

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: P623268

Luminaire Tested: **EPH-VN-06-E-940-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623268  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-940-U-33  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens  
Light Source: (96) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	39784 lumens	Max Intensity:	370196.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	85.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

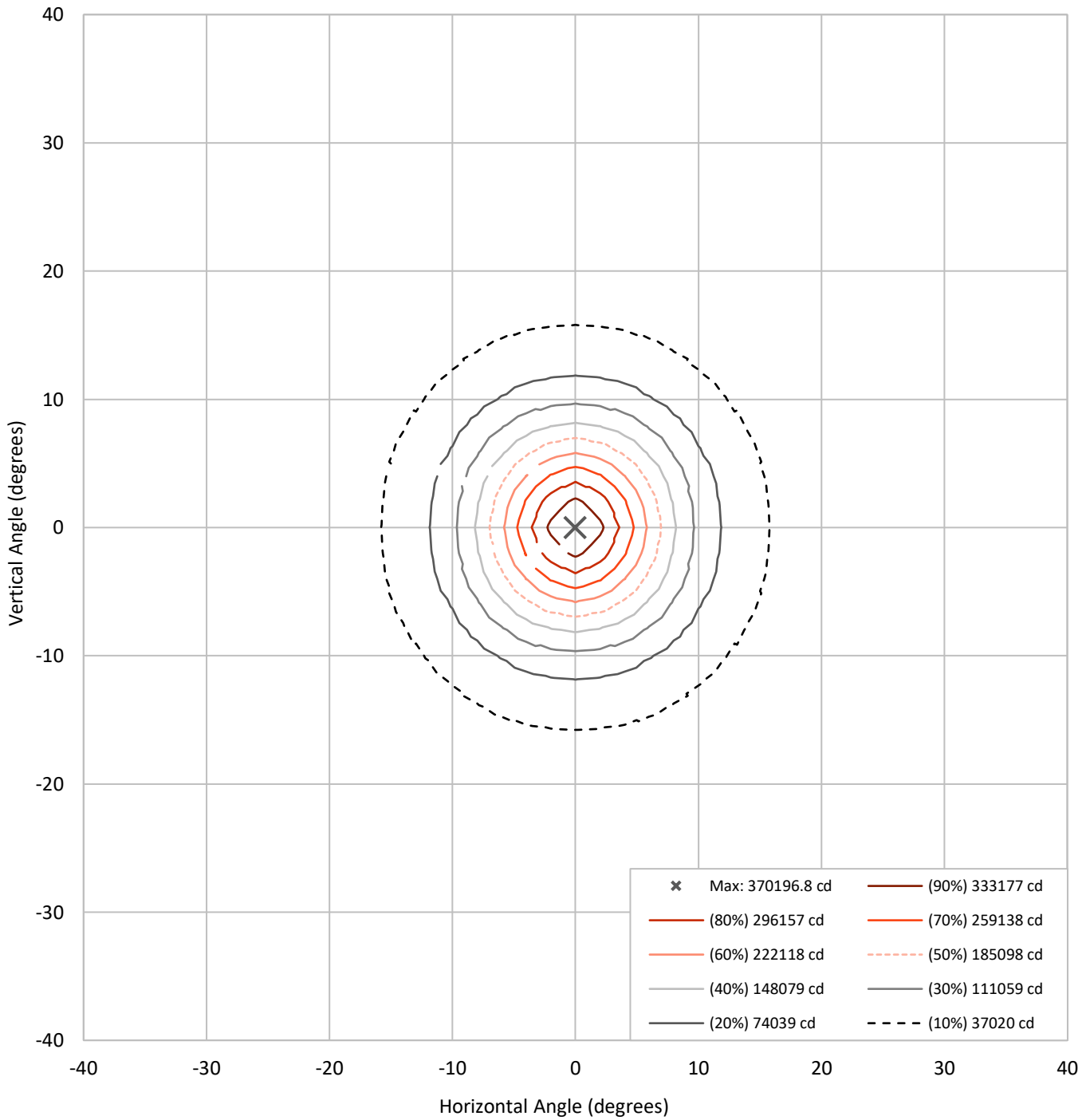
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	8699.6 lumens	Field Lumens:	20256.5 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 464.2  
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



