

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: P731448 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-7F-CV5**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731448 (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-57-80-7F-CV5
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 7F BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

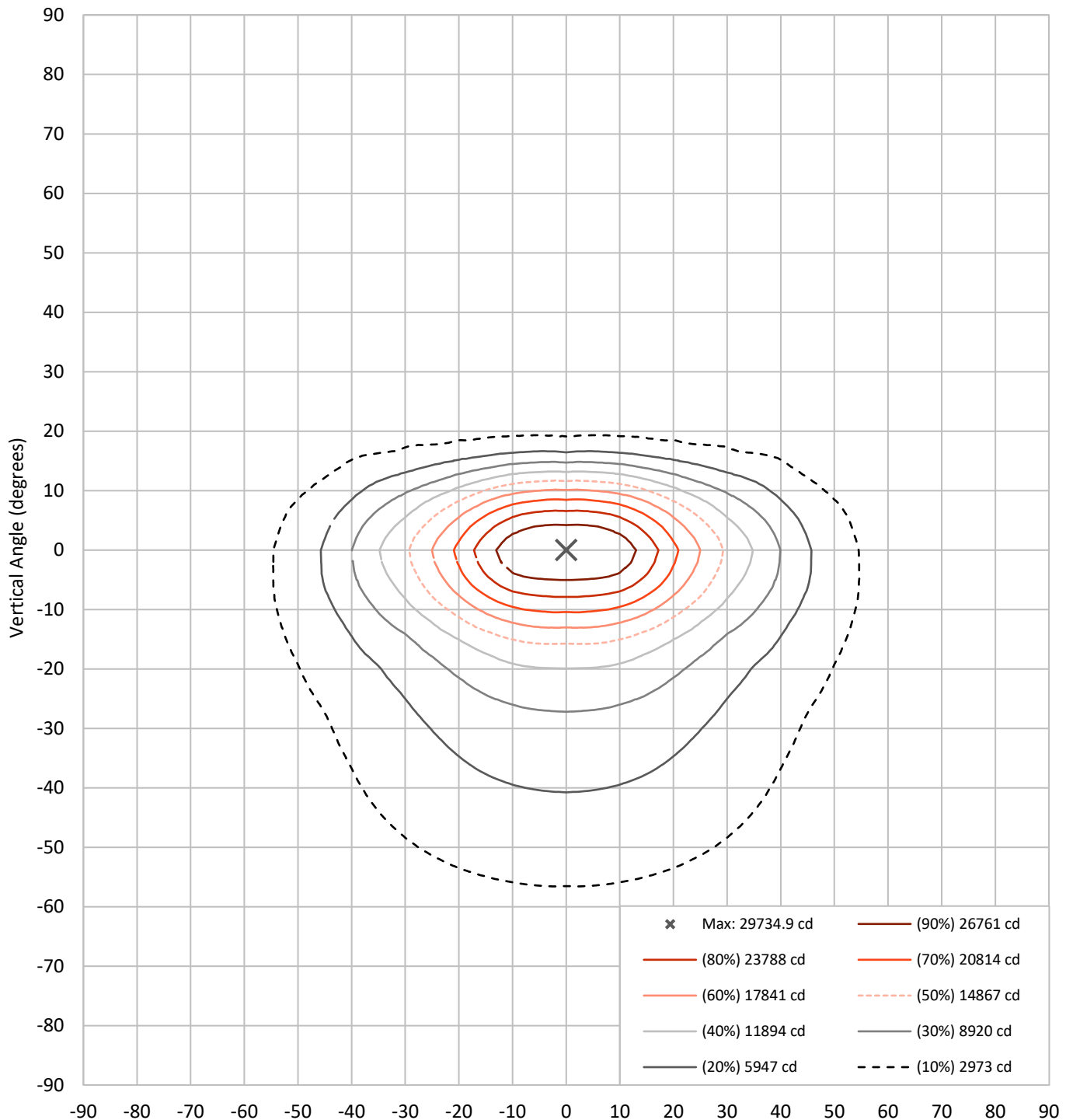
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	20007.5 lumens	Max Intensity:	29734.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	57.9 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:	7898.2 lumens	Field Lumens:	17607.1 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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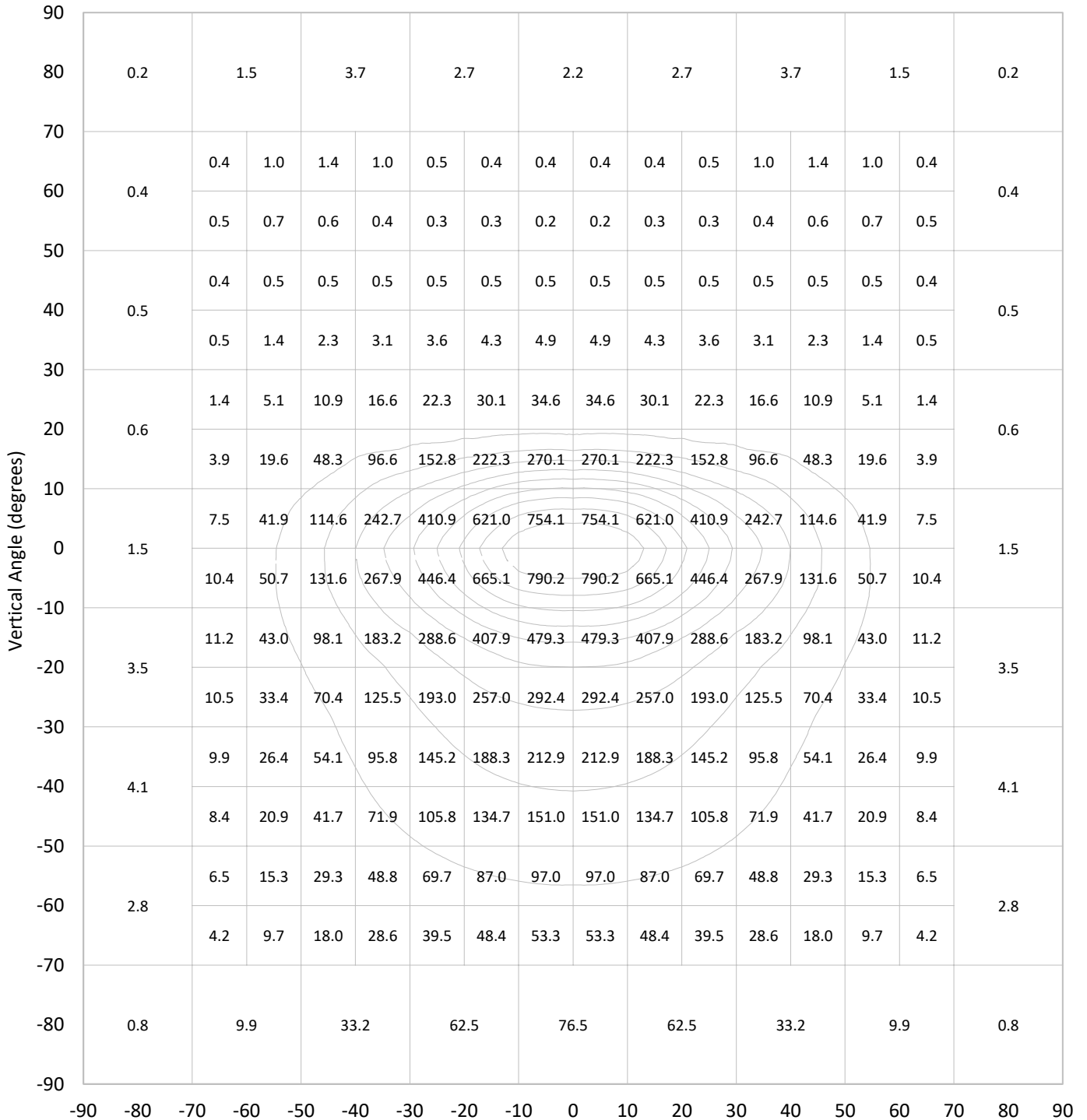
Iso-Candela Plot





