

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: P628586

Luminaire Tested: **EPH-VN-03-E-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628586  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-03-E-930-U-LAM  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
LAMBERTIAN distribution lens  
Light Source: (48) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

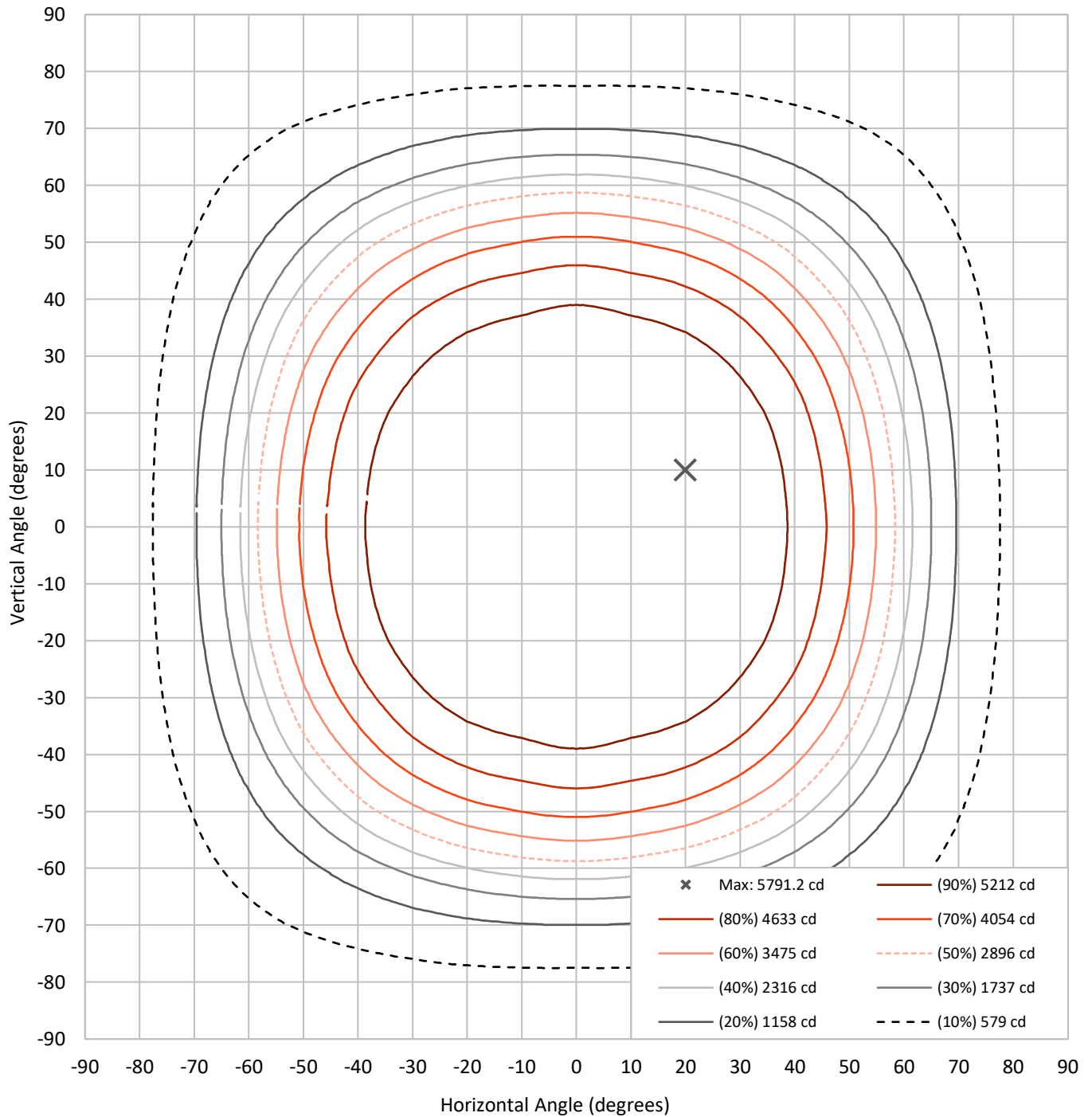
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17766.5 lumens	Max Intensity:	5791.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	76.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	10901.9 lumens	Field Lumens:	13069.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 232.1  
Input Voltage (V): 120  
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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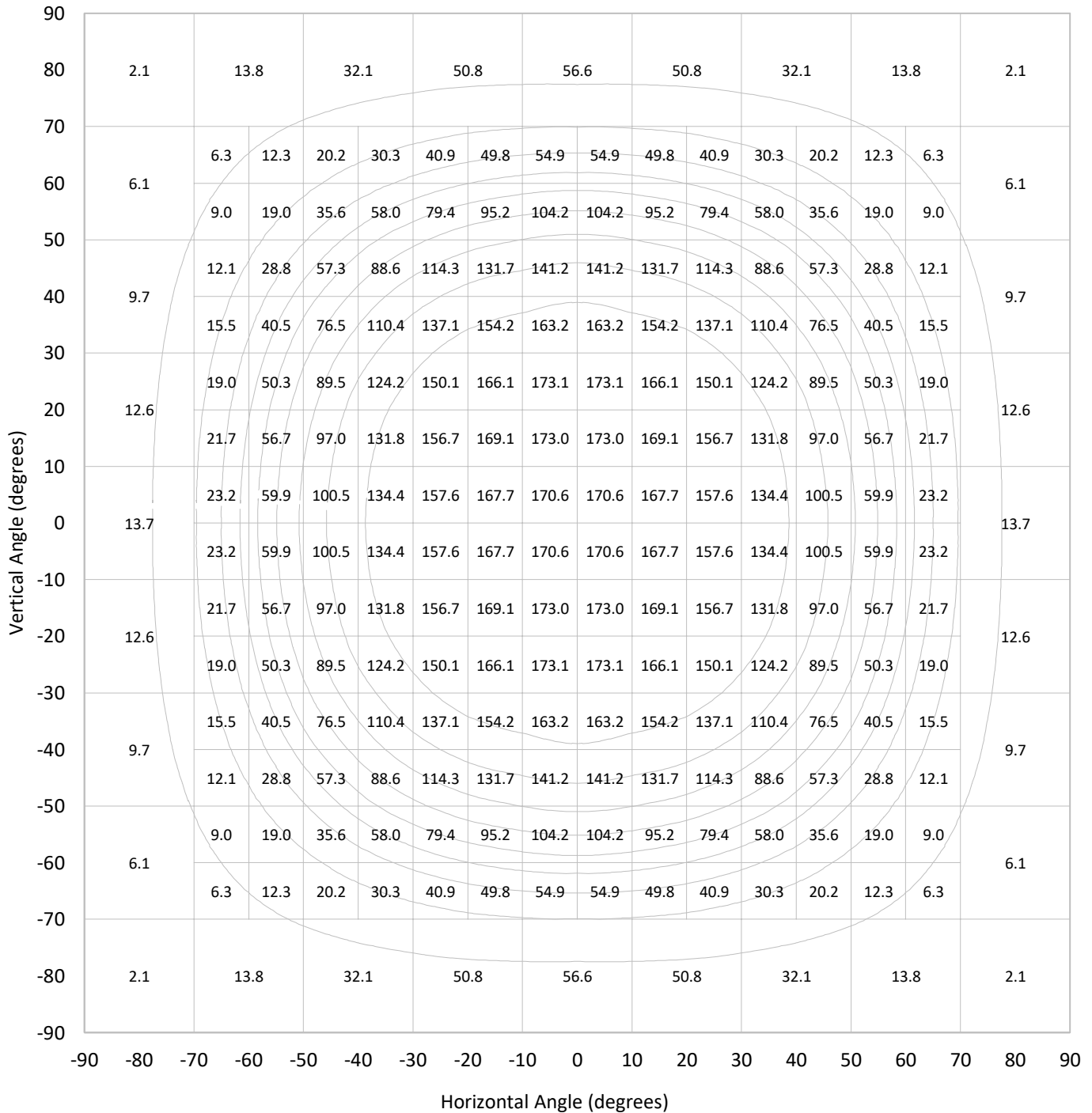
### Iso-Candela Plot





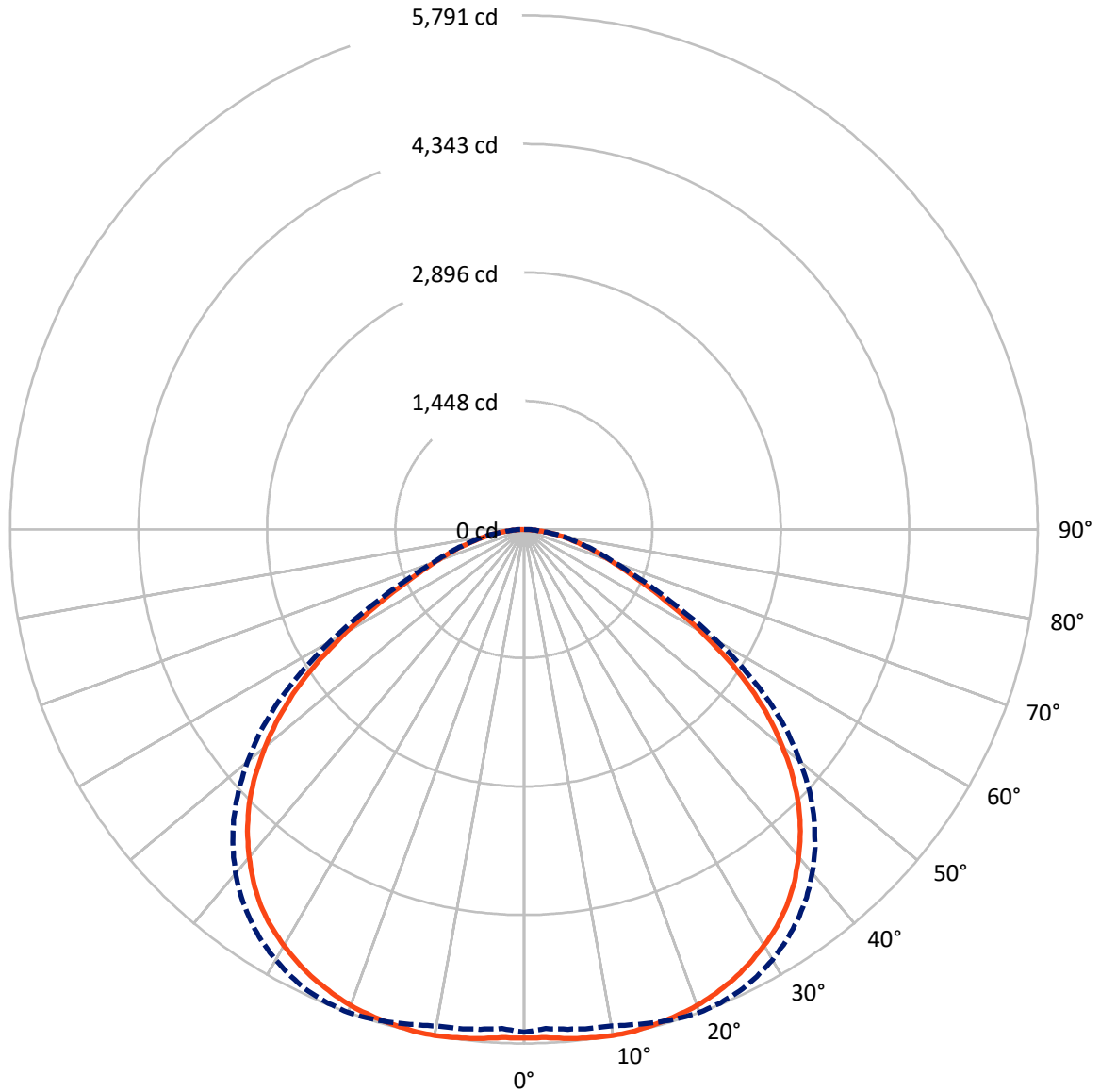
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### Lumen Table



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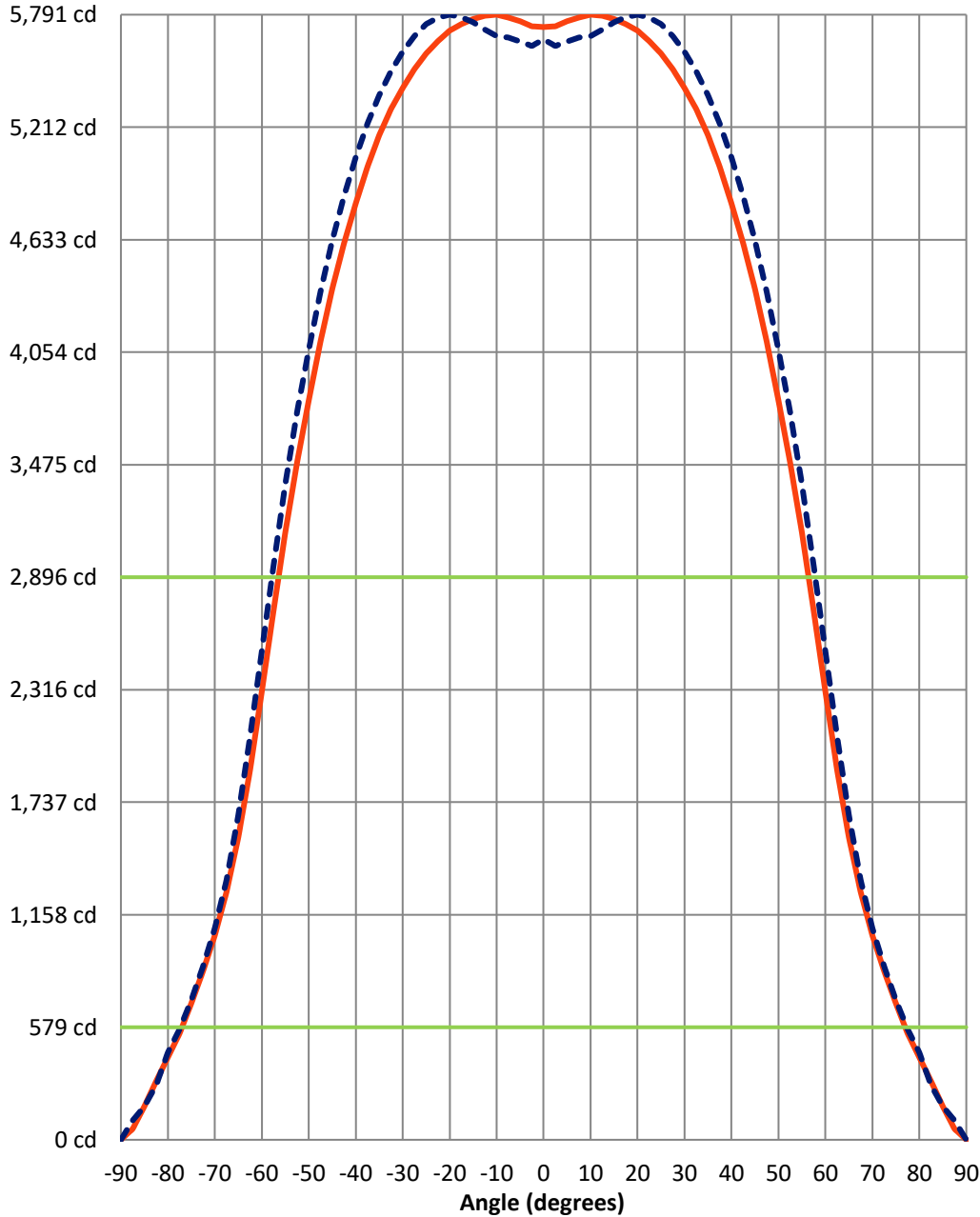
### Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg    - - - Horizontal Distribution Through 10-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 10901.9  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 13069.5  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4697  