REPORT NUMBER: P623268  
CATALOG NUMBER: EPH-VN-06-E-940-U-33

### Iso-Candela Plot





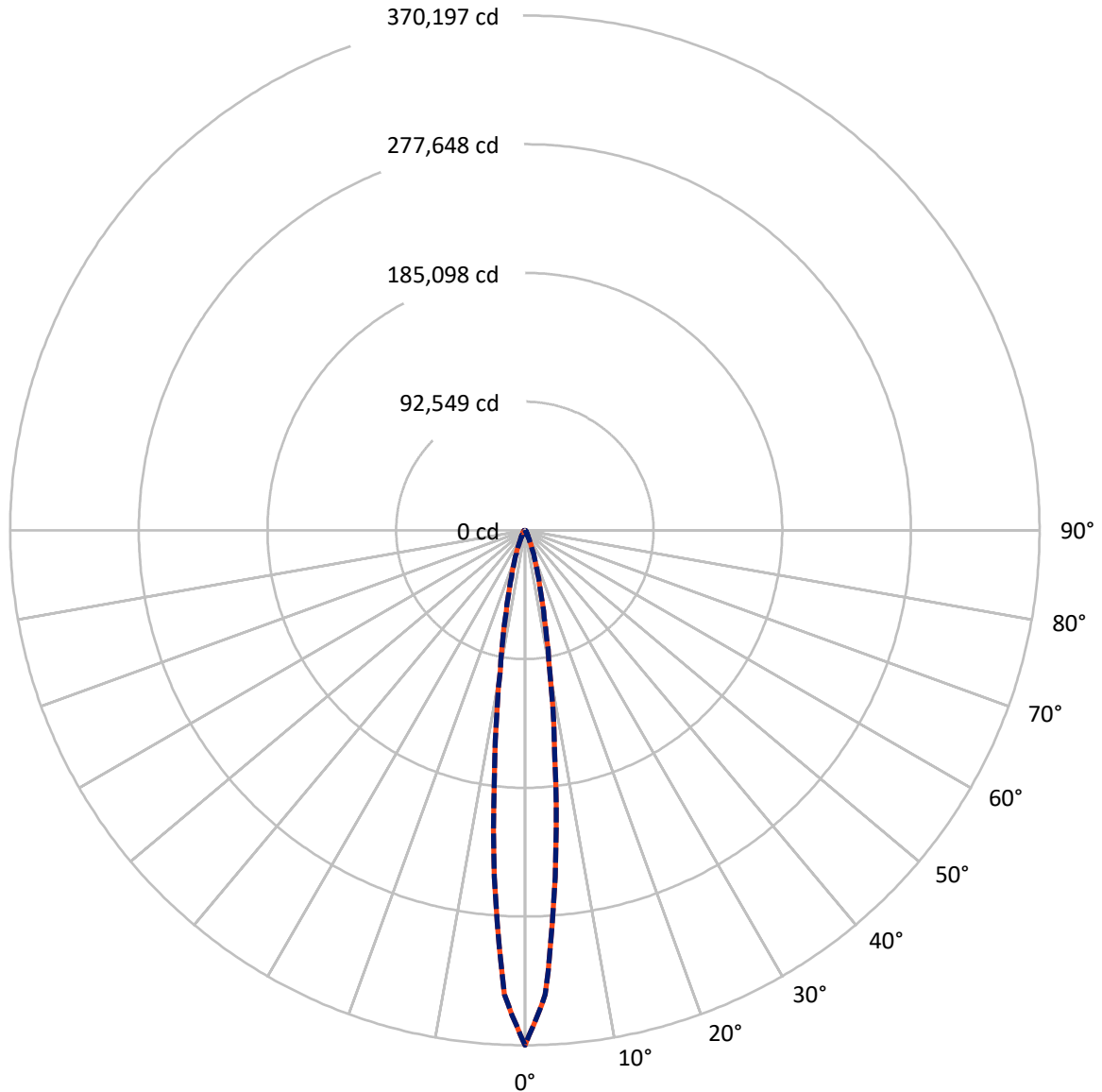
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 CATALOG NUMBER: EPH-VN-06-E-940-U-33