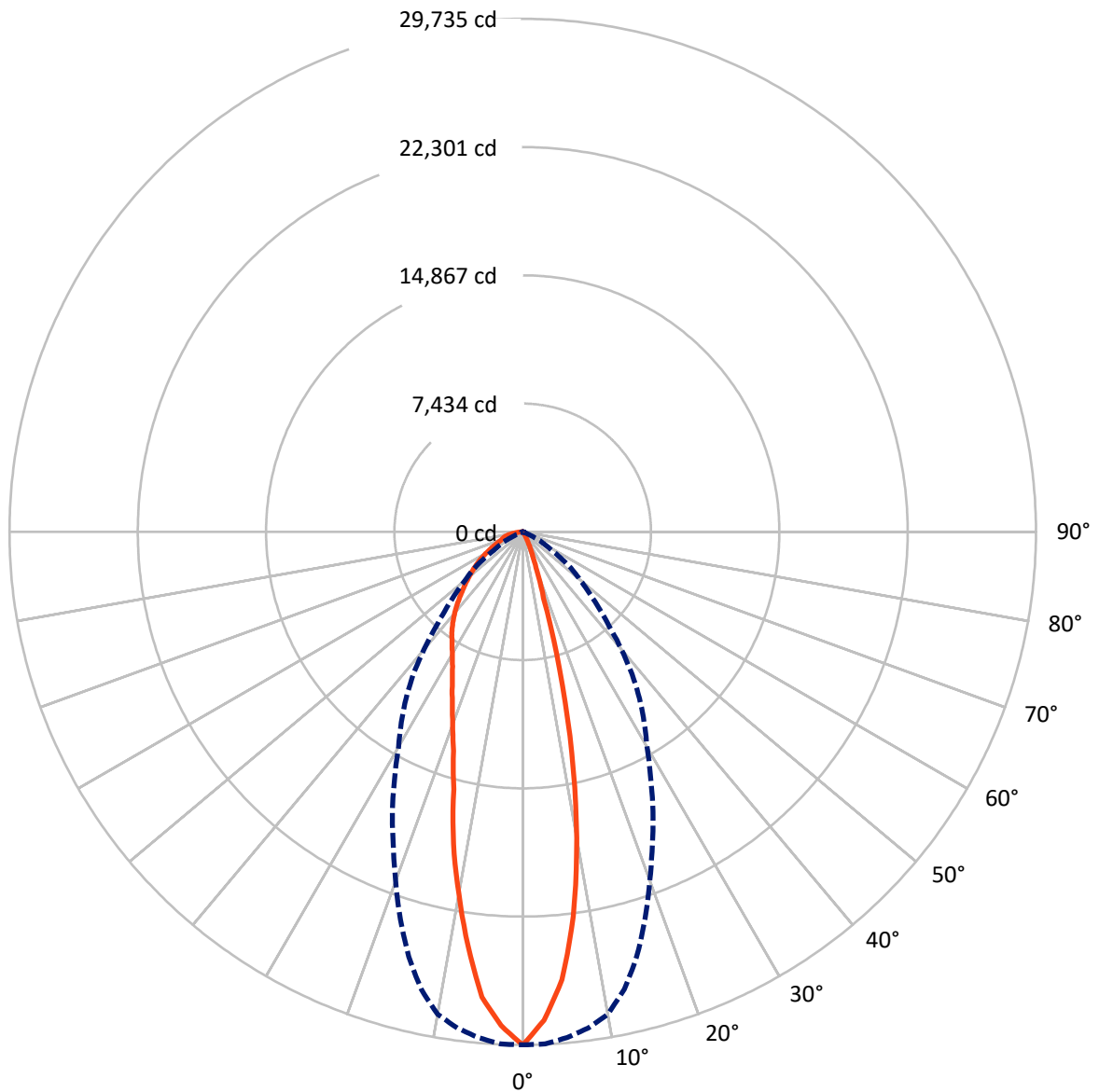
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Lumen Table



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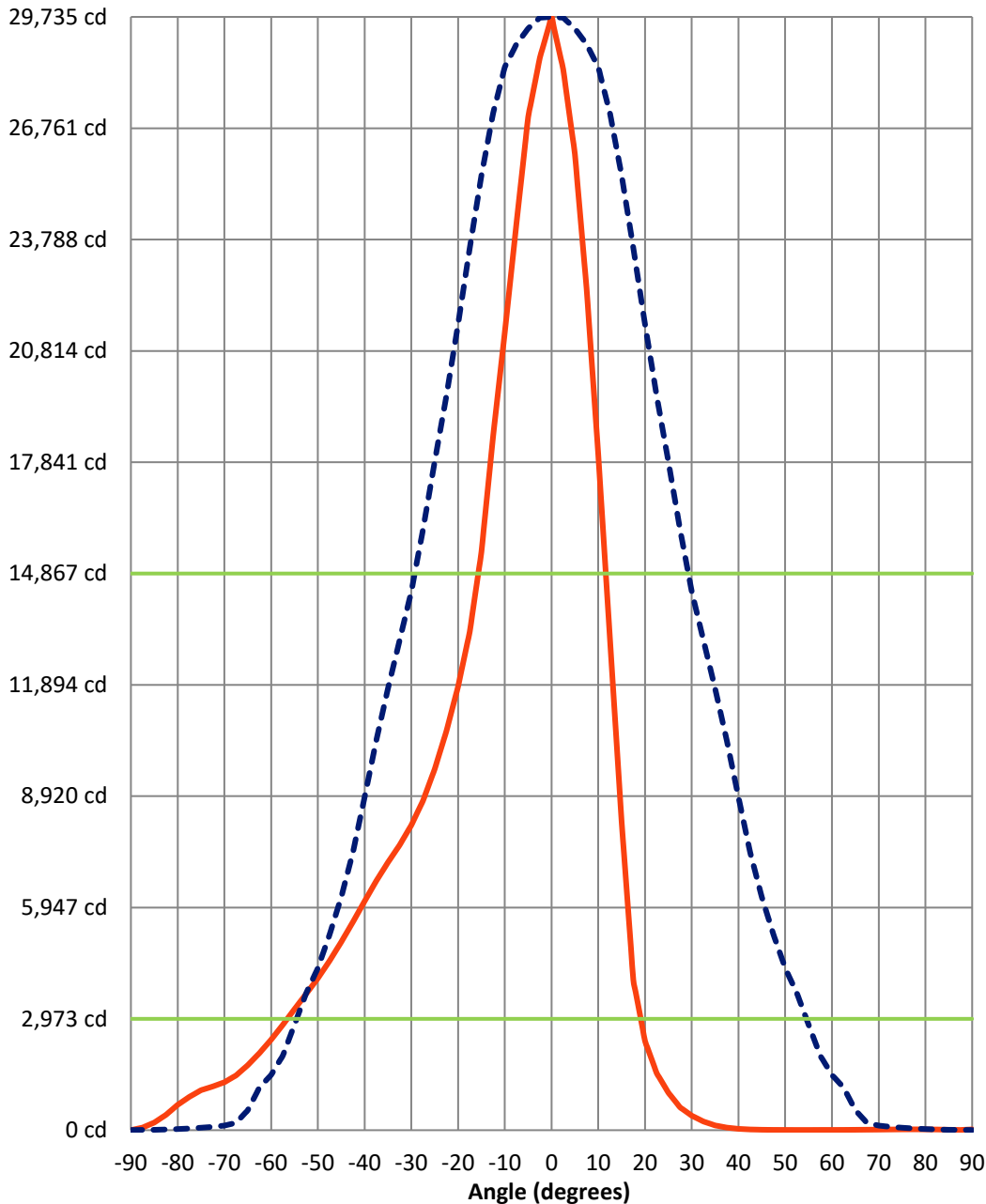
Luminous Intensity Polar Plot



— 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: 7898.2
 Efficiency: 39.5%

Field:
 H Angle: 109.1°
 V Angle: 75.6°
 Lumens: 17607.1
 Efficiency: 88.0%

Spill:
 Lumens: 2400.5
 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	6.0	6.2	6.5	6.8	7.1	7.3	7.6
87.5°	4.3	4.5	4.8	5.1	5.5	6.0	6.5	6.7	6.7	6.7	6.6
85°	4.3	4.7	5.2	5.9	6.7	7.7	8.8	9.0	9.1	9.1	8.9
82.5°	4.3	4.9	5.7	6.7	7.9	9.4	11.0	11.4	11.6	12.5	14.0
80°	4.3	5.1	6.2	7.5	9.1	11.0	13.1	13.6	15.0	17.4	20.6
77.5°	4.3	5.2	6.6	8.3	10.3	12.3	14.1	15.7	18.3	22.1	25.9
75°	4.3	5.4	7.1	9.1	11.3	12.8	15.0	17.5	21.2	24.3	27.5
72.5°	4.3	5.6	7.5	9.8	11.5	13.3	15.9	19.0	22.2	25.5	29.0
70°	4.3	5.8	7.9	10.4	11.6	13.7	16.7	19.8	23.2	26.7	30.0
67.5°	4.3	5.9	8.3	10.3	11.7	14.1	17.3	20.5	24.0	27.5	31.0
65°	4.3	6.1	8.7	10.3	11.8	14.5	17.9	21.2	24.8	28.3	32.2
62.5°	4.3	6.3	9.1	10.2	11.8	15.1	18.5	21.7	25.4	29.2	34.0
60°	4.3	6.4	9.4	10.1	11.8	15.7	19.1	22.3	26.0	30.6	35.7
57.5°	4.3	6.5	9.3	9.9	12.3	16.3	19.9	22.8	26.9	31.8	36.3
55°	4.3	6.7	9.2	9.7	12.7	16.8	20.6	23.6	27.8	32.7	36.4
52.5°	4.3	6.8	9.2	9.5	13.2	17.4	21.4	24.6	28.5	32.7	36.5
50°	4.3	6.9	9.1	9.3	13.7	18.1	22.2	25.6	29.0	32.7	34.7
47.5°	4.3	7.1	9.1	9.2	14.1	18.9	23.1	26.6	28.9	32.6	32.9
45°	4.3	7.2	9.0	9.5	14.5	19.6	24.0	27.7	29.6	31.4	31.4
42.5°	4.3	7.3	9.0	9.8	14.9	20.4	24.9	28.5	30.4	30.3	30.0
40°	4.3	7.3	9.0	10.3	15.4	21.1	25.8	29.3	31.1	29.5	28.7
37.5°	4.3	7.4	9.0	10.8	15.9	21.9	26.7	30.2	31.7	30.2	27.6
35°	4.3	7.5	9.0	11.4	16.5	22.6	27.5	31.1	32.5	31.6	27.8
32.5°	4.3	7.6	9.0	12.0	17.0	23.3	28.3	32.1	33.6	33.6	33.2
30°	4.3	7.6	9.0	12.6	17.5	23.9	29.1	33.1	34.9	36.3	40.0
27.5°	4.3	7.7	9.1	13.2	18.6	24.5	29.8	34.1	36.7	39.7	48.1
25°	4.3	7.7	9.1	13.7	19.8	25.0	30.6	35.2	39.3	45.4	58.3
22.5°	4.3	7.7	9.1	14.3	20.9	26.0	31.4	36.5	42.3	52.7	91.4
20°	4.3	7.7	9.2	14.9	22.1	28.1	32.1	37.8	45.6	60.6	129.2
17.5°	4.3	7.7	9.3	15.4	23.3	30.2	34.9	39.2	49.0	68.8	170.7
15°	4.3	7.8	9.3	15.9	24.4	32.4	39.1	43.1	52.7	77.4	214.8
12.5°	4.3	7.7	9.4	16.4	25.5	34.6	43.5	50.4	61.2	86.2	260.3
10°	4.3	7.7	9.5	16.9	26.6	36.9	48.0	58.0	73.6	106.7	311.3
7.5°	4.3	7.7	9.5	17.3	27.6	39.1	52.6	65.7	86.1	129.3	372.0
5°	4.3	7.7	9.6	17.7	28.6	41.3	57.1	73.5	98.7	152.0	430.3
2.5°	4.3	7.6	9.6	18.1	29.5	43.4	61.6	81.1	111.1	174.2	484.7
0°	4.3	7.6	9.7	18.4	30.3	45.4	65.9	88.6	123.2	195.6	533.8
-2.5°	4.3	7.8	10.5	20.6	35.4	55.2	83.1	117.0	166.3	255.0	593.8
-5°	4.3	7.9	11.2	22.8	40.3	64.8	99.9	144.7	208.2	312.4	647.1
-7.5°	4.3	8.1	11.9	24.9	45.0	74.0	115.9	171.2	248.4	367.0	693.7
-10°	4.3	8.2	12.6	26.8	49.5	82.7	131.1	196.3	286.3	418.1	733.8
-12.5°	4.3	8.3	13.3	28.6	53.6	90.8	145.2	219.5	321.3	463.2	750.1
-15°	4.3	8.4	13.9	30.3	57.4	98.1	157.9	240.5	349.9	490.6	753.6
-17.5°	4.3	8.5	14.4	31.7	60.8	104.6	169.1	258.7	371.7	514.5	753.7
-20°	4.3	8.6	15.0	33.0	63.6	110.2	179.7	274.5	390.9	534.7	751.0



