

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: P701454 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-80-5S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701454 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-57-80-5S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

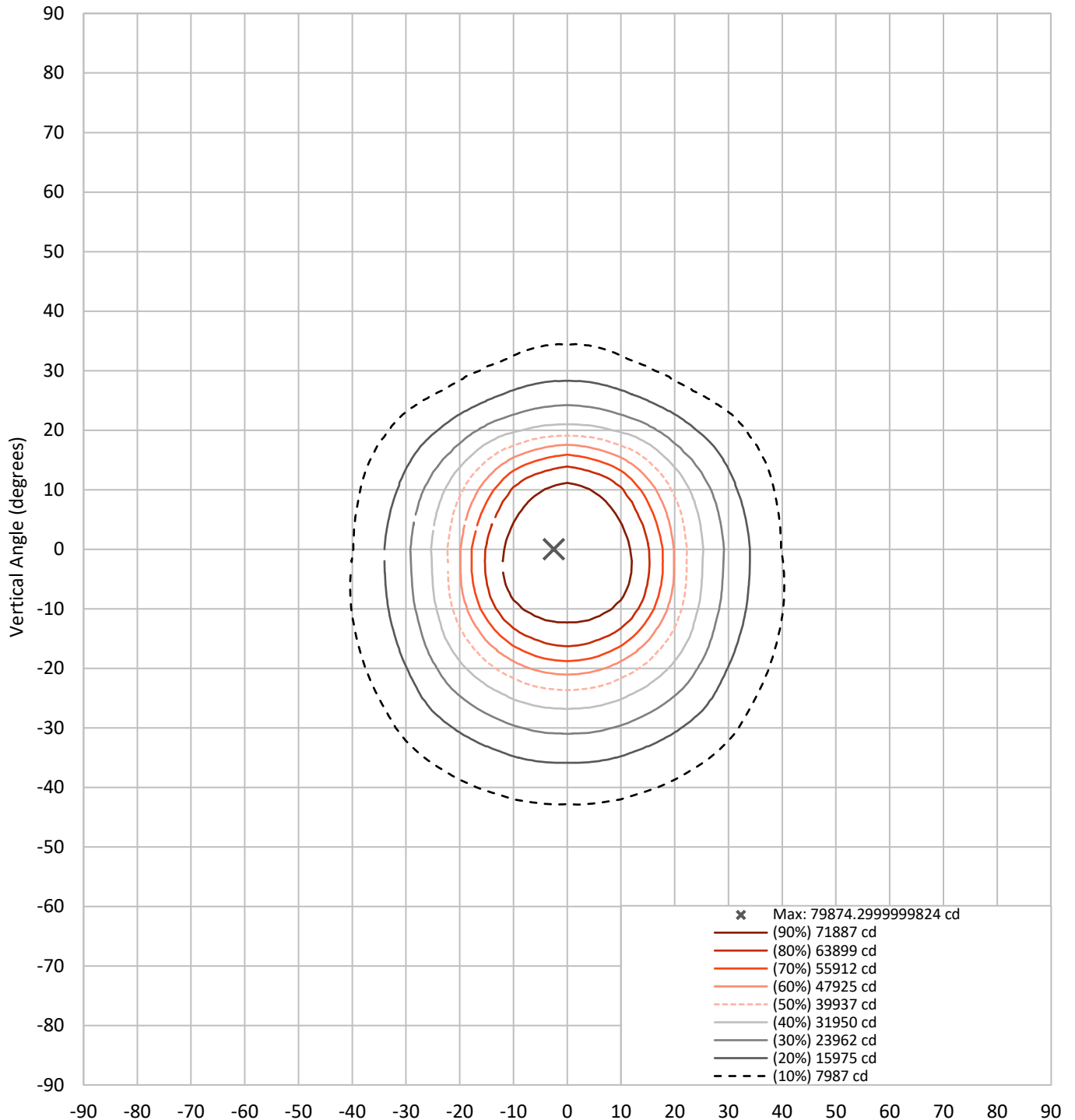
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	52009 lumens	Max Intensity:	79874.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	151.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	28557.8 lumens	Field Lumens:	47789.9 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 344.2
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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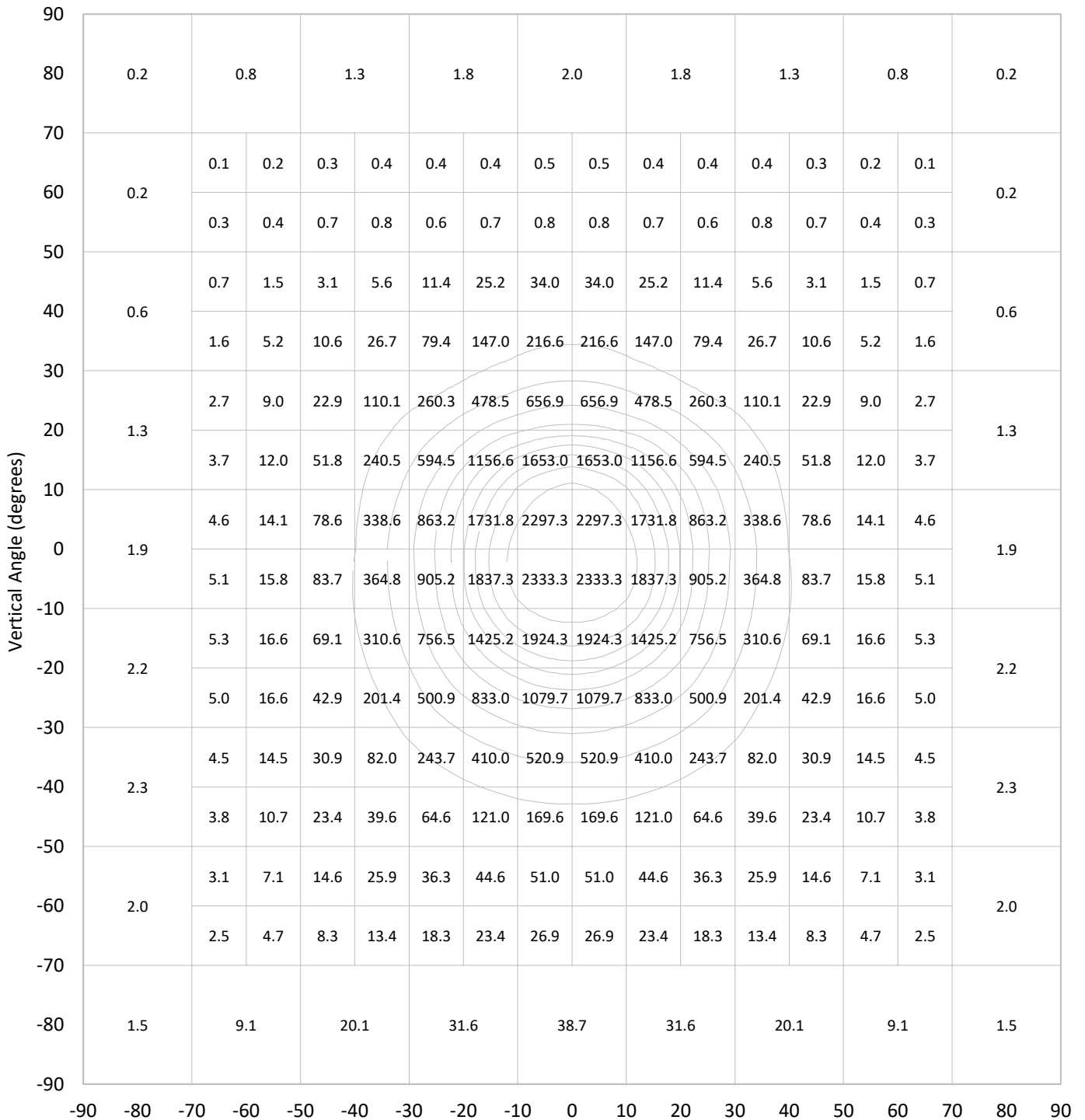
Iso-Candela Plot