### Lumen Table

90	0.7	5.1		13.7		22.2		25.8		22.2		13.7		5.1		0.7
80	0.7	5.1		13.7		22.2		25.8		22.2		13.7		5.1		0.7
70	2.3	2.6	5.5	9.2	13.0	16.4	18.9	20.3	20.3	18.9	16.4	13.0	9.2	5.5	2.6	2.3
60		4.1	8.5	13.8	19.0	23.7	27.2	29.2	29.2	27.2	23.7	19.0	13.8	8.5	4.1	
50	4.3	5.5	11.2	17.7	24.4	31.4	38.0	42.1	42.1	38.0	31.4	24.4	17.7	11.2	5.5	4.3
40		6.8	13.4	21.1	31.0	44.3	60.6	74.5	74.5	60.6	44.3	31.0	21.1	13.4	6.8	
30	5.7	7.7	15.0	24.6	40.2	70.9	144.7	247.6	247.6	144.7	70.9	40.2	24.6	15.0	7.7	5.7
20		8.4	16.3	27.9	51.6	136.4	490.5	1218.1	1218.1	490.5	136.4	51.6	27.9	16.3	8.4	
10	6.3	8.7	16.9	30.1	61.7	227.2	1186.9	5211.4	5211.4	1186.9	227.2	61.7	30.1	16.9	8.7	6.3
0		8.7	16.9	30.1	61.7	227.2	1186.9	5211.4	5211.4	1186.9	227.2	61.7	30.1	16.9	8.7	
-10	5.7	8.4	16.3	27.9	51.6	136.4	490.5	1218.1	1218.1	490.5	136.4	51.6	27.9	16.3	8.4	5.7
-20		7.7	15.0	24.6	40.2	70.9	144.7	247.6	247.6	144.7	70.9	40.2	24.6	15.0	7.7	
-30	4.3	6.8	13.4	21.1	31.0	44.3	60.6	74.5	74.5	60.6	44.3	31.0	21.1	13.4	6.8	4.3
-40		5.5	11.2	17.7	24.4	31.4	38.0	42.1	42.1	38.0	31.4	24.4	17.7	11.2	5.5	
-50	2.3	4.1	8.5	13.8	19.0	23.7	27.2	29.2	29.2	27.2	23.7	19.0	13.8	8.5	4.1	2.3
-60		2.6	5.5	9.2	13.0	16.4	18.9	20.3	20.3	18.9	16.4	13.0	9.2	5.5	2.6	
-70	0.7	5.1		13.7		22.2		25.8		22.2		13.7		5.1		0.7
-80		5.1		13.7		22.2		25.8		22.2		13.7		5.1		
-90	0.7	5.1		13.7		22.2		25.8		22.2		13.7		5.1		0.7