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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	8.7	15.4	34.0	66.0	114.8	190.3	288.0	407.4	551.0	746.0
-25°	4.3	8.7	15.9	34.8	67.8	120.7	199.4	299.2	421.0	563.3	739.4
-27.5°	4.3	8.8	16.2	35.4	69.0	126.3	206.8	307.8	431.6	573.5	749.6
-30°	4.3	8.8	16.5	35.6	69.9	130.8	212.4	313.8	440.0	583.5	755.6
-32.5°	4.3	8.8	16.7	35.6	72.2	133.9	216.3	319.2	445.6	589.7	756.4
-35°	4.3	8.8	16.8	35.4	73.6	135.6	219.3	322.7	447.6	592.0	752.0
-37.5°	4.3	8.8	16.9	34.8	74.2	136.5	220.7	323.6	446.1	590.3	727.4
-40°	4.3	8.8	16.9	33.9	73.9	136.7	220.2	322.1	440.8	584.8	701.7
-42.5°	4.3	8.7	16.8	33.1	73.3	135.6	217.6	318.0	434.9	561.0	672.4
-45°	4.3	8.6	16.6	32.5	72.7	133.1	213.0	311.8	427.2	532.7	639.7
-47.5°	4.3	8.5	16.4	31.6	71.2	129.1	206.3	303.6	415.8	501.9	604.9
-50°	4.3	8.4	16.1	31.2	69.0	123.8	199.0	292.7	391.1	473.5	567.4
-52.5°	4.3	8.3	15.7	30.9	66.0	117.2	190.0	279.2	365.1	442.5	527.6
-55°	4.3	8.1	15.2	30.3	62.4	111.2	179.1	263.3	337.6	409.1	489.1
-57.5°	4.3	8.0	14.7	29.3	58.0	104.6	166.3	246.4	308.5	375.1	447.8
-60°	4.3	7.8	14.1	28.1	53.0	96.8	152.2	223.9	278.7	339.7	405.0
-62.5°	4.3	7.6	13.6	26.5	49.8	88.0	139.7	199.2	250.4	302.7	362.6
-65°	4.3	7.4	13.0	24.7	46.0	78.3	125.9	175.3	221.3	268.7	318.5
-67.5°	4.3	7.2	12.4	22.6	41.8	69.5	110.8	154.3	191.5	235.1	278.6
-70°	4.3	7.0	11.7	20.3	37.2	61.7	94.5	133.0	167.5	200.8	240.4
-72.5°	4.3	6.7	11.0	18.6	32.1	53.3	81.3	111.4	143.3	174.0	203.5
-75°	4.3	6.5	10.3	16.9	26.7	44.4	67.9	92.0	118.7	147.0	174.2
-77.5°	4.3	6.2	9.5	15.2	23.2	34.9	53.8	73.0	94.6	119.0	144.6
-80°	4.3	6.0	8.7	13.4	19.9	28.2	39.1	53.5	70.0	88.7	109.6
-82.5°	4.3	5.7	7.9	11.5	16.5	22.8	30.5	37.0	44.8	57.7	72.3
-85°	4.3	5.4	7.1	9.6	13.0	17.4	22.6	27.0	31.7	36.8	42.1
-87.5°	4.3	5.1	6.2	7.6	9.5	11.8	14.6	16.9	19.4	22.1	24.9
-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):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	7.9	8.1	8.4	8.6	9.4	10.3	11.1	11.9	13.3	14.6	16.0
87.5°	7.0	7.5	8.1	8.7	8.3	7.8	7.3	6.6	7.1	7.6	8.2
85°	9.8	10.8	12.2	13.3	13.3	13.3	13.5	13.9	14.8	15.5	16.1
82.5°	15.8	17.3	18.3	18.9	19.9	21.2	22.9	25.5	26.9	27.8	28.3
80°	22.6	23.8	24.8	26.6	29.8	33.5	37.6	42.0	43.4	43.5	43.1
77.5°	27.1	28.9	31.9	35.9	40.7	45.4	50.5	55.9	57.5	57.1	56.3
75°	30.1	33.6	38.0	43.5	49.4	55.4	61.7	67.6	69.3	67.5	65.2
72.5°	32.4	37.0	42.9	50.1	56.7	62.9	69.5	76.4	78.8	75.1	70.3
70°	34.0	39.8	47.0	54.5	62.1	68.8	74.9	81.6	85.4	79.0	69.7
67.5°	35.3	42.6	50.3	58.2	65.0	71.3	78.3	80.4	81.4	71.7	61.7
65°	37.3	45.1	52.2	59.1	66.4	68.5	70.0	71.5	69.9	58.8	48.0
62.5°	39.3	45.7	52.4	57.8	59.6	60.6	59.4	56.5	52.6	45.0	36.1
60°	39.8	45.5	49.9	51.5	52.0	49.8	46.4	42.9	38.8	32.5	26.4
57.5°	40.0	42.9	44.6	45.0	42.9	39.3	35.9	31.5	28.0	24.0	19.1
55°	39.1	38.5	39.3	38.0	35.0	31.2	27.2	24.1	20.1	17.8	14.9
52.5°	36.4	34.9	34.2	32.0	28.6	25.1	21.8	18.9	16.6	14.0	12.2
50°	34.0	32.0	29.7	27.1	24.5	22.1	18.5	16.4	14.5	12.5	10.8
47.5°	31.8	29.4	26.0	23.8	23.5	22.0	18.5	15.3	13.6	13.5	12.0
45°	29.8	27.8	23.9	24.3	25.0	24.9	22.4	15.0	16.7	17.0	16.2
42.5°	28.1	27.3	28.4	25.8	29.9	32.1	30.2	25.1	22.3	24.8	25.8
40°	28.3	27.9	37.3	37.1	37.7	43.5	46.4	42.8	32.9	39.0	41.8
37.5°	29.4	39.2	51.0	54.8	51.4	61.4	67.5	71.6	63.8	58.8	67.5
35°	31.3	53.4	70.9	79.1	79.6	85.3	101.0	107.4	102.2	94.4	101.4
32.5°	40.8	70.3	94.4	108.4	121.2	127.1	141.1	147.7	153.3	153.3	150.4
30°	61.2	92.7	121.8	140.8	171.6	199.6	193.5	194.9	215.6	236.6	246.9
27.5°	95.8	120.4	152.2	186.5	233.6	288.0	297.8	270.1	298.3	337.2	371.7
25°	139.4	204.0	184.7	241.1	319.4	395.0	435.1	454.3	415.8	472.4	554.0
22.5°	199.6	310.1	311.1	300.5	415.9	521.5	620.5	715.2	764.3	702.8	787.7
20°	280.8	423.5	469.2	519.9	560.2	665.4	836.2	1043.1	1232.5	1339.8	1290.6
17.5°	374.1	547.3	652.2	788.0	922.1	979.6	1088.3	1427.1	1794.9	2108.0	2276.3
15°	476.8	679.7	850.2	1083.7	1324.9	1506.8	1695.2	1986.3	2471.8	3007.4	3436.2
12.5°	586.0	818.2	1059.3	1400.6	1759.0	2058.0	2394.0	2836.7	3396.7	4064.8	4763.3
10°	698.4	960.5	1275.6	1731.7	2215.1	2625.7	3106.6	3687.2	4402.3	5234.7	6112.5
7.5°	817.6	1099.8	1488.8	2069.2	2683.3	3201.4	3823.2	4529.7	5397.4	6387.0	7445.2
5°	933.1	1231.3	1666.5	2340.7	3063.2	3687.3	4476.1	5352.8	6370.3	7508.5	8755.7
2.5°	1040.8	1357.1	1834.8	2589.1	3371.6	4019.4	4864.0	5806.7	6954.4	8296.4	9738.8
0°	1137.7	1475.9	1991.3	2817.9	3656.4	4328.4	5219.8	6222.5	7418.6	8891.3	10407.2
-2.5°	1179.7	1537.9	2061.8	2852.0	3649.3	4334.0	5191.7	6214.6	7368.1	8772.2	10259.1
-5°	1209.5	1590.3	2117.4	2864.3	3618.7	4313.8	5131.8	6159.7	7207.7	8456.6	9788.7
-7.5°	1228.3	1631.9	2157.5	2843.3	3518.7	4155.4	4867.0	5742.5	6698.0	7809.8	8982.6
-10°	1232.2	1627.4	2097.3	2706.4	3324.6	3908.3	4542.5	5302.8	6157.2	7129.4	8149.1
-12.5°	1193.9	1582.4	2012.4	2559.8	3123.6	3651.7	4207.0	4852.9	5593.4	6429.2	7331.9
-15°	1152.4	1531.4	1921.2	2406.9	2920.7	3389.8	3866.3	4402.1	5059.0	5820.4	6599.0
-17.5°	1109.7	1475.3	1825.5	2251.3	2720.3	3126.8	3543.9	4052.7	4641.4	5283.1	5916.7
-20°	1067.8	1415.0	1727.0	2095.9	2525.7	2909.5	3316.2	3763.3	4257.6	4780.5	5284.2



