

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: P731446 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-7F-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731446 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-44)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-7F-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 7F BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

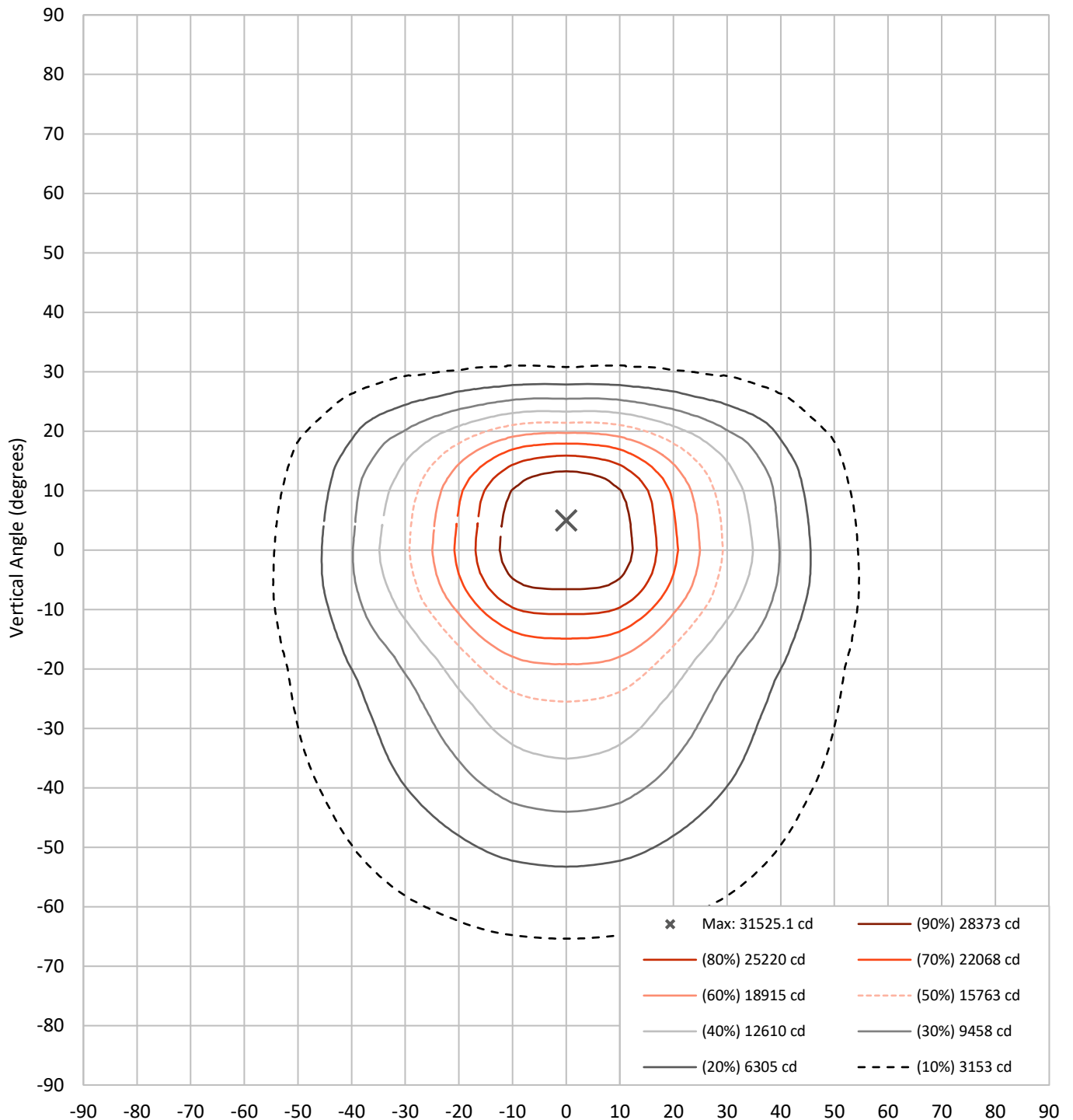
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	30889.3 lumens	Max Intensity:	31525.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	89.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.7°H x 46.8°V	Field Angle (10%):	107.9°H x 96.1°V
Beam Lumens:	14857.1 lumens	Field Lumens:	28635.3 lumens
Beam Efficiency:	48.1%	Field Efficiency:	92.7%

Input Watts (W): 345.8
Input Voltage (V): NR
Input Current (A_{in}): 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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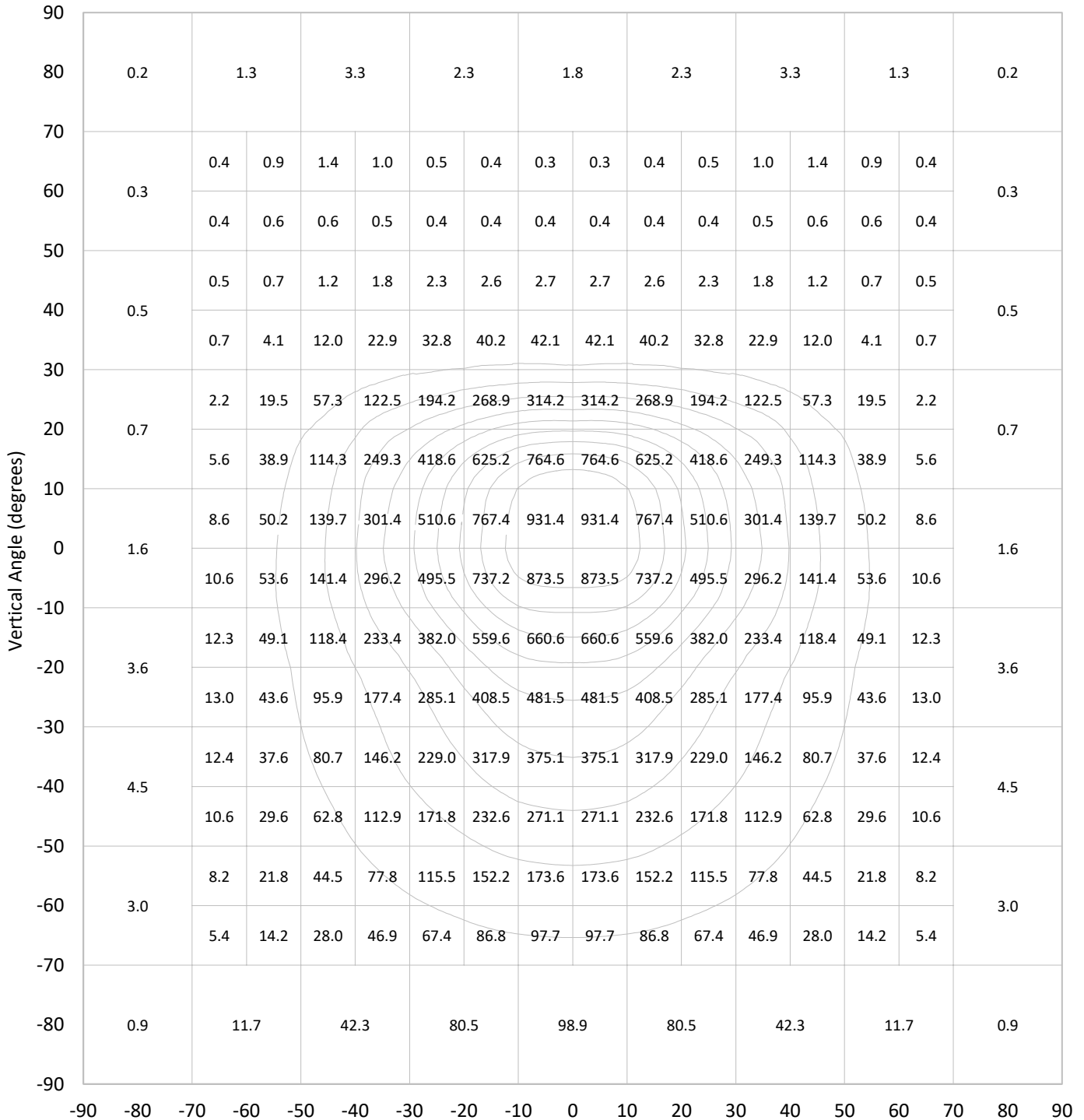
Iso-Candela Plot