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.7	50.5	52.3	54.2	56.1	57.9	59.8	57.9	56.1	56.1	54.2
85°	125.2	129.0	130.9	143.9	157.0	164.5	173.8	172.0	172.0	170.1	168.2
82.5°	250.5	261.7	271.1	284.1	291.6	302.8	310.3	304.7	301.0	293.5	287.9
80°	444.9	448.6	450.5	452.4	443.0	441.2	437.4	431.8	424.3	415.0	405.6
77.5°	566.4	570.1	573.9	570.1	568.3	566.4	560.8	555.2	547.7	540.2	529.0
75°	749.6	749.6	749.6	744.0	740.3	734.6	725.3	716.0	702.9	687.9	671.1
72.5°	944.0	942.1	940.3	929.1	919.7	908.5	895.4	884.2	869.2	852.4	830.0
70°	1147.8	1151.5	1153.4	1138.4	1127.2	1112.2	1095.4	1074.9	1052.4	1028.1	996.4
67.5°	1428.2	1424.4	1420.7	1400.1	1385.2	1364.6	1340.3	1310.4	1276.7	1239.4	1194.5
65°	1775.9	1781.5	1770.3	1749.7	1721.6	1688.0	1650.6	1607.6	1557.1	1501.1	1437.5
62.5°	2196.5	2205.8	2192.7	2166.5	2131.0	2086.2	2033.8	1972.1	1903.0	1824.5	1745.9
60°	2675.0	2673.1	2648.8	2613.3	2566.6	2510.5	2452.6	2385.3	2306.7	2215.2	2119.8
57.5°	3114.3	3110.6	3080.6	3045.1	2998.4	2938.6	2876.9	2805.9	2723.6	2626.4	2516.1
55°	3508.7	3505.0	3475.1	3437.7	3389.1	3329.3	3273.2	3205.9	3125.5	3022.7	2904.9
52.5°	3858.3	3860.2	3834.0	3792.9	3740.5	3682.6	3628.4	3561.1	3484.4	3381.6	3267.6
50°	4179.8	4177.9	4149.9	4112.5	4063.9	4007.8	3953.6	3886.3	3805.9	3706.9	3596.6
47.5°	4478.9	4475.2	4443.4	4402.3	4351.8	4303.2	4252.7	4192.9	4108.8	4009.7	3899.4