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1028.5	1351.3	1636.0	1965.6	2358.5	2726.5	3089.7	3473.9	3883.2	4306.5	4838.1
-25°	1002.1	1290.1	1556.5	1862.1	2201.4	2541.1	2861.5	3191.8	3544.0	4012.3	4504.7
-27.5°	985.7	1238.0	1486.8	1758.3	2051.1	2358.2	2648.2	2939.5	3332.2	3753.6	4189.3
-30°	969.6	1186.2	1414.1	1660.1	1926.7	2193.1	2442.7	2771.8	3138.0	3523.5	3911.1
-32.5°	939.0	1131.8	1347.9	1575.6	1811.1	2041.8	2302.4	2626.0	2961.9	3300.8	3650.6
-35°	901.0	1083.7	1282.9	1489.6	1700.8	1928.9	2193.2	2478.1	2786.7	3101.9	3447.1
-37.5°	867.8	1031.4	1215.5	1408.3	1606.2	1830.8	2073.8	2339.9	2621.2	2916.0	3245.6
-40°	831.0	975.2	1151.7	1332.4	1518.3	1728.2	1957.1	2198.9	2457.8	2739.7	3035.5
-42.5°	791.6	930.4	1086.0	1254.6	1431.3	1623.4	1831.2	2058.6	2300.1	2556.8	2827.8
-45°	754.9	882.2	1019.2	1176.7	1340.1	1514.8	1707.5	1911.7	2140.5	2376.9	2620.9
-47.5°	714.2	832.0	961.7	1093.5	1246.6	1407.6	1578.4	1771.5	1973.8	2193.2	2418.6
-50°	670.3	782.1	896.3	1016.9	1150.8	1297.9	1454.0	1627.8	1815.0	2006.7	2209.3
-52.5°	625.2	727.9	831.2	938.6	1058.1	1188.9	1330.8	1484.6	1653.0	1828.8	2003.7
-55°	577.0	671.9	763.8	861.5	965.6	1082.1	1207.5	1344.6	1485.9	1646.0	1800.1
-57.5°	528.4	611.9	695.5	784.2	877.0	974.5	1088.7	1204.9	1332.3	1463.9	1592.3
-60°	478.1	551.0	625.3	705.4	789.2	877.6	970.6	1074.3	1182.2	1288.7	1401.8
-62.5°	425.9	490.2	555.6	624.2	699.6	779.2	862.2	948.7	1037.7	1130.3	1221.7
-65°	375.6	430.0	487.2	547.2	607.6	680.5	754.0	826.8	904.6	979.6	1052.8
-67.5°	324.3	376.0	424.0	470.8	526.5	589.1	646.8	712.7	777.9	839.6	899.2
-70°	281.8	323.1	367.2	409.6	453.5	506.8	563.4	615.8	665.1	716.8	772.7
-72.5°	240.9	280.8	317.7	351.5	396.0	445.8	492.3	535.6	582.6	631.7	676.9
-75°	203.4	238.2	274.2	307.5	344.5	388.0	434.9	478.9	518.9	558.7	599.8
-77.5°	167.4	193.5	223.8	258.0	294.6	328.5	365.5	405.4	442.8	480.7	520.9
-80°	128.5	147.2	167.7	191.4	218.7	248.5	280.6	314.6	344.5	372.0	399.1
-82.5°	86.4	100.7	115.1	129.6	144.8	160.9	178.6	200.3	219.7	239.1	258.9
-85°	47.8	53.9	63.7	73.7	82.1	91.1	100.5	110.4	119.6	128.6	137.4
-87.5°	27.9	31.0	34.3	37.7	40.0	42.2	44.3	46.3	48.9	51.4	53.8
-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°	17.3	17.6	17.9	18.1	18.4	19.2	20.0	20.8	21.6	21.3	21.1
87.5°	8.7	8.6	8.4	8.3	8.1	8.9	9.8	10.7	11.6	10.6	9.6
85°	16.6	16.7	16.7	16.7	16.6	17.7	18.8	19.9	20.9	19.3	17.6
82.5°	28.5	28.0	27.0	25.7	24.0	23.6	23.1	22.5	21.6	20.8	19.9
80°	42.3	40.3	37.7	34.6	31.2	29.4	27.7	25.8	23.7	23.1	22.6
77.5°	54.5	50.9	46.4	41.5	36.4	33.3	30.6	27.9	25.1	24.5	24.3
75°	62.4	57.6	51.1	44.3	37.4	33.0	29.8	26.7	23.7	22.8	22.4
72.5°	64.7	58.1	50.5	42.0	33.9	28.7	25.8	23.1	20.7	19.8	19.3
70°	60.6	51.7	43.3	35.2	27.6	22.9	20.8	19.0	17.5	16.8	16.5
67.5°	51.2	41.9	34.0	27.2	21.7	18.2	17.1	16.0	15.0	14.4	14.0
65°	38.9	31.7	25.9	21.3	17.9	15.7	14.7	13.8	13.0	12.3	11.8
62.5°	28.6	23.3	19.9	17.3	15.3	13.8	12.9	12.2	11.5	11.0	10.6
60°	21.5	17.9	15.8	14.2	12.9	12.0	11.4	10.9	10.4	10.0	9.5
57.5°	16.4	14.3	12.7	11.9	11.3	10.9	10.5	9.9	9.4	9.0	8.5
55°	13.0	11.9	11.0	10.7	10.5	10.1	9.6	9.2	8.6	8.0	7.5
52.5°	10.9	10.8	10.8	10.6	10.3	10.0	9.6	9.0	8.4	7.7	7.3
50°	10.8	10.9	10.9	10.7	10.4	10.1	9.7	9.3	8.9	8.4	8.1
47.5°	11.2	11.4	12.0	11.0	10.8	11.1	10.9	10.5	10.3	10.1	9.8
45°	13.2	15.5	16.1	15.2	13.3	14.9	14.4	12.7	13.7	13.5	12.7
42.5°	23.5	25.9	27.8	26.6	22.8	24.1	24.1	21.5	22.2	22.3	21.3
40°	44.8	43.9	47.0	45.8	41.6	40.1	41.9	38.9	38.3	39.8	38.1
37.5°	73.8	74.3	72.9	73.1	71.6	67.6	70.0	69.1	66.7	71.4	71.9
35°	115.4	118.9	107.7	112.1	114.0	109.6	112.4	120.3	115.3	126.1	129.0
32.5°	171.0	178.4	173.0	167.9	176.4	183.2	186.4	203.1	207.5	217.3	229.0
30°	239.6	258.8	274.0	264.5	263.5	287.4	301.2	323.6	345.3	358.3	382.2
27.5°	382.4	376.4	412.6	423.3	399.5	437.7	489.6	499.4	565.6	571.0	617.3
25°	604.3	601.2	612.1	664.6	677.9	697.0	786.1	833.1	909.0	950.0	985.5
22.5°	902.3	986.5	1000.9	976.7	1092.0	1167.4	1192.4	1327.7	1389.6	1482.0	1509.8
20°	1275.1	1471.0	1718.4	1722.3	1674.8	1892.0	1982.0	2053.2	2204.4	2309.8	2381.3
17.5°	2252.3	2250.7	2756.1	3035.3	3003.8	3160.1	3602.5	3556.9	3914.3	4130.9	4140.0
15°	3686.4	3953.7	4274.4	4780.9	5212.0	5559.5	5979.5	6528.3	6972.7	7494.6	7890.9
12.5°	5327.1	5853.5	6402.4	6980.2	7656.7	8425.0	9260.6	9992.1	10862.2	11623.8	12411.2
10°	6971.0	7804.8	8579.5	9443.0	10404.5	11427.9	12653.3	13724.0	15011.2	16140.2	16882.4
7.5°	8478.4	9478.6	10525.7	11780.8	13122.9	14408.0	15795.3	17297.0	18803.0	20107.4	21215.1
5°	9951.8	11076.2	12236.8	13619.3	15153.1	16763.4	18480.0	20256.0	21834.0	23320.0	24613.3
2.5°	11107.6	12395.6	13721.5	15284.9	16935.0	18566.9	20285.4	22197.3	24032.5	25770.4	27099.1
0°	11794.5	13086.8	14387.7	16044.1	17856.1	19609.7	21525.4	23561.0	25498.3	27160.1	28391.8
-2.5°	11520.9	12779.6	14094.1	15730.5	17476.2	19110.1	20940.5	22912.4	24788.8	26471.8	27750.1
-5°	10902.2	12031.5	13236.4	14749.5	16382.6	18005.9	19800.4	21676.2	23295.0	24788.8	25935.0
-7.5°	10032.1	11074.0	12197.7	13598.6	15100.4	16518.0	17984.8	19498.1	20971.2	22248.8	23191.9
-10°	9108.1	10051.2	11018.6	12141.9	13421.9	14659.2	15896.8	17277.1	18491.1	19545.9	20323.7
-12.5°	8181.4	8956.1	9719.3	10578.3	11676.6	12790.2	13860.6	15018.0	15985.0	16855.2	17547.0
-15°	7291.9	7895.1	8474.1	9305.6	10272.7	11095.2	11753.8	12802.1	13458.6	14232.1	14715.8
-17.5°	6465.2	6946.8	7650.5	8365.2	9055.3	9731.2	10491.1	11111.8	11756.1	12387.9	12803.6
-20°	5814.7	6410.4	7005.2	7586.4	8179.2	8824.3	9426.0	10012.5	10573.9	11059.5	11392.8