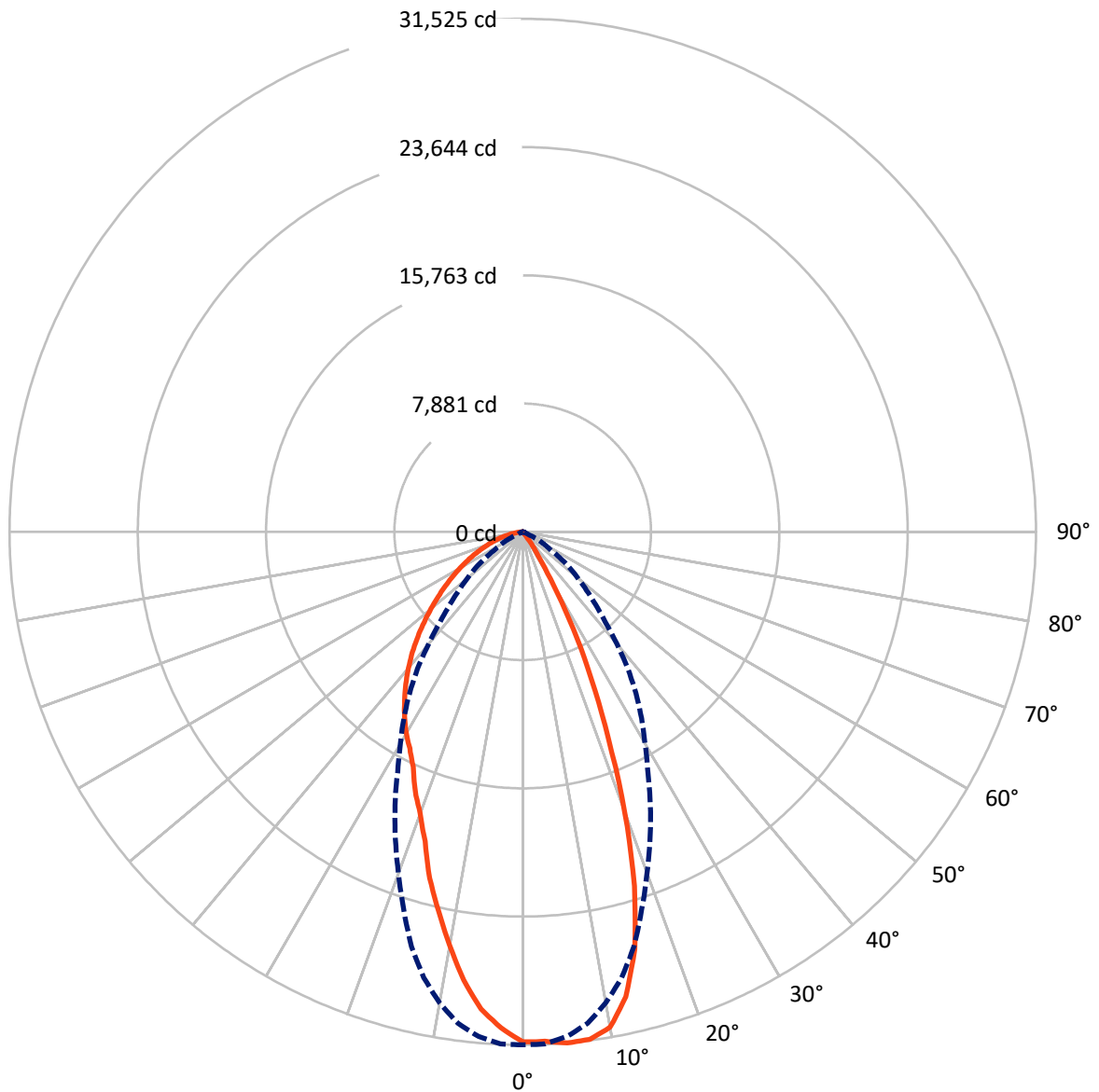
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Lumen Table



REPORT NUMBER: P731446 (CONVERTED FROM TYPE C PHOTOMETRY)
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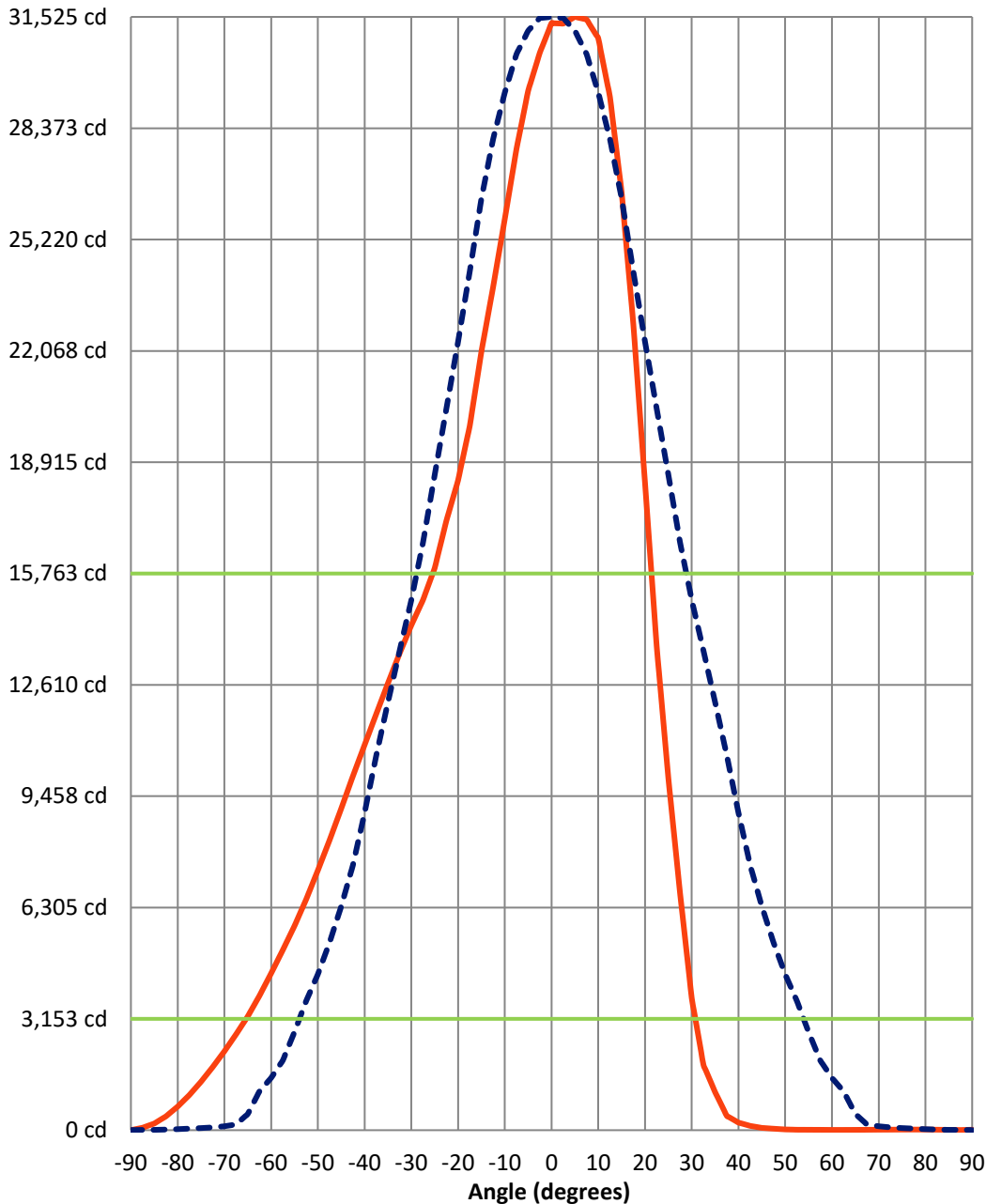
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 57.7°
 V Angle: 46.8°
 Lumens: 14857.1
 Efficiency: 48.1%

Field:
 H Angle: 107.9°
 V Angle: 96.1°
 Lumens: 28635.3
 Efficiency: 92.7%

Spill:
 Lumens: 2254
 Efficiency: 7.3%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 5-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.3	4.9	5.4	5.7	6.0	6.2	6.5	6.8	7.1	7.3	7.6
87.5°	4.3	5.0	5.8	5.8	6.0	6.2	6.6	6.5	6.4	6.2	6.0
85°	4.3	5.2	6.1	6.5	7.1	7.9	8.8	8.9	9.0	8.9	8.7
82.5°	4.3	5.3	6.5	7.2	8.2	9.5	11.0	11.4	11.6	12.2	13.4
80°	4.3	5.5	6.9	7.9	9.3	11.1	13.0	13.2	14.3	16.3	19.2
77.5°	4.3	5.7	7.2	8.6	10.4	12.2	13.5	14.6	16.8	20.2	23.6
75°	4.3	5.8	7.6	9.2	11.3	12.4	13.9	15.8	19.0	21.6	24.2
72.5°	4.3	6.0	7.9	9.9	11.3	12.5	14.3	16.8	19.5	22.2	24.9
70°	4.3	6.1	8.2	10.4	11.3	12.7	14.6	17.2	20.0	22.7	26.2
67.5°	4.3	6.2	8.5	10.3	11.2	12.8	15.1	17.6	20.4	24.0	27.6
65°	4.3	6.4	8.8	10.2	11.2	13.0	15.5	17.9	21.5	25.2	29.2
62.5°	4.3	6.5	9.1	10.0	11.1	13.5	15.9	18.7	22.5	26.5	31.0
60°	4.3	6.6	9.4	9.9	11.0	13.9	16.4	19.5	23.5	27.9	32.8
57.5°	4.3	6.8	9.3	9.7	11.4	14.4	17.2	20.4	24.5	29.2	33.6
55°	4.3	6.9	9.2	9.6	11.7	14.8	18.1	21.3	25.4	30.2	34.2
52.5°	4.3	7.0	9.2	9.4	12.1	15.3	18.9	22.4	26.2	30.8	34.7
50°	4.3	7.1	9.1	9.2	12.5	16.0	19.7	23.5	26.9	31.4	34.9
47.5°	4.3	7.2	9.1	9.1	12.9	16.6	20.6	24.8	27.4	32.0	35.5
45°	4.3	7.3	9.0	9.3	13.2	17.3	21.8	26.2	29.0	33.1	36.6
42.5°	4.3	7.4	9.0	9.6	13.5	17.9	23.0	27.7	30.8	34.6	38.4
40°	4.3	7.4	9.0	10.0	13.9	18.5	24.3	29.5	33.1	36.6	40.9
37.5°	4.3	7.5	9.0	10.5	14.4	19.0	25.7	31.4	36.1	40.2	43.9
35°	4.3	7.6	9.0	11.0	14.8	19.9	27.1	33.4	39.2	44.5	48.1
32.5°	4.3	7.6	9.0	11.6	15.2	21.0	28.6	35.5	42.4	49.3	56.1
30°	4.3	7.6	9.0	12.1	15.5	22.0	30.3	37.9	45.7	54.6	65.3
27.5°	4.3	7.7	9.1	12.7	16.6	23.1	32.0	40.6	49.6	60.4	75.5
25°	4.3	7.7	9.1	13.3	17.8	24.1	33.7	43.3	54.2	68.1	87.9
22.5°	4.3	7.7	9.1	13.9	19.2	25.6	35.4	46.1	59.0	77.0	129.0
20°	4.3	7.7	9.2	14.4	20.5	28.3	37.1	48.8	63.9	86.4	175.0
17.5°	4.3	7.8	9.3	15.0	21.9	31.1	40.3	51.5	68.9	96.1	224.9
15°	4.3	7.8	9.3	15.6	23.3	33.9	44.4	55.6	73.9	105.9	277.3
12.5°	4.3	7.7	9.4	16.1	24.7	36.7	48.4	61.5	81.6	115.7	331.0
10°	4.3	7.7	9.5	16.6	26.1	39.5	52.3	67.4	91.6	130.9	381.7
7.5°	4.3	7.7	9.5	17.1	27.5	42.2	56.2	73.2	101.5	146.6	422.9
5°	4.3	7.7	9.6	17.6	28.9	44.8	60.0	78.9	111.3	161.9	458.8
2.5°	4.3	7.6	9.6	18.0	30.1	47.3	63.6	84.4	120.7	176.5	489.1
0°	4.3	7.6	9.7	18.4	31.3	49.7	67.0	89.7	129.7	190.2	513.2
-2.5°	4.3	7.7	10.5	20.6	36.4	59.4	83.8	117.9	173.7	254.4	580.2
-5°	4.3	7.9	11.2	22.8	41.3	68.8	100.2	145.4	216.4	316.5	640.6
-7.5°	4.3	8.0	11.9	24.9	46.0	77.8	115.9	171.8	257.2	375.7	694.5
-10°	4.3	8.1	12.6	26.8	50.5	86.3	130.9	196.6	295.4	431.1	741.8
-12.5°	4.3	8.2	13.2	28.6	54.6	94.2	144.7	219.5	330.4	481.7	785.9
-15°	4.3	8.3	13.9	30.3	58.3	101.3	157.4	240.1	363.6	527.4	823.6
-17.5°	4.3	8.4	14.4	31.7	61.6	107.6	168.7	262.1	395.6	567.9	852.8
-20°	4.3	8.4	14.9	33.0	64.5	112.9	181.0	284.6	423.8	602.5	873.2



