	3006.5	2729.9	2229.3	2230.8	2254.6	2087.9	1777.8	1413.5
15°	5922.6	5506.5	5162.3	4735.4	4233.7	3916.0	3651.3	3403.4	2978.7	2448.2	1967.4
12.5°	9172.4	8344.8	7583.9	6913.7	6341.5	5797.7	5276.4	4717.9	4026.1	3364.4	2809.7
10°	12532.9	11319.1	10305.5	9353.1	8497.9	7730.4	6904.6	6054.4	5184.9	4360.4	3652.1
7.5°	15645.0	14270.9	12998.0	11668.7	10425.5	9388.4	8397.7	7374.4	6326.2	5346.0	4486.6
5°	18304.1	16603.8	15008.9	13489.7	12120.3	10970.8	9857.0	8672.3	7437.0	6309.6	5301.9
2.5°	20092.3	18390.2	16773.9	15139.4	13590.9	12277.6	11001.8	9646.2	8217.4	6888.2	5751.4
0°	21320.5	19423.0	17686.1	15891.4	14250.8	12962.2	11682.3	10308.2	8806.7	7348.0	6163.3
-2.5°	20741.2	18928.3	17309.8	15580.8	13959.9	12657.9	11411.2	10161.5	8688.7	7297.9	6155.5
-5°	19612.0	17834.6	16226.7	14609.1	13110.4	11916.9	10798.4	9695.6	8376.1	7139.0	6101.1
-7.5°	17813.6	16360.8	14956.7	13469.1	12081.6	10968.5	9936.6	8897.1	7735.4	6634.3	5687.9
-10°	15745.5	14519.7	13294.1	12026.4	10913.7	9955.5	9021.4	8071.5	7061.6	6098.6	5252.3
-12.5°	13728.6	12668.5	11565.5	10477.6	9626.8	8870.9	8103.6	7262.1	6368.0	5540.2	4806.7
-15°	11641.9	10989.5	10174.9	9217.0	8393.5	7820.0	7222.5	6536.1	5765.1	5010.9	4360.1
-17.5°	10391.2	9638.5	8969.1	8285.6	7577.7	6880.7	6403.7	5860.4	5232.8	4597.2	4014.1
-20°	9336.2	8740.3	8101.3	7514.2	6938.5	6349.4	5759.4	5233.9	4735.0	4217.0	3727.5



REPORT NUMBER: P731352 (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°	8489.7	7986.3	7449.7	6877.7	6359.7	5863.7	5340.0	4792.1	4265.6	3846.2	3440.8
-25°	7792.8	7329.2	6877.5	6393.6	5875.2	5392.7	4937.3	4461.8	3974.1	3510.2	3161.3
-27.5°	7188.6	6794.6	6372.5	5941.2	5481.8	5006.4	4574.3	4149.5	3717.8	3300.5	2911.5
-30°	6671.9	6324.5	5942.1	5536.9	5128.6	4696.2	4258.5	3873.8	3490.0	3108.1	2745.5
-32.5°	6224.6	5920.6	5568.0	5184.0	4802.0	4417.0	4020.0	3615.9	3269.4	2933.7	2601.1
-35°	5851.1	5556.7	5216.8	4863.4	4513.3	4157.4	3784.2	3414.3	3072.4	2760.1	2454.4
-37.5°	5451.7	5183.1	4869.8	4546.4	4231.5	3902.2	3554.3	3214.7	2888.3	2596.2	2317.6
-40°	5034.7	4782.3	4519.7	4229.1	3935.8	3641.4	3322.6	3006.6	2713.6	2434.4	2178.0
-42.5°	4618.5	4395.7	4163.3	3897.9	3629.5	3363.9	3083.2	2800.8	2532.5	2278.2	2039.0
-45°	4209.3	4007.4	3792.8	3574.5	3333.3	3090.0	2843.0	2596.0	2354.2	2120.2	1893.4
-47.5°	3812.1	3635.4	3451.8	3264.2	3044.3	2821.7	2611.8	2395.5	2172.4	1955.0	1754.7