REPORT NUMBER: P623268  
CATALOG NUMBER: EPH-VN-06-E-940-U-33

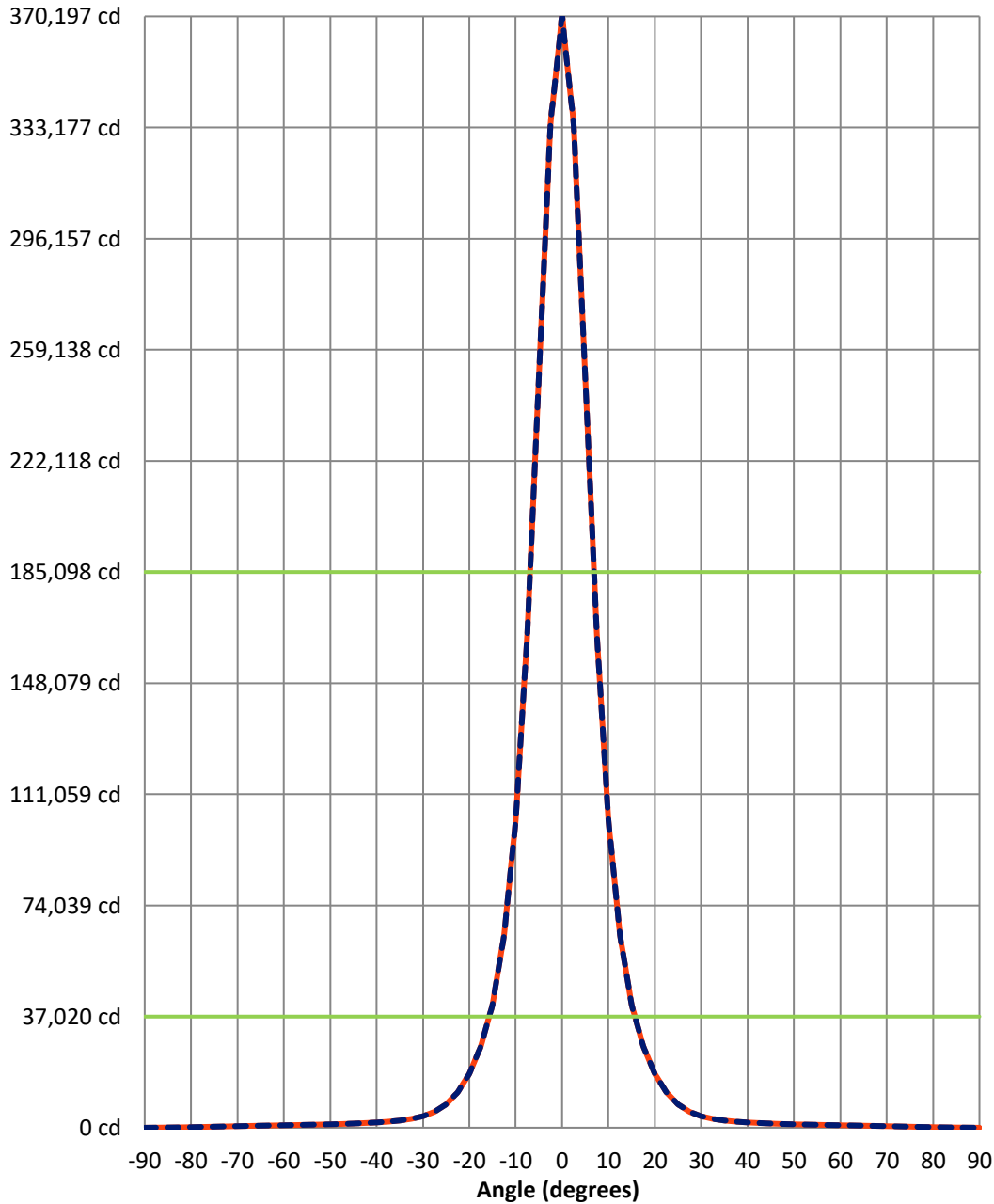
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P623268  
CATALOG NUMBER: EPH-VN-06-E-940-U-33

### Luminous Intensity Plot



**Beam:**  
H Angle: 13.8°  
V Angle: 13.8°  
Lumens: 8699.6  
Efficiency: 21.9%

**Field:**  
H Angle: 31.4°  
V Angle: 31.4°  
Lumens: 20256.5  
Efficiency: 50.9%

**Spill:**  
Lumens: 19527.6  
Efficiency: 49.1%

— Vertical Distribution through 0-Deg  
- - Horizontal Distribution through 0-Deg