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.3	8.5	15.4	34.0	66.8	117.2	195.7	304.2	448.0	631.0	884.4
-25°	4.3	8.5	15.8	34.8	68.5	123.8	208.2	320.7	467.8	652.8	886.3
-27.5°	4.3	8.6	16.1	35.4	69.6	130.5	218.4	333.8	483.0	669.9	907.3
-30°	4.3	8.6	16.3	35.6	70.5	135.7	226.1	343.4	496.0	685.3	920.6
-32.5°	4.3	8.6	16.5	35.6	73.1	139.3	231.2	351.6	505.7	694.4	924.6
-35°	4.3	8.6	16.6	35.4	74.8	141.4	234.9	356.8	510.6	697.2	919.2
-37.5°	4.3	8.5	16.6	34.8	75.6	142.3	236.7	358.2	510.4	693.5	892.0
-40°	4.3	8.5	16.6	33.9	75.4	142.9	236.0	355.7	505.1	687.0	863.4
-42.5°	4.3	8.4	16.4	33.2	75.0	141.8	232.8	349.4	497.1	663.6	829.3
-45°	4.3	8.3	16.2	32.8	74.6	139.2	227.2	340.7	485.2	634.2	790.9
-47.5°	4.3	8.3	15.9	31.9	73.3	135.1	219.1	330.7	467.9	600.6	752.6
-50°	4.3	8.1	15.5	31.6	71.2	129.4	211.1	317.3	438.9	567.0	709.5
-52.5°	4.3	8.0	15.0	31.3	68.4	122.2	201.3	300.8	410.8	529.7	662.3
-55°	4.3	7.9	14.5	30.6	64.7	116.1	189.4	281.5	381.2	488.6	614.7
-57.5°	4.3	7.7	13.8	29.6	60.4	109.4	175.4	262.9	348.9	448.8	563.1
-60°	4.3	7.6	13.1	28.2	55.4	101.5	160.0	239.5	315.1	406.9	509.5
-62.5°	4.3	7.4	12.7	26.6	51.9	92.6	147.2	213.5	283.5	362.0	456.4
-65°	4.3	7.2	12.1	24.6	47.9	82.7	132.9	187.9	249.9	320.3	400.0
-67.5°	4.3	7.0	11.6	22.4	43.4	73.5	117.3	165.8	214.6	278.1	347.3
-70°	4.3	6.8	11.0	19.9	38.4	65.1	100.5	142.6	185.8	233.8	295.1
-72.5°	4.3	6.6	10.4	18.2	33.0	56.2	86.5	118.4	156.1	197.7	243.1
-75°	4.3	6.3	9.7	16.6	27.3	46.6	72.1	97.4	125.3	160.6	199.2
-77.5°	4.3	6.1	9.0	15.0	23.6	36.5	57.1	77.1	99.3	124.3	153.9
-80°	4.3	5.9	8.3	13.2	20.2	29.3	41.4	56.3	73.2	92.4	113.7
-82.5°	4.3	5.6	7.6	11.4	16.8	23.7	32.2	38.7	46.6	59.7	74.6
-85°	4.3	5.4	6.9	9.5	13.2	18.0	23.7	28.2	32.8	37.8	43.1
-87.5°	4.3	5.1	6.1	7.6	9.6	12.1	15.2	17.5	20.0	22.6	25.4
-90°	4.3	4.9	5.4	5.1	4.9	4.6	4.3	4.0	3.8	3.5	3.2



REPORT NUMBER: P731446 (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°	7.6	7.6	7.6	7.6	7.9	8.1	8.4	8.6	9.2	9.7	10.3
87.5°	6.3	6.7	7.1	7.6	7.0	6.4	5.6	4.8	5.0	5.3	5.6
85°	9.4	10.2	11.2	11.9	11.4	10.9	10.6	10.4	10.9	11.4	11.8
82.5°	14.8	15.7	16.2	16.3	16.6	17.2	18.1	20.0	21.2	22.0	22.5
80°	20.6	21.2	21.7	23.1	25.7	28.7	32.1	35.8	37.0	37.1	36.6
77.5°	24.2	25.5	28.0	31.8	36.0	40.3	45.0	50.1	51.6	51.1	50.2
75°	26.2	29.3	33.8	39.2	44.8	50.6	56.7	62.5	64.1	62.3	59.9
72.5°	28.2	33.0	38.9	45.9	52.1	58.0	64.6	71.8	74.4	70.7	66.4
70°	30.3	36.2	42.9	49.9	57.0	63.7	70.1	77.1	81.2	75.5	66.7
67.5°	32.0	38.9	46.0	53.2	59.6	66.2	73.5	76.4	78.3	69.0	59.1
65°	34.0	41.3	47.8	54.2	61.0	63.8	66.1	68.6	68.3	57.6	47.1
62.5°	36.0	42.0	48.3	53.3	54.9	56.6	56.6	54.9	52.3	45.0	36.0
60°	36.7	41.9	46.2	47.9	48.4	46.8	44.7	42.7	39.5	33.4	27.2
57.5°	37.2	40.0	42.0	42.5	40.6	37.5	36.1	32.9	30.2	26.7	21.6
55°	37.0	36.6	37.8	36.8	34.6	32.1	29.6	27.5	24.1	23.0	20.7
52.5°	36.0	34.4	33.9	32.7	31.2	28.7	26.2	24.5	23.7	22.3	20.4
50°	35.7	33.6	31.0	30.9	29.7	27.8	25.2	24.8	24.8	23.7	21.5
47.5°	36.1	33.6	30.3	30.4	30.5	31.2	28.9	27.9	28.3	31.5	28.1
45°	37.3	36.0	32.6	32.5	35.5	39.5	43.1	33.2	43.2	48.2	52.1
42.5°	39.3	39.9	41.7	35.5	47.0	61.4	68.3	71.8	68.1	83.9	100.1
40°	43.6	45.2	57.2	62.0	66.8	96.7	138.2	147.8	112.3	156.2	183.3
37.5°	49.0	64.2	85.3	110.6	108.3	170.7	235.5	285.3	280.4	265.2	379.7
35°	55.1	87.8	144.4	200.9	225.7	284.8	404.5	491.2	542.8	573.9	668.2
32.5°	72.1	115.6	218.2	338.3	441.7	500.3	613.3	803.4	983.2	1090.5	1089.5
30°	101.9	184.2	322.6	507.0	708.0	872.9	966.3	1210.5	1553.2	1797.0	1959.4
27.5°	145.9	267.6	483.5	750.7	1032.3	1312.2	1498.7	1816.0	2277.2	2648.7	2995.7
25°	199.7	399.9	664.7	1040.5	1454.6	1810.1	2078.4	2519.5	3103.9	3686.5	4267.0
22.5°	285.4	553.7	865.8	1357.3	1920.6	2324.7	2718.8	3256.4	3932.3	4750.2	5635.3
20°	404.8	732.6	1080.6	1606.0	2386.7	2848.5	3332.4	3974.1	4762.3	5756.4	6938.1
17.5°	533.8	901.5	1291.2	1876.9	2638.6	3278.6	3928.3	4659.6	5542.9	6696.1	7969.1
15°	669.5	1060.4	1479.3	2118.8	2874.4	3565.9	4334.7	5285.7	6327.4	7574.6	8906.2
12.5°	808.6	1209.1	1646.0	2331.8	3099.6	3826.2	4646.1	5635.2	6847.0	8310.0	9707.9
10°	947.7	1347.7	1792.5	2516.5	3310.8	4058.9	4913.5	5925.5	7158.4	8624.2	10135.1
7.5°	1033.0	1439.1	1912.3	2673.3	3504.5	4263.6	5138.0	6158.7	7374.2	8848.8	10406.0
5°	1097.5	1480.2	1974.6	2780.0	3657.6	4415.2	5313.1	6337.5	7504.0	8985.7	10611.7
2.5°	1147.7	1510.5	2024.3	2859.5	3773.3	4497.6	5417.4	6451.9	7639.4	9155.8	10819.4
0°	1183.1	1531.0	2060.4	2913.9	3860.4	4550.8	5485.4	6520.5	7733.8	9303.7	11004.3
-2.5°	1217.5	1594.3	2133.8	2983.4	3873.0	4558.7	5511.3	6523.3	7733.7	9275.0	10927.7
-5°	1239.1	1647.0	2191.7	3027.2	3860.1	4542.4	5497.0	6484.1	7649.5	9106.8	10643.7
-7.5°	1250.3	1687.3	2233.6	3033.8	3793.4	4446.6	5325.2	6253.1	7371.3	8736.9	10154.0
-10°	1256.3	1711.6	2229.1	2942.4	3655.0	4292.5	5095.7	5984.8	7038.1	8308.0	9619.1
-12.5°	1272.8	1724.7	2208.9	2842.7	3504.6	4118.4	4841.3	5683.2	6651.6	7828.3	9031.3
-15°	1281.7	1731.4	2180.9	2739.8	3346.5	3925.5	4565.9	5351.3	6232.9	7285.5	8352.8
-17.5°	1284.2	1732.6	2146.7	2638.5	3184.6	3715.2	4295.0	5066.9	5869.6	6778.6	7688.8
-20°	1281.4	1729.4	2107.9	2543.1	3025.4	3562.5	4147.7	4821.1	5539.7	6308.3	7066.7