45°	4729.4	4721.9	4690.1	4650.9	4602.3	4559.3	4514.4	4469.6	4379.8	4288.2	4183.6
42.5°	4944.4	4942.5	4910.7	4871.5	4822.9	4785.5	4744.3	4688.3	4613.5	4529.4	4426.6
40°	5150.0	5135.0	5103.3	5065.9	5021.0	4989.2	4948.1	4892.0	4819.1	4736.9	4637.8
37.5°	5303.3	5305.1	5271.5	5230.4	5191.1	5161.2	5123.8	5071.5	5007.9	4927.5	4828.5
35°	5449.1	5439.7	5411.7	5376.2	5340.7	5307.0	5267.8	5222.9	5170.6	5095.8	5002.3
32.5°	5544.4	5557.5	5523.9	5486.5	5465.9	5439.7	5398.6	5351.9	5305.1	5230.4	5146.3
30°	5649.1	5637.9	5611.7	5579.9	5565.0	5548.2	5512.6	5467.8	5413.6	5346.3	5267.8
27.5°	5722.0	5716.4	5684.6	5654.7	5647.2	5632.3	5604.2	5565.0	5510.8	5445.3	5372.4
25°	5753.8	5757.5	5727.6	5710.8	5710.8	5701.4	5679.0	5645.4	5591.2	5531.3	5460.3
22.5°	5768.7	5765.0	5744.4	5740.7	5750.0	5742.6	5733.2	5703.3	5654.7	5606.1	5546.3
20°	5778.1	5751.9	5733.2	5748.2	5759.4	5757.5	5750.0	5731.4	5708.9	5667.8	5615.5
17.5°	5757.5	5740.7	5718.3	5740.7	5765.0	5766.9	5759.4	5748.2	5742.6	5716.4	5669.7
15°	5707.1	5694.0	5697.7	5720.1	5748.2	5757.5	5763.1	5776.2	5768.7	5748.2	5707.1
12.5°	5673.4	5656.6	5673.4	5695.8	5710.8	5716.4	5761.3	5785.6	5785.6	5766.9	5740.7
10°	5664.1	5630.4	5652.8	5673.4	5680.9	5714.5	5751.9	5778.1	5791.2	5776.2	5742.6
7.5°	5645.4	5622.9	5632.3	5641.6	5684.6	5708.9	5729.5	5757.5	5776.2	5774.3	5744.4
5°	5636.0	5608.0	5611.7	5651.0	5680.9	5697.7	5705.2	5729.5	5757.5	5763.1	5740.7