REPORT NUMBER: P623268  
 CATALOG NUMBER: EPH-VN-06-E-940-U-33

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°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	29.0	29.0
85°	74.5	74.5	74.5	74.5	74.5	74.5	70.4	70.4	70.4	66.2	66.2
82.5°	124.2	124.2	124.2	124.2	120.0	120.0	120.0	115.9	115.9	111.7	111.7
80°	190.4	190.4	190.4	190.4	186.2	182.1	182.1	178.0	173.8	169.7	165.6
77.5°	260.7	260.7	260.7	256.6	256.6	252.5	248.3	244.2	240.1	231.8	227.6
75°	343.5	343.5	343.5	339.4	335.2	331.1	327.0	318.7	314.6	306.3	298.0
72.5°	430.4	430.4	430.4	426.3	422.2	413.9	409.7	401.5	393.2	380.8	372.5
70°	513.2	513.2	513.2	509.1	500.8	496.7	488.4	480.1	471.8	459.4	447.0
67.5°	596.0	596.0	596.0	587.7	583.6	579.4	571.2	558.7	550.5	538.1	521.5
65°	674.6	674.6	670.5	666.4	662.2	653.9	645.7	637.4	625.0	612.6	596.0
62.5°	753.3	753.3	749.1	745.0	740.9	732.6	720.2	711.9	695.3	682.9	666.4
60°	819.5	819.5	815.4	811.2	807.1	798.8	790.5	778.1	765.7	753.3	736.7
57.5°	889.9	889.9	885.7	881.6	873.3	865.0	856.7	844.3	827.8	811.2	798.8
55°	968.5	968.5	964.4	956.1	947.8	939.5	927.1	910.6	894.0	877.4	856.7
52.5°	1043.0	1043.0	1038.9	1030.6	1022.3	1014.0	997.5	985.1	964.4	943.7	918.8
50°	1134.0	1134.0	1125.8	1117.5	1109.2	1092.7	1076.1	1055.4	1034.7	1009.9	989.2
47.5°	1237.5	1237.5	1229.2	1221.0	1204.4	1187.9	1163.0	1138.2	1113.4	1084.4	1051.3
45°	1382.4	1382.4	1370.0	1353.4	1332.7	1303.7	1270.6	1237.5	1200.3	1167.2	1129.9
42.5°	1560.4	1560.4	1543.8	1523.1	1494.1	1456.9	1411.4	1365.8	1316.2	1262.4	1212.7
40°	1746.6	1746.6	1725.9	1705.2	1672.1	1626.6	1576.9	1519.0	1456.9	1386.5	1324.4
37.5°	2003.2	2003.2	1974.2	1937.0	1887.3	1825.2	1750.7	1684.5	1614.2	1535.5	1452.7
35°	2384.0	2384.0	2338.5	2276.4	2197.7	2094.3	1982.5	1887.3	1779.7	1684.5	1593.5
32.5°	2946.9	2946.9	2868.2	2777.2	2644.7	2479.2	2317.8	2164.6	2003.2	1866.6	1734.2
30°	3832.6	3832.6	3700.1	3534.6	3311.1	3025.5	2785.5	2537.1	2301.2	2102.5	1920.4
27.5°	5306.0	5243.9	5061.8	4759.7	4345.8	3832.6	3464.2	3046.2	2715.1	2392.3	2156.3
25°	7789.3	7673.5	7329.9	6762.9	5997.2	5148.8	4478.3	3766.4	3261.4	2802.0	2433.7
22.5°	11824.7	11613.7	10984.6	9958.1	8571.6	7214.0	5976.5	4879.7	3977.5	3335.9	2802.0
20°	17966.8	17598.5	16514.1	14759.2	12391.8	10293.4	8087.3	6460.8	5016.3	3977.5	3261.4
17.5°	27196.5	26559.1	24692.5	21683.5	17966.8	14548.1	11187.4	8509.5	6460.8	4879.7	3766.4
15°	41003.8	39886.3	36624.8	31438.8	25483.0	20061.1	15289.0	11187.4	8087.3	5976.5	4478.3
12.5°	64185.5	61925.7	55394.6	45208.8	35714.3	26803.3	20061.1	14548.1	10293.4	7214.0	5148.8
10°	102486.6	97818.0	84577.7	64537.4	49293.9	35714.3	25483.0	17966.8	12391.8	8571.6	5997.2
7.5°	164569.6	154549.4	127170.8	93426.6	64537.4	45208.8	31438.8	21683.5	14759.2	9958.1	6762.9
5°	250198.6	230034.1	179415.7	127170.8	84577.7	55394.6	36624.8	24692.5	16514.1	10984.6	7329.9
2.5°	334151.4	299397.4	230034.1	154549.4	97818.0	61925.7	39886.3	26559.1	17598.5	11613.7	7673.5
0°	370196.8	334151.4	250198.6	164569.6	102486.6	64185.5	41003.8	27196.5	17966.8	11824.7	7789.3