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1274.3	1722.6	2075.3	2475.5	2949.0	3462.4	4000.7	4583.4	5201.7	5869.2	6638.3
-25°	1270.8	1697.9	2053.4	2427.6	2875.0	3357.1	3846.2	4363.9	4902.9	5602.0	6335.5
-27.5°	1265.2	1671.7	2010.5	2361.2	2789.4	3250.8	3709.5	4182.0	4735.4	5363.4	6044.1
-30°	1248.5	1608.5	1952.2	2283.3	2698.8	3143.3	3581.4	4030.6	4554.2	5146.3	5777.8
-32.5°	1201.5	1536.8	1874.7	2207.3	2589.8	3025.5	3449.1	3884.7	4370.5	4901.0	5508.5
-35°	1149.0	1462.9	1787.7	2113.0	2462.5	2882.7	3294.9	3715.8	4166.8	4664.5	5230.9
-37.5°	1110.7	1383.4	1694.7	2006.8	2342.2	2715.6	3119.8	3525.0	3951.9	4426.2	4961.9
-40°	1065.1	1298.7	1600.2	1899.0	2204.3	2548.5	2926.1	3315.1	3715.8	4188.8	4679.7
-42.5°	1014.1	1239.7	1502.3	1784.7	2072.6	2385.5	2722.4	3092.5	3494.6	3934.6	4395.5
-45°	970.2	1173.5	1404.4	1668.6	1936.1	2219.6	2532.0	2862.9	3260.1	3669.5	4097.5
-47.5°	920.1	1104.3	1321.4	1545.9	1797.9	2059.3	2335.7	2657.9	3010.8	3394.1	3786.8
-50°	866.0	1041.5	1226.7	1435.5	1658.8	1898.1	2150.4	2444.4	2766.5	3109.0	3470.3
-52.5°	811.6	972.4	1142.8	1324.6	1527.3	1742.3	1976.1	2238.0	2523.0	2823.1	3141.9
-55°	752.0	902.1	1057.2	1222.0	1398.9	1594.0	1803.0	2037.1	2282.2	2554.2	2822.3
-57.5°	690.7	826.5	969.5	1122.1	1281.1	1447.0	1636.4	1834.6	2056.1	2288.7	2525.3
-60°	626.7	748.3	877.9	1018.3	1166.0	1315.4	1468.9	1644.6	1832.5	2025.7	2237.2
-62.5°	559.6	668.7	784.7	909.1	1044.3	1179.5	1317.1	1462.4	1614.7	1788.3	1964.7
-65°	493.0	587.1	690.3	801.0	916.8	1038.2	1161.5	1286.0	1419.3	1562.3	1710.9
-67.5°	422.9	507.8	596.6	690.6	793.4	896.5	1004.1	1116.7	1229.9	1345.8	1467.8
-70°	359.7	427.1	504.5	586.5	669.5	753.9	847.0	943.6	1042.3	1140.8	1242.2
-72.5°	296.1	354.0	415.8	481.4	551.1	620.6	693.2	768.6	848.7	931.7	1015.9
-75°	238.2	279.3	330.0	384.6	437.8	490.2	544.7	605.9	669.4	733.4	797.2
-77.5°	184.8	217.5	252.8	290.4	327.4	369.4	412.5	456.5	502.4	549.6	597.4
-80°	133.8	154.5	180.5	208.6	235.4	262.6	290.6	319.2	349.1	382.2	417.9
-82.5°	88.6	103.4	118.9	135.0	150.0	164.8	180.7	200.2	219.9	240.1	260.7
-85°	47.4	51.8	60.9	70.5	80.1	89.6	99.2	108.7	118.5	128.0	137.2
-87.5°	27.5	29.7	31.9	34.2	36.6	39.0	41.4	43.7	47.0	50.2	53.5
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	10.8	11.1	11.4	11.6	11.9	12.2	12.5	12.7	13.0	13.3	13.5
87.5°	5.9	5.5	5.0	4.6	4.1	5.4	6.7	8.1	9.4	8.7	8.0
85°	12.0	12.1	12.1	12.2	12.2	13.6	15.1	16.4	17.8	16.4	15.0
82.5°	22.6	22.2	21.5	20.3	18.8	18.5	18.0	17.3	16.5	15.8	15.1
80°	35.8	34.0	31.7	28.9	25.8	24.2	22.7	21.0	19.1	18.6	18.2
77.5°	48.3	44.9	40.9	36.6	32.0	29.1	26.5	23.7	20.7	19.9	19.4
75°	57.0	52.7	47.0	40.9	34.5	30.0	26.5	23.0	19.5	18.6	18.5
72.5°	61.4	55.6	48.3	39.8	31.7	26.3	23.0	20.0	17.4	16.4	16.0
70°	57.8	48.8	40.5	32.7	25.5	20.6	18.3	16.2	14.4	13.9	14.1
67.5°	48.8	39.8	32.2	25.5	19.7	15.8	14.4	13.3	12.5	12.2	12.2
65°	38.1	30.6	24.4	19.3	15.1	12.7	12.3	11.8	11.4	11.0	10.6
62.5°	28.2	22.4	18.5	15.5	13.3	11.9	11.5	11.0	10.5	9.9	9.5
60°	21.9	17.4	15.4	14.1	13.0	12.1	11.7	11.4	11.3	11.1	10.8
57.5°	19.1	16.7	14.9	14.2	13.6	13.2	12.9	12.7	12.3	11.9	11.5
55°	18.6	16.8	15.2	14.8	14.5	14.2	13.8	13.5	13.1	12.6	12.4
52.5°	18.6	17.8	16.6	16.1	16.3	15.9	15.0	15.5	15.6	15.1	14.9
50°	21.0	21.2	21.5	19.7	21.5	22.4	21.2	22.1	23.5	23.7	23.6
47.5°	29.8	31.8	34.4	32.4	34.8	38.4	38.1	38.3	41.6	42.0	41.8
45°	47.6	56.2	60.3	62.6	61.7	70.1	71.7	69.0	73.4	74.2	72.9
42.5°	95.2	100.0	110.8	119.3	114.4	123.0	125.6	117.8	125.4	128.8	125.1
40°	213.3	169.6	201.4	223.3	215.7	198.9	228.0	217.6	216.6	228.7	219.2
37.5°	421.2	373.9	406.4	469.1	466.8	387.9	475.9	470.2	395.2	484.1	476.4
35°	755.4	842.9	803.8	921.0	954.9	972.5	1021.3	1071.8	1016.5	1089.3	1087.4
32.5°	1352.6	1534.1	1614.4	1628.6	1778.9	1901.4	1849.5	2046.0	2034.0	2083.1	2133.4
30°	2135.3	2540.0	2744.8	2749.8	2999.2	3218.7	3288.4	3535.0	3680.8	3656.6	3900.9
27.5°	3406.9	3804.4	4141.7	4429.5	4623.8	4969.9	5451.6	5694.7	6053.0	6193.6	6531.2
25°	4843.7	5337.6	5870.0	6370.8	6782.1	7402.0	8001.6	8379.6	8892.3	9294.1	9702.4
22.5°	6400.2	7055.3	7738.5	8487.7	9252.6	10008.9	10737.2	11435.6	12119.2	12874.2	13335.8
20°	7991.4	8732.0	9563.6	10578.9	11640.2	12552.3	13546.9	14642.1	15689.1	16663.6	17399.8
17.5°	9200.7	10346.7	11247.6	12346.0	13663.9	14948.8	16216.9	17661.1	18993.1	20235.6	21343.8
15°	10124.1	11325.5	12631.2	13957.1	15345.4	16875.3	18619.5	20199.9	21845.3	23306.7	24675.3
12.5°	10929.1	12148.7	13515.2	15061.5	16812.6	18455.1	20283.2	22259.6	24005.4	25722.0	27006.2
10°	11523.2	12878.0	14263.3	15818.0	17603.7	19521.4	21502.6	23500.3	25457.8	27115.0	28494.6
7.5°	11850.9	13289.8	14739.2	16362.7	18198.6	20084.9	22063.9	24149.8	26120.1	27826.8	29093.7
5°	12117.6	13580.5	15013.1	16643.1	18556.0	20429.7	22325.6	24316.4	26379.5	28062.8	29380.9
2.5°	12350.5	13777.7	15175.2	16762.2	18733.6	20615.6	22564.9	24628.6	26623.7	28247.5	29530.6
0°	12552.6	13899.9	15266.6	16839.7	18901.2	20806.0	22723.8	24743.2	26775.5	28357.2	29655.9
-2.5°	12406.4	13727.4	15074.1	16682.1	18648.1	20521.8	22450.5	24495.4	26420.3	28022.5	29281.6
-5°	12025.1	13297.7	14634.9	16239.0	18115.7	19951.0	21853.9	23823.6	25633.1	27234.9	28393.1
-7.5°	11467.8	12713.5	14045.6	15624.5	17370.9	19036.6	20737.3	22563.1	24364.2	25778.5	26881.6
-10°	10848.3	12033.9	13259.9	14648.6	16194.9	17750.7	19313.4	21010.7	22597.7	23925.6	24987.5
-12.5°	10112.7	11165.9	12294.7	13506.0	14925.5	16407.4	17897.6	19384.3	20847.9	22042.5	23004.5
-15°	9318.2	10249.6	11280.5	12452.1	13717.0	15024.6	16368.8	17788.6	19106.7	20219.4	21067.6
-17.5°	8534.5	9368.5	10416.4	11481.5	12503.7	13702.8	15039.7	16213.7	17416.6	18415.8	19165.1
-20°	7870.0	8767.3	9678.5	10588.6	11565.0	12730.8	13864.3	14971.2	16040.1	16949.9	17695.0



