

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: P624140

Luminaire Tested: **EPH-VN-06-E-740-U-55**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624140  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-E-740-U-55  
Description: EPHEBUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

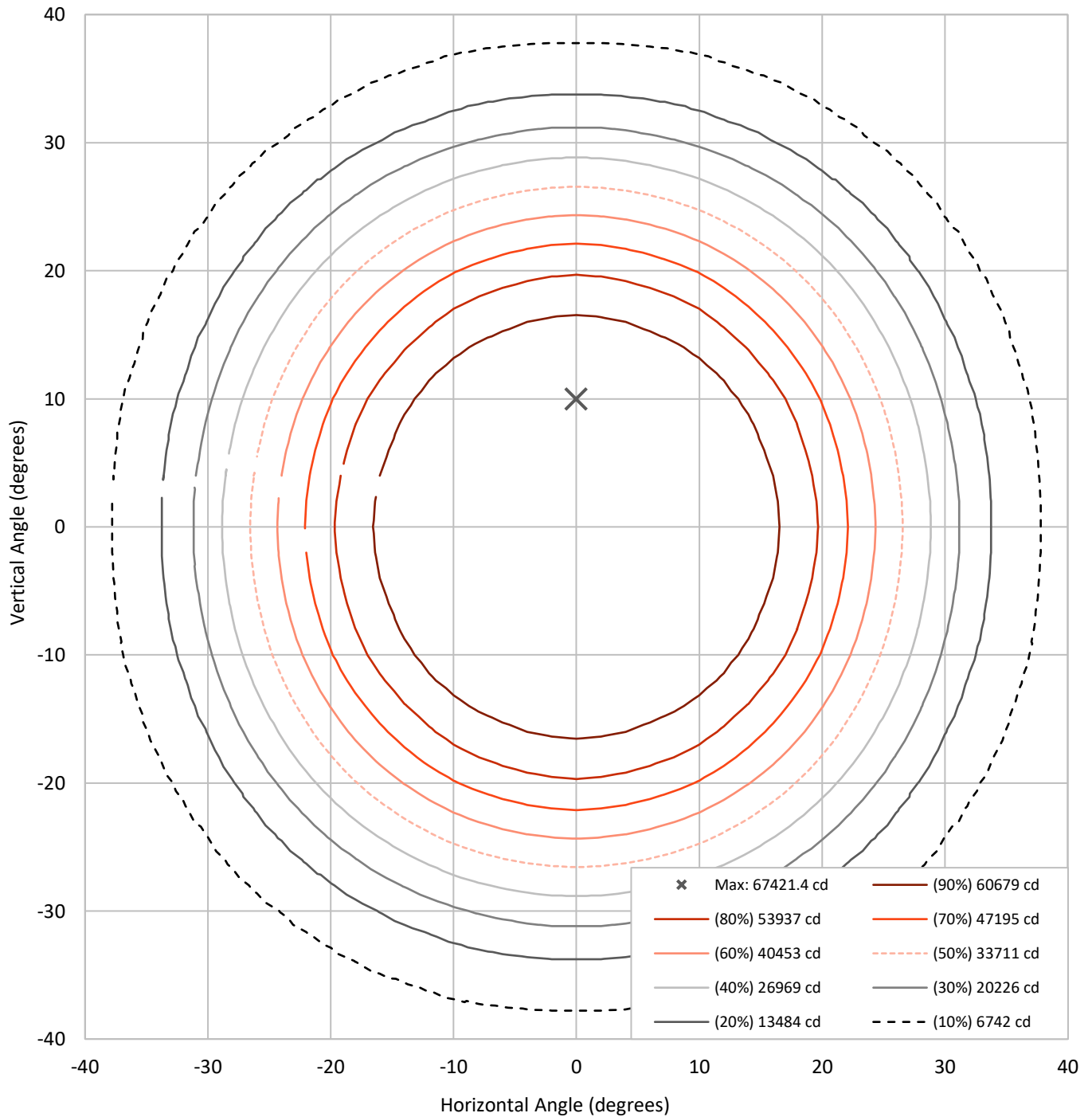
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	55171.1 lumens	Max Intensity:	67421.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	118.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	27421.4 lumens	Field Lumens:	35662.4 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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