-50°	3432.2	3284.1	3123.0	2950.9	2762.2	2568.0	2380.7	2188.3	1987.5	1797.7	1612.3
-52.5°	3087.5	2949.8	2801.6	2645.3	2491.8	2325.8	2151.9	1984.7	1811.4	1637.3	1470.4
-55°	2737.7	2623.0	2499.6	2373.2	2242.5	2087.3	1933.5	1782.9	1630.3	1471.7	1331.8
-57.5°	2409.4	2316.5	2207.6	2094.2	1977.0	1847.3	1713.2	1577.1	1450.0	1319.6	1193.4
-60°	2083.9	2004.7	1914.1	1819.7	1721.9	1612.3	1500.5	1388.4	1276.4	1170.9	1064.1
-62.5°	1778.5	1711.1	1637.2	1563.2	1484.3	1397.0	1300.9	1210.0	1119.5	1027.8	939.7
-65°	1509.9	1455.7	1393.5	1332.1	1266.7	1196.9	1117.4	1042.8	970.2	895.9	818.9
-67.5°	1279.4	1230.4	1177.4	1125.2	1074.6	1016.4	954.2	890.6	831.6	770.5	706.0
-70°	1107.1	1064.7	1019.2	969.5	919.0	866.9	816.6	765.4	710.0	658.8	610.0
-72.5°	988.5	945.4	900.2	853.0	802.0	754.0	711.5	670.5	625.7	577.0	530.5
-75°	887.1	847.0	807.1	765.3	722.9	679.9	636.1	594.1	553.3	513.9	474.4
-77.5°	757.6	722.6	686.9	650.1	615.4	583.4	552.7	516.0	476.1	438.6	401.6
-80°	571.7	546.3	521.2	496.7	472.3	448.3	423.7	395.3	368.4	341.2	311.7
-82.5°	363.5	351.8	339.2	324.5	309.0	293.0	276.2	256.4	236.9	217.6	198.5
-85°	179.0	175.7	171.9	165.7	159.1	152.1	144.6	136.1	127.4	118.4	109.3
-87.5°	65.6	64.7	63.8	61.8	59.8	57.8	55.7	53.3	50.9	48.4	45.8
-90°	2.7	2.9	3.2	3.5	3.8	4.0	4.3	4.3	4.3	4.3	4.3



REPORT NUMBER: P731352 (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°	11.0	10.2	9.4	8.6	8.3	8.1	7.8	7.5	7.2	7.0	6.7
87.5°	7.2	7.7	8.2	8.6	8.0	7.5	7.0	6.5	6.6	6.7	6.6
85°	13.4	13.2	13.1	13.2	12.1	10.7	9.7	8.8	9.0	9.0	8.9
82.5°	22.7	21.0	19.7	18.7	18.1	17.1	15.7	13.9	12.3	11.5	11.3
80°	37.2	33.2	29.5	26.3	24.5	23.6	22.4	20.4	17.2	14.9	13.5
77.5°	50.0	45.0	40.3	35.6	31.5	28.6	26.9	25.7	21.9	18.1	15.5
75°	61.2	54.9	48.9	43.1	37.6	33.3	29.8	27.2	24.0	21.0	17.4
72.5°	68.8	62.3	56.2	49.6	42.5	36.6	32.1	28.7	25.3	22.0	18.8
70°	74.2	68.1	61.5	54.0	46.5	39.5	33.7	29.7	26.4	22.9	19.6
67.5°	77.6	70.7	64.4	57.6	49.8	42.2	35.0	30.7	27.2	23.8	20.3
65°	69.3	67.9	65.8	58.5	51.7	44.6	36.9	31.9	28.0	24.5	21.0
62.5°	58.8	60.1	59.0	57.3	52.0	45.2	38.9	33.7	28.9	25.1	21.5
60°	45.9	49.3	51.6	51.0	49.4	45.1	39.5	35.4	30.3	25.7	22.0
57.5°	35.6	38.9	42.5	44.5	44.2	42.5	39.6	36.0	31.5	26.6	22.6
55°	27.0	30.9	34.6	37.6	38.9	38.1	38.7	36.1	32.4	27.5	23.3
52.5°	21.7	24.9	28.3	31.7	33.8	34.5	36.0	36.1	32.4	28.2	24.3
50°	18.4	22.0	24.3	26.8	29.4	31.6	33.7	34.4	32.4	28.7	25.3