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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°	7436.9	8225.2	9002.8	9863.6	10856.2	11884.9	12910.9	13917.2	14884.7	15749.0	16457.6
-25°	7043.1	7710.1	8480.1	9354.1	10192.3	11094.7	12063.3	12904.5	13822.2	14604.8	15211.1
-27.5°	6698.7	7358.9	8114.5	8900.7	9658.8	10472.1	11354.4	12157.2	12983.0	13735.6	14264.6
-30°	6398.9	7082.9	7793.4	8512.6	9226.5	9979.0	10745.9	11521.8	12279.5	12961.9	13470.3
-32.5°	6143.5	6785.1	7451.5	8120.7	8771.7	9457.1	10168.4	10881.8	11583.8	12180.8	12678.6
-35°	5853.0	6467.3	7086.5	7687.5	8290.4	8903.5	9563.7	10231.5	10859.6	11404.7	11890.7
-37.5°	5528.9	6120.7	6685.8	7232.9	7791.8	8358.7	8970.2	9583.7	10160.6	10654.1	11117.4
-40°	5206.3	5745.6	6257.4	6768.0	7280.4	7811.3	8364.4	8913.7	9420.1	9886.8	10318.6
-42.5°	4871.1	5343.1	5808.9	6284.3	6757.0	7235.8	7729.9	8229.4	8680.7	9106.3	9489.1
-45°	4532.8	4938.0	5349.5	5785.0	6216.5	6646.4	7074.1	7495.9	7918.4	8315.0	8638.3
-47.5°	4173.2	4538.8	4912.4	5286.8	5673.6	6065.9	6439.8	6804.9	7178.1	7532.6	7799.7
-50°	3810.3	4148.8	4486.5	4816.3	5158.2	5503.3	5844.0	6165.3	6478.0	6779.4	6988.2
-52.5°	3444.7	3757.7	4067.3	4365.6	4662.2	4956.3	5245.0	5530.1	5804.0	6062.4	6227.9
-55°	3097.6	3376.8	3648.9	3909.4	4171.2	4429.6	4684.1	4933.5	5170.0	5392.1	5519.8
-57.5°	2771.1	3014.3	3252.6	3476.9	3696.0	3908.9	4133.9	4360.5	4573.4	4764.3	4867.2
-60°	2453.0	2672.0	2876.5	3064.0	3251.9	3438.9	3628.5	3815.6	3997.8	4156.4	4245.0
-62.5°	2140.1	2327.3	2501.3	2662.7	2817.9	2972.3	3136.8	3294.6	3444.7	3567.1	3642.2
-65°	1866.0	2024.6	2154.9	2283.3	2410.8	2546.6	2683.2	2813.5	2936.9	3032.7	3096.0
-67.5°	1599.5	1729.9	1838.4	1945.0	2051.7	2159.7	2269.7	2376.2	2478.6	2556.1	2611.0
-70°	1346.1	1444.7	1529.6	1616.4	1704.9	1793.1	1881.5	1966.6	2047.8	2106.9	2151.1
-72.5°	1101.0	1177.2	1243.3	1310.7	1377.2	1445.5	1514.0	1579.7	1642.4	1684.7	1715.7
-75°	860.6	915.8	968.9	1020.3	1069.8	1120.7	1171.0	1219.1	1264.6	1296.7	1322.3
-77.5°	647.9	687.1	721.7	755.6	788.6	823.9	858.5	891.1	921.5	943.8	962.5
-80°	453.8	479.2	501.3	522.0	541.4	563.3	584.8	605.0	624.0	637.0	647.3
-82.5°	281.6	296.5	309.8	322.0	333.2	344.6	355.3	364.9	373.6	383.7	393.1
-85°	146.1	152.2	157.9	163.1	167.9	172.6	176.8	180.6	183.9	185.7	187.0
-87.5°	56.8	58.2	59.5	60.7	61.8	63.3	64.7	66.0	67.2	68.3	69.3
-90°	3.2	3.0	2.7	2.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	13.8	14.0	14.0	14.0	14.0	14.0	13.8	13.5	13.3	13.0	12.7
87.5°	7.3	6.5	5.9	5.4	5.9	6.5	7.3	8.0	8.7	9.4	8.1
85°	13.4	11.9	10.8	9.7	10.8	11.9	13.4	15.0	16.4	17.8	16.4
82.5°	14.5	14.0	14.0	14.0	14.0	14.0	14.5	15.1	15.8	16.5	17.3
80°	17.7	17.3	17.8	18.4	17.8	17.3	17.7	18.2	18.6	19.1	21.0
77.5°	18.9	18.4	18.4	18.4	18.4	18.4	18.9	19.4	19.9	20.7	23.7
75°	18.4	18.4	17.9	17.3	17.9	18.4	18.4	18.5	18.6	19.5	23.0
72.5°	15.6	15.2	15.1	15.1	15.1	15.2	15.6	16.0	16.4	17.4	20.0
70°	14.5	15.0	14.6	14.0	14.6	15.0	14.5	14.1	13.9	14.4	16.2
67.5°	12.1	12.0	11.9	11.9	11.9	12.0	12.1	12.2	12.2	12.5	13.3
65°	10.2	9.8	9.7	9.7	9.7	9.8	10.2	10.6	11.0	11.4	11.8
62.5°	9.1	8.7	8.6	8.6	8.6	8.7	9.1	9.5	9.9	10.5	11.0
60°	10.3	9.8	9.2	8.6	9.2	9.8	10.3	10.8	11.1	11.3	11.4
57.5°	11.1	10.8	10.8	10.8	10.8	10.8	11.1	11.5	11.9	12.3	12.7
55°	12.2	12.0	11.9	11.9	11.9	12.0	12.2	12.4	12.6	13.1	13.5
52.5°	14.6	14.1	13.6	13.0	13.6	14.1	14.6	14.9	15.1	15.6	15.5
50°	23.1	22.0	21.5	21.6	21.5	22.0	23.1	23.6	23.7	23.5	22.1
47.5°	42.7	42.6	42.4	42.1	42.4	42.6	42.7	41.8	42.0	41.6	38.3
45°	72.6	69.7	66.9	65.9	66.9	69.7	72.6	72.9	74.2	73.4	69.0
42.5°	127.6	126.9	124.7	122.1	124.7	126.9	127.6	125.1	128.8	125.4	117.8
40°	221.7	218.7	213.5	215.0	213.5	218.7	221.7	219.2	228.7	216.6	217.6
37.5°	461.8	439.6	406.0	406.2	406.0	439.6	461.8	476.4	484.1	395.2	470.2
35°	1080.8	1098.9	1077.4	1077.2	1077.4	1098.9	1080.8	1087.4	1089.3	1016.5	1071.8
32.5°	2068.3	2038.3	1916.5	1853.0	1916.5	2038.3	2068.3	2133.4	2083.1	2034.0	2046.0
30°	3896.5	3915.9	3733.2	3737.2	3733.2	3915.9	3896.5	3900.9	3656.6	3680.8	3535.0
27.5°	6667.4	6815.8	6776.8	6711.7	6776.8	6815.8	6667.4	6531.2	6193.6	6053.0	5694.7
25°	9970.2	10081.9	10007.1	9961.7	10007.1	10081.9	9970.2	9702.4	9294.1	8892.3	8379.6
22.5°	13784.0	13939.5	13900.5	13703.2	13900.5	13939.5	13784.0	13335.8	12874.2	12119.2	11435.6
20°	18006.0	18272.4	18427.2	18327.5	18427.2	18272.4	18006.0	17399.8	16663.6	15689.1	14642.1
17.5°	22130.7	22474.3	22737.8	22826.5	22737.8	22474.3	22130.7	21343.8	20235.6	18993.1	17661.1
15°	25599.2	26090.5	26436.6	26559.4	26436.6	26090.5	25599.2	24675.3	23306.7	21845.3	20199.9
12.5°	28088.3	28727.9	29133.7	29255.6	29133.7	28727.9	28088.3	27006.2	25722.0	24005.4	22259.6
10°	29457.0	30263.2	30725.2	30917.9	30725.2	30263.2	29457.0	28494.6	27115.0	25457.8	23500.3
7.5°	30221.8	30949.9	31386.5	31451.1	31386.5	30949.9	30221.8	29093.7	27826.8	26120.1	24149.8
5°	30469.9	31131.5	31491.8	31525.1	31491.8	31131.5	30469.9	29380.9	28062.8	26379.5	24316.4
2.5°	30578.7	31137.7	31403.5	31335.5	31403.5	31137.7	30578.7	29530.6	28247.5	26623.7	24628.6
0°	30523.0	31022.7	31304.7	31346.8	31304.7	31022.7	30523.0	29655.9	28357.2	26775.5	24743.2
-2.5°	30069.7	30441.9	30641.8	30513.3	30641.8	30441.9	30069.7	29281.6	28022.5	26420.3	24495.4
-5°	29036.3	29304.0	29387.6	29434.4	29387.6	29304.0	29036.3	28393.1	27234.9	25633.1	23823.6
-7.5°	27542.6	27761.1	27843.6	27785.7	27843.6	27761.1	27542.6	26881.6	25778.5	24364.2	22563.1
-10°	25573.9	25774.1	25844.1	25804.2	25844.1	25774.1	25573.9	24987.5	23925.6	22597.7	21010.7
-12.5°	23581.0	23818.2	23872.7	23876.1	23872.7	23818.2	23581.0	23004.5	22042.5	20847.9	19384.3
-15°	21621.9	21893.2	21976.1	22048.6	21976.1	21893.2	21621.9	21067.6	20219.4	19106.7	17788.6
-17.5°	19696.9	19966.3	20036.3	19941.7	20036.3	19966.3	19696.9	19165.1	18415.8	17416.6	16213.7
-20°	18114.5	18254.2	18403.3	18402.1	18403.3	18254.2	18114.5	17695.0	16949.9	16040.1	14971.2