REPORT NUMBER: P623268  
 CATALOG NUMBER: EPH-VN-06-E-940-U-33

**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°	29.0	29.0	29.0	29.0	24.8	24.8	24.8	24.8	20.7	20.7	20.7
85°	66.2	62.1	62.1	57.9	57.9	53.8	53.8	49.7	49.7	45.5	41.4
82.5°	107.6	103.5	99.3	95.2	95.2	91.1	86.9	78.6	74.5	70.4	66.2
80°	161.4	153.1	149.0	140.7	136.6	128.3	120.0	115.9	107.6	103.5	95.2
77.5°	219.4	211.1	206.9	194.5	186.2	178.0	169.7	157.3	149.0	136.6	124.2
75°	285.6	277.3	264.9	252.5	244.2	231.8	219.4	206.9	190.4	178.0	165.6
72.5°	360.1	347.7	335.2	318.7	302.1	289.7	269.0	252.5	240.1	223.5	206.9
70°	434.6	422.2	405.6	389.1	368.4	351.8	331.1	310.4	289.7	269.0	248.3
67.5°	509.1	492.5	476.0	455.3	434.6	413.9	393.2	368.4	343.5	318.7	293.9
65°	579.4	562.9	542.2	521.5	500.8	476.0	451.1	426.3	397.3	368.4	343.5
62.5°	649.8	629.1	608.4	587.7	562.9	538.1	513.2	480.1	451.1	422.2	389.1
60°	716.0	695.3	674.6	649.8	625.0	596.0	567.0	538.1	504.9	471.8	438.7
57.5°	778.1	757.4	736.7	707.7	682.9	653.9	620.8	591.9	554.6	521.5	484.2
55°	836.1	815.4	790.5	765.7	740.9	707.7	674.6	641.5	604.3	567.0	525.6
52.5°	894.0	869.2	844.3	819.5	790.5	761.6	728.4	691.2	653.9	612.6	571.2
50°	960.2	931.2	898.1	869.2	836.1	807.1	774.0	736.7	699.5	653.9	612.6
47.5°	1022.3	993.3	960.2	923.0	889.9	852.6	815.4	782.2	740.9	699.5	653.9
45°	1092.7	1051.3	1018.2	980.9	939.5	898.1	860.9	819.5	782.2	736.7	691.2
42.5°	1167.2	1121.6	1076.1	1030.6	993.3	947.8	902.3	860.9	815.4	774.0	728.4
40°	1254.1	1200.3	1142.3	1092.7	1043.0	997.5	947.8	898.1	852.6	807.1	761.6
37.5°	1365.8	1291.3	1216.8	1154.7	1096.8	1043.0	993.3	939.5	889.9	836.1	790.5
35°	1498.3	1394.8	1307.9	1221.0	1154.7	1092.7	1030.6	980.9	923.0	869.2	819.5
32.5°	1630.7	1519.0	1407.2	1307.9	1216.8	1142.3	1076.1	1018.2	960.2	898.1	844.3
30°	1767.3	1643.1	1519.0	1394.8	1291.3	1200.3	1121.6	1051.3	993.3	931.2	869.2
27.5°	1941.1	1767.3	1630.7	1498.3	1365.8	1254.1	1167.2	1092.7	1022.3	960.2	894.0
25°	2156.3	1920.4	1734.2	1593.5	1452.7	1324.4	1212.7	1129.9	1051.3	989.2	918.8
22.5°	2392.3	2102.5	1866.6	1684.5	1535.5	1386.5	1262.4	1167.2	1084.4	1009.9	943.7
20°	2715.1	2301.2	2003.2	1779.7	1614.2	1456.9	1316.2	1200.3	1113.4	1034.7	964.4
17.5°	3046.2	2537.1	2164.6	1887.3	1684.5	1519.0	1365.8	1237.5	1138.2	1055.4	985.1
15°	3464.2	2785.5	2317.8	1982.5	1750.7	1576.9	1411.4	1270.6	1163.0	1076.1	997.5
12.5°	3832.6	3025.5	2479.2	2094.3	1825.2	1626.6	1456.9	1303.7	1187.9	1092.7	1014.0
10°	4345.8	3311.1	2644.7	2197.7	1887.3	1672.1	1494.1	1332.7	1204.4	1109.2	1022.3
7.5°	4759.7	3534.6	2777.2	2276.4	1937.0	1705.2	1523.1	1353.4	1221.0	1117.5	1030.6
5°	5061.8	3700.1	2868.2	2338.5	1974.2	1725.9	1543.8	1370.0	1229.2	1125.8	1038.9
2.5°	5243.9	3832.6	2946.9	2384.0	2003.2	1746.6	1560.4	1382.4	1237.5	1134.0	1043.0
0°	5306.0	3832.6	2946.9	2384.0	2003.2	1746.6	1560.4	1382.4	1237.5	1134.0	1043.0