2.5°	5611.7	5598.6	5626.7	5630.4	5652.8	5665.9	5673.4	5695.8	5731.4	5744.4	5735.1
0°	5598.6	5579.9	5561.2	5576.2	5613.6	5641.6	5652.8	5686.5	5727.6	5740.7	5720.1



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.3	50.5	48.6	46.7	48.6	48.6	48.6	46.7	48.6	46.7	46.7
85°	162.6	155.2	149.5	142.1	134.6	129.0	121.5	114.0	112.2	110.3	106.6
82.5°	280.4	271.1	261.7	250.5	239.3	226.2	213.1	198.1	194.4	190.7	185.1
80°	394.4	381.3	368.3	355.2	344.0	330.9	315.9	299.1	287.9	278.5	267.3
77.5°	514.1	495.4	476.7	454.2	441.2	428.1	413.1	396.3	379.5	364.5	347.7
75°	650.5	630.0	611.3	588.8	564.5	540.2	515.9	493.5	469.2	446.8	424.3
72.5°	801.9	772.0	742.1	714.1	684.2	654.3	622.5	592.6	562.7	532.8	501.0
70°	960.8	923.4	886.1	848.7	809.4	770.2	732.8	695.4	658.0	618.7	583.2
67.5°	1147.8	1104.8	1056.2	1003.8	945.9	895.4	846.8	801.9	757.1	712.2	667.3
65°	1381.4	1321.6	1256.2	1185.2	1117.9	1050.6	979.5	912.2	859.9	807.5	757.1
62.5°	1669.3	1585.2	1493.6	1402.0	1319.7	1231.9	1149.6	1061.8	979.5	904.8	843.1
60°	2013.3	1899.2	1787.1	1669.3	1555.3	1435.6	1331.0	1222.5	1119.7	1028.1	938.4
57.5°	2392.7	2260.0	2125.4	1981.5	1826.3	1686.1	1544.1	1402.0	1280.5	1159.0	1058.0
55°	2777.8	2637.6	2486.2	2323.6	2153.5	1974.0	1781.5	1622.6	1456.2	1314.1	1183.3
52.5°	3144.2	2998.4	2841.4	2691.8	2488.1	2282.4	2071.2	1861.8	1667.4	1486.1	1327.2
50°	3471.3	3329.3	3177.9	3004.0	2815.2	2596.5	2361.0	2125.4	1895.5	1682.4	1484.2