REPORT NUMBER: P731446 (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°	16807.6	17038.6	17165.5	17255.7	17165.5	17038.6	16807.6	16457.6	15749.0	14884.7	13917.2
-25°	15581.9	15778.0	15856.9	15917.1	15856.9	15778.0	15581.9	15211.1	14604.8	13822.2	12904.5
-27.5°	14637.7	14836.7	14949.3	15016.0	14949.3	14836.7	14637.7	14264.6	13735.6	12983.0	12157.2
-30°	13884.7	14080.2	14214.3	14298.6	14214.3	14080.2	13884.7	13470.3	12961.9	12279.5	11521.8
-32.5°	13073.2	13277.8	13417.6	13504.4	13417.6	13277.8	13073.2	12678.6	12180.8	11583.8	10881.8
-35°	12230.0	12434.6	12585.5	12656.3	12585.5	12434.6	12230.0	11890.7	11404.7	10859.6	10231.5
-37.5°	11410.9	11601.9	11735.2	11787.6	11735.2	11601.9	11410.9	11117.4	10654.1	10160.6	9583.7
-40°	10556.9	10737.2	10861.0	10909.2	10861.0	10737.2	10556.9	10318.6	9886.8	9420.1	8913.7
-42.5°	9695.9	9864.0	9978.4	10026.5	9978.4	9864.0	9695.9	9489.1	9106.3	8680.7	8229.4
-45°	8823.7	8973.3	9070.1	9107.0	9070.1	8973.3	8823.7	8638.3	8315.0	7918.4	7495.9
-47.5°	7965.2	8100.1	8183.3	8210.3	8183.3	8100.1	7965.2	7799.7	7532.6	7178.1	6804.9
-50°	7127.2	7237.6	7313.8	7356.7	7313.8	7237.6	7127.2	6988.2	6779.4	6478.0	6165.3
-52.5°	6352.0	6452.4	6512.1	6535.6	6512.1	6452.4	6352.0	6227.9	6062.4	5804.0	5530.1
-55°	5625.6	5712.4	5763.2	5783.6	5763.2	5712.4	5625.6	5519.8	5392.1	5170.0	4933.5
-57.5°	4954.7	5025.8	5073.7	5100.8	5073.7	5025.8	4954.7	4867.2	4764.3	4573.4	4360.5
-60°	4318.6	4376.9	4417.1	4440.6	4417.1	4376.9	4318.6	4245.0	4156.4	3997.8	3815.6
-62.5°	3704.5	3754.1	3786.6	3805.3	3786.6	3754.1	3704.5	3642.2	3567.1	3444.7	3294.6
-65°	3149.4	3192.8	3213.8	3221.9	3213.8	3192.8	3149.4	3096.0	3032.7	2936.9	2813.5
-67.5°	2658.2	2697.3	2711.5	2714.1	2711.5	2697.3	2658.2	2611.0	2556.1	2478.6	2376.2
-70°	2189.3	2221.2	2232.0	2233.3	2232.0	2221.2	2189.3	2151.1	2106.9	2047.8	1966.6
-72.5°	1741.3	1761.3	1776.8	1787.0	1776.8	1761.3	1741.3	1715.7	1684.7	1642.4	1579.7
-75°	1343.7	1360.9	1368.3	1371.1	1368.3	1360.9	1343.7	1322.3	1296.7	1264.6	1219.1
-77.5°	978.5	991.6	994.6	994.0	994.6	991.6	978.5	962.5	943.8	921.5	891.1
-80°	655.6	661.7	665.6	667.7	665.6	661.7	655.6	647.3	637.0	624.0	605.0
-82.5°	401.6	409.0	401.4	392.2	401.4	409.0	401.6	393.1	383.7	373.6	364.9
-85°	187.9	188.2	188.9	189.1	188.9	188.2	187.9	187.0	185.7	183.9	180.6
-87.5°	70.3	71.1	70.7	70.2	70.7	71.1	70.3	69.3	68.3	67.2	66.0
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	12.5	12.2	11.9	11.6	11.4	11.1	10.8	10.3	9.7	9.2	8.6
87.5°	6.7	5.4	4.1	4.6	5.0	5.5	5.9	5.6	5.3	5.0	4.8
85°	15.1	13.6	12.2	12.2	12.1	12.1	12.0	11.8	11.4	10.9	10.4
82.5°	18.0	18.5	18.8	20.3	21.5	22.2	22.6	22.5	22.0	21.2	20.0
80°	22.7	24.2	25.8	28.9	31.7	34.0	35.8	36.6	37.1	37.0	35.8
77.5°	26.5	29.1	32.0	36.6	40.9	44.9	48.3	50.2	51.1	51.6	50.1
75°	26.5	30.0	34.5	40.9	47.0	52.7	57.0	59.9	62.3	64.1	62.5
72.5°	23.0	26.3	31.7	39.8	48.3	55.6	61.4	66.4	70.7	74.4	71.8
70°	18.3	20.6	25.5	32.7	40.5	48.8	57.8	66.7	75.5	81.2	77.1
67.5°	14.4	15.8	19.7	25.5	32.2	39.8	48.8	59.1	69.0	78.3	76.4
65°	12.3	12.7	15.1	19.3	24.4	30.6	38.1	47.1	57.6	68.3	68.6
62.5°	11.5	11.9	13.3	15.5	18.5	22.4	28.2	36.0	45.0	52.3	54.9
60°	11.7	12.1	13.0	14.1	15.4	17.4	21.9	27.2	33.4	39.5	42.7
57.5°	12.9	13.2	13.6	14.2	14.9	16.7	19.1	21.6	26.7	30.2	32.9
55°	13.8	14.2	14.5	14.8	15.2	16.8	18.6	20.7	23.0	24.1	27.5
52.5°	15.0	15.9	16.3	16.1	16.6	17.8	18.6	20.4	22.3	23.7	24.5
50°	21.2	22.4	21.5	19.7	21.5	21.2	21.0	21.5	23.7	24.8	24.8
47.5°	38.1	38.4	34.8	32.4	34.4	31.8	29.8	28.1	31.5	28.3	27.9
45°	71.7	70.1	61.7	62.6	60.3	56.2	47.6	52.1	48.2	43.2	33.2
42.5°	125.6	123.0	114.4	119.3	110.8	100.0	95.2	100.1	83.9	68.1	71.8
40°	228.0	198.9	215.7	223.3	201.4	169.6	213.3	183.3	156.2	112.3	147.8
37.5°	475.9	387.9	466.8	469.1	406.4	373.9	421.2	379.7	265.2	280.4	285.3
35°	1021.3	972.5	954.9	921.0	803.8	842.9	755.4	668.2	573.9	542.8	491.2
32.5°	1849.5	1901.4	1778.9	1628.6	1614.4	1534.1	1352.6	1089.5	1090.5	983.2	803.4
30°	3288.4	3218.7	2999.2	2749.8	2744.8	2540.0	2135.3	1959.4	1797.0	1553.2	1210.5
27.5°	5451.6	4969.9	4623.8	4429.5	4141.7	3804.4	3406.9	2995.7	2648.7	2277.2	1816.0
25°	8001.6	7402.0	6782.1	6370.8	5870.0	5337.6	4843.7	4267.0	3686.5	3103.9	2519.5
22.5°	10737.2	10008.9	9252.6	8487.7	7738.5	7055.3	6400.2	5635.3	4750.2	3932.3	3256.4
20°	13546.9	12552.3	11640.2	10578.9	9563.6	8732.0	7991.4	6938.1	5756.4	4762.3	3974.1
17.5°	16216.9	14948.8	13663.9	12346.0	11247.6	10346.7	9200.7	7969.1	6696.1	5542.9	4659.6
15°	18619.5	16875.3	15345.4	13957.1	12631.2	11325.5	10124.1	8906.2	7574.6	6327.4	5285.7
12.5°	20283.2	18455.1	16812.6	15061.5	13515.2	12148.7	10929.1	9707.9	8310.0	6847.0	5635.2
10°	21502.6	19521.4	17603.7	15818.0	14263.3	12878.0	11523.2	10135.1	8624.2	7158.4	5925.5
7.5°	22063.9	20084.9	18198.6	16362.7	14739.2	13289.8	11850.9	10406.0	8848.8	7374.2	6158.7
5°	22325.6	20429.7	18556.0	16643.1	15013.1	13580.5	12117.6	10611.7	8985.7	7504.0	6337.5
2.5°	22564.9	20615.6	18733.6	16762.2	15175.2	13777.7	12350.5	10819.4	9155.8	7639.4	6451.9
0°	22723.8	20806.0	18901.2	16839.7	15266.6	13899.9	12552.6	11004.3	9303.7	7733.8	6520.5
-2.5°	22450.5	20521.8	18648.1	16682.1	15074.1	13727.4	12406.4	10927.7	9275.0	7733.7	6523.3
-5°	21853.9	19951.0	18115.7	16239.0	14634.9	13297.7	12025.1	10643.7	9106.8	7649.5	6484.1
-7.5°	20737.3	19036.6	17370.9	15624.5	14045.6	12713.5	11467.8	10154.0	8736.9	7371.3	6253.1
-10°	19313.4	17750.7	16194.9	14648.6	13259.9	12033.9	10848.3	9619.1	8308.0	7038.1	5984.8
-12.5°	17897.6	16407.4	14925.5	13506.0	12294.7	11165.9	10112.7	9031.3	7828.3	6651.6	5683.2
-15°	16368.8	15024.6	13717.0	12452.1	11280.5	10249.6	9318.2	8352.8	7285.5	6232.9	5351.3
-17.5°	15039.7	13702.8	12503.7	11481.5	10416.4	9368.5	8534.5	7688.8	6778.6	5869.6	5066.9
-20°	13864.3	12730.8	11565.0	10588.6	9678.5	8767.3	7870.0	7066.7	6308.3	5539.7	4821.1