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### Iso-Candela Plot





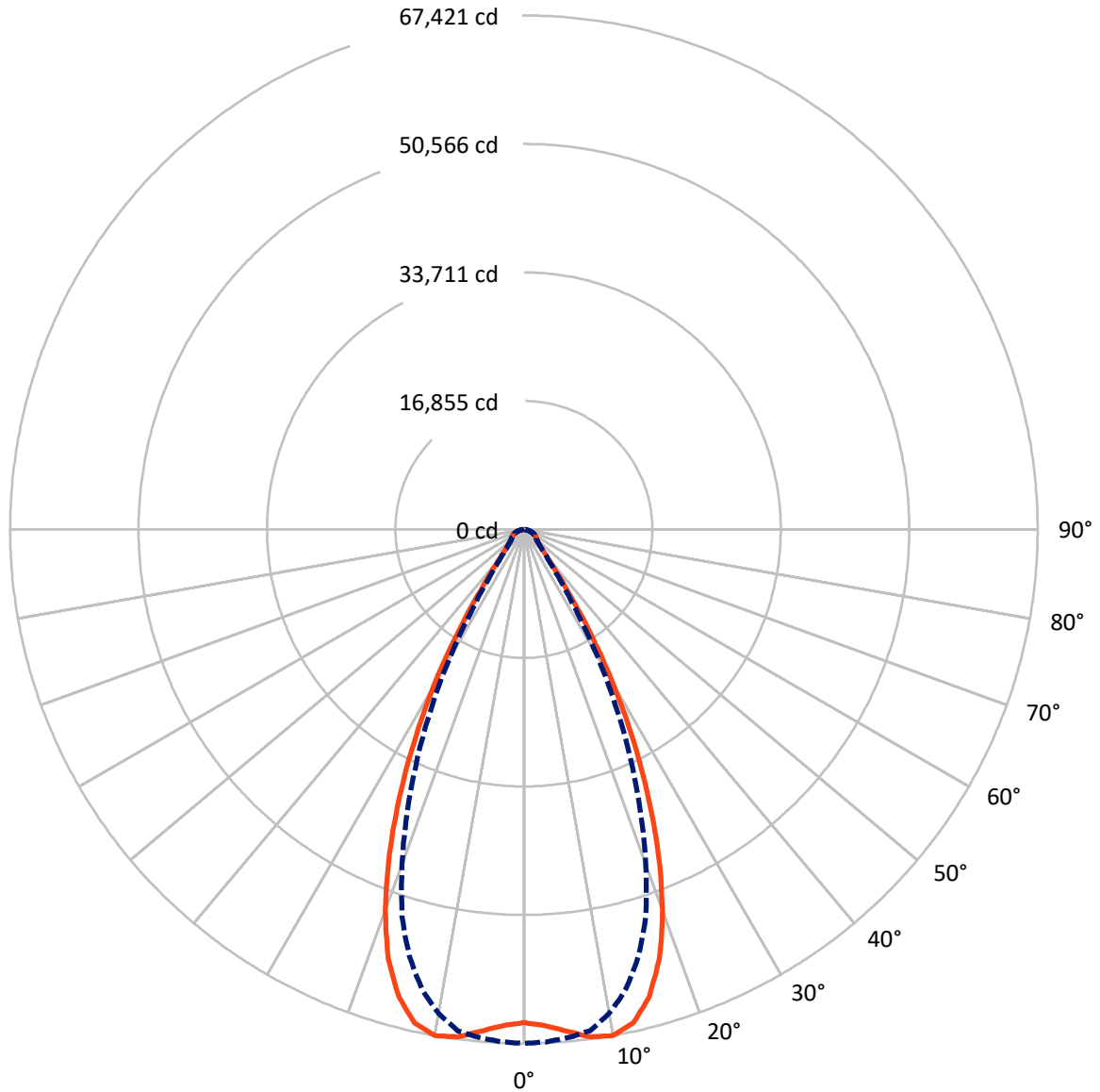
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### Lumen Table