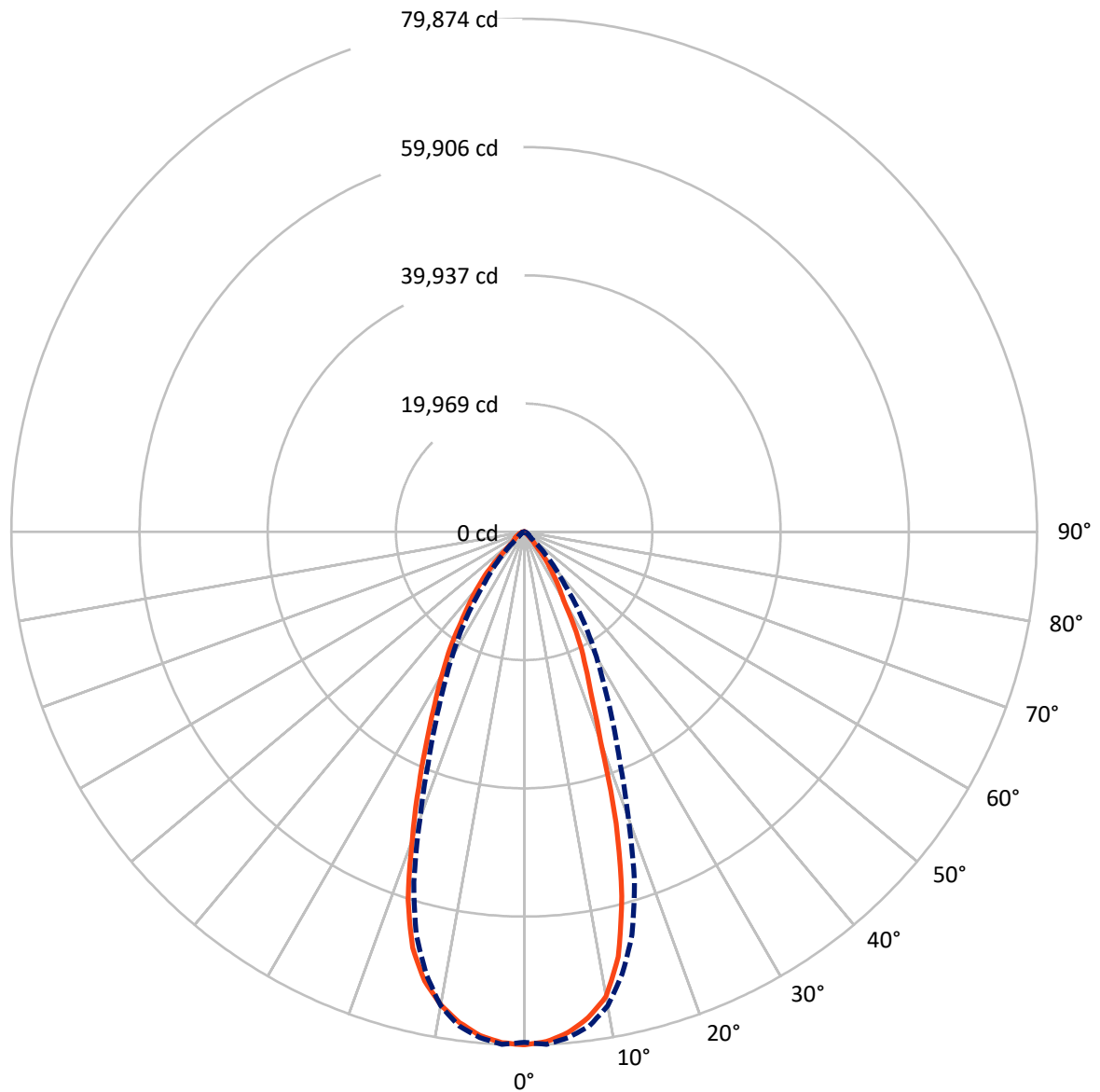
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Lumen Table



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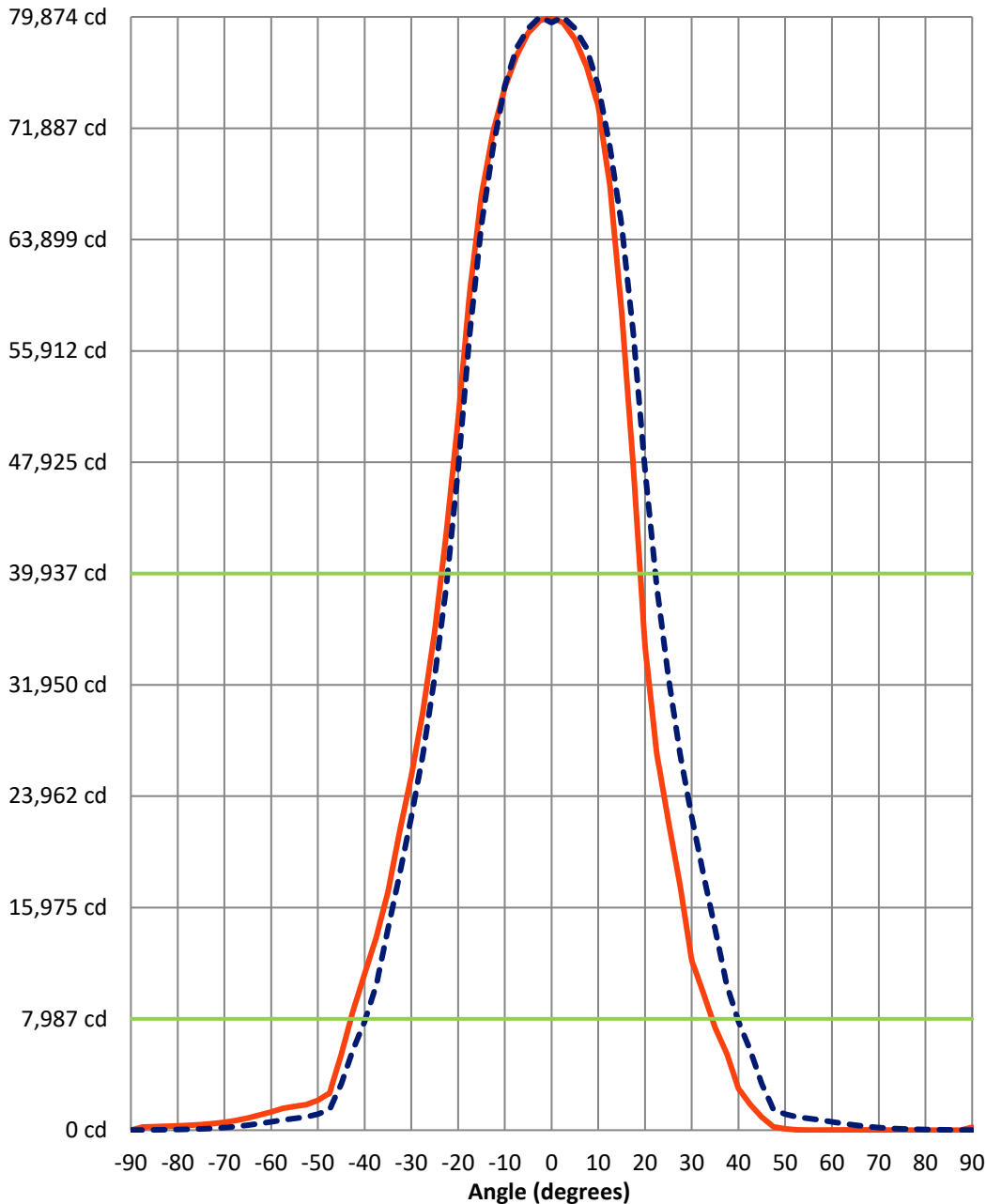
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 28557.8
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 47789.9
 Efficiency: 91.9%

Spill:
 Lumens: 4219.1
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	6.9	13.5	20.1	33.2	46.4	58.6	70.9	81.0	91.0	98.3	105.5
87.5°	6.9	6.4	5.8	5.8	5.8	5.9	5.9	5.7	5.4	5.4	5.3
85°	6.9	6.5	5.9	6.0	6.1	6.2	6.3	6.1	5.9	5.7	5.5
82.5°	6.9	6.7	6.1	6.2	6.3	6.4	6.6	6.5	6.3	6.1	5.8
80°	6.9	6.8	6.3	6.4	6.5	6.7	6.9	6.9	6.8	6.5	6.1
77.5°	6.9	7.0	6.5	6.6	6.7	7.0	7.3	7.3	7.2	6.9	6.5
75°	6.9	7.1	6.7	6.9	7.0	7.5	7.7	7.7	7.6	7.2	6.8
72.5°	6.9	7.2	6.9	7.1	7.5	7.9	8.0	8.1	7.9	7.6	7.1
70°	6.9	7.4	7.1	7.3	7.9	8.3	8.5	8.5	8.3	7.9	7.7
67.5°	6.9	7.5	7.3	7.7	8.4	8.8	9.0	9.0	8.7	8.6	8.4
65°	6.9	7.7	7.5	8.1	8.8	9.3	9.5	9.5	9.6	9.3	9.3
62.5°	6.9	7.8	7.8	8.4	9.3	9.8	10.1	10.4	10.5	10.3	10.8
60°	6.9	8.0	8.0	8.8	9.7	10.3	10.7	11.3	11.4	12.4	12.6
57.5°	6.9	8.1	8.4	9.2	10.3	10.9	11.9	12.4	14.1	15.1	16.1
55°	6.9	8.3	8.8	9.5	11.0	11.4	13.3	13.8	17.5	18.7	20.7
52.5°	6.9	8.5	9.3	9.9	11.8	12.1	14.8	17.3	21.3	24.4	25.9
50°	6.9	8.6	9.8	10.3	12.6	13.9	16.4	21.1	25.8	30.4	33.4
47.5°	6.9	8.8	10.3	10.7	13.4	15.7	18.4	25.1	31.7	36.7	41.8
45°	6.9	8.9	10.8	11.4	14.3	17.7	21.9	29.1	37.7	44.9	50.8
42.5°	6.9	9.1	11.4	12.1	15.2	19.7	25.4	33.9	43.9	53.4	64.3
40°	6.9	9.2	12.0	13.2	16.6	21.8	29.1	39.5	50.7	62.2	79.3
37.5°	6.9	9.4	12.6	14.4	18.2	24.0	33.1	45.1	58.7	72.7	95.1
35°	6.9	9.5	13.2	15.7	19.9	26.8	37.1	50.9	66.9	87.0	113.4
32.5°	6.9	9.7	13.8	17.0	21.6	30.1	41.5	56.9	75.3	101.6	134.2
30°	6.9	9.8	14.5	18.3	23.3	33.2	46.5	63.2	83.9	116.5	154.7
27.5°	6.9	10.0	15.1	19.7	25.6	36.4	51.4	70.1	93.5	131.5	174.7
25°	6.9	10.1	15.8	21.1	27.9	39.4	56.3	76.8	104.6	147.6	194.4
22.5°	6.9	10.3	16.5	22.4	30.2	42.6	60.9	83.2	115.1	161.4	215.1
20°	6.9	10.4	17.1	23.8	32.4	46.0	65.5	89.2	124.9	174.5	232.5
17.5°	6.9	10.5	17.8	25.2	34.6	49.3	70.0	95.0	134.1	186.9	248.9
15°	6.9	10.7	18.5	26.5	36.7	52.4	74.3	100.5	142.6	198.3	264.4
12.5°	6.9	10.8	19.1	27.8	38.7	55.4	78.5	106.0	151.1	208.9	279.0
10°	6.9	10.9	19.7	29.1	40.7	58.2	82.3	111.2	159.6	221.4	294.4
7.5°	6.9	11.0	20.4	30.4	42.6	60.9	85.9	116.0	167.5	233.5	312.8
5°	6.9	11.1	20.9	31.6	44.4	63.4	89.1	120.4	174.6	244.7	330.1
2.5°	6.9	11.2	21.5	32.8	46.1	65.7	92.1	124.4	180.9	254.7	346.1
0°	6.9	11.3	22.0	33.9	47.7	67.8	94.8	128.0	186.4	263.6	360.3
-2.5°	6.9	11.7	22.9	35.4	49.9	70.9	98.8	133.2	192.8	271.1	367.7
-5°	6.9	12.2	23.8	36.8	52.0	73.8	102.6	138.0	198.2	277.2	373.1
-7.5°	6.9	12.6	24.7	38.2	54.0	76.5	105.9	142.2	202.6	281.7	376.6
-10°	6.9	13.0	25.5	39.4	55.8	78.9	108.9	145.8	206.0	284.8	378.3
-12.5°	6.9	13.4	26.2	40.6	57.5	81.0	111.5	148.9	208.3	286.5	381.0
-15°	6.9	13.7	26.9	41.7	59.1	82.9	113.7	151.4	209.6	286.9	382.4
-17.5°	6.9	14.1	27.6	42.7	60.4	84.5	115.4	153.5	209.8	285.7	380.8
-20°	6.9	14.4	28.1	43.6	61.7	85.9	117.0	155.3	209.1	282.8	376.1