REPORT NUMBER: P731446 (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°	12910.9	11884.9	10856.2	9863.6	9002.8	8225.2	7436.9	6638.3	5869.2	5201.7	4583.4
-25°	12063.3	11094.7	10192.3	9354.1	8480.1	7710.1	7043.1	6335.5	5602.0	4902.9	4363.9
-27.5°	11354.4	10472.1	9658.8	8900.7	8114.5	7358.9	6698.7	6044.1	5363.4	4735.4	4182.0
-30°	10745.9	9979.0	9226.5	8512.6	7793.4	7082.9	6398.9	5777.8	5146.3	4554.2	4030.6
-32.5°	10168.4	9457.1	8771.7	8120.7	7451.5	6785.1	6143.5	5508.5	4901.0	4370.5	3884.7
-35°	9563.7	8903.5	8290.4	7687.5	7086.5	6467.3	5853.0	5230.9	4664.5	4166.8	3715.8
-37.5°	8970.2	8358.7	7791.8	7232.9	6685.8	6120.7	5528.9	4961.9	4426.2	3951.9	3525.0
-40°	8364.4	7811.3	7280.4	6768.0	6257.4	5745.6	5206.3	4679.7	4188.8	3715.8	3315.1
-42.5°	7729.9	7235.8	6757.0	6284.3	5808.9	5343.1	4871.1	4395.5	3934.6	3494.6	3092.5
-45°	7074.1	6646.4	6216.5	5785.0	5349.5	4938.0	4532.8	4097.5	3669.5	3260.1	2862.9
-47.5°	6439.8	6065.9	5673.6	5286.8	4912.4	4538.8	4173.2	3786.8	3394.1	3010.8	2657.9
-50°	5844.0	5503.3	5158.2	4816.3	4486.5	4148.8	3810.3	3470.3	3109.0	2766.5	2444.4
-52.5°	5245.0	4956.3	4662.2	4365.6	4067.3	3757.7	3444.7	3141.9	2823.1	2523.0	2238.0
-55°	4684.1	4429.6	4171.2	3909.4	3648.9	3376.8	3097.6	2822.3	2554.2	2282.2	2037.1
-57.5°	4133.9	3908.9	3696.0	3476.9	3252.6	3014.3	2771.1	2525.3	2288.7	2056.1	1834.6
-60°	3628.5	3438.9	3251.9	3064.0	2876.5	2672.0	2453.0	2237.2	2025.7	1832.5	1644.6
-62.5°	3136.8	2972.3	2817.9	2662.7	2501.3	2327.3	2140.1	1964.7	1788.3	1614.7	1462.4
-65°	2683.2	2546.6	2410.8	2283.3	2154.9	2024.6	1866.0	1710.9	1562.3	1419.3	1286.0
-67.5°	2269.7	2159.7	2051.7	1945.0	1838.4	1729.9	1599.5	1467.8	1345.8	1229.9	1116.7
-70°	1881.5	1793.1	1704.9	1616.4	1529.6	1444.7	1346.1	1242.2	1140.8	1042.3	943.6
-72.5°	1514.0	1445.5	1377.2	1310.7	1243.3	1177.2	1101.0	1015.9	931.7	848.7	768.6
-75°	1171.0	1120.7	1069.8	1020.3	968.9	915.8	860.6	797.2	733.4	669.4	605.9
-77.5°	858.5	823.9	788.6	755.6	721.7	687.1	647.9	597.4	549.6	502.4	456.5
-80°	584.8	563.3	541.4	522.0	501.3	479.2	453.8	417.9	382.2	349.1	319.2
-82.5°	355.3	344.6	333.2	322.0	309.8	296.5	281.6	260.7	240.1	219.9	200.2
-85°	176.8	172.6	167.9	163.1	157.9	152.2	146.1	137.2	128.0	118.5	108.7
-87.5°	64.7	63.3	61.8	60.7	59.5	58.2	56.8	53.5	50.2	47.0	43.7
-90°	2.2	2.2	2.2	2.5	2.7	3.0	3.2	3.2	3.2	3.2	3.2



REPORT NUMBER: P731446 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	8.4	8.1	7.9	7.6	7.6	7.6	7.6	7.6	7.3	7.1	6.8
87.5°	5.6	6.4	7.0	7.6	7.1	6.7	6.3	6.0	6.2	6.4	6.5
85°	10.6	10.9	11.4	11.9	11.2	10.2	9.4	8.7	8.9	9.0	8.9
82.5°	18.1	17.2	16.6	16.3	16.2	15.7	14.8	13.4	12.2	11.6	11.4
80°	32.1	28.7	25.7	23.1	21.7	21.2	20.6	19.2	16.3	14.3	13.2
77.5°	45.0	40.3	36.0	31.8	28.0	25.5	24.2	23.6	20.2	16.8	14.6
75°	56.7	50.6	44.8	39.2	33.8	29.3	26.2	24.2	21.6	19.0	15.8
72.5°	64.6	58.0	52.1	45.9	38.9	33.0	28.2	24.9	22.2	19.5	16.8
70°	70.1	63.7	57.0	49.9	42.9	36.2	30.3	26.2	22.7	20.0	17.2
67.5°	73.5	66.2	59.6	53.2	46.0	38.9	32.0	27.6	24.0	20.4	17.6
65°	66.1	63.8	61.0	54.2	47.8	41.3	34.0	29.2	25.2	21.5	17.9
62.5°	56.6	56.6	54.9	53.3	48.3	42.0	36.0	31.0	26.5	22.5	18.7
60°	44.7	46.8	48.4	47.9	46.2	41.9	36.7	32.8	27.9	23.5	19.5
57.5°	36.1	37.5	40.6	42.5	42.0	40.0	37.2	33.6	29.2	24.5	20.4
55°	29.6	32.1	34.6	36.8	37.8	36.6	37.0	34.2	30.2	25.4	21.3
52.5°	26.2	28.7	31.2	32.7	33.9	34.4	36.0	34.7	30.8	26.2	22.4
50°	25.2	27.8	29.7	30.9	31.0	33.6	35.7	34.9	31.4	26.9	23.5
47.5°	28.9	31.2	30.5	30.4	30.3	33.6	36.1	35.5	32.0	27.4	24.8
45°	43.1	39.5	35.5	32.5	32.6	36.0	37.3	36.6	33.1	29.0	26.2
42.5°	68.3	61.4	47.0	35.5	41.7	39.9	39.3	38.4	34.6	30.8	27.7
40°	138.2	96.7	66.8	62.0	57.2	45.2	43.6	40.9	36.6	33.1	29.5
37.5°	235.5	170.7	108.3	110.6	85.3	64.2	49.0	43.9	40.2	36.1	31.4
35°	404.5	284.8	225.7	200.9	144.4	87.8	55.1	48.1	44.5	39.2	33.4
32.5°	613.3	500.3	441.7	338.3	218.2	115.6	72.1	56.1	49.3	42.4	35.5
30°	966.3	872.9	708.0	507.0	322.6	184.2	101.9	65.3	54.6	45.7	37.9
27.5°	1498.7	1312.2	1032.3	750.7	483.5	267.6	145.9	75.5	60.4	49.6	40.6
25°	2078.4	1810.1	1454.6	1040.5	664.7	399.9	199.7	87.9	68.1	54.2	43.3
22.5°	2718.8	2324.7	1920.6	1357.3	865.8	553.7	285.4	129.0	77.0	59.0	46.1
20°	3332.4	2848.5	2386.7	1606.0	1080.6	732.6	404.8	175.0	86.4	63.9	48.8
17.5°	3928.3	3278.6	2638.6	1876.9	1291.2	901.5	533.8	224.9	96.1	68.9	51.5
15°	4334.7	3565.9	2874.4	2118.8	1479.3	1060.4	669.5	277.3	105.9	73.9	55.6
12.5°	4646.1	3826.2	3099.6	2331.8	1646.0	1209.1	808.6	331.0	115.7	81.6	61.5
10°	4913.5	4058.9	3310.8	2516.5	1792.5	1347.7	947.7	381.7	130.9	91.6	67.4
7.5°	5138.0	4263.6	3504.5	2673.3	1912.3	1439.1	1033.0	422.9	146.6	101.5	73.2
5°	5313.1	4415.2	3657.6	2780.0	1974.6	1480.2	1097.5	458.8	161.9	111.3	78.9
2.5°	5417.4	4497.6	3773.3	2859.5	2024.3	1510.5	1147.7	489.1	176.5	120.7	84.4
0°	5485.4	4550.8	3860.4	2913.9	2060.4	1531.0	1183.1	513.2	190.2	129.7	89.7
-2.5°	5511.3	4558.7	3873.0	2983.4	2133.8	1594.3	1217.5	580.2	254.4	173.7	117.9
-5°	5497.0	4542.4	3860.1	3027.2	2191.7	1647.0	1239.1	640.6	316.5	216.4	145.4
-7.5°	5325.2	4446.6	3793.4	3033.8	2233.6	1687.3	1250.3	694.5	375.7	257.2	171.8
-10°	5095.7	4292.5	3655.0	2942.4	2229.1	1711.6	1256.3	741.8	431.1	295.4	196.6
-12.5°	4841.3	4118.4	3504.6	2842.7	2208.9	1724.7	1272.8	785.9	481.7	330.4	219.5
-15°	4565.9	3925.5	3346.5	2739.8	2180.9	1731.4	1281.7	823.6	527.4	363.6	240.1
-17.5°	4295.0	3715.2	3184.6	2638.5	2146.7	1732.6	1284.2	852.8	567.9	395.6	262.1
-20°	4147.7	3562.5	3025.4	2543.1	2107.9	1729.4	1281.4	873.2	602.5	423.8	284.6