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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°	5391.3	5920.1	6420.8	6943.8	7521.3	8063.0	8571.3	9111.4	9591.5	9954.1	10225.2
-25°	4984.7	5444.6	5931.7	6455.0	6943.6	7399.6	7867.6	8284.6	8694.3	8996.1	9249.9
-27.5°	4618.2	5054.5	5534.5	5998.3	6433.8	6859.9	7257.7	7603.0	7944.4	8185.8	8438.2
-30°	4299.5	4741.4	5177.9	5590.1	5999.2	6385.3	6736.0	7063.9	7350.3	7585.5	7797.0
-32.5°	4058.6	4459.4	4848.1	5233.8	5621.5	5977.4	6284.4	6599.4	6862.9	7088.4	7280.0
-35°	3820.5	4197.3	4556.6	4910.1	5266.9	5610.1	5907.3	6181.6	6441.0	6642.8	6818.3
-37.5°	3588.4	3939.7	4272.1	4590.0	4916.5	5232.9	5504.0	5761.7	5993.5	6180.0	6346.6
-40°	3354.5	3676.4	3973.6	4269.7	4563.1	4828.2	5083.1	5320.4	5519.0	5690.9	5842.5
-42.5°	3112.9	3396.2	3664.4	3935.4	4203.3	4437.9	4662.9	4876.1	5045.1	5197.5	5328.7
-45°	2870.3	3119.7	3365.3	3608.8	3829.3	4045.9	4249.8	4429.8	4582.2	4717.2	4831.0
-47.5°	2636.9	2848.8	3073.5	3295.6	3485.0	3670.4	3848.8	4001.4	4133.8	4251.8	4351.9
-50°	2403.5	2592.7	2788.7	2979.3	3153.0	3315.7	3465.2	3598.5	3719.2	3821.2	3907.1
-52.5°	2172.6	2348.2	2515.7	2670.7	2828.5	2978.1	3117.2	3233.7	3339.5	3433.9	3509.6
-55°	1952.1	2107.4	2264.0	2396.0	2523.6	2648.2	2764.0	2868.1	2963.9	3050.6	3118.5
-57.5°	1729.6	1865.1	1996.0	2114.4	2228.8	2338.8	2432.6	2514.2	2590.7	2660.7	2720.6
-60°	1515.0	1627.8	1738.4	1837.2	1932.5	2024.0	2103.9	2173.4	2235.0	2289.3	2338.4
-62.5°	1313.4	1410.4	1498.6	1578.3	1652.9	1727.5	1795.6	1855.7	1907.9	1952.5	1990.9
-65°	1128.1	1208.3	1278.9	1344.9	1406.9	1469.7	1524.4	1573.7	1617.6	1654.5	1684.1
-67.5°	963.4	1026.1	1084.8	1136.0	1188.7	1242.2	1291.7	1334.9	1372.1	1401.6	1424.6
-70°	824.4	875.3	927.9	978.9	1029.0	1075.0	1117.8	1156.0	1190.0	1215.4	1235.7
-72.5°	718.3	761.2	809.8	861.2	908.8	954.5	998.1	1038.5	1076.2	1100.4	1119.3
-75°	642.2	686.4	729.9	772.7	814.9	855.1	895.6	937.0	978.7	1003.3	1023.1
-77.5°	558.0	589.1	621.4	656.3	693.5	729.6	764.9	799.7	833.8	850.9	863.9
-80°	427.8	452.6	476.9	501.5	526.2	551.6	577.2	602.5	627.5	639.0	647.6
-82.5°	278.8	295.8	312.0	327.6	342.5	355.2	367.0	378.1	388.3	393.2	396.7
-85°	146.0	153.5	160.6	167.3	173.5	177.4	180.8	183.6	186.0	189.1	191.7
-87.5°	56.2	58.3	60.4	62.4	64.4	65.4	66.2	67.0	67.6	68.6	69.5
-90°	4.3	4.0	3.8	3.5	3.2	3.0	2.7	2.5	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°	20.8	20.5	21.1	21.6	21.1	20.5	20.8	21.1	21.3	21.6	20.8
87.5°	8.6	7.6	7.0	6.5	7.0	7.6	8.6	9.6	10.6	11.6	10.7
85°	15.8	14.0	12.9	11.9	12.9	14.0	15.8	17.6	19.3	20.9	19.9
82.5°	19.1	18.4	18.4	18.4	18.4	18.4	19.1	19.9	20.8	21.6	22.5
80°	22.1	21.6	21.6	21.6	21.6	21.6	22.1	22.6	23.1	23.7	25.8
77.5°	24.0	23.8	23.3	22.7	23.3	23.8	24.0	24.3	24.5	25.1	27.9
75°	22.0	21.7	21.6	21.6	21.6	21.7	22.0	22.4	22.8	23.7	26.7
72.5°	18.9	18.5	18.4	18.4	18.4	18.5	18.9	19.3	19.8	20.7	23.1
70°	16.4	16.3	15.7	15.1	15.7	16.3	16.4	16.5	16.8	17.5	19.0
67.5°	13.5	13.2	13.0	13.0	13.0	13.2	13.5	14.0	14.4	15.0	16.0
65°	11.4	10.9	10.8	10.8	10.8	10.9	11.4	11.8	12.3	13.0	13.8
62.5°	10.2	9.8	9.2	8.6	9.2	9.8	10.2	10.6	11.0	11.5	12.2
60°	9.1	8.7	8.2	7.6	8.2	8.7	9.1	9.5	10.0	10.4	10.9
57.5°	8.1	7.7	7.6	7.6	7.6	7.7	8.1	8.5	9.0	9.4	9.9
55°	7.1	6.7	6.5	6.5	6.5	6.7	7.1	7.5	8.0	8.6	9.2
52.5°	7.0	6.6	6.5	6.5	6.5	6.6	7.0	7.3	7.7	8.4	9.0
50°	7.9	7.7	7.6	7.6	7.6	7.7	7.9	8.1	8.4	8.9	9.3
47.5°	9.4	8.9	8.6	8.6	8.6	8.9	9.4	9.8	10.1	10.3	10.5
45°	12.4	12.0	11.8	11.9	11.8	12.0	12.4	12.7	13.5	13.7	12.7
42.5°	21.5	20.9	20.0	19.4	20.0	20.9	21.5	21.3	22.3	22.2	21.5
40°	38.2	37.3	36.1	35.7	36.1	37.3	38.2	38.1	39.8	38.3	38.9
37.5°	72.8	72.3	69.9	69.2	69.9	72.3	72.8	71.9	71.4	66.7	69.1
35°	128.8	129.8	127.6	127.5	127.6	129.8	128.8	129.0	126.1	115.3	120.3
32.5°	232.9	235.4	228.8	232.3	228.8	235.4	232.9	229.0	217.3	207.5	203.1
30°	381.4	389.9	386.2	387.9	386.2	389.9	381.4	382.2	358.3	345.3	323.6
27.5°	621.8	628.1	615.1	610.5	615.1	628.1	621.8	617.3	571.0	565.6	499.4
25°	1005.5	1009.5	996.7	1001.6	996.7	1009.5	1005.5	985.5	950.0	909.0	833.1
22.5°	1566.3	1551.2	1537.0	1523.5	1537.0	1551.2	1566.3	1509.8	1482.0	1389.6	1327.7
20°	2447.7	2413.1	2408.5	2382.5	2408.5	2413.1	2447.7	2381.3	2309.8	2204.4	2053.2
17.5°	4361.0	4423.8	4284.5	4015.1	4284.5	4423.8	4361.0	4140.0	4130.9	3914.3	3556.9
15°	8124.3	8419.2	8545.9	8236.5	8545.9	8419.2	8124.3	7890.9	7494.6	6972.7	6528.3
12.5°	12845.9	13053.4	13304.9	13121.4	13304.9	13053.4	12845.9	12411.2	11623.8	10862.2	9992.1
10°	17519.9	17830.7	18211.2	18039.7	18211.2	17830.7	17519.9	16882.4	16140.2	15011.2	13724.0
7.5°	21824.7	22360.1	22694.4	22479.5	22694.4	22360.1	21824.7	21215.1	20107.4	18803.0	17297.0
5°	25498.5	25921.8	26123.4	26067.7	26123.4	25921.8	25498.5	24613.3	23320.0	21834.0	20256.0
2.5°	27854.5	28301.3	28482.0	28331.9	28482.0	28301.3	27854.5	27099.1	25770.4	24032.5	22197.3
0°	29006.1	29424.8	29712.2	29734.9	29712.2	29424.8	29006.1	28391.8	27160.1	25498.3	23561.0
-2.5°	28340.6	28595.0	28732.5	28640.9	28732.5	28595.0	28340.6	27750.1	26471.8	24788.8	22912.4
-5°	26597.7	26866.8	26954.1	27060.7	26954.1	26866.8	26597.7	25935.0	24788.8	23295.0	21676.2
-7.5°	23722.4	24017.6	24235.2	24226.1	24235.2	24017.6	23722.4	23191.9	22248.8	20971.2	19498.1
-10°	20902.1	21121.5	21348.5	21310.4	21348.5	21121.5	20902.1	20323.7	19545.9	18491.1	17277.1
-12.5°	18107.1	18473.0	18561.9	18535.2	18561.9	18473.0	18107.1	17547.0	16855.2	15985.0	15018.0
-15°	15266.5	15537.6	15515.3	15443.3	15515.3	15537.6	15266.5	14715.8	14232.1	13458.6	12802.1
-17.5°	13163.4	13312.9	13370.0	13313.7	13370.0	13312.9	13163.4	12803.6	12387.9	11756.1	11111.8
-20°	11666.9	11782.4	11821.3	11847.5	11821.3	11782.4	11666.9	11392.8	11059.5	10573.9	10012.5