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 CATALOG NUMBER: EPH-LS-08-0320L-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.9	14.7	28.7	44.4	62.7	86.9	118.6	156.6	207.2	278.1	368.5
-25°	6.9	15.0	29.1	45.1	63.6	88.1	119.8	157.2	204.2	271.7	362.0
-27.5°	6.9	15.3	29.5	45.7	64.3	89.2	120.5	157.3	200.2	267.3	357.1
-30°	6.9	15.5	29.9	46.2	64.9	90.1	120.7	156.9	198.5	263.8	349.6
-32.5°	6.9	15.7	30.1	46.6	66.0	90.7	120.4	156.5	198.4	258.5	339.2
-35°	6.9	15.9	30.3	46.8	66.9	90.9	120.5	155.9	197.2	251.4	325.8
-37.5°	6.9	16.1	30.5	47.0	67.6	91.3	120.5	155.0	195.1	242.5	313.7
-40°	6.9	16.2	30.5	47.1	68.2	91.9	120.1	153.4	192.0	237.1	302.0
-42.5°	6.9	16.3	30.5	47.2	68.6	92.4	119.4	151.1	189.0	232.6	288.3
-45°	6.9	16.4	30.5	47.5	69.0	92.6	118.4	148.9	185.6	226.9	274.0
-47.5°	6.9	16.5	30.3	47.6	69.1	92.6	116.9	147.2	181.5	219.9	265.9
-50°	6.9	16.5	30.2	47.6	69.0	92.4	116.4	144.9	176.3	213.7	256.4
-52.5°	6.9	16.5	29.9	47.5	68.7	91.9	115.7	142.1	171.8	206.3	245.0
-55°	6.9	16.5	29.6	47.3	68.2	91.1	114.8	139.0	167.4	197.7	233.5
-57.5°	6.9	16.4	29.2	47.0	67.4	90.0	113.5	137.4	162.3	191.0	220.9
-60°	6.9	16.3	28.7	46.5	66.5	88.6	111.9	135.2	157.3	184.4	208.9
-62.5°	6.9	16.2	28.3	45.9	65.5	87.0	109.8	132.5	154.1	176.7	199.4
-65°	6.9	16.1	27.9	45.1	64.4	85.1	107.4	129.4	150.4	170.7	189.2
-67.5°	6.9	15.9	27.3	44.3	63.1	83.1	104.7	125.7	146.4	165.1	181.3
-70°	6.9	15.7	26.7	43.3	61.6	80.9	101.7	121.7	141.4	159.0	174.2
-72.5°	6.9	15.5	26.1	42.3	60.0	78.3	98.2	117.3	136.1	152.2	166.7
-75°	6.9	15.3	25.4	41.3	58.2	75.6	94.2	112.2	130.4	145.1	158.7
-77.5°	6.9	15.0	24.6	40.2	56.5	72.6	90.0	106.7	123.7	137.5	150.4
-80°	6.9	14.8	23.8	39.0	54.7	69.9	85.5	100.8	116.5	128.8	140.8
-82.5°	6.9	14.5	22.9	37.7	52.8	67.3	82.0	95.3	109.0	119.8	130.5
-85°	6.9	14.2	22.0	36.3	50.8	64.5	78.4	90.7	103.1	112.2	121.1
-87.5°	6.9	13.8	21.1	34.8	48.6	61.7	74.7	85.9	97.1	105.3	113.4
-90°	6.9	6.3	5.6	5.6	5.6	5.6	5.6	5.3	5.0	5.0	5.0



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	109.9	114.2	118.3	122.4	127.4	132.4	137.8	143.1	148.8	154.4	159.8
87.5°	5.0	4.7	4.7	4.7	4.5	4.2	4.0	3.8	3.5	3.1	3.0
85°	5.3	5.0	5.0	5.0	4.8	4.6	4.3	4.1	3.8	3.5	3.5
82.5°	5.7	5.7	5.4	5.0	5.0	5.0	4.7	4.4	4.2	4.0	3.9
80°	6.1	6.3	5.8	5.3	5.1	5.0	4.8	4.5	4.4	4.4	4.2
77.5°	6.4	6.3	6.0	5.6	5.4	5.2	5.0	4.8	4.7	4.5	4.4
75°	6.6	6.4	6.2	5.8	5.5	5.5	5.4	5.3	5.1	5.1	5.2
72.5°	6.9	6.8	6.4	5.9	5.8	5.9	5.9	5.7	5.9	6.1	6.1
70°	7.5	7.2	6.8	6.4	6.2	6.4	6.7	7.1	7.6	7.7	8.3
67.5°	8.1	7.8	7.2	6.9	6.8	7.1	7.5	9.1	10.6	11.4	12.2
65°	9.0	8.5	8.0	7.9	7.5	9.1	10.3	12.0	15.0	16.4	16.3
62.5°	10.1	10.2	9.4	9.6	10.9	12.3	14.5	18.0	21.5	22.8	21.6
60°	12.8	12.5	12.5	13.3	14.7	16.4	19.9	24.1	28.2	30.3	27.1
57.5°	16.4	16.3	17.2	17.8	19.7	20.2	24.9	30.2	33.6	36.2	31.9
55°	21.5	21.7	23.5	24.1	25.5	25.4	29.4	34.4	38.0	39.1	34.7
52.5°	28.5	28.8	32.1	32.6	32.2	32.6	34.1	39.5	42.4	42.5	38.5
50°	36.2	40.2	42.3	43.7	41.3	42.7	41.4	47.3	51.7	51.3	52.8
47.5°	47.6	53.0	56.0	58.2	56.4	61.1	60.1	69.2	72.3	89.6	92.3
45°	61.2	69.8	73.8	78.7	84.1	89.8	104.4	104.4	145.2	161.3	203.6
42.5°	76.4	89.3	100.4	102.4	129.5	145.3	165.2	206.0	245.9	295.9	315.0
40°	96.6	111.0	133.6	159.1	189.1	223.5	260.5	310.1	362.4	388.3	391.5
37.5°	119.0	145.9	177.5	223.8	269.9	314.9	361.9	410.4	448.1	457.7	492.8
35°	143.0	182.5	241.3	294.5	348.3	410.4	452.2	496.9	519.5	559.1	626.7
32.5°	173.2	220.1	293.2	362.4	422.1	489.7	529.7	563.9	617.1	685.7	835.1
30°	204.8	262.4	336.4	416.3	489.8	546.5	592.0	635.0	718.2	884.2	1396.2
27.5°	231.1	298.8	376.6	465.6	549.5	601.2	652.8	727.8	876.5	1218.6	2189.7
25°	254.7	328.2	416.0	519.3	601.4	658.4	725.6	831.5	1064.8	1993.2	3237.7
22.5°	277.7	357.1	460.9	575.8	654.1	714.6	816.4	1007.6	1496.5	2801.8	4297.5
20°	301.4	394.1	509.8	628.3	704.6	764.5	895.8	1178.7	2179.3	3672.2	5232.6
17.5°	326.3	431.4	557.3	665.6	737.0	816.7	979.5	1319.0	2749.4	4485.0	6231.7
15°	350.6	467.2	598.0	697.8	766.6	873.1	1091.8	1732.9	3352.2	5392.7	7300.1
12.5°	373.9	499.7	629.5	723.0	795.9	925.6	1184.1	2188.9	4077.0	6235.5	8228.9
10°	395.8	528.9	656.0	746.9	827.7	981.6	1273.0	2635.3	4711.5	6783.2	8802.1
7.5°	418.4	553.1	678.4	769.7	858.4	1034.5	1370.9	2982.1	5185.3	7204.5	9245.0
5°	438.8	571.8	699.9	795.2	890.0	1081.3	1450.1	3247.1	5540.7	7552.6	9639.5
2.5°	456.7	586.5	718.3	819.2	920.7	1120.5	1472.9	3320.9	5707.7	7739.9	10027.5
0°	472.0	597.6	733.1	840.5	948.4	1152.4	1478.9	3308.0	5749.1	7796.6	10405.3
-2.5°	480.7	611.9	759.7	871.1	973.2	1178.2	1510.2	3312.9	5784.0	8194.0	10891.2
-5°	486.8	622.6	781.4	898.3	995.3	1196.3	1527.6	3237.5	5736.8	8403.2	11033.2
-7.5°	490.2	629.3	797.5	920.9	1015.2	1209.4	1537.4	3115.1	5739.4	8412.7	10854.5
-10°	492.0	635.8	805.0	933.6	1032.3	1215.7	1532.7	2904.7	5511.5	8185.0	10560.3
-12.5°	497.9	641.7	807.7	942.9	1046.0	1217.2	1539.7	2698.9	5084.1	7770.4	10139.7
-15°	500.2	643.2	806.2	950.7	1068.1	1232.0	1539.9	2379.2	4529.3	7244.4	9610.7
-17.5°	498.7	640.3	801.6	961.9	1088.5	1233.2	1505.0	1959.9	3895.6	6496.1	8914.2
-20°	493.3	633.7	791.6	967.4	1100.1	1243.4	1494.7	1891.8	3274.5	5560.4	8068.6