REPORT NUMBER: P731446 (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°	4000.7	3462.4	2949.0	2475.5	2075.3	1722.6	1274.3	884.4	631.0	448.0	304.2
-25°	3846.2	3357.1	2875.0	2427.6	2053.4	1697.9	1270.8	886.3	652.8	467.8	320.7
-27.5°	3709.5	3250.8	2789.4	2361.2	2010.5	1671.7	1265.2	907.3	669.9	483.0	333.8
-30°	3581.4	3143.3	2698.8	2283.3	1952.2	1608.5	1248.5	920.6	685.3	496.0	343.4
-32.5°	3449.1	3025.5	2589.8	2207.3	1874.7	1536.8	1201.5	924.6	694.4	505.7	351.6
-35°	3294.9	2882.7	2462.5	2113.0	1787.7	1462.9	1149.0	919.2	697.2	510.6	356.8
-37.5°	3119.8	2715.6	2342.2	2006.8	1694.7	1383.4	1110.7	892.0	693.5	510.4	358.2
-40°	2926.1	2548.5	2204.3	1899.0	1600.2	1298.7	1065.1	863.4	687.0	505.1	355.7
-42.5°	2722.4	2385.5	2072.6	1784.7	1502.3	1239.7	1014.1	829.3	663.6	497.1	349.4
-45°	2532.0	2219.6	1936.1	1668.6	1404.4	1173.5	970.2	790.9	634.2	485.2	340.7
-47.5°	2335.7	2059.3	1797.9	1545.9	1321.4	1104.3	920.1	752.6	600.6	467.9	330.7
-50°	2150.4	1898.1	1658.8	1435.5	1226.7	1041.5	866.0	709.5	567.0	438.9	317.3
-52.5°	1976.1	1742.3	1527.3	1324.6	1142.8	972.4	811.6	662.3	529.7	410.8	300.8
-55°	1803.0	1594.0	1398.9	1222.0	1057.2	902.1	752.0	614.7	488.6	381.2	281.5
-57.5°	1636.4	1447.0	1281.1	1122.1	969.5	826.5	690.7	563.1	448.8	348.9	262.9
-60°	1468.9	1315.4	1166.0	1018.3	877.9	748.3	626.7	509.5	406.9	315.1	239.5
-62.5°	1317.1	1179.5	1044.3	909.1	784.7	668.7	559.6	456.4	362.0	283.5	213.5
-65°	1161.5	1038.2	916.8	801.0	690.3	587.1	493.0	400.0	320.3	249.9	187.9
-67.5°	1004.1	896.5	793.4	690.6	596.6	507.8	422.9	347.3	278.1	214.6	165.8
-70°	847.0	753.9	669.5	586.5	504.5	427.1	359.7	295.1	233.8	185.8	142.6
-72.5°	693.2	620.6	551.1	481.4	415.8	354.0	296.1	243.1	197.7	156.1	118.4
-75°	544.7	490.2	437.8	384.6	330.0	279.3	238.2	199.2	160.6	125.3	97.4
-77.5°	412.5	369.4	327.4	290.4	252.8	217.5	184.8	153.9	124.3	99.3	77.1
-80°	290.6	262.6	235.4	208.6	180.5	154.5	133.8	113.7	92.4	73.2	56.3
-82.5°	180.7	164.8	150.0	135.0	118.9	103.4	88.6	74.6	59.7	46.6	38.7
-85°	99.2	89.6	80.1	70.5	60.9	51.8	47.4	43.1	37.8	32.8	28.2
-87.5°	41.4	39.0	36.6	34.2	31.9	29.7	27.5	25.4	22.6	20.0	17.5
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.5	3.8	4.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.5	6.2	6.0	5.7	5.4	4.9	4.3
87.5°	6.6	6.2	6.0	5.8	5.8	5.0	4.3
85°	8.8	7.9	7.1	6.5	6.1	5.2	4.3
82.5°	11.0	9.5	8.2	7.2	6.5	5.3	4.3
80°	13.0	11.1	9.3	7.9	6.9	5.5	4.3
77.5°	13.5	12.2	10.4	8.6	7.2	5.7	4.3
75°	13.9	12.4	11.3	9.2	7.6	5.8	4.3
72.5°	14.3	12.5	11.3	9.9	7.9	6.0	4.3
70°	14.6	12.7	11.3	10.4	8.2	6.1	4.3
67.5°	15.1	12.8	11.2	10.3	8.5	6.2	4.3
65°	15.5	13.0	11.2	10.2	8.8	6.4	4.3
62.5°	15.9	13.5	11.1	10.0	9.1	6.5	4.3
60°	16.4	13.9	11.0	9.9	9.4	6.6	4.3
57.5°	17.2	14.4	11.4	9.7	9.3	6.8	4.3
55°	18.1	14.8	11.7	9.6	9.2	6.9	4.3
52.5°	18.9	15.3	12.1	9.4	9.2	7.0	4.3
50°	19.7	16.0	12.5	9.2	9.1	7.1	4.3
47.5°	20.6	16.6	12.9	9.1	9.1	7.2	4.3
45°	21.8	17.3	13.2	9.3	9.0	7.3	4.3
42.5°	23.0	17.9	13.5	9.6	9.0	7.4	4.3
40°	24.3	18.5	13.9	10.0	9.0	7.4	4.3
37.5°	25.7	19.0	14.4	10.5	9.0	7.5	4.3
35°	27.1	19.9	14.8	11.0	9.0	7.6	4.3
32.5°	28.6	21.0	15.2	11.6	9.0	7.6	4.3
30°	30.3	22.0	15.5	12.1	9.0	7.6	4.3
27.5°	32.0	23.1	16.6	12.7	9.1	7.7	4.3
25°	33.7	24.1	17.8	13.3	9.1	7.7	4.3
22.5°	35.4	25.6	19.2	13.9	9.1	7.7	4.3
20°	37.1	28.3	20.5	14.4	9.2	7.7	4.3
17.5°	40.3	31.1	21.9	15.0	9.3	7.8	4.3
15°	44.4	33.9	23.3	15.6	9.3	7.8	4.3
12.5°	48.4	36.7	24.7	16.1	9.4	7.7	4.3
10°	52.3	39.5	26.1	16.6	9.5	7.7	4.3
7.5°	56.2	42.2	27.5	17.1	9.5	7.7	4.3
5°	60.0	44.8	28.9	17.6	9.6	7.7	4.3
2.5°	63.6	47.3	30.1	18.0	9.6	7.6	4.3
0°	67.0	49.7	31.3	18.4	9.7	7.6	4.3
-2.5°	83.8	59.4	36.4	20.6	10.5	7.7	4.3
-5°	100.2	68.8	41.3	22.8	11.2	7.9	4.3
-7.5°	115.9	77.8	46.0	24.9	11.9	8.0	4.3
-10°	130.9	86.3	50.5	26.8	12.6	8.1	4.3
-12.5°	144.7	94.2	54.6	28.6	13.2	8.2	4.3
-15°	157.4	101.3	58.3	30.3	13.9	8.3	4.3
-17.5°	168.7	107.6	61.6	31.7	14.4	8.4	4.3
-20°	181.0	112.9	64.5	33.0	14.9	8.4	4.3



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	195.7	117.2	66.8	34.0	15.4	8.5	4.3
-25°	208.2	123.8	68.5	34.8	15.8	8.5	4.3
-27.5°	218.4	130.5	69.6	35.4	16.1	8.6	4.3
-30°	226.1	135.7	70.5	35.6	16.3	8.6	4.3
-32.5°	231.2	139.3	73.1	35.6	16.5	8.6	4.3
-35°	234.9	141.4	74.8	35.4	16.6	8.6	4.3
-37.5°	236.7	142.3	75.6	34.8	16.6	8.5	4.3
-40°	236.0	142.9	75.4	33.9	16.6	8.5	4.3
-42.5°	232.8	141.8	75.0	33.2	16.4	8.4	4.3
-45°	227.2	139.2	74.6	32.8	16.2	8.3	4.3
-47.5°	219.1	135.1	73.3	31.9	15.9	8.3	4.3
-50°	211.1	129.4	71.2	31.6	15.5	8.1	4.3
-52.5°	201.3	122.2	68.4	31.3	15.0	8.0	4.3
-55°	189.4	116.1	64.7	30.6	14.5	7.9	4.3
-57.5°	175.4	109.4	60.4	29.6	13.8	7.7	4.3
-60°	160.0	101.5	55.4	28.2	13.1	7.6	4.3
-62.5°	147.2	92.6	51.9	26.6	12.7	7.4	4.3
-65°	132.9	82.7	47.9	24.6	12.1	7.2	4.3
-67.5°	117.3	73.5	43.4	22.4	11.6	7.0	4.3
-70°	100.5	65.1	38.4	19.9	11.0	6.8	4.3
-72.5°	86.5	56.2	33.0	18.2	10.4	6.6	4.3
-75°	72.1	46.6	27.3	16.6	9.7	6.3	4.3
-77.5°	57.1	36.5	23.6	15.0	9.0	6.1	4.3
-80°	41.4	29.3	20.2	13.2	8.3	5.9	4.3
-82.5°	32.2	23.7	16.8	11.4	7.6	5.6	4.3
-85°	23.7	18.0	13.2	9.5	6.9	5.4	4.3
-87.5°	15.2	12.1	9.6	7.6	6.1	5.1	4.3
-90°	4.3	4.6	4.9	5.1	5.4	4.9	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