90	1.6	12.1	31.5	50.9	59.0	50.9	31.5	12.1	1.6							
80	1.6	12.1	31.5	50.9	59.0	50.9	31.5	12.1	1.6							
70	5.5	6.0	12.5	20.6	28.9	36.2	41.4	44.2	44.2	41.4	36.2	28.9	20.6	12.5	6.0	5.5
60		9.3	19.1	30.3	40.6	49.4	56.1	59.8	59.8	56.1	49.4	40.6	30.3	19.1	9.3	
50	9.8	12.5	24.6	37.2	49.9	64.6	81.8	95.1	95.1	81.8	64.6	49.9	37.2	24.6	12.5	9.8
40		15.1	28.6	43.2	65.4	116.6	227.8	343.5	343.5	227.8	116.6	65.4	43.2	28.6	15.1	
30	13.0	17.1	31.4	50.6	105.8	337.1	781.1	1108.6	1108.6	781.1	337.1	105.8	50.6	31.4	17.1	13.0
20		18.3	33.5	60.3	195.3	735.7	1439.5	1835.1	1835.1	1439.5	735.7	195.3	60.3	33.5	18.3	
10	14.2	19.0	34.6	68.1	286.6	1013.5	1780.8	2019.5	2019.5	1780.8	1013.5	286.6	68.1	34.6	19.0	14.2
0		19.0	34.6	68.1	286.6	1013.5	1780.8	2019.5	2019.5	1780.8	1013.5	286.6	68.1	34.6	19.0	
-10	13.0	18.3	33.5	60.3	195.3	735.7	1439.5	1835.1	1835.1	1439.5	735.7	195.3	60.3	33.5	18.3	13.0
-20		17.1	31.4	50.6	105.8	337.1	781.1	1108.6	1108.6	781.1	337.1	105.8	50.6	31.4	17.1	
-30	9.8	15.1	28.6	43.2	65.4	116.6	227.8	343.5	343.5	227.8	116.6	65.4	43.2	28.6	15.1	9.8
-40		12.5	24.6	37.2	49.9	64.6	81.8	95.1	95.1	81.8	64.6	49.9	37.2	24.6	12.5	
-50	5.5	9.3	19.1	30.3	40.6	49.4	56.1	59.8	59.8	56.1	49.4	40.6	30.3	19.1	9.3	5.5
-60		6.0	12.5	20.6	28.9	36.2	41.4	44.2	44.2	41.4	36.2	28.9	20.6	12.5	6.0	
-70	1.6	12.1	31.5	50.9	59.0	50.9	31.5	12.1	1.6							
-80		1.6	12.1	31.5	50.9	59.0	50.9	31.5	12.1	1.6						
-90	1.6	12.1	31.5	50.9	59.0	50.9	31.5	12.1	1.6							