47.5°	18.4	21.9	23.3	23.6	25.7	29.1	31.5	32.6	32.3	28.6	26.3
45°	22.2	24.7	24.8	24.1	23.7	27.5	29.5	31.1	31.0	29.3	27.4
42.5°	29.9	31.8	29.6	25.6	28.1	27.0	27.9	29.7	29.9	30.1	28.2
40°	45.9	43.2	37.4	36.8	37.0	27.7	28.1	28.4	29.2	30.8	29.0
37.5°	66.8	60.8	50.9	54.3	50.5	38.9	29.2	27.4	29.9	31.4	29.9
35°	100.0	84.5	78.8	78.3	70.2	52.9	31.0	27.5	31.3	32.2	30.8
32.5°	139.7	125.9	120.0	107.3	93.5	69.7	40.5	32.9	33.3	33.3	31.7
30°	191.6	197.6	169.9	139.4	120.6	91.8	60.6	39.7	36.0	34.6	32.7
27.5°	294.9	285.3	231.4	184.7	150.8	119.2	94.9	47.7	39.4	36.4	33.7
25°	430.9	391.2	316.4	238.8	182.9	202.1	138.0	57.7	45.1	39.0	34.8
22.5°	614.5	516.5	412.0	297.7	308.1	307.2	197.7	90.5	52.3	41.9	36.1
20°	828.2	659.0	554.9	515.0	464.7	419.5	278.1	128.0	60.0	45.1	37.4
17.5°	1078.0	970.2	913.4	780.5	646.0	542.1	370.5	169.0	68.2	48.6	38.8
15°	1679.1	1492.4	1312.3	1073.4	842.1	673.2	472.2	212.7	76.7	52.2	42.7
12.5°	2371.3	2038.4	1742.3	1387.3	1049.3	810.4	580.4	257.9	85.4	60.6	50.0
10°	3077.0	2600.7	2194.1	1715.2	1263.5	951.4	691.8	308.3	105.7	72.9	57.5
7.5°	3786.8	3170.9	2657.8	2049.5	1474.6	1089.4	809.9	368.5	128.1	85.3	65.1
5°	4433.4	3652.1	3034.1	2318.4	1650.7	1219.6	924.3	426.2	150.5	97.8	72.8
2.5°	4817.7	3981.1	3339.5	2564.5	1817.4	1344.2	1030.9	480.1	172.5	110.1	80.4
0°	5170.1	4287.2	3621.6	2791.1	1972.4	1461.9	1126.9	528.7	193.7	122.0	87.8
-2.5°	5142.3	4292.8	3614.6	2824.9	2042.2	1523.3	1168.5	588.2	252.6	164.7	115.9
-5°	5083.0	4272.7	3584.2	2837.0	2097.3	1575.1	1198.0	641.0	309.4	206.2	143.3
-7.5°	4820.7	4115.8	3485.2	2816.2	2137.0	1616.3	1216.6	687.1	363.5	246.0	169.6
-10°	4499.2	3871.1	3292.9	2680.7	2077.3	1611.9	1220.5	726.8	414.2	283.5	194.4
-12.5°	4166.9	3616.9	3093.9	2535.4	1993.3	1567.3	1182.6	743.0	458.8	318.2	217.4
-15°	3829.5	3357.6	2892.9	2384.0	1902.9	1516.8	1141.4	746.5	486.0	346.5	238.2
-17.5°	3510.2	3097.2	2694.5	2229.9	1808.1	1461.2	1099.1	746.6	509.6	368.1	256.2
-20°	3284.7	2881.9	2501.7	2076.0	1710.5	1401.5	1057.6	743.9	529.6	387.2	271.8



REPORT NUMBER: P731352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3060.4	2700.6	2336.0	1946.9	1620.4	1338.4	1018.7	739.0	545.8	403.5	285.3
-25°	2834.3	2516.9	2180.5	1844.4	1541.7	1277.7	992.5	732.4	557.9	416.9	296.3
-27.5°	2623.0	2335.8	2031.6	1741.6	1472.6	1226.1	976.3	742.5	568.0	427.4	304.8
-30°	2419.5	2172.2	1908.4	1644.3	1400.6	1174.8	960.4	748.4	578.0	435.8	310.8