REPORT NUMBER: P731448 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-CV5

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10458.8	10576.8	10610.9	10655.7	10610.9	10576.8	10458.8	10225.2	9954.1	9591.5	9111.4
-25°	9445.7	9561.0	9599.9	9644.4	9599.9	9561.0	9445.7	9249.9	8996.1	8694.3	8284.6
-27.5°	8607.4	8719.9	8766.8	8800.5	8766.8	8719.9	8607.4	8438.2	8185.8	7944.4	7603.0
-30°	7947.3	8058.1	8125.1	8146.8	8125.1	8058.1	7947.3	7797.0	7585.5	7350.3	7063.9
-32.5°	7423.5	7520.3	7583.3	7615.2	7583.3	7520.3	7423.5	7280.0	7088.4	6862.9	6599.4
-35°	6957.0	7054.2	7119.6	7152.8	7119.6	7054.2	6957.0	6818.3	6642.8	6441.0	6181.6
-37.5°	6480.0	6585.8	6655.0	6656.9	6655.0	6585.8	6480.0	6346.6	6180.0	5993.5	5761.7
-40°	5953.7	6037.6	6092.5	6114.5	6092.5	6037.6	5953.7	5842.5	5690.9	5519.0	5320.4
-42.5°	5425.9	5497.1	5541.6	5560.2	5541.6	5497.1	5425.9	5328.7	5197.5	5045.1	4876.1
-45°	4921.9	4993.7	5030.8	5025.3	5030.8	4993.7	4921.9	4831.0	4717.2	4582.2	4429.8
-47.5°	4428.9	4484.6	4515.0	4521.8	4515.0	4484.6	4428.9	4351.9	4251.8	4133.8	4001.4
-50°	3980.0	4039.1	4064.3	4057.2	4064.3	4039.1	3980.0	3907.1	3821.2	3719.2	3598.5
-52.5°	3571.9	3622.1	3643.9	3641.2	3643.9	3622.1	3571.9	3509.6	3433.9	3339.5	3233.7
-55°	3174.0	3217.3	3234.6	3231.7	3234.6	3217.3	3174.0	3118.5	3050.6	2963.9	2868.1
-57.5°	2770.2	2809.3	2820.8	2813.6	2820.8	2809.3	2770.2	2720.6	2660.7	2590.7	2514.2
-60°	2379.1	2411.2	2421.2	2417.0	2421.2	2411.2	2379.1	2338.4	2289.3	2235.0	2173.4
-62.5°	2022.7	2047.5	2057.7	2058.3	2057.7	2047.5	2022.7	1990.9	1952.5	1907.9	1855.7
-65°	1708.1	1726.5	1734.7	1736.3	1734.7	1726.5	1708.1	1684.1	1654.5	1617.6	1573.7
-67.5°	1443.1	1457.4	1462.5	1463.0	1462.5	1457.4	1443.1	1424.6	1401.6	1372.1	1334.9
-70°	1253.9	1269.9	1276.6	1280.4	1276.6	1269.9	1253.9	1235.7	1215.4	1190.0	1156.0
-72.5°	1137.0	1153.4	1161.2	1166.9	1161.2	1153.4	1137.0	1119.3	1100.4	1076.2	1038.5
-75°	1041.9	1059.4	1064.8	1067.5	1064.8	1059.4	1041.9	1023.1	1003.3	978.7	937.0
-77.5°	875.2	884.6	888.1	889.2	888.1	884.6	875.2	863.9	850.9	833.8	799.7
-80°	654.4	659.4	668.8	676.4	668.8	659.4	654.4	647.6	639.0	627.5	602.5
-82.5°	398.8	399.6	405.1	409.5	405.1	399.6	398.8	396.7	393.2	388.3	378.1
-85°	193.9	195.6	200.1	204.2	200.1	195.6	193.9	191.7	189.1	186.0	183.6
-87.5°	70.3	71.1	70.7	70.2	70.7	71.1	70.3	69.5	68.6	67.6	67.0
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.5



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	20.0	19.2	18.4	18.1	17.9	17.6	17.3	16.0	14.6	13.3	11.9
87.5°	9.8	8.9	8.1	8.3	8.4	8.6	8.7	8.2	7.6	7.1	6.6
85°	18.8	17.7	16.6	16.7	16.7	16.7	16.6	16.1	15.5	14.8	13.9
82.5°	23.1	23.6	24.0	25.7	27.0	28.0	28.5	28.3	27.8	26.9	25.5
80°	27.7	29.4	31.2	34.6	37.7	40.3	42.3	43.1	43.5	43.4	42.0
77.5°	30.6	33.3	36.4	41.5	46.4	50.9	54.5	56.3	57.1	57.5	55.9
75°	29.8	33.0	37.4	44.3	51.1	57.6	62.4	65.2	67.5	69.3	67.6
72.5°	25.8	28.7	33.9	42.0	50.5	58.1	64.7	70.3	75.1	78.8	76.4
70°	20.8	22.9	27.6	35.2	43.3	51.7	60.6	69.7	79.0	85.4	81.6
67.5°	17.1	18.2	21.7	27.2	34.0	41.9	51.2	61.7	71.7	81.4	80.4
65°	14.7	15.7	17.9	21.3	25.9	31.7	38.9	48.0	58.8	69.9	71.5
62.5°	12.9	13.8	15.3	17.3	19.9	23.3	28.6	36.1	45.0	52.6	56.5
60°	11.4	12.0	12.9	14.2	15.8	17.9	21.5	26.4	32.5	38.8	42.9
57.5°	10.5	10.9	11.3	11.9	12.7	14.3	16.4	19.1	24.0	28.0	31.5
55°	9.6	10.1	10.5	10.7	11.0	11.9	13.0	14.9	17.8	20.1	24.1
52.5°	9.6	10.0	10.3	10.6	10.8	10.8	10.9	12.2	14.0	16.6	18.9
50°	9.7	10.1	10.4	10.7	10.9	10.9	10.8	10.8	12.5	14.5	16.4
47.5°	10.9	11.1	10.8	11.0	12.0	11.4	11.2	12.0	13.5	13.6	15.3
45°	14.4	14.9	13.3	15.2	16.1	15.5	13.2	16.2	17.0	16.7	15.0
42.5°	24.1	24.1	22.8	26.6	27.8	25.9	23.5	25.8	24.8	22.3	25.1
40°	41.9	40.1	41.6	45.8	47.0	43.9	44.8	41.8	39.0	32.9	42.8
37.5°	70.0	67.6	71.6	73.1	72.9	74.3	73.8	67.5	58.8	63.8	71.6
35°	112.4	109.6	114.0	112.1	107.7	118.9	115.4	101.4	94.4	102.2	107.4
32.5°	186.4	183.2	176.4	167.9	173.0	178.4	171.0	150.4	153.3	153.3	147.7
30°	301.2	287.4	263.5	264.5	274.0	258.8	239.6	246.9	236.6	215.6	194.9
27.5°	489.6	437.7	399.5	423.3	412.6	376.4	382.4	371.7	337.2	298.3	270.1
25°	786.1	697.0	677.9	664.6	612.1	601.2	604.3	554.0	472.4	415.8	454.3
22.5°	1192.4	1167.4	1092.0	976.7	1000.9	986.5	902.3	787.7	702.8	764.3	715.2
20°	1982.0	1892.0	1674.8	1722.3	1718.4	1471.0	1275.1	1290.6	1339.8	1232.5	1043.1
17.5°	3602.5	3160.1	3003.8	3035.3	2756.1	2250.7	2252.3	2276.3	2108.0	1794.9	1427.1
15°	5979.5	5559.5	5212.0	4780.9	4274.4	3953.7	3686.4	3436.2	3007.4	2471.8	1986.3
12.5°	9260.6	8425.0	7656.7	6980.2	6402.4	5853.5	5327.1	4763.3	4064.8	3396.7	2836.7
10°	12653.3	11427.9	10404.5	9443.0	8579.5	7804.8	6971.0	6112.5	5234.7	4402.3	3687.2
7.5°	15795.3	14408.0	13122.9	11780.8	10525.7	9478.6	8478.4	7445.2	6387.0	5397.4	4529.7
5°	18480.0	16763.4	15153.1	13619.3	12236.8	11076.2	9951.8	8755.7	7508.5	6370.3	5352.8
2.5°	20285.4	18566.9	16935.0	15284.9	13721.5	12395.6	11107.6	9738.8	8296.4	6954.4	5806.7
0°	21525.4	19609.7	17856.1	16044.1	14387.7	13086.8	11794.5	10407.2	8891.3	7418.6	6222.5
-2.5°	20940.5	19110.1	17476.2	15730.5	14094.1	12779.6	11520.9	10259.1	8772.2	7368.1	6214.6
-5°	19800.4	18005.9	16382.6	14749.5	13236.4	12031.5	10902.2	9788.7	8456.6	7207.7	6159.7
-7.5°	17984.8	16518.0	15100.4	13598.6	12197.7	11074.0	10032.1	8982.6	7809.8	6698.0	5742.5
-10°	15896.8	14659.2	13421.9	12141.9	11018.6	10051.2	9108.1	8149.1	7129.4	6157.2	5302.8
-12.5°	13860.6	12790.2	11676.6	10578.3	9719.3	8956.1	8181.4	7331.9	6429.2	5593.4	4852.9
-15°	11753.8	11095.2	10272.7	9305.6	8474.1	7895.1	7291.9	6599.0	5820.4	5059.0	4402.1
-17.5°	10491.1	9731.2	9055.3	8365.2	7650.5	6946.8	6465.2	5916.7	5283.1	4641.4	4052.7
-20°	9426.0	8824.3	8179.2	7586.4	7005.2	6410.4	5814.7	5284.2	4780.5	4257.6	3763.3