47.5°	3770.4	3632.1	3480.7	3306.8	3134.9	2891.8	2654.4	2394.6	2138.5	1893.6	1661.8
45°	4050.8	3910.6	3753.6	3587.2	3389.1	3172.2	2927.4	2665.7	2390.9	2116.1	1848.8
42.5°	4305.1	4164.9	4006.0	3834.0	3637.7	3422.7	3185.3	2921.8	2645.1	2346.0	2052.5
40°	4527.5	4391.0	4237.8	4058.3	3875.1	3648.9	3415.3	3164.8	2878.8	2577.8	2254.4
37.5°	4721.9	4594.8	4443.4	4265.8	4071.4	3869.5	3628.4	3377.9	3119.9	2792.8	2461.9
35°	4893.9	4776.1	4621.0	4452.7	4262.1	4049.0	3822.8	3577.9	3299.4	2992.8	2671.3
32.5°	5043.4	4923.8	4781.7	4613.5	4428.4	4228.4	3996.6	3749.9	3486.3	3174.1	2824.6
30°	5170.6	5054.7	4920.1	4761.2	4583.6	4385.4	4159.2	3910.6	3641.4	3331.1	2985.3
27.5°	5280.8	5170.6	5039.7	4892.0	4721.9	4531.2	4303.2	4052.7	3777.9	3478.8	3133.0
25°	5376.2	5269.6	5148.1	5007.9	4839.7	4652.8	4437.8	4176.1	3901.3	3600.3	3258.2
22.5°	5462.2	5359.4	5237.8	5101.4	4948.1	4761.2	4544.3	4284.5	4006.0	3708.7	3372.3
20°	5538.8	5443.5	5323.8	5183.6	5030.4	4841.6	4626.6	4379.8	4099.4	3807.8	3475.1
17.5°	5600.5	5516.4	5396.7	5249.1	5095.8	4912.6	4703.2	4477.0	4179.8	3891.9	3561.1
15°	5643.5	5561.2	5452.8	5303.3	5153.7	4972.4	4763.0	4529.4	4252.7	3959.2	3632.1
12.5°	5673.4	5585.5	5484.6	5346.3	5196.7	5017.3	4813.5	4583.6	4314.4	4019.0	3693.8
10°	5680.9	5600.5	5499.6	5376.2	5230.4	5056.5	4856.5	4628.4	4364.9	4065.8	3744.3