REPORT NUMBER: P623268  
 CATALOG NUMBER: EPH-VN-06-E-940-U-33

**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°	20.7	16.6	16.6	16.6	12.4	12.4	12.4	8.3	8.3	8.3	4.1
85°	37.2	37.2	33.1	29.0	29.0	24.8	20.7	20.7	16.6	12.4	12.4
82.5°	62.1	57.9	53.8	49.7	45.5	37.2	33.1	29.0	24.8	20.7	16.6
80°	86.9	82.8	74.5	66.2	62.1	53.8	49.7	41.4	33.1	29.0	24.8
77.5°	115.9	107.6	99.3	91.1	78.6	70.4	62.1	53.8	45.5	37.2	29.0
75°	153.1	136.6	124.2	111.7	99.3	86.9	74.5	66.2	53.8	45.5	33.1
72.5°	190.4	173.8	153.1	136.6	120.0	107.6	91.1	78.6	66.2	53.8	41.4
70°	227.6	206.9	186.2	165.6	144.9	124.2	107.6	91.1	74.5	62.1	49.7
67.5°	264.9	244.2	219.4	194.5	173.8	149.0	124.2	107.6	86.9	70.4	53.8
65°	310.4	281.4	252.5	227.6	198.7	173.8	144.9	120.0	99.3	78.6	62.1
62.5°	355.9	322.8	289.7	256.6	227.6	194.5	165.6	136.6	111.7	91.1	66.2
60°	401.5	364.2	327.0	289.7	252.5	219.4	186.2	153.1	124.2	99.3	74.5
57.5°	447.0	405.6	364.2	322.8	281.4	244.2	206.9	173.8	136.6	107.6	82.8
55°	488.4	447.0	401.5	355.9	310.4	264.9	227.6	190.4	153.1	115.9	86.9
52.5°	525.6	484.2	438.7	389.1	343.5	293.9	248.3	206.9	165.6	124.2	95.2
50°	567.0	521.5	471.8	422.2	368.4	318.7	269.0	223.5	178.0	136.6	103.5
47.5°	604.3	554.6	504.9	451.1	397.3	343.5	289.7	240.1	190.4	149.0	107.6
45°	641.5	591.9	538.1	480.1	426.3	368.4	310.4	252.5	206.9	157.3	115.9
42.5°	674.6	620.8	567.0	513.2	451.1	393.2	331.1	269.0	219.4	169.7	120.0
40°	707.7	653.9	596.0	538.1	476.0	413.9	351.8	289.7	231.8	178.0	128.3
37.5°	740.9	682.9	625.0	562.9	500.8	434.6	368.4	302.1	244.2	186.2	136.6
35°	765.7	707.7	649.8	587.7	521.5	455.3	389.1	318.7	252.5	194.5	140.7
32.5°	790.5	736.7	674.6	608.4	542.2	476.0	405.6	335.2	264.9	206.9	149.0
30°	815.4	757.4	695.3	629.1	562.9	492.5	422.2	347.7	277.3	211.1	153.1
27.5°	836.1	778.1	716.0	649.8	579.4	509.1	434.6	360.1	285.6	219.4	161.4
25°	856.7	798.8	736.7	666.4	596.0	521.5	447.0	372.5	298.0	227.6	165.6
22.5°	877.4	811.2	753.3	682.9	612.6	538.1	459.4	380.8	306.3	231.8	169.7
20°	894.0	827.8	765.7	695.3	625.0	550.5	471.8	393.2	314.6	240.1	173.8
17.5°	910.6	844.3	778.1	711.9	637.4	558.7	480.1	401.5	318.7	244.2	178.0
15°	927.1	856.7	790.5	720.2	645.7	571.2	488.4	409.7	327.0	248.3	182.1
12.5°	939.5	865.0	798.8	732.6	653.9	579.4	496.7	413.9	331.1	252.5	182.1
10°	947.8	873.3	807.1	740.9	662.2	583.6	500.8	422.2	335.2	256.6	186.2
7.5°	956.1	881.6	811.2	745.0	666.4	587.7	509.1	426.3	339.4	256.6	190.4
5°	964.4	885.7	815.4	749.1	670.5	596.0	513.2	430.4	343.5	260.7	190.4
2.5°	968.5	889.9	819.5	753.3	674.6	596.0	513.2	430.4	343.5	260.7	190.4
0°	968.5	889.9	819.5	753.3	674.6	596.0	513.2	430.4	343.5	260.7	190.4