REPORT NUMBER: P731448 (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°	8571.3	8063.0	7521.3	6943.8	6420.8	5920.1	5391.3	4838.1	4306.5	3883.2	3473.9
-25°	7867.6	7399.6	6943.6	6455.0	5931.7	5444.6	4984.7	4504.7	4012.3	3544.0	3191.8
-27.5°	7257.7	6859.9	6433.8	5998.3	5534.5	5054.5	4618.2	4189.3	3753.6	3332.2	2939.5
-30°	6736.0	6385.3	5999.2	5590.1	5177.9	4741.4	4299.5	3911.1	3523.5	3138.0	2771.8
-32.5°	6284.4	5977.4	5621.5	5233.8	4848.1	4459.4	4058.6	3650.6	3300.8	2961.9	2626.0
-35°	5907.3	5610.1	5266.9	4910.1	4556.6	4197.3	3820.5	3447.1	3101.9	2786.7	2478.1
-37.5°	5504.0	5232.9	4916.5	4590.0	4272.1	3939.7	3588.4	3245.6	2916.0	2621.2	2339.9
-40°	5083.1	4828.2	4563.1	4269.7	3973.6	3676.4	3354.5	3035.5	2739.7	2457.8	2198.9
-42.5°	4662.9	4437.9	4203.3	3935.4	3664.4	3396.2	3112.9	2827.8	2556.8	2300.1	2058.6
-45°	4249.8	4045.9	3829.3	3608.8	3365.3	3119.7	2870.3	2620.9	2376.9	2140.5	1911.7
-47.5°	3848.8	3670.4	3485.0	3295.6	3073.5	2848.8	2636.9	2418.6	2193.2	1973.8	1771.5
-50°	3465.2	3315.7	3153.0	2979.3	2788.7	2592.7	2403.5	2209.3	2006.7	1815.0	1627.8
-52.5°	3117.2	2978.1	2828.5	2670.7	2515.7	2348.2	2172.6	2003.7	1828.8	1653.0	1484.6
-55°	2764.0	2648.2	2523.6	2396.0	2264.0	2107.4	1952.1	1800.1	1646.0	1485.9	1344.6
-57.5°	2432.6	2338.8	2228.8	2114.4	1996.0	1865.1	1729.6	1592.3	1463.9	1332.3	1204.9
-60°	2103.9	2024.0	1932.5	1837.2	1738.4	1627.8	1515.0	1401.8	1288.7	1182.2	1074.3
-62.5°	1795.6	1727.5	1652.9	1578.3	1498.6	1410.4	1313.4	1221.7	1130.3	1037.7	948.7
-65°	1524.4	1469.7	1406.9	1344.9	1278.9	1208.3	1128.1	1052.8	979.6	904.6	826.8
-67.5°	1291.7	1242.2	1188.7	1136.0	1084.8	1026.1	963.4	899.2	839.6	777.9	712.7
-70°	1117.8	1075.0	1029.0	978.9	927.9	875.3	824.4	772.7	716.8	665.1	615.8
-72.5°	998.1	954.5	908.8	861.2	809.8	761.2	718.3	676.9	631.7	582.6	535.6
-75°	895.6	855.1	814.9	772.7	729.9	686.4	642.2	599.8	558.7	518.9	478.9
-77.5°	764.9	729.6	693.5	656.3	621.4	589.1	558.0	520.9	480.7	442.8	405.4
-80°	577.2	551.6	526.2	501.5	476.9	452.6	427.8	399.1	372.0	344.5	314.6
-82.5°	367.0	355.2	342.5	327.6	312.0	295.8	278.8	258.9	239.1	219.7	200.3
-85°	180.8	177.4	173.5	167.3	160.6	153.5	146.0	137.4	128.6	119.6	110.4
-87.5°	66.2	65.4	64.4	62.4	60.4	58.3	56.2	53.8	51.4	48.9	46.3
-90°	2.7	3.0	3.2	3.5	3.8	4.0	4.3	4.3	4.3	4.3	4.3



REPORT NUMBER: P731448 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	11.1	10.3	9.4	8.6	8.4	8.1	7.9	7.6	7.3	7.1	6.8
87.5°	7.3	7.8	8.3	8.7	8.1	7.5	7.0	6.6	6.7	6.7	6.7
85°	13.5	13.3	13.3	13.3	12.2	10.8	9.8	8.9	9.1	9.1	9.0
82.5°	22.9	21.2	19.9	18.9	18.3	17.3	15.8	14.0	12.5	11.6	11.4
80°	37.6	33.5	29.8	26.6	24.8	23.8	22.6	20.6	17.4	15.0	13.6
77.5°	50.5	45.4	40.7	35.9	31.9	28.9	27.1	25.9	22.1	18.3	15.7
75°	61.7	55.4	49.4	43.5	38.0	33.6	30.1	27.5	24.3	21.2	17.5
72.5°	69.5	62.9	56.7	50.1	42.9	37.0	32.4	29.0	25.5	22.2	19.0
70°	74.9	68.8	62.1	54.5	47.0	39.8	34.0	30.0	26.7	23.2	19.8
67.5°	78.3	71.3	65.0	58.2	50.3	42.6	35.3	31.0	27.5	24.0	20.5
65°	70.0	68.5	66.4	59.1	52.2	45.1	37.3	32.2	28.3	24.8	21.2
62.5°	59.4	60.6	59.6	57.8	52.4	45.7	39.3	34.0	29.2	25.4	21.7
60°	46.4	49.8	52.0	51.5	49.9	45.5	39.8	35.7	30.6	26.0	22.3
57.5°	35.9	39.3	42.9	45.0	44.6	42.9	40.0	36.3	31.8	26.9	22.8
55°	27.2	31.2	35.0	38.0	39.3	38.5	39.1	36.4	32.7	27.8	23.6
52.5°	21.8	25.1	28.6	32.0	34.2	34.9	36.4	36.5	32.7	28.5	24.6
50°	18.5	22.1	24.5	27.1	29.7	32.0	34.0	34.7	32.7	29.0	25.6
47.5°	18.5	22.0	23.5	23.8	26.0	29.4	31.8	32.9	32.6	28.9	26.6
45°	22.4	24.9	25.0	24.3	23.9	27.8	29.8	31.4	31.4	29.6	27.7
42.5°	30.2	32.1	29.9	25.8	28.4	27.3	28.1	30.0	30.3	30.4	28.5
40°	46.4	43.5	37.7	37.1	37.3	27.9	28.3	28.7	29.5	31.1	29.3
37.5°	67.5	61.4	51.4	54.8	51.0	39.2	29.4	27.6	30.2	31.7	30.2
35°	101.0	85.3	79.6	79.1	70.9	53.4	31.3	27.8	31.6	32.5	31.1
32.5°	141.1	127.1	121.2	108.4	94.4	70.3	40.8	33.2	33.6	33.6	32.1
30°	193.5	199.6	171.6	140.8	121.8	92.7	61.2	40.0	36.3	34.9	33.1
27.5°	297.8	288.0	233.6	186.5	152.2	120.4	95.8	48.1	39.7	36.7	34.1
25°	435.1	395.0	319.4	241.1	184.7	204.0	139.4	58.3	45.4	39.3	35.2
22.5°	620.5	521.5	415.9	300.5	311.1	310.1	199.6	91.4	52.7	42.3	36.5
20°	836.2	665.4	560.2	519.9	469.2	423.5	280.8	129.2	60.6	45.6	37.8
17.5°	1088.3	979.6	922.1	788.0	652.2	547.3	374.1	170.7	68.8	49.0	39.2
15°	1695.2	1506.8	1324.9	1083.7	850.2	679.7	476.8	214.8	77.4	52.7	43.1
12.5°	2394.0	2058.0	1759.0	1400.6	1059.3	818.2	586.0	260.3	86.2	61.2	50.4
10°	3106.6	2625.7	2215.1	1731.7	1275.6	960.5	698.4	311.3	106.7	73.6	58.0
7.5°	3823.2	3201.4	2683.3	2069.2	1488.8	1099.8	817.6	372.0	129.3	86.1	65.7
5°	4476.1	3687.3	3063.2	2340.7	1666.5	1231.3	933.1	430.3	152.0	98.7	73.5
2.5°	4864.0	4019.4	3371.6	2589.1	1834.8	1357.1	1040.8	484.7	174.2	111.1	81.1
0°	5219.8	4328.4	3656.4	2817.9	1991.3	1475.9	1137.7	533.8	195.6	123.2	88.6
-2.5°	5191.7	4334.0	3649.3	2852.0	2061.8	1537.9	1179.7	593.8	255.0	166.3	117.0
-5°	5131.8	4313.8	3618.7	2864.3	2117.4	1590.3	1209.5	647.1	312.4	208.2	144.7
-7.5°	4867.0	4155.4	3518.7	2843.3	2157.5	1631.9	1228.3	693.7	367.0	248.4	171.2
-10°	4542.5	3908.3	3324.6	2706.4	2097.3	1627.4	1232.2	733.8	418.1	286.3	196.3
-12.5°	4207.0	3651.7	3123.6	2559.8	2012.4	1582.4	1193.9	750.1	463.2	321.3	219.5
-15°	3866.3	3389.8	2920.7	2406.9	1921.2	1531.4	1152.4	753.6	490.6	349.9	240.5
-17.5°	3543.9	3126.8	2720.3	2251.3	1825.5	1475.3	1109.7	753.7	514.5	371.7	258.7
-20°	3316.2	2909.5	2525.7	2095.9	1727.0	1415.0	1067.8	751.0	534.7	390.9	274.5