7.5°	5684.6	5608.0	5516.4	5398.6	5254.7	5086.4	4888.3	4664.0	4402.3	4105.0	3781.6
5°	5682.7	5609.8	5527.6	5413.6	5269.6	5103.3	4908.8	4688.3	4428.4	4131.2	3809.7
2.5°	5677.1	5611.7	5535.1	5424.8	5286.5	5122.0	4929.4	4716.3	4456.5	4153.6	3832.1
0°	5692.1	5636.0	5538.8	5421.0	5290.2	5122.0	4927.5	4720.0	4460.2	4151.8	3830.2





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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.7	44.9	44.9	43.0	41.1	39.3	35.5	33.6	29.9	24.3	18.7
85°	100.9	95.3	89.7	86.0	82.3	78.5	72.9	67.3	59.8	48.6	37.4
82.5°	177.6	166.4	155.2	142.1	130.9	119.6	110.3	100.9	89.7	72.9	56.1
80°	254.2	237.4	220.6	201.9	185.1	166.4	149.5	134.6	119.6	97.2	74.8
77.5°	330.9	308.4	284.1	261.7	237.4	213.1	188.8	168.2	145.8	119.6	93.5
75°	401.9	375.7	353.3	321.5	291.6	259.8	228.1	200.0	172.0	140.2	112.2
72.5°	472.9	439.3	407.5	377.6	344.0	304.7	269.2	233.7	198.1	160.8	127.1
70°	544.0	502.8	463.6	428.1	390.7	351.4	308.4	267.3	224.3	179.5	140.2
67.5°	616.9	570.1	525.3	480.4	437.4	392.6	347.7	301.0	250.5	198.1	155.2
65°	697.3	639.3	585.1	534.6	484.2	435.6	385.1	334.6	278.5	218.7	168.2
62.5°	777.6	714.1	650.5	587.0	530.9	476.7	422.5	366.4	304.7	241.1	181.3
60°	863.6	790.7	717.8	646.8	577.6	517.8	458.0	398.2	332.7	261.7	194.4
57.5°	959.0	871.1	788.9	708.5	630.0	558.9	493.5	429.9	357.0	282.3	209.4
55°	1067.4	959.0	861.8	772.0	686.0	600.1	529.0	463.6	385.1	302.8	226.2