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 CATALOG NUMBER: EPH-LS-08-0320L-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	485.4	623.4	777.2	955.2	1113.4	1265.8	1480.7	1801.2	2544.2	4491.6	7021.7
-25°	476.0	612.0	761.8	941.1	1119.6	1280.1	1437.3	1680.3	2115.4	3577.1	5725.9
-27.5°	466.1	595.8	745.4	917.8	1115.9	1273.3	1411.7	1613.3	1920.7	2561.0	4375.9
-30°	453.6	576.4	721.3	887.6	1082.8	1252.3	1396.1	1526.5	1736.5	2121.3	3210.7
-32.5°	438.4	553.7	694.4	853.1	1033.0	1227.1	1360.1	1473.4	1633.4	1869.1	2316.1
-35°	421.2	533.6	664.5	809.7	973.9	1163.9	1305.9	1425.9	1533.9	1715.4	2001.2
-37.5°	403.6	508.9	626.1	763.7	920.1	1075.2	1242.8	1362.3	1471.2	1585.1	1788.7
-40°	383.1	478.1	587.9	715.1	847.7	988.5	1144.0	1293.7	1401.2	1519.9	1642.0
-42.5°	360.6	448.9	547.0	657.3	776.3	902.8	1040.9	1190.8	1335.0	1448.5	1560.7
-45°	342.5	417.3	503.4	601.7	704.1	816.7	942.6	1073.9	1227.0	1373.9	1477.7
-47.5°	320.6	385.8	465.2	543.1	635.8	736.2	843.8	968.2	1096.6	1241.3	1383.2
-50°	299.7	359.4	420.6	490.8	569.4	657.7	753.5	863.1	981.8	1100.4	1229.1
-52.5°	285.3	331.0	383.1	438.5	507.3	582.9	667.9	760.8	864.9	968.5	1080.1
-55°	269.6	309.2	346.5	393.6	447.6	513.2	586.9	668.2	747.5	842.1	936.9
-57.5°	254.2	287.0	317.1	353.1	398.3	446.5	513.5	581.1	650.0	723.3	803.4
-60°	238.7	265.6	291.8	320.9	353.9	396.6	443.1	499.7	556.0	614.5	685.4
-62.5°	223.1	245.0	267.6	292.7	320.7	349.5	387.6	428.8	468.2	521.5	578.0
-65°	210.7	225.7	244.3	266.5	289.0	315.4	341.9	367.7	402.4	442.8	483.7
-67.5°	197.3	211.4	225.0	240.5	261.0	282.7	304.6	327.8	351.3	379.0	408.9
-70°	187.4	197.5	209.6	222.4	235.8	251.6	271.1	290.3	310.0	333.2	357.0
-72.5°	178.2	187.4	196.5	205.5	217.5	230.5	243.5	256.4	272.8	292.5	311.5
-75°	168.7	177.1	185.5	193.6	202.7	212.4	222.6	234.2	247.0	260.7	273.9
-77.5°	159.0	166.5	174.1	181.6	189.9	198.5	207.4	216.3	226.3	236.9	247.1
-80°	148.6	155.6	162.4	169.1	176.6	184.3	192.2	200.2	209.0	218.2	226.7
-82.5°	137.2	143.4	149.7	156.0	162.9	169.8	176.8	183.8	191.6	199.5	206.8
-85°	126.2	131.1	136.6	142.1	148.4	154.7	161.0	167.2	174.4	181.6	187.9
-87.5°	118.1	122.7	127.2	131.7	137.1	142.4	147.9	153.3	159.6	165.9	171.4
-90°	4.7	4.4	4.4	4.4	4.1	3.8	3.8	3.8	3.5	3.1	2.8



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	165.1	168.6	172.0	174.8	177.6	181.4	185.2	190.2	195.2	200.3	205.3
87.5°	3.0	2.8	2.5	2.5	2.4	2.5	2.5	2.2	1.9	1.9	1.9
85°	3.5	3.5	3.5	3.2	3.0	3.0	3.0	3.0	3.0	2.8	2.5
82.5°	3.8	3.8	3.8	3.5	3.1	3.1	3.1	3.1	3.1	2.8	2.5
80°	4.0	3.9	3.8	3.7	3.6	3.4	3.1	2.9	2.6	2.5	2.5
77.5°	4.5	4.3	4.1	4.0	3.8	3.5	3.2	2.8	2.5	2.5	2.5
75°	5.0	4.9	4.7	4.5	4.2	4.0	4.0	3.8	3.6	3.6	3.7
72.5°	6.1	6.0	5.9	6.1	6.1	6.3	6.6	6.9	7.1	7.6	8.2
70°	9.0	9.6	9.9	10.1	10.1	10.0	10.0	10.1	10.4	10.7	11.0
67.5°	13.2	14.2	14.7	15.0	14.0	13.5	13.5	13.8	14.3	15.2	16.4
65°	17.2	16.9	16.5	16.2	16.3	16.4	16.3	16.5	17.3	18.6	20.2
62.5°	20.2	17.5	15.9	15.1	15.6	16.6	15.9	15.4	16.1	17.0	17.8
60°	23.2	18.1	14.5	13.3	13.1	13.6	12.5	11.5	11.8	12.0	12.5
57.5°	25.9	19.4	13.4	11.4	9.6	8.7	8.4	8.0	7.8	7.6	7.7
55°	28.4	21.1	13.2	11.7	10.4	10.1	9.2	8.8	8.4	8.3	8.5
52.5°	31.5	27.1	21.6	20.1	22.6	22.8	20.1	24.0	26.9	28.2	28.7
50°	51.5	46.1	55.4	54.5	65.3	73.0	70.3	78.8	91.5	99.4	102.7
47.5°	113.1	113.3	131.6	147.8	161.2	178.7	192.1	205.1	223.2	234.4	239.5
45°	214.7	232.9	251.9	279.7	306.4	338.8	377.8	408.6	531.6	654.3	765.8
42.5°	328.5	348.5	376.5	437.0	508.9	675.3	972.8	1139.0	1346.2	1571.9	1658.6
40°	423.3	452.3	529.1	699.4	1114.3	1509.3	1943.2	2310.1	2634.9	2821.7	2977.9
37.5°	540.4	609.8	959.1	1441.2	1957.0	2452.1	2899.0	3286.7	3623.2	3896.2	4166.4
35°	711.1	1172.3	1688.2	2315.1	2863.3	3322.0	3784.9	4229.3	4611.0	5018.7	5624.5
32.5°	1348.0	1950.8	2614.3	3176.3	3712.1	4290.8	4777.3	5488.3	6045.0	6788.4	7924.4
30°	2163.6	2920.1	3521.8	4083.9	4771.0	5549.7	6362.1	7449.4	8585.7	9771.0	10990.8
27.5°	3210.8	3974.9	4609.3	5359.0	6266.3	7302.5	8855.6	10388.3	12017.9	13500.1	14626.6
25°	4473.0	5282.3	6366.6	7454.4	8752.8	10523.6	12268.5	14146.5	15780.2	17234.8	18863.1
22.5°	5656.0	6982.6	8414.4	10056.7	12171.0	14168.3	16325.6	18226.1	20276.4	22349.6	23953.0
20°	6654.7	8382.9	10437.0	12804.4	15148.0	17410.4	19921.0	22950.3	26002.7	28729.6	30708.5
17.5°	8001.9	10190.6	12747.4	15561.4	18084.5	20888.3	24382.4	28318.3	32595.5	36379.8	39380.5
15°	9473.9	12029.6	14920.7	17869.2	21061.3	24818.2	29311.2	34337.8	39569.6	44876.1	49819.8
12.5°	10474.6	13468.9	16625.9	20131.8	24113.2	29150.4	34606.1	40178.4	46157.2	52759.8	58494.5
10°	11330.1	14651.9	18460.7	22538.7	27113.6	32528.5	38167.2	44935.5	52398.3	58900.3	65042.8
7.5°	12176.2	16079.6	20058.2	24304.3	29330.7	35211.9	41885.4	49164.5	56759.3	63826.5	68849.6
5°	13177.5	17227.1	21205.5	25690.7	30954.4	37072.1	44111.0	52469.8	60471.8	66967.9	71498.6
2.5°	14005.4	17915.5	21989.2	26428.4	31838.2	38225.5	45865.1	55154.2	63365.0	69439.2	73538.7
0°	14427.0	18356.3	22482.2	26993.4	32539.1	39056.5	47391.7	57149.8	64910.0	70521.3	74911.7
-2.5°	14478.3	18216.1	22266.0	26715.4	32135.5	38782.1	47327.0	57200.5	65312.2	71144.2	75476.0
-5°	14328.7	18031.5	22073.6	26525.7	31872.5	38795.8	47375.5	56869.5	64707.7	70748.8	74828.2
-7.5°	13967.8	17692.5	21742.0	26128.6	31391.3	38105.9	46107.9	54713.7	62776.0	69303.3	73066.5
-10°	13439.2	17098.9	21086.0	25285.1	30248.2	36456.2	43612.6	51491.2	59638.3	65879.3	70219.1
-12.5°	12770.5	16234.2	20045.6	24015.5	28701.3	34485.2	40864.3	47461.5	54290.9	61406.0	65926.3
-15°	12002.9	15167.9	18735.5	22726.8	27359.5	32179.7	37246.8	42621.6	48864.9	54684.8	59946.5
-17.5°	11274.6	14000.4	17329.2	21217.9	25162.8	29351.1	33693.8	38082.0	43088.5	47657.0	51743.8
-20°	10359.2	12680.1	15747.3	19202.6	22868.3	26497.3	30227.4	33782.7	37417.2	41135.7	44381.6