REPORT NUMBER: P731448 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3089.7	2726.5	2358.5	1965.6	1636.0	1351.3	1028.5	746.0	551.0	407.4	288.0
-25°	2861.5	2541.1	2201.4	1862.1	1556.5	1290.1	1002.1	739.4	563.3	421.0	299.2
-27.5°	2648.2	2358.2	2051.1	1758.3	1486.8	1238.0	985.7	749.6	573.5	431.6	307.8
-30°	2442.7	2193.1	1926.7	1660.1	1414.1	1186.2	969.6	755.6	583.5	440.0	313.8
-32.5°	2302.4	2041.8	1811.1	1575.6	1347.9	1131.8	939.0	756.4	589.7	445.6	319.2
-35°	2193.2	1928.9	1700.8	1489.6	1282.9	1083.7	901.0	752.0	592.0	447.6	322.7
-37.5°	2073.8	1830.8	1606.2	1408.3	1215.5	1031.4	867.8	727.4	590.3	446.1	323.6
-40°	1957.1	1728.2	1518.3	1332.4	1151.7	975.2	831.0	701.7	584.8	440.8	322.1
-42.5°	1831.2	1623.4	1431.3	1254.6	1086.0	930.4	791.6	672.4	561.0	434.9	318.0
-45°	1707.5	1514.8	1340.1	1176.7	1019.2	882.2	754.9	639.7	532.7	427.2	311.8
-47.5°	1578.4	1407.6	1246.6	1093.5	961.7	832.0	714.2	604.9	501.9	415.8	303.6
-50°	1454.0	1297.9	1150.8	1016.9	896.3	782.1	670.3	567.4	473.5	391.1	292.7
-52.5°	1330.8	1188.9	1058.1	938.6	831.2	727.9	625.2	527.6	442.5	365.1	279.2
-55°	1207.5	1082.1	965.6	861.5	763.8	671.9	577.0	489.1	409.1	337.6	263.3
-57.5°	1088.7	974.5	877.0	784.2	695.5	611.9	528.4	447.8	375.1	308.5	246.4
-60°	970.6	877.6	789.2	705.4	625.3	551.0	478.1	405.0	339.7	278.7	223.9
-62.5°	862.2	779.2	699.6	624.2	555.6	490.2	425.9	362.6	302.7	250.4	199.2
-65°	754.0	680.5	607.6	547.2	487.2	430.0	375.6	318.5	268.7	221.3	175.3
-67.5°	646.8	589.1	526.5	470.8	424.0	376.0	324.3	278.6	235.1	191.5	154.3
-70°	563.4	506.8	453.5	409.6	367.2	323.1	281.8	240.4	200.8	167.5	133.0
-72.5°	492.3	445.8	396.0	351.5	317.7	280.8	240.9	203.5	174.0	143.3	111.4
-75°	434.9	388.0	344.5	307.5	274.2	238.2	203.4	174.2	147.0	118.7	92.0
-77.5°	365.5	328.5	294.6	258.0	223.8	193.5	167.4	144.6	119.0	94.6	73.0
-80°	280.6	248.5	218.7	191.4	167.7	147.2	128.5	109.6	88.7	70.0	53.5
-82.5°	178.6	160.9	144.8	129.6	115.1	100.7	86.4	72.3	57.7	44.8	37.0
-85°	100.5	91.1	82.1	73.7	63.7	53.9	47.8	42.1	36.8	31.7	27.0
-87.5°	44.3	42.2	40.0	37.7	34.3	31.0	27.9	24.9	22.1	19.4	16.9
-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):

	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°	6.5	6.0	5.5	5.1	4.8	4.5	4.3
85°	8.8	7.7	6.7	5.9	5.2	4.7	4.3
82.5°	11.0	9.4	7.9	6.7	5.7	4.9	4.3
80°	13.1	11.0	9.1	7.5	6.2	5.1	4.3
77.5°	14.1	12.3	10.3	8.3	6.6	5.2	4.3
75°	15.0	12.8	11.3	9.1	7.1	5.4	4.3
72.5°	15.9	13.3	11.5	9.8	7.5	5.6	4.3
70°	16.7	13.7	11.6	10.4	7.9	5.8	4.3
67.5°	17.3	14.1	11.7	10.3	8.3	5.9	4.3
65°	17.9	14.5	11.8	10.3	8.7	6.1	4.3
62.5°	18.5	15.1	11.8	10.2	9.1	6.3	4.3
60°	19.1	15.7	11.8	10.1	9.4	6.4	4.3
57.5°	19.9	16.3	12.3	9.9	9.3	6.5	4.3
55°	20.6	16.8	12.7	9.7	9.2	6.7	4.3
52.5°	21.4	17.4	13.2	9.5	9.2	6.8	4.3
50°	22.2	18.1	13.7	9.3	9.1	6.9	4.3
47.5°	23.1	18.9	14.1	9.2	9.1	7.1	4.3
45°	24.0	19.6	14.5	9.5	9.0	7.2	4.3
42.5°	24.9	20.4	14.9	9.8	9.0	7.3	4.3
40°	25.8	21.1	15.4	10.3	9.0	7.3	4.3
37.5°	26.7	21.9	15.9	10.8	9.0	7.4	4.3
35°	27.5	22.6	16.5	11.4	9.0	7.5	4.3
32.5°	28.3	23.3	17.0	12.0	9.0	7.6	4.3
30°	29.1	23.9	17.5	12.6	9.0	7.6	4.3
27.5°	29.8	24.5	18.6	13.2	9.1	7.7	4.3
25°	30.6	25.0	19.8	13.7	9.1	7.7	4.3
22.5°	31.4	26.0	20.9	14.3	9.1	7.7	4.3
20°	32.1	28.1	22.1	14.9	9.2	7.7	4.3
17.5°	34.9	30.2	23.3	15.4	9.3	7.7	4.3
15°	39.1	32.4	24.4	15.9	9.3	7.8	4.3
12.5°	43.5	34.6	25.5	16.4	9.4	7.7	4.3
10°	48.0	36.9	26.6	16.9	9.5	7.7	4.3
7.5°	52.6	39.1	27.6	17.3	9.5	7.7	4.3
5°	57.1	41.3	28.6	17.7	9.6	7.7	4.3
2.5°	61.6	43.4	29.5	18.1	9.6	7.6	4.3
0°	65.9	45.4	30.3	18.4	9.7	7.6	4.3
-2.5°	83.1	55.2	35.4	20.6	10.5	7.8	4.3
-5°	99.9	64.8	40.3	22.8	11.2	7.9	4.3
-7.5°	115.9	74.0	45.0	24.9	11.9	8.1	4.3
-10°	131.1	82.7	49.5	26.8	12.6	8.2	4.3
-12.5°	145.2	90.8	53.6	28.6	13.3	8.3	4.3
-15°	157.9	98.1	57.4	30.3	13.9	8.4	4.3
-17.5°	169.1	104.6	60.8	31.7	14.4	8.5	4.3
-20°	179.7	110.2	63.6	33.0	15.0	8.6	4.3



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	190.3	114.8	66.0	34.0	15.4	8.7	4.3
-25°	199.4	120.7	67.8	34.8	15.9	8.7	4.3
-27.5°	206.8	126.3	69.0	35.4	16.2	8.8	4.3
-30°	212.4	130.8	69.9	35.6	16.5	8.8	4.3
-32.5°	216.3	133.9	72.2	35.6	16.7	8.8	4.3
-35°	219.3	135.6	73.6	35.4	16.8	8.8	4.3
-37.5°	220.7	136.5	74.2	34.8	16.9	8.8	4.3
-40°	220.2	136.7	73.9	33.9	16.9	8.8	4.3
-42.5°	217.6	135.6	73.3	33.1	16.8	8.7	4.3
-45°	213.0	133.1	72.7	32.5	16.6	8.6	4.3
-47.5°	206.3	129.1	71.2	31.6	16.4	8.5	4.3
-50°	199.0	123.8	69.0	31.2	16.1	8.4	4.3
-52.5°	190.0	117.2	66.0	30.9	15.7	8.3	4.3
-55°	179.1	111.2	62.4	30.3	15.2	8.1	4.3
-57.5°	166.3	104.6	58.0	29.3	14.7	8.0	4.3
-60°	152.2	96.8	53.0	28.1	14.1	7.8	4.3
-62.5°	139.7	88.0	49.8	26.5	13.6	7.6	4.3
-65°	125.9	78.3	46.0	24.7	13.0	7.4	4.3
-67.5°	110.8	69.5	41.8	22.6	12.4	7.2	4.3
-70°	94.5	61.7	37.2	20.3	11.7	7.0	4.3
-72.5°	81.3	53.3	32.1	18.6	11.0	6.7	4.3
-75°	67.9	44.4	26.7	16.9	10.3	6.5	4.3
-77.5°	53.8	34.9	23.2	15.2	9.5	6.2	4.3
-80°	39.1	28.2	19.9	13.4	8.7	6.0	4.3
-82.5°	30.5	22.8	16.5	11.5	7.9	5.7	4.3
-85°	22.6	17.4	13.0	9.6	7.1	5.4	4.3
-87.5°	14.6	11.8	9.5	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