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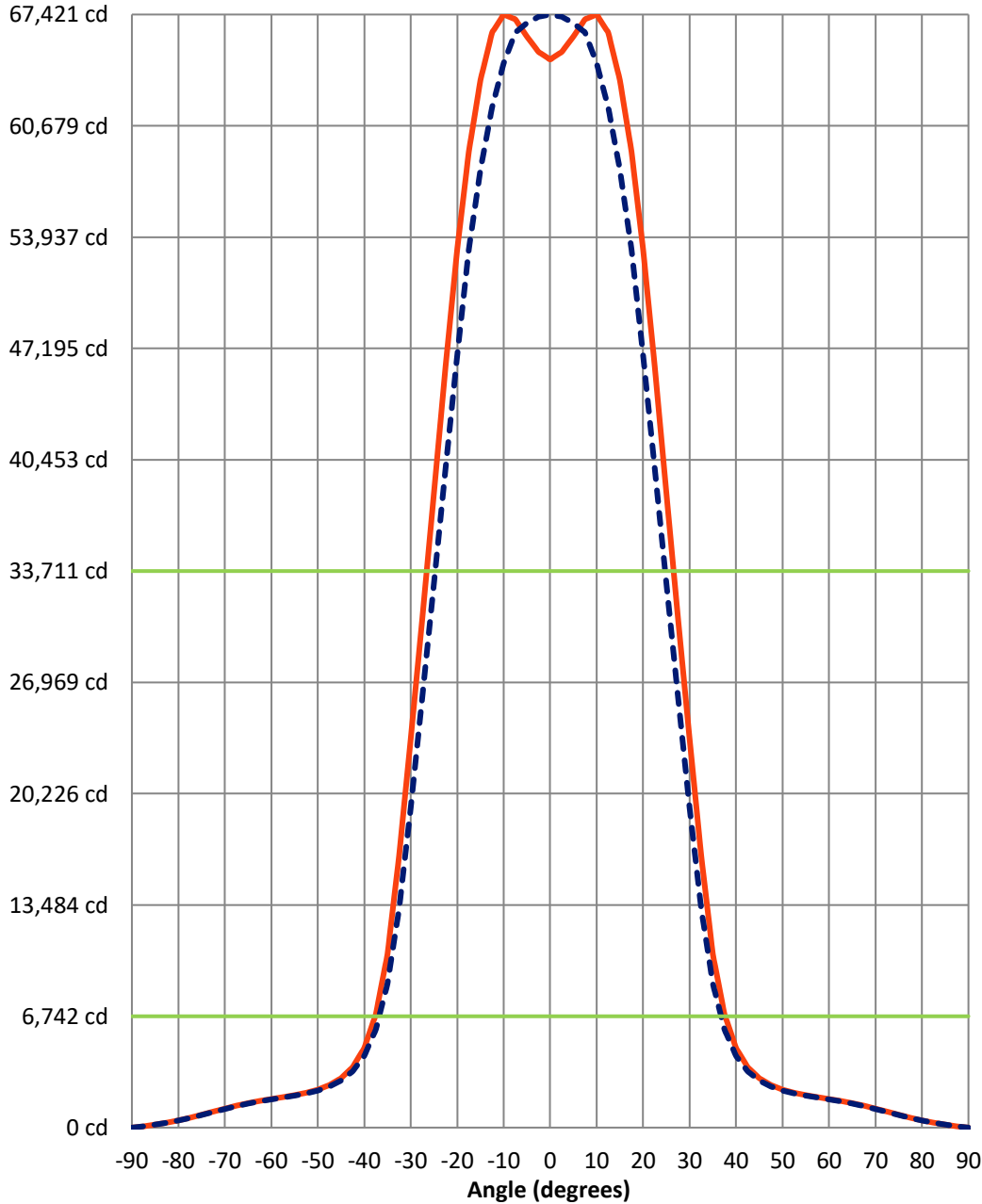
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 10-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 49.5°  
 V Angle: 53.1°  
 Lumens: 27421.4  
 Efficiency: 49.7%