52.5°	1181.4	1056.2	938.4	837.5	745.9	648.7	562.7	489.8	413.1	323.4	241.1
50°	1314.1	1155.2	1024.4	901.0	798.2	697.3	598.2	519.7	441.2	347.7	256.1
47.5°	1450.6	1274.9	1110.4	975.8	854.3	744.0	639.3	545.8	467.3	370.1	271.1
45°	1609.5	1388.9	1207.6	1048.7	908.5	792.6	680.4	573.9	489.8	392.6	286.0
42.5°	1762.8	1523.5	1308.5	1129.1	970.2	839.3	717.8	603.8	512.2	415.0	299.1
40°	1944.1	1658.1	1405.7	1205.7	1031.9	884.2	755.2	635.6	532.8	435.6	312.2
37.5°	2117.9	1794.6	1523.5	1289.8	1091.7	929.1	792.6	665.5	551.5	456.1	329.0
35°	2289.9	1946.0	1635.7	1368.3	1153.4	979.5	830.0	693.5	570.1	472.9	344.0
32.5°	2454.4	2088.0	1749.7	1456.2	1220.7	1026.3	863.6	719.7	588.8	487.9	358.9
30°	2607.7	2222.6	1861.8	1545.9	1282.4	1069.3	895.4	745.9	611.3	501.0	373.9
27.5°	2747.9	2353.5	1974.0	1630.1	1340.3	1108.5	929.1	770.2	630.0	514.1	387.0
25°	2875.0	2471.2	2076.8	1706.7	1392.6	1151.5	960.8	794.5	646.8	525.3	398.2
22.5°	2994.7	2579.7	2170.3	1783.3	1456.2	1194.5	990.7	816.9	663.6	536.5	409.4
20°	3099.3	2678.7	2260.0	1860.0	1512.3	1233.8	1016.9	837.5	678.6	544.0	420.6
17.5°	3183.5	2766.6	2340.4	1927.3	1560.9	1267.4	1039.3	856.2	691.7	553.3	428.1
15°	3258.2	2841.4	2407.7	1985.2	1603.9	1295.4	1059.9	871.1	702.9	558.9	437.4
12.5°	3321.8	2904.9	2465.6	2035.7	1641.3	1319.7	1076.7	882.3	712.2	564.5	443.0
10°	3374.1	2955.4	2514.2	2075.0	1671.2	1338.4	1089.8	893.5	719.7	570.1	448.6