-32.5°	2280.5	2022.4	1793.9	1560.5	1335.0	1120.9	930.0	749.2	584.1	441.4	316.1
-35°	2172.3	1910.6	1684.5	1475.4	1270.6	1073.3	892.4	744.8	586.3	443.4	319.6
-37.5°	2054.0	1813.4	1590.8	1394.8	1203.8	1021.6	859.6	720.5	584.6	441.8	320.6
-40°	1938.4	1711.7	1503.8	1319.7	1140.7	965.9	823.1	695.0	579.2	436.6	319.0
-42.5°	1813.7	1607.9	1417.7	1242.7	1075.7	921.6	784.1	666.0	555.7	430.8	315.0
-45°	1691.2	1500.3	1327.3	1165.5	1009.5	873.9	747.8	633.6	527.6	423.1	308.9
-47.5°	1563.3	1394.1	1234.7	1083.1	952.6	824.1	707.5	599.2	497.2	411.8	300.7
-50°	1440.1	1285.5	1139.8	1007.2	887.8	774.7	664.0	562.0	469.0	387.4	289.9
-52.5°	1318.1	1177.6	1048.1	929.7	823.3	721.0	619.3	522.6	438.3	361.6	276.5
-55°	1196.0	1071.8	956.5	853.3	756.6	665.6	571.6	484.5	405.2	334.4	260.8
-57.5°	1078.4	965.3	868.7	776.8	688.9	606.2	523.4	443.6	371.5	305.6	244.0
-60°	961.4	869.3	781.8	698.7	619.4	545.8	473.6	401.2	336.5	276.0	221.8
-62.5°	854.1	771.8	693.0	618.3	550.4	485.6	421.9	359.2	299.8	248.0	197.3
-65°	746.9	674.1	601.8	542.0	482.5	426.0	372.0	315.4	266.2	219.2	173.6
-67.5°	640.7	583.5	521.5	466.3	419.9	372.4	321.2	275.9	232.9	189.7	152.9
-70°	558.0	501.9	449.2	405.7	363.7	320.1	279.1	238.1	198.8	165.9	131.8
-72.5°	487.6	441.6	392.2	348.2	314.6	278.1	238.6	201.5	172.3	141.9	110.3
-75°	430.7	384.3	341.3	304.6	271.6	235.9	201.5	172.5	145.6	117.6	91.2
-77.5°	362.0	325.4	291.9	255.5	221.7	191.7	165.8	143.2	117.9	93.8	72.4
-80°	277.9	246.2	216.6	189.5	166.1	145.8	127.3	108.6	87.9	69.4	53.1
-82.5°	176.9	159.3	143.4	128.3	114.0	99.7	85.7	71.7	57.2	44.4	36.7
-85°	99.6	90.2	81.4	73.0	63.1	53.4	47.4	41.8	36.4	31.4	26.8
-87.5°	43.9	41.8	39.7	37.4	34.0	30.8	27.7	24.7	21.9	19.2	16.7
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



REPORT NUMBER: P731352 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.4	6.2	5.9	5.7	5.4	4.9	4.3
87.5°	6.5	6.0	5.5	5.1	4.8	4.5	4.3
85°	8.7	7.6	6.7	5.9	5.2	4.7	4.3
82.5°	10.9	9.3	7.9	6.7	5.7	4.9	4.3
80°	12.9	10.9	9.0	7.5	6.1	5.0	4.3
77.5°	13.9	12.1	10.2	8.2	6.6	5.2	4.3
75°	14.8	12.7	11.1	9.0	7.0	5.4	4.3
72.5°	15.7	13.1	11.3	9.7	7.4	5.6	4.3
70°	16.5	13.6	11.5	10.3	7.8	5.7	4.3
67.5°	17.1	13.9	11.6	10.2	8.2	5.9	4.3
65°	17.7	14.4	11.7	10.2	8.6	6.1	4.3
62.5°	18.4	15.0	11.7	10.1	9.0	6.2	4.3
60°	19.0	15.6	11.7	10.0	9.3	6.4	4.3
57.5°	19.7	16.1	12.2	9.8	9.2	6.5	4.3
55°	20.4	16.7	12.7	9.7	9.2	6.6	4.3