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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°	9280.3	11537.5	14096.4	17105.0	20624.2	23854.1	26841.6	29620.0	32533.2	35106.2	37777.4
-25°	8105.0	10275.2	12626.8	15369.4	18071.5	20999.6	23479.1	25841.9	28101.6	30122.0	32199.1
-27.5°	6661.7	8952.8	11270.8	13465.9	15695.6	17798.0	20109.9	22289.8	24174.3	25841.1	27487.3
-30°	5035.8	7467.5	9660.2	11543.2	13310.9	15064.4	16834.3	18663.5	20447.5	21965.3	23313.7
-32.5°	3715.5	5744.1	7770.9	9616.1	11163.2	12612.4	13988.8	15424.0	16671.8	17953.0	19199.9
-35°	2458.2	3892.0	5574.6	7450.5	9061.8	10281.0	11529.0	12673.2	13613.8	14607.1	15548.5
-37.5°	2068.8	2450.4	3576.0	5098.9	6591.3	7993.3	9237.9	10232.6	11098.3	11891.7	12704.8
-40°	1824.9	2042.6	2362.8	2916.1	4171.2	5404.5	6686.8	7744.1	8666.4	9427.0	10175.5
-42.5°	1664.8	1814.2	1973.7	2191.6	2406.5	3010.5	4063.0	4975.7	5840.8	6697.6	7468.8
-45°	1581.9	1665.7	1757.0	1875.5	1967.4	2131.1	2313.9	2485.7	3174.1	3918.1	4540.8
-47.5°	1482.5	1571.8	1640.0	1695.8	1740.5	1812.4	1888.4	1987.7	2147.1	2335.0	2478.5
-50°	1355.3	1463.8	1531.8	1587.8	1619.8	1647.6	1675.1	1737.3	1823.7	1926.1	2007.4
-52.5°	1190.8	1298.2	1394.6	1467.3	1502.8	1537.3	1571.8	1614.6	1663.7	1722.9	1765.3
-55°	1035.9	1125.6	1209.0	1276.8	1338.0	1393.7	1447.3	1492.7	1545.7	1601.9	1641.5
-57.5°	888.8	961.3	1029.7	1088.4	1141.4	1188.3	1243.1	1302.6	1370.4	1434.9	1480.3
-60°	751.4	808.9	865.8	913.6	956.7	995.1	1045.8	1095.8	1155.1	1208.0	1246.5
-62.5°	628.5	678.7	720.8	756.8	789.3	821.5	864.1	905.9	954.7	996.9	1028.9
-65°	522.2	564.1	593.7	620.5	644.0	671.4	704.4	737.8	776.3	809.1	835.4
-67.5°	440.2	468.6	487.2	503.7	523.3	545.1	569.9	596.7	626.6	651.4	671.5
-70°	378.2	395.9	407.3	419.6	433.8	448.9	465.8	485.9	508.6	528.0	544.7
-72.5°	329.2	342.7	352.0	361.6	370.2	380.5	391.9	406.9	423.6	438.8	452.9
-75°	286.6	296.3	305.0	313.3	320.8	329.5	338.6	351.3	365.1	377.5	389.2
-77.5°	258.1	265.6	271.4	276.9	282.3	289.6	297.0	307.3	318.0	328.4	338.3
-80°	235.2	241.0	245.9	249.9	253.7	259.8	266.2	274.6	283.2	292.1	300.9
-82.5°	214.0	219.0	223.7	227.6	231.2	236.7	242.4	249.9	257.5	264.9	272.2
-85°	194.1	198.7	203.2	206.8	210.5	215.0	219.4	225.9	232.4	239.2	245.9
-87.5°	176.8	181.2	185.6	188.4	191.3	195.3	199.3	204.8	210.3	216.1	221.9
-90°	2.5	2.5	2.5	2.2	1.9	1.9	1.9	1.6	1.3	1.3	1.3



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 CATALOG NUMBER: EPH-LS-08-0320L-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	207.8	210.3	211.6	212.8	211.6	210.3	207.8	205.3	200.3	195.2	190.2
87.5°	1.6	1.3	1.3	1.3	1.3	1.3	1.6	1.9	1.9	1.9	2.2
85°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.8	3.0	3.0
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	3.1	3.1
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.9
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8
75°	3.4	3.1	3.1	3.1	3.1	3.1	3.4	3.7	3.6	3.6	3.8
72.5°	8.5	8.6	9.0	9.4	9.0	8.6	8.5	8.2	7.6	7.1	6.9
70°	11.1	11.2	11.3	11.3	11.3	11.2	11.1	11.0	10.7	10.4	10.1
67.5°	17.1	17.4	18.1	18.8	18.1	17.4	17.1	16.4	15.2	14.3	13.8
65°	21.4	22.3	22.6	22.6	22.6	22.3	21.4	20.2	18.6	17.3	16.5
62.5°	18.6	19.4	19.5	19.5	19.5	19.4	18.6	17.8	17.0	16.1	15.4
60°	12.9	13.3	13.5	13.8	13.5	13.3	12.9	12.5	12.0	11.8	11.5
57.5°	7.8	8.2	8.3	8.2	8.3	8.2	7.8	7.7	7.6	7.8	8.0
55°	8.6	8.7	8.6	8.2	8.6	8.7	8.6	8.5	8.3	8.4	8.8
52.5°	28.0	26.6	25.2	23.9	25.2	26.6	28.0	28.7	28.2	26.9	24.0
50°	101.6	100.0	97.6	94.8	97.6	100.0	101.6	102.7	99.4	91.5	78.8
47.5°	244.1	244.6	242.2	237.9	242.2	244.6	244.1	239.5	234.4	223.2	205.1
45°	863.0	909.9	935.2	952.8	935.2	909.9	863.0	765.8	654.3	531.6	408.6
42.5°	1734.3	1800.2	1850.2	1860.5	1850.2	1800.2	1734.3	1658.6	1571.9	1346.2	1139.0
40°	3163.1	3174.1	2990.5	2713.5	2990.5	3174.1	3163.1	2977.9	2821.7	2634.9	2310.1
37.5°	4488.4	4951.5	5489.5	5764.1	5489.5	4951.5	4488.4	4166.4	3896.2	3623.2	3286.7
35°	6441.9	7138.6	7364.6	7370.4	7364.6	7138.6	6441.9	5624.5	5018.7	4611.0	4229.3
32.5°	8948.8	9515.2	9817.7	9735.6	9817.7	9515.2	8948.8	7924.4	6788.4	6045.0	5488.3
30°	11701.6	12194.5	12198.4	12033.6	12198.4	12194.5	11701.6	10990.8	9771.0	8585.7	7449.4
27.5°	15792.6	16834.0	17566.9	17764.4	17566.9	16834.0	15792.6	14626.6	13500.1	12017.9	10388.3
25°	20330.3	21474.6	22178.2	22434.5	22178.2	21474.6	20330.3	18863.1	17234.8	15780.2	14146.5
22.5°	25445.3	26557.8	27065.6	27331.1	27065.6	26557.8	25445.3	23953.0	22349.6	20276.4	18226.1
20°	32594.8	34176.8	34773.1	35027.9	34773.1	34176.8	32594.8	30708.5	28729.6	26002.7	22950.3
17.5°	42498.3	45622.5	47576.0	48579.3	47576.0	45622.5	42498.3	39380.5	36379.8	32595.5	28318.3
15°	53478.7	56650.4	58736.3	59987.0	58736.3	56650.4	53478.7	49819.8	44876.1	39569.6	34337.8
12.5°	62898.4	65725.9	67740.6	68938.3	67740.6	65725.9	62898.4	58494.5	52759.8	46157.2	40178.4
10°	68941.6	71366.4	73456.6	74477.4	73456.6	71366.4	68941.6	65042.8	58900.3	52398.3	44935.5
7.5°	72356.9	75176.4	76309.5	77007.6	76309.5	75176.4	72356.9	68849.6	63826.5	56759.3	49164.5
5°	75003.9	77232.1	78278.0	78788.4	78278.0	77232.1	75003.9	71498.6	66967.9	60471.8	52469.8
2.5°	76770.9	78705.2	79444.9	79856.7	79444.9	78705.2	76770.9	73538.7	69439.2	63365.0	55154.2
0°	77619.0	79045.1	79874.3	79470.1	79874.3	79045.1	77619.0	74911.7	70521.3	64910.0	57149.8
-2.5°	77624.8	78980.5	79596.9	79296.8	79596.9	78980.5	77624.8	75476.0	71144.2	65312.2	57200.5
-5°	76960.8	77972.5	78723.2	78482.7	78723.2	77972.5	76960.8	74828.2	70748.8	64707.7	56869.5
-7.5°	75169.8	76514.4	77064.3	77091.1	77064.3	76514.4	75169.8	73066.5	69303.3	62776.0	54713.7
-10°	72706.1	74196.8	74782.3	74842.1	74782.3	74196.8	72706.1	70219.1	65879.3	59638.3	51491.2
-12.5°	69044.3	70793.1	71635.6	71785.8	71635.6	70793.1	69044.3	65926.3	61406.0	54290.9	47461.5
-15°	63360.0	65717.0	67047.4	67514.3	67047.4	65717.0	63360.0	59946.5	54684.8	48864.9	42621.6
-17.5°	55632.3	58448.5	60107.5	60692.5	60107.5	58448.5	55632.3	51743.8	47657.0	43088.5	38082.0
-20°	47571.7	49659.5	50938.4	51465.4	50938.4	49659.5	47571.7	44381.6	41135.7	37417.2	33782.7