REPORT NUMBER: P623268  
 CATALOG NUMBER: EPH-VN-06-E-940-U-33

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	0.0	0.0
85°	8.3	4.1	4.1	0.0
82.5°	12.4	8.3	4.1	0.0
80°	16.6	12.4	4.1	0.0
77.5°	20.7	12.4	8.3	0.0
75°	24.8	16.6	8.3	0.0
72.5°	29.0	20.7	8.3	0.0
70°	33.1	20.7	12.4	0.0
67.5°	37.2	24.8	12.4	0.0
65°	45.5	29.0	12.4	0.0
62.5°	49.7	29.0	16.6	0.0
60°	53.8	33.1	16.6	0.0
57.5°	57.9	37.2	16.6	0.0
55°	62.1	37.2	20.7	0.0
52.5°	66.2	41.4	20.7	0.0
50°	70.4	45.5	20.7	0.0
47.5°	74.5	49.7	20.7	0.0
45°	78.6	49.7	24.8	0.0
42.5°	86.9	53.8	24.8	0.0
40°	91.1	53.8	24.8	0.0
37.5°	95.2	57.9	24.8	0.0
35°	95.2	57.9	29.0	0.0
32.5°	99.3	62.1	29.0	0.0
30°	103.5	62.1	29.0	0.0
27.5°	107.6	66.2	29.0	0.0
25°	111.7	66.2	29.0	0.0
22.5°	111.7	66.2	29.0	0.0
20°	115.9	70.4	33.1	0.0
17.5°	115.9	70.4	33.1	0.0
15°	120.0	70.4	33.1	0.0
12.5°	120.0	74.5	33.1	0.0
10°	120.0	74.5	33.1	0.0
7.5°	124.2	74.5	33.1	0.0
5°	124.2	74.5	33.1	0.0
2.5°	124.2	74.5	33.1	0.0
0°	124.2	74.5	33.1	0.0

(END OF REPORT)