**Field:**  
 H Angle: 73.6°  
 V Angle: 75.3°  
 Lumens: 35662.4  
 Efficiency: 64.6%

**Spill:**  
 Lumens: 19508.7  
 Efficiency: 35.4%

- Vertical Distribution through 0-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°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	68.8	68.8	68.8	68.8
85°	183.4	183.4	183.4	183.4	183.4	177.7	177.7	171.9	171.9	166.2	160.5
82.5°	298.0	298.0	298.0	298.0	292.3	292.3	286.6	280.8	275.1	269.4	263.6
80°	435.6	435.6	435.6	435.6	429.8	424.1	418.4	412.6	401.2	395.5	384.0
77.5°	596.0	596.0	596.0	590.3	584.6	578.8	567.4	555.9	544.5	533.0	521.5
75°	779.4	779.4	779.4	768.0	762.2	750.8	739.3	727.9	710.7	693.5	676.3
72.5°	968.6	968.6	968.6	957.1	945.6	934.2	922.7	905.5	888.3	865.4	842.5
70°	1146.2	1146.2	1146.2	1134.8	1123.3	1111.8	1094.7	1077.5	1054.5	1031.6	1008.7
67.5°	1329.6	1329.6	1329.6	1312.4	1301.0	1289.5	1272.3	1249.4	1226.5	1197.8	1169.2
65°	1478.6	1478.6	1472.9	1467.2	1455.7	1438.5	1427.1	1404.1	1381.2	1358.3	1329.6
62.5°	1616.2	1616.2	1610.5	1604.7	1593.3	1576.1	1558.9	1541.7	1518.8	1490.1	1461.4
60°	1730.8	1730.8	1725.1	1719.3	1707.9	1696.4	1679.2	1662.0	1639.1	1616.2	1587.5
57.5°	1845.4	1845.4	1839.7	1834.0	1822.5	1805.3	1788.1	1770.9	1748.0	1719.3	1690.7
55°	1965.8	1965.8	1960.1	1948.6	1937.1	1919.9	1902.7	1879.8	1851.2	1822.5	1793.9
52.5°	2109.1	2109.1	2097.6	2086.1	2068.9	2051.8	2023.1	1994.4	1960.1	1925.7	1891.3
50°	2298.2	2298.2	2286.7	2269.5	2240.9	2212.2	2177.8	2132.0	2091.9	2046.0	2000.2
47.5°	2579.0	2579.0	2556.1	2527.4	2487.3	2441.5	2378.4	2309.7	2252.3	2195.0	2126.3
45°	2991.7	2991.7	2957.3	2911.4	2848.4	2768.2	2676.5	2579.0	2481.6	2384.2	2286.7
42.5°	3662.2	3662.2	3599.2	3518.9	3410.0	3272.5	3100.6	2940.1	2802.5	2647.8	2516.0
40°	4819.9	4819.9	4699.6	4550.5	4344.2	4080.6	3765.4	3513.2	3272.5	3003.1	2819.7
37.5°	6877.4	6877.4	6642.4	6355.9	5954.7	5450.3	4842.8	4435.9	3988.9	3564.8	3255.3
35°	10510.9	10510.9	10058.2	9502.3	8728.6	7754.3	6716.9	5948.9	5095.0	4441.7	3862.8
32.5°	16471.4	16471.4	15657.5	14654.6	13273.4	11525.4	9863.3	8401.9	6877.4	5794.2	4751.1
30°	23555.1	23555.1	22489.1	21176.6	19377.1	17107.5	14740.5	12144.3	9737.2	7805.8	6229.8
27.5°	30879.5	30575.7	29658.8	28162.9	26111.2	23555.1	20603.5	17250.8	13995.5	10591.2	8338.8
25°	38456.1	38100.8	37052.0	35332.6	32982.8	30088.6	26764.5	23016.3	18998.8	14941.1	11043.9
22.5°	46112.9	45711.7	44519.7	42576.8	39940.5	36696.6	32931.3	28764.7	24277.2	19589.1	14941.1
20°	53190.9	52766.8	51517.4	49494.3	46766.3	43207.2	39023.5	34404.2	29441.0	24277.2	18998.8
17.5°	59116.9	58710.0	57506.5	55575.1	53190.9	49253.6	44903.6	39825.8	34404.2	28764.7	23016.3
15°	63444.0	63094.4	62068.5	60446.6	58016.5	54532.0	50101.8	44903.6	39023.5	32931.3	26764.5
12.5°	66315.3	66034.4	65226.3	63965.5	61787.7	58864.8	54532.0	49253.6	43207.2	36696.6	30088.6
10°	67421.4	67283.8	66905.6	66326.7	64469.8	61787.7	58016.5	53190.9	46766.3	39940.5	32982.8
7.5°	67129.1	67174.9	67306.8	67157.7	66326.7	63965.5	60446.6	55575.1	49494.3	42576.8	35332.6
5°	66086.0	66332.5	66945.7	67306.8	66905.6	65226.3	62068.5	57506.5	51517.4	44519.7	37052.0
2.5°	65157.6	65541.6	66332.5	67174.9	67283.8	66034.4	63094.4	58710.0	52766.8	45711.7	38100.8
0°	64699.1	65157.6	66086.0	67129.1	67421.4	66315.3	63444.0	59116.9	53190.9	46112.9	38456.1