REPORT NUMBER: P701454 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	40239.7	41923.0	42873.3	43295.3	42873.3	41923.0	40239.7	37777.4	35106.2	32533.2	29620.0
-25°	33880.7	35298.4	35785.7	36060.5	35785.7	35298.4	33880.7	32199.1	30122.0	28101.6	25841.9
-27.5°	28684.9	29809.5	30072.0	30314.6	30072.0	29809.5	28684.9	27487.3	25841.1	24174.3	22289.8
-30°	24306.7	25285.5	25419.3	25687.8	25419.3	25285.5	24306.7	23313.7	21965.3	20447.5	18663.5
-32.5°	20212.4	21083.9	21417.7	21469.1	21417.7	21083.9	20212.4	19199.9	17953.0	16671.8	15424.0
-35°	16291.7	16866.1	17093.4	17107.2	17093.4	16866.1	16291.7	15548.5	14607.1	13613.8	12673.2
-37.5°	13209.1	13575.3	13838.5	13766.0	13838.5	13575.3	13209.1	12704.8	11891.7	11098.3	10232.6
-40°	10595.0	10963.3	11203.9	11145.4	11203.9	10963.3	10595.0	10175.5	9427.0	8666.4	7744.1
-42.5°	7894.2	8299.4	8526.7	8463.8	8526.7	8299.4	7894.2	7468.8	6697.6	5840.8	4975.7
-45°	4895.8	5253.0	5420.5	5318.5	5420.5	5253.0	4895.8	4540.8	3918.1	3174.1	2485.7
-47.5°	2554.2	2635.4	2661.4	2625.0	2661.4	2635.4	2554.2	2478.5	2335.0	2147.1	1987.7
-50°	2070.9	2121.8	2143.8	2137.3	2143.8	2121.8	2070.9	2007.4	1926.1	1823.7	1737.3
-52.5°	1798.7	1822.2	1830.0	1825.3	1830.0	1822.2	1798.7	1765.3	1722.9	1663.7	1614.6
-55°	1674.9	1698.3	1706.4	1703.6	1706.4	1698.3	1674.9	1641.5	1601.9	1545.7	1492.7
-57.5°	1518.0	1546.7	1564.4	1573.6	1564.4	1546.7	1518.0	1480.3	1434.9	1370.4	1302.6
-60°	1277.5	1300.5	1307.1	1303.7	1307.1	1300.5	1277.5	1246.5	1208.0	1155.1	1095.8
-62.5°	1054.0	1072.9	1087.0	1096.6	1087.0	1072.9	1054.0	1028.9	996.9	954.7	905.9
-65°	854.6	868.3	871.1	868.7	871.1	868.3	854.6	835.4	809.1	776.3	737.8
-67.5°	685.6	695.7	697.1	694.9	697.1	695.7	685.6	671.5	651.4	626.6	596.7
-70°	555.9	564.4	565.6	564.3	565.6	564.4	555.9	544.7	528.0	508.6	485.9
-72.5°	461.0	467.3	472.0	475.8	472.0	467.3	461.0	452.9	438.8	423.6	406.9
-75°	395.2	399.7	400.8	401.1	400.8	399.7	395.2	389.2	377.5	365.1	351.3
-77.5°	343.6	348.1	351.2	354.0	351.2	348.1	343.6	338.3	328.4	318.0	307.3
-80°	304.9	308.3	310.9	313.2	310.9	308.3	304.9	300.9	292.1	283.2	274.6
-82.5°	276.1	279.6	281.8	283.7	281.8	279.6	276.1	272.2	264.9	257.5	249.9
-85°	248.8	251.5	253.5	255.5	253.5	251.5	248.8	245.9	239.2	232.4	225.9
-87.5°	224.5	227.1	228.4	229.7	228.4	227.1	224.5	221.9	216.1	210.3	204.8
-90°	1.0	0.6	0.6	0.6	0.6	0.6	1.0	1.3	1.3	1.3	1.6



REPORT NUMBER: P701454 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	185.2	181.4	177.6	174.8	172.0	168.6	165.1	159.8	154.4	148.8	143.1
87.5°	2.5	2.5	2.4	2.5	2.5	2.8	3.0	3.0	3.1	3.5	3.8
85°	3.0	3.0	3.0	3.2	3.5	3.5	3.5	3.5	3.5	3.8	4.1
82.5°	3.1	3.1	3.1	3.5	3.8	3.8	3.8	3.9	4.0	4.2	4.4
80°	3.1	3.4	3.6	3.7	3.8	3.9	4.0	4.2	4.4	4.4	4.5
77.5°	3.2	3.5	3.8	4.0	4.1	4.3	4.5	4.4	4.5	4.7	4.8
75°	4.0	4.0	4.2	4.5	4.7	4.9	5.0	5.2	5.1	5.1	5.3
72.5°	6.6	6.3	6.1	6.1	5.9	6.0	6.1	6.1	6.1	5.9	5.7
70°	10.0	10.0	10.1	10.1	9.9	9.6	9.0	8.3	7.7	7.6	7.1
67.5°	13.5	13.5	14.0	15.0	14.7	14.2	13.2	12.2	11.4	10.6	9.1
65°	16.3	16.4	16.3	16.2	16.5	16.9	17.2	16.3	16.4	15.0	12.0
62.5°	15.9	16.6	15.6	15.1	15.9	17.5	20.2	21.6	22.8	21.5	18.0
60°	12.5	13.6	13.1	13.3	14.5	18.1	23.2	27.1	30.3	28.2	24.1
57.5°	8.4	8.7	9.6	11.4	13.4	19.4	25.9	31.9	36.2	33.6	30.2
55°	9.2	10.1	10.4	11.7	13.2	21.1	28.4	34.7	39.1	38.0	34.4
52.5°	20.1	22.8	22.6	20.1	21.6	27.1	31.5	38.5	42.5	42.4	39.5
50°	70.3	73.0	65.3	54.5	55.4	46.1	51.5	52.8	51.3	51.7	47.3
47.5°	192.1	178.7	161.2	147.8	131.6	113.3	113.1	92.3	89.6	72.3	69.2
45°	377.8	338.8	306.4	279.7	251.9	232.9	214.7	203.6	161.3	145.2	104.4
42.5°	972.8	675.3	508.9	437.0	376.5	348.5	328.5	315.0	295.9	245.9	206.0
40°	1943.2	1509.3	1114.3	699.4	529.1	452.3	423.3	391.5	388.3	362.4	310.1
37.5°	2899.0	2452.1	1957.0	1441.2	959.1	609.8	540.4	492.8	457.7	448.1	410.4
35°	3784.9	3322.0	2863.3	2315.1	1688.2	1172.3	711.1	626.7	559.1	519.5	496.9
32.5°	4777.3	4290.8	3712.1	3176.3	2614.3	1950.8	1348.0	835.1	685.7	617.1	563.9
30°	6362.1	5549.7	4771.0	4083.9	3521.8	2920.1	2163.6	1396.2	884.2	718.2	635.0
27.5°	8855.6	7302.5	6266.3	5359.0	4609.3	3974.9	3210.8	2189.7	1218.6	876.5	727.8
25°	12268.5	10523.6	8752.8	7454.4	6366.6	5282.3	4473.0	3237.7	1993.2	1064.8	831.5
22.5°	16325.6	14168.3	12171.0	10056.7	8414.4	6982.6	5656.0	4297.5	2801.8	1496.5	1007.6
20°	19921.0	17410.4	15148.0	12804.4	10437.0	8382.9	6654.7	5232.6	3672.2	2179.3	1178.7
17.5°	24382.4	20888.3	18084.5	15561.4	12747.4	10190.6	8001.9	6231.7	4485.0	2749.4	1319.0
15°	29311.2	24818.2	21061.3	17869.2	14920.7	12029.6	9473.9	7300.1	5392.7	3352.2	1732.9
12.5°	34606.1	29150.4	24113.2	20131.8	16625.9	13468.9	10474.6	8228.9	6235.5	4077.0	2188.9
10°	38167.2	32528.5	27113.6	22538.7	18460.7	14651.9	11330.1	8802.1	6783.2	4711.5	2635.3
7.5°	41885.4	35211.9	29330.7	24304.3	20058.2	16079.6	12176.2	9245.0	7204.5	5185.3	2982.1
5°	44111.0	37072.1	30954.4	25690.7	21205.5	17227.1	13177.5	9639.5	7552.6	5540.7	3247.1
2.5°	45865.1	38225.5	31838.2	26428.4	21989.2	17915.5	14005.4	10027.5	7739.9	5707.7	3320.9
0°	47391.7	39056.5	32539.1	26993.4	22482.2	18356.3	14427.0	10405.3	7796.6	5749.1	3308.0
-2.5°	47327.0	38782.1	32135.5	26715.4	22266.0	18216.1	14478.3	10891.2	8194.0	5784.0	3312.9
-5°	47375.5	38795.8	31872.5	26525.7	22073.6	18031.5	14328.7	11033.2	8403.2	5736.8	3237.5
-7.5°	46107.9	38105.9	31391.3	26128.6	21742.0	17692.5	13967.8	10854.5	8412.7	5739.4	3115.1
-10°	43612.6	36456.2	30248.2	25285.1	21086.0	17098.9	13439.2	10560.3	8185.0	5511.5	2904.7
-12.5°	40864.3	34485.2	28701.3	24015.5	20045.6	16234.2	12770.5	10139.7	7770.4	5084.1	2698.9
-15°	37246.8	32179.7	27359.5	22726.8	18735.5	15167.9	12002.9	9610.7	7244.4	4529.3	2379.2
-17.5°	33693.8	29351.1	25162.8	21217.9	17329.2	14000.4	11274.6	8914.2	6496.1	3895.6	1959.9
-20°	30227.4	26497.3	22868.3	19202.6	15747.3	12680.1	10359.2	8068.6	5560.4	3274.5	1891.8