7.5°	3413.4	2992.8	2549.8	2108.6	1695.5	1351.5	1101.0	901.0	727.2	573.9	458.0
5°	3443.3	3024.6	2577.8	2131.0	1714.2	1370.2	1114.1	910.4	734.6	577.6	458.0
2.5°	3465.7	3050.7	2600.2	2149.7	1729.1	1366.5	1114.1	908.5	734.6	577.6	456.1
0°	3462.0	3052.6	2598.4	2149.7	1729.1	1362.7	1114.1	906.6	734.6	577.6	456.1



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 CATALOG NUMBER: EPH-VN-03-E-930-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.1	9.3	3.7	0.0
85°	28.0	18.7	9.3	0.0
82.5°	41.1	26.2	13.1	0.0
80°	54.2	35.5	16.8	0.0
77.5°	69.2	44.9	22.4	0.0
75°	82.3	52.3	26.2	0.0
72.5°	95.3	61.7	29.9	0.0
70°	106.6	69.2	33.6	0.0
67.5°	117.8	78.5	39.3	0.0
65°	127.1	86.0	43.0	0.0
62.5°	134.6	95.3	46.7	0.0
60°	143.9	102.8	50.5	0.0
57.5°	151.4	108.4	54.2	0.0
55°	158.9	112.2	57.9	0.0
52.5°	166.4	117.8	61.7	0.0
50°	173.8	123.4	65.4	0.0
47.5°	181.3	127.1	67.3	0.0
45°	192.5	132.7	71.0	0.0
42.5°	201.9	136.5	74.8	0.0
40°	211.2	140.2	76.6	0.0
37.5°	220.6	143.9	80.4	0.0
35°	229.9	147.7	82.3	0.0
32.5°	237.4	151.4	84.1	0.0
30°	244.9	155.2	86.0	0.0
27.5°	252.4	157.0	87.9	0.0
25°	258.0	160.8	89.7	0.0
22.5°	263.6	162.6	91.6	0.0
20°	267.3	164.5	93.5	0.0
17.5°	272.9	166.4	95.3	0.0
15°	274.8	168.2	99.1	0.0
12.5°	278.5	170.1	99.1	0.0
10°	280.4	172.0	99.1	0.0
7.5°	284.1	172.0	99.1	0.0
5°	282.3	172.0	99.1	0.0
2.5°	282.3	172.0	99.1	0.0
0°	280.4	172.0	99.1	0.0

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