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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°	68.8	63.0	63.0	63.0	57.3	57.3	57.3	51.6	51.6	45.8	45.8
85°	160.5	154.7	149.0	143.3	137.5	131.8	126.1	120.4	114.6	103.2	97.4
82.5°	257.9	252.2	246.4	235.0	229.2	217.8	206.3	194.9	183.4	177.7	166.2
80°	372.5	361.1	349.6	338.1	320.9	303.8	292.3	275.1	263.6	246.4	235.0
77.5°	504.3	487.1	470.0	447.0	429.8	412.6	389.7	372.5	349.6	326.7	303.8
75°	653.4	630.4	601.8	578.8	555.9	527.3	498.6	470.0	441.3	412.6	384.0
72.5°	813.8	785.2	756.5	727.9	693.5	653.4	619.0	578.8	544.5	510.1	470.0
70°	980.0	945.6	911.3	876.9	836.7	790.9	750.8	704.9	659.1	613.2	567.4
67.5°	1134.8	1100.4	1060.3	1025.9	980.0	934.2	882.6	831.0	779.4	722.1	664.8
65°	1295.2	1255.1	1209.3	1163.4	1117.6	1066.0	1014.4	962.8	899.8	836.7	779.4
62.5°	1427.1	1392.7	1352.6	1306.7	1255.1	1197.8	1146.2	1077.5	1014.4	951.4	876.9
60°	1553.1	1513.0	1478.6	1427.1	1381.2	1329.6	1266.6	1197.8	1129.0	1054.5	985.8
57.5°	1662.0	1627.6	1587.5	1541.7	1490.1	1438.5	1381.2	1318.2	1237.9	1163.4	1083.2
55°	1759.5	1719.3	1679.2	1639.1	1593.3	1536.0	1478.6	1415.6	1346.8	1266.6	1180.6
52.5°	1856.9	1816.8	1770.9	1730.8	1679.2	1627.6	1570.3	1507.3	1438.5	1364.0	1272.3
50°	1954.3	1908.5	1862.6	1811.0	1759.5	1707.9	1650.6	1593.3	1518.8	1444.3	1364.0
47.5°	2068.9	2011.6	1954.3	1897.0	1845.4	1782.4	1725.1	1662.0	1599.0	1518.8	1438.5
45°	2212.2	2126.3	2057.5	1988.7	1925.7	1862.6	1793.9	1730.8	1662.0	1593.3	1507.3
42.5°	2389.9	2275.3	2183.6	2091.9	2011.6	1937.1	1868.4	1793.9	1725.1	1650.6	1570.3
40°	2630.6	2475.9	2326.9	2212.2	2109.1	2017.4	1937.1	1862.6	1782.4	1707.9	1627.6
37.5°	2945.8	2728.0	2521.7	2355.5	2223.7	2109.1	2011.6	1925.7	1845.4	1759.5	1679.2
35°	3421.5	3043.2	2779.6	2538.9	2355.5	2212.2	2091.9	1988.7	1897.0	1811.0	1730.8
32.5°	4092.0	3507.5	3083.4	2779.6	2521.7	2326.9	2183.6	2057.5	1954.3	1862.6	1770.9
30°	4974.6	4166.6	3507.5	3043.2	2728.0	2475.9	2275.3	2126.3	2011.6	1908.5	1816.8
27.5°	6373.1	4974.6	4092.0	3421.5	2945.8	2630.6	2389.9	2212.2	2068.9	1954.3	1856.9
25°	8338.8	6229.8	4751.1	3862.8	3255.3	2819.7	2516.0	2286.7	2126.3	2000.2	1891.3
22.5°	10591.2	7805.8	5794.2	4441.7	3564.8	3003.1	2647.8	2384.2	2195.0	2046.0	1925.7
20°	13995.5	9737.2	6877.4	5095.0	3988.9	3272.5	2802.5	2481.6	2252.3	2091.9	1960.1
17.5°	17250.8	12144.3	8401.9	5948.9	4435.9	3513.2	2940.1	2579.0	2309.7	2132.0	1994.4
15°	20603.5	14740.5	9863.3	6716.9	4842.8	3765.4	3100.6	2676.5	2378.4	2177.8	2023.1
12.5°	23555.1	17107.5	11525.4	7754.3	5450.3	4080.6	3272.5	2768.2	2441.5	2212.2	2051.8
10°	26111.2	19377.1	13273.4	8728.6	5954.7	4344.2	3410.0	2848.4	2487.3	2240.9	2068.9
7.5°	28162.9	21176.6	14654.6	9502.3	6355.9	4550.5	3518.9	2911.4	2527.4	2269.5	2086.1
5°	29658.8	22489.1	15657.5	10058.2	6642.4	4699.6	3599.2	2957.3	2556.1	2286.7	2097.6
2.5°	30575.7	23555.1	16471.4	10510.9	6877.4	4819.9	3662.2	2991.7	2579.0	2298.2	2109.1
0°	30879.5	23555.1	16471.4	10510.9	6877.4	4819.9	3662.2	2991.7	2579.0	2298.2	2109.1