52.5°	21.2	17.2	13.1	9.5	9.1	6.8	4.3
50°	22.0	18.0	13.6	9.3	9.0	6.9	4.3
47.5°	22.8	18.7	14.0	9.2	9.0	7.0	4.3
45°	23.7	19.4	14.4	9.5	8.9	7.1	4.3
42.5°	24.6	20.2	14.8	9.8	8.9	7.2	4.3
40°	25.5	20.9	15.2	10.2	8.9	7.3	4.3
37.5°	26.4	21.7	15.8	10.8	8.9	7.3	4.3
35°	27.2	22.4	16.3	11.4	8.9	7.4	4.3
32.5°	28.0	23.0	16.9	11.9	8.9	7.5	4.3
30°	28.8	23.6	17.4	12.5	9.0	7.5	4.3
27.5°	29.5	24.2	18.4	13.1	9.0	7.6	4.3
25°	30.3	24.8	19.6	13.6	9.0	7.6	4.3
22.5°	31.0	25.7	20.8	14.2	9.1	7.6	4.3
20°	31.8	27.8	21.9	14.7	9.1	7.6	4.3
17.5°	34.5	29.9	23.1	15.3	9.2	7.7	4.3
15°	38.7	32.1	24.2	15.8	9.3	7.7	4.3
12.5°	43.0	34.3	25.3	16.3	9.3	7.6	4.3
10°	47.5	36.5	26.4	16.7	9.4	7.6	4.3
7.5°	52.1	38.7	27.4	17.1	9.4	7.6	4.3
5°	56.6	40.9	28.3	17.5	9.5	7.6	4.3
2.5°	61.0	42.9	29.2	17.9	9.6	7.5	4.3
0°	65.3	44.9	30.0	18.2	9.6	7.5	4.3
-2.5°	82.3	54.7	35.0	20.4	10.3	7.7	4.3
-5°	98.9	64.2	39.9	22.6	11.1	7.8	4.3
-7.5°	114.8	73.3	44.6	24.6	11.8	8.0	4.3
-10°	129.8	81.9	49.0	26.6	12.5	8.1	4.3
-12.5°	143.8	89.9	53.1	28.4	13.1	8.2	4.3
-15°	156.4	97.2	56.9	30.0	13.7	8.3	4.3
-17.5°	167.5	103.6	60.2	31.4	14.3	8.4	4.3
-20°	177.9	109.2	63.1	32.7	14.8	8.5	4.3



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	188.5	113.7	65.4	33.7	15.3	8.6	4.3
-25°	197.5	119.5	67.2	34.5	15.7	8.7	4.3
-27.5°	204.8	125.1	68.4	35.0	16.1	8.7	4.3
-30°	210.4	129.5	69.3	35.3	16.3	8.7	4.3
-32.5°	214.2	132.6	71.5	35.3	16.6	8.7	4.3
-35°	217.2	134.4	72.9	35.1	16.7	8.7	4.3
-37.5°	218.6	135.2	73.5	34.5	16.8	8.7	4.3
-40°	218.1	135.5	73.2	33.6	16.8	8.7	4.3
-42.5°	215.5	134.3	72.6	32.8	16.7	8.6	4.3
-45°	211.0	131.8	72.0	32.3	16.5	8.6	4.3
-47.5°	204.4	127.9	70.5	31.3	16.3	8.5	4.3
-50°	197.2	122.7	68.4	31.0	16.0	8.4	4.3
-52.5°	188.2	116.1	65.4	30.7	15.6	8.2	4.3
-55°	177.4	110.2	61.8	30.1	15.1	8.1	4.3
-57.5°	164.7	103.6	57.5	29.1	14.6	7.9	4.3
-60°	150.8	95.9	52.6	27.8	14.0	7.8	4.3
-62.5°	138.4	87.2	49.4	26.3	13.5	7.6	4.3
-65°	124.7	77.6	45.7	24.5	12.9	7.4	4.3
-67.5°	109.7	68.9	41.5	22.4	12.3	7.2	4.3
-70°	93.6	61.2	36.9	20.1	11.6	6.9	4.3
-72.5°	80.5	52.9	31.9	18.4	10.9	6.7	4.3
-75°	67.3	44.0	26.5	16.8	10.2	6.5	4.3
-77.5°	53.3	34.7	23.0	15.1	9.5	6.2	4.3
-80°	38.8	28.0	19.7	13.3	8.7	5.9	4.3
-82.5°	30.3	22.7	16.4	11.4	7.9	5.7	4.3
-85°	22.4	17.2	12.9	9.5	7.1	5.4	4.3
-87.5°	14.4	11.7	9.4	7.6	6.2	5.1	4.3
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3

(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