REPORT NUMBER: P701454 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	26841.6	23854.1	20624.2	17105.0	14096.4	11537.5	9280.3	7021.7	4491.6	2544.2	1801.2
-25°	23479.1	20999.6	18071.5	15369.4	12626.8	10275.2	8105.0	5725.9	3577.1	2115.4	1680.3
-27.5°	20109.9	17798.0	15695.6	13465.9	11270.8	8952.8	6661.7	4375.9	2561.0	1920.7	1613.3
-30°	16834.3	15064.4	13310.9	11543.2	9660.2	7467.5	5035.8	3210.7	2121.3	1736.5	1526.5
-32.5°	13988.8	12612.4	11163.2	9616.1	7770.9	5744.1	3715.5	2316.1	1869.1	1633.4	1473.4
-35°	11529.0	10281.0	9061.8	7450.5	5574.6	3892.0	2458.2	2001.2	1715.4	1533.9	1425.9
-37.5°	9237.9	7993.3	6591.3	5098.9	3576.0	2450.4	2068.8	1788.7	1585.1	1471.2	1362.3
-40°	6686.8	5404.5	4171.2	2916.1	2362.8	2042.6	1824.9	1642.0	1519.9	1401.2	1293.7
-42.5°	4063.0	3010.5	2406.5	2191.6	1973.7	1814.2	1664.8	1560.7	1448.5	1335.0	1190.8
-45°	2313.9	2131.1	1967.4	1875.5	1757.0	1665.7	1581.9	1477.7	1373.9	1227.0	1073.9
-47.5°	1888.4	1812.4	1740.5	1695.8	1640.0	1571.8	1482.5	1383.2	1241.3	1096.6	968.2
-50°	1675.1	1647.6	1619.8	1587.8	1531.8	1463.8	1355.3	1229.1	1100.4	981.8	863.1
-52.5°	1571.8	1537.3	1502.8	1467.3	1394.6	1298.2	1190.8	1080.1	968.5	864.9	760.8
-55°	1447.3	1393.7	1338.0	1276.8	1209.0	1125.6	1035.9	936.9	842.1	747.5	668.2
-57.5°	1243.1	1188.3	1141.4	1088.4	1029.7	961.3	888.8	803.4	723.3	650.0	581.1
-60°	1045.8	995.1	956.7	913.6	865.8	808.9	751.4	685.4	614.5	556.0	499.7
-62.5°	864.1	821.5	789.3	756.8	720.8	678.7	628.5	578.0	521.5	468.2	428.8
-65°	704.4	671.4	644.0	620.5	593.7	564.1	522.2	483.7	442.8	402.4	367.7
-67.5°	569.9	545.1	523.3	503.7	487.2	468.6	440.2	408.9	379.0	351.3	327.8
-70°	465.8	448.9	433.8	419.6	407.3	395.9	378.2	357.0	333.2	310.0	290.3
-72.5°	391.9	380.5	370.2	361.6	352.0	342.7	329.2	311.5	292.5	272.8	256.4
-75°	338.6	329.5	320.8	313.3	305.0	296.3	286.6	273.9	260.7	247.0	234.2
-77.5°	297.0	289.6	282.3	276.9	271.4	265.6	258.1	247.1	236.9	226.3	216.3
-80°	266.2	259.8	253.7	249.9	245.9	241.0	235.2	226.7	218.2	209.0	200.2
-82.5°	242.4	236.7	231.2	227.6	223.7	219.0	214.0	206.8	199.5	191.6	183.8
-85°	219.4	215.0	210.5	206.8	203.2	198.7	194.1	187.9	181.6	174.4	167.2
-87.5°	199.3	195.3	191.3	188.4	185.6	181.2	176.8	171.4	165.9	159.6	153.3
-90°	1.9	1.9	1.9	2.2	2.5	2.5	2.5	2.8	3.1	3.5	3.8



REPORT NUMBER: P701454 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	137.8	132.4	127.4	122.4	118.3	114.2	109.9	105.5	98.3	91.0	81.0
87.5°	4.0	4.2	4.5	4.7	4.7	4.7	5.0	5.3	5.4	5.4	5.7
85°	4.3	4.6	4.8	5.0	5.0	5.0	5.3	5.5	5.7	5.9	6.1
82.5°	4.7	5.0	5.0	5.0	5.4	5.7	5.7	5.8	6.1	6.3	6.5
80°	4.8	5.0	5.1	5.3	5.8	6.3	6.1	6.1	6.5	6.8	6.9
77.5°	5.0	5.2	5.4	5.6	6.0	6.3	6.4	6.5	6.9	7.2	7.3
75°	5.4	5.5	5.5	5.8	6.2	6.4	6.6	6.8	7.2	7.6	7.7
72.5°	5.9	5.9	5.8	5.9	6.4	6.8	6.9	7.1	7.6	7.9	8.1
70°	6.7	6.4	6.2	6.4	6.8	7.2	7.5	7.7	7.9	8.3	8.5
67.5°	7.5	7.1	6.8	6.9	7.2	7.8	8.1	8.4	8.6	8.7	9.0
65°	10.3	9.1	7.5	7.9	8.0	8.5	9.0	9.3	9.3	9.6	9.5
62.5°	14.5	12.3	10.9	9.6	9.4	10.2	10.1	10.8	10.3	10.5	10.4
60°	19.9	16.4	14.7	13.3	12.5	12.5	12.8	12.6	12.4	11.4	11.3
57.5°	24.9	20.2	19.7	17.8	17.2	16.3	16.4	16.1	15.1	14.1	12.4
55°	29.4	25.4	25.5	24.1	23.5	21.7	21.5	20.7	18.7	17.5	13.8
52.5°	34.1	32.6	32.2	32.6	32.1	28.8	28.5	25.9	24.4	21.3	17.3
50°	41.4	42.7	41.3	43.7	42.3	40.2	36.2	33.4	30.4	25.8	21.1
47.5°	60.1	61.1	56.4	58.2	56.0	53.0	47.6	41.8	36.7	31.7	25.1
45°	104.4	89.8	84.1	78.7	73.8	69.8	61.2	50.8	44.9	37.7	29.1
42.5°	165.2	145.3	129.5	102.4	100.4	89.3	76.4	64.3	53.4	43.9	33.9
40°	260.5	223.5	189.1	159.1	133.6	111.0	96.6	79.3	62.2	50.7	39.5
37.5°	361.9	314.9	269.9	223.8	177.5	145.9	119.0	95.1	72.7	58.7	45.1
35°	452.2	410.4	348.3	294.5	241.3	182.5	143.0	113.4	87.0	66.9	50.9
32.5°	529.7	489.7	422.1	362.4	293.2	220.1	173.2	134.2	101.6	75.3	56.9
30°	592.0	546.5	489.8	416.3	336.4	262.4	204.8	154.7	116.5	83.9	63.2
27.5°	652.8	601.2	549.5	465.6	376.6	298.8	231.1	174.7	131.5	93.5	70.1
25°	725.6	658.4	601.4	519.3	416.0	328.2	254.7	194.4	147.6	104.6	76.8
22.5°	816.4	714.6	654.1	575.8	460.9	357.1	277.7	215.1	161.4	115.1	83.2
20°	895.8	764.5	704.6	628.3	509.8	394.1	301.4	232.5	174.5	124.9	89.2
17.5°	979.5	816.7	737.0	665.6	557.3	431.4	326.3	248.9	186.9	134.1	95.0
15°	1091.8	873.1	766.6	697.8	598.0	467.2	350.6	264.4	198.3	142.6	100.5
12.5°	1184.1	925.6	795.9	723.0	629.5	499.7	373.9	279.0	208.9	151.1	106.0
10°	1273.0	981.6	827.7	746.9	656.0	528.9	395.8	294.4	221.4	159.6	111.2
7.5°	1370.9	1034.5	858.4	769.7	678.4	553.1	418.4	312.8	233.5	167.5	116.0
5°	1450.1	1081.3	890.0	795.2	699.9	571.8	438.8	330.1	244.7	174.6	120.4
2.5°	1472.9	1120.5	920.7	819.2	718.3	586.5	456.7	346.1	254.7	180.9	124.4
0°	1478.9	1152.4	948.4	840.5	733.1	597.6	472.0	360.3	263.6	186.4	128.0
-2.5°	1510.2	1178.2	973.2	871.1	759.7	611.9	480.7	367.7	271.1	192.8	133.2
-5°	1527.6	1196.3	995.3	898.3	781.4	622.6	486.8	373.1	277.2	198.2	138.0
-7.5°	1537.4	1209.4	1015.2	920.9	797.5	629.3	490.2	376.6	281.7	202.6	142.2
-10°	1532.7	1215.7	1032.3	933.6	805.0	635.8	492.0	378.3	284.8	206.0	145.8
-12.5°	1539.7	1217.2	1046.0	942.9	807.7	641.7	497.9	381.0	286.5	208.3	148.9
-15°	1539.9	1232.0	1068.1	950.7	806.2	643.2	500.2	382.4	286.9	209.6	151.4
-17.5°	1505.0	1233.2	1088.5	961.9	801.6	640.3	498.7	380.8	285.7	209.8	153.5
-20°	1494.7	1243.4	1100.1	967.4	791.6	633.7	493.3	376.1	282.8	209.1	155.3



REPORT NUMBER: P701454 (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°	1480.7	1265.8	1113.4	955.2	777.2	623.4	485.4	368.5	278.1	207.2	156.6
-25°	1437.3	1280.1	1119.6	941.1	761.8	612.0	476.0	362.0	271.7	204.2	157.2
-27.5°	1411.7	1273.3	1115.9	917.8	745.4	595.8	466.1	357.1	267.3	200.2	157.3
-30°	1396.1	1252.3	1082.8	887.6	721.3	576.4	453.6	349.6	263.8	198.5	156.9
-32.5°	1360.1	1227.1	1033.0	853.1	694.4	553.7	438.4	339.2	258.5	198.4	156.5
-35°	1305.9	1163.9	973.9	809.7	664.5	533.6	421.2	325.8	251.4	197.2	155.9
-37.5°	1242.8	1075.2	920.1	763.7	626.1	508.9	403.6	313.7	242.5	195.1	155.0
-40°	1144.0	988.5	847.7	715.1	587.9	478.1	383.1	302.0	237.1	192.0	153.4
-42.5°	1040.9	902.8	776.3	657.3	547.0	448.9	360.6	288.3	232.6	189.0	151.1
-45°	942.6	816.7	704.1	601.7	503.4	417.3	342.5	274.0	226.9	185.6	148.9
-47.5°	843.8	736.2	635.8	543.1	465.2	385.8	320.6	265.9	219.9	181.5	147.2
-50°	753.5	657.7	569.4	490.8	420.6	359.4	299.7	256.4	213.7	176.3	144.9
-52.5°	667.9	582.9	507.3	438.5	383.1	331.0	285.3	245.0	206.3	171.8	142.1
-55°	586.9	513.2	447.6	393.6	346.5	309.2	269.6	233.5	197.7	167.4	139.0
-57.5°	513.5	446.5	398.3	353.1	317.1	287.0	254.2	220.9	191.0	162.3	137.4
-60°	443.1	396.6	353.9	320.9	291.8	265.6	238.7	208.9	184.4	157.3	135.2
-62.5°	387.6	349.5	320.7	292.7	267.6	245.0	223.1	199.4	176.7	154.1	132.5
-65°	341.9	315.4	289.0	266.5	244.3	225.7	210.7	189.2	170.7	150.4	129.4
-67.5°	304.6	282.7	261.0	240.5	225.0	211.4	197.3	181.3	165.1	146.4	125.7
-70°	271.1	251.6	235.8	222.4	209.6	197.5	187.4	174.2	159.0	141.4	121.7
-72.5°	243.5	230.5	217.5	205.5	196.5	187.4	178.2	166.7	152.2	136.1	117.3
-75°	222.6	212.4	202.7	193.6	185.5	177.1	168.7	158.7	145.1	130.4	112.2
-77.5°	207.4	198.5	189.9	181.6	174.1	166.5	159.0	150.4	137.5	123.7	106.7
-80°	192.2	184.3	176.6	169.1	162.4	155.6	148.6	140.8	128.8	116.5	100.8
-82.5°	176.8	169.8	162.9	156.0	149.7	143.4	137.2	130.5	119.8	109.0	95.3
-85°	161.0	154.7	148.4	142.1	136.6	131.1	126.2	121.1	112.2	103.1	90.7
-87.5°	147.9	142.4	137.1	131.7	127.2	122.7	118.1	113.4	105.3	97.1	85.9
-90°	3.8	3.8	4.1	4.4	4.4	4.4	4.7	5.0	5.0	5.0	5.3



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	70.9	58.6	46.4	33.2	20.1	13.5	6.9
87.5°	5.9	5.9	5.8	5.8	5.8	6.4	6.9
85°	6.3	6.2	6.1	6.0	5.9	6.5	6.9
82.5°	6.6	6.4	6.3	6.2	6.1	6.7	6.9
80°	6.9	6.7	6.5	6.4	6.3	6.8	6.9
77.5°	7.3	7.0	6.7	6.6	6.5	7.0	6.9
75°	7.7	7.5	7.0	6.9	6.7	7.1	6.9
72.5°	8.0	7.9	7.5	7.1	6.9	7.2	6.9
70°	8.5	8.3	7.9	7.3	7.1	7.4	6.9
67.5°	9.0	8.8	8.4	7.7	7.3	7.5	6.9
65°	9.5	9.3	8.8	8.1	7.5	7.7	6.9
62.5°	10.1	9.8	9.3	8.4	7.8	7.8	6.9
60°	10.7	10.3	9.7	8.8	8.0	8.0	6.9
57.5°	11.9	10.9	10.3	9.2	8.4	8.1	6.9
55°	13.3	11.4	11.0	9.5	8.8	8.3	6.9
52.5°	14.8	12.1	11.8	9.9	9.3	8.5	6.9
50°	16.4	13.9	12.6	10.3	9.8	8.6	6.9
47.5°	18.4	15.7	13.4	10.7	10.3	8.8	6.9
45°	21.9	17.7	14.3	11.4	10.8	8.9	6.9
42.5°	25.4	19.7	15.2	12.1	11.4	9.1	6.9
40°	29.1	21.8	16.6	13.2	12.0	9.2	6.9
37.5°	33.1	24.0	18.2	14.4	12.6	9.4	6.9
35°	37.1	26.8	19.9	15.7	13.2	9.5	6.9
32.5°	41.5	30.1	21.6	17.0	13.8	9.7	6.9
30°	46.5	33.2	23.3	18.3	14.5	9.8	6.9
27.5°	51.4	36.4	25.6	19.7	15.1	10.0	6.9
25°	56.3	39.4	27.9	21.1	15.8	10.1	6.9
22.5°	60.9	42.6	30.2	22.4	16.5	10.3	6.9
20°	65.5	46.0	32.4	23.8	17.1	10.4	6.9
17.5°	70.0	49.3	34.6	25.2	17.8	10.5	6.9
15°	74.3	52.4	36.7	26.5	18.5	10.7	6.9
12.5°	78.5	55.4	38.7	27.8	19.1	10.8	6.9
10°	82.3	58.2	40.7	29.1	19.7	10.9	6.9
7.5°	85.9	60.9	42.6	30.4	20.4	11.0	6.9
5°	89.1	63.4	44.4	31.6	20.9	11.1	6.9
2.5°	92.1	65.7	46.1	32.8	21.5	11.2	6.9
0°	94.8	67.8	47.7	33.9	22.0	11.3	6.9
-2.5°	98.8	70.9	49.9	35.4	22.9	11.7	6.9
-5°	102.6	73.8	52.0	36.8	23.8	12.2	6.9
-7.5°	105.9	76.5	54.0	38.2	24.7	12.6	6.9
-10°	108.9	78.9	55.8	39.4	25.5	13.0	6.9
-12.5°	111.5	81.0	57.5	40.6	26.2	13.4	6.9
-15°	113.7	82.9	59.1	41.7	26.9	13.7	6.9
-17.5°	115.4	84.5	60.4	42.7	27.6	14.1	6.9
-20°	117.0	85.9	61.7	43.6	28.1	14.4	6.9



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	118.6	86.9	62.7	44.4	28.7	14.7	6.9
-25°	119.8	88.1	63.6	45.1	29.1	15.0	6.9
-27.5°	120.5	89.2	64.3	45.7	29.5	15.3	6.9
-30°	120.7	90.1	64.9	46.2	29.9	15.5	6.9
-32.5°	120.4	90.7	66.0	46.6	30.1	15.7	6.9
-35°	120.5	90.9	66.9	46.8	30.3	15.9	6.9
-37.5°	120.5	91.3	67.6	47.0	30.5	16.1	6.9
-40°	120.1	91.9	68.2	47.1	30.5	16.2	6.9
-42.5°	119.4	92.4	68.6	47.2	30.5	16.3	6.9
-45°	118.4	92.6	69.0	47.5	30.5	16.4	6.9
-47.5°	116.9	92.6	69.1	47.6	30.3	16.5	6.9
-50°	116.4	92.4	69.0	47.6	30.2	16.5	6.9
-52.5°	115.7	91.9	68.7	47.5	29.9	16.5	6.9
-55°	114.8	91.1	68.2	47.3	29.6	16.5	6.9
-57.5°	113.5	90.0	67.4	47.0	29.2	16.4	6.9
-60°	111.9	88.6	66.5	46.5	28.7	16.3	6.9
-62.5°	109.8	87.0	65.5	45.9	28.3	16.2	6.9
-65°	107.4	85.1	64.4	45.1	27.9	16.1	6.9
-67.5°	104.7	83.1	63.1	44.3	27.3	15.9	6.9
-70°	101.7	80.9	61.6	43.3	26.7	15.7	6.9
-72.5°	98.2	78.3	60.0	42.3	26.1	15.5	6.9
-75°	94.2	75.6	58.2	41.3	25.4	15.3	6.9
-77.5°	90.0	72.6	56.5	40.2	24.6	15.0	6.9
-80°	85.5	69.9	54.7	39.0	23.8	14.8	6.9
-82.5°	82.0	67.3	52.8	37.7	22.9	14.5	6.9
-85°	78.4	64.5	50.8	36.3	22.0	14.2	6.9
-87.5°	74.7	61.7	48.6	34.8	21.1	13.8	6.9
-90°	5.6	5.6	5.6	5.6	5.6	6.3	6.9

(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