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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°	40.1	40.1	34.4	34.4	28.7	28.7	22.9	22.9	17.2	17.2	11.5
85°	91.7	80.2	74.5	68.8	63.0	57.3	51.6	45.8	40.1	34.4	28.7
82.5°	154.7	143.3	126.1	114.6	103.2	91.7	74.5	68.8	57.3	45.8	40.1
80°	217.8	200.6	183.4	166.2	149.0	131.8	114.6	97.4	80.2	63.0	51.6
77.5°	280.8	257.9	240.7	217.8	194.9	171.9	149.0	126.1	103.2	80.2	63.0
75°	355.3	326.7	298.0	269.4	240.7	212.1	189.1	160.5	131.8	103.2	80.2
72.5°	435.6	395.5	361.1	326.7	286.6	257.9	223.5	194.9	160.5	126.1	97.4
70°	521.5	475.7	429.8	384.0	343.9	298.0	263.6	223.5	189.1	149.0	114.6
67.5°	607.5	555.9	504.3	447.0	395.5	349.6	298.0	257.9	212.1	171.9	131.8
65°	710.7	641.9	578.8	515.8	452.8	395.5	343.9	286.6	240.7	194.9	149.0
62.5°	808.1	733.6	659.1	584.6	515.8	447.0	384.0	326.7	269.4	217.8	166.2
60°	905.5	825.3	739.3	659.1	578.8	504.3	429.8	361.1	298.0	240.7	183.4
57.5°	1003.0	911.3	825.3	733.6	641.9	555.9	475.7	395.5	326.7	257.9	200.6
55°	1088.9	1003.0	905.5	808.1	710.7	607.5	521.5	435.6	355.3	280.8	217.8
52.5°	1180.6	1083.2	985.8	876.9	779.4	664.8	567.4	470.0	384.0	303.8	235.0
50°	1266.6	1163.4	1054.5	951.4	836.7	722.1	613.2	510.1	412.6	326.7	246.4
47.5°	1346.8	1237.9	1129.0	1014.4	899.8	779.4	659.1	544.5	441.3	349.6	263.6
45°	1415.6	1318.2	1197.8	1077.5	962.8	831.0	704.9	578.8	470.0	372.5	275.1
42.5°	1478.6	1381.2	1266.6	1146.2	1014.4	882.6	750.8	619.0	498.6	389.7	292.3
40°	1536.0	1438.5	1329.6	1197.8	1066.0	934.2	790.9	653.4	527.3	412.6	303.8
37.5°	1593.3	1490.1	1381.2	1255.1	1117.6	980.0	836.7	693.5	555.9	429.8	320.9
35°	1639.1	1541.7	1427.1	1306.7	1163.4	1025.9	876.9	727.9	578.8	447.0	338.1
32.5°	1679.2	1587.5	1478.6	1352.6	1209.3	1060.3	911.3	756.5	601.8	470.0	349.6
30°	1719.3	1627.6	1513.0	1392.7	1255.1	1100.4	945.6	785.2	630.4	487.1	361.1
27.5°	1759.5	1662.0	1553.1	1427.1	1295.2	1134.8	980.0	813.8	653.4	504.3	372.5
25°	1793.9	1690.7	1587.5	1461.4	1329.6	1169.2	1008.7	842.5	676.3	521.5	384.0
22.5°	1822.5	1719.3	1616.2	1490.1	1358.3	1197.8	1031.6	865.4	693.5	533.0	395.5
20°	1851.2	1748.0	1639.1	1518.8	1381.2	1226.5	1054.5	888.3	710.7	544.5	401.2
17.5°	1879.8	1770.9	1662.0	1541.7	1404.1	1249.4	1077.5	905.5	727.9	555.9	412.6
15°	1902.7	1788.1	1679.2	1558.9	1427.1	1272.3	1094.7	922.7	739.3	567.4	418.4
12.5°	1919.9	1805.3	1696.4	1576.1	1438.5	1289.5	1111.8	934.2	750.8	578.8	424.1
10°	1937.1	1822.5	1707.9	1593.3	1455.7	1301.0	1123.3	945.6	762.2	584.6	429.8
7.5°	1948.6	1834.0	1719.3	1604.7	1467.2	1312.4	1134.8	957.1	768.0	590.3	435.6
5°	1960.1	1839.7	1725.1	1610.5	1472.9	1329.6	1146.2	968.6	779.4	596.0	435.6
2.5°	1965.8	1845.4	1730.8	1616.2	1478.6	1329.6	1146.2	968.6	779.4	596.0	435.6
0°	1965.8	1845.4	1730.8	1616.2	1478.6	1329.6	1146.2	968.6	779.4	596.0	435.6



REPORT NUMBER: P624140  
 CATALOG NUMBER: EPH-VN-06-E-740-U-55

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	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
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85°	17.2	11.5	5.7	0.0
82.5°	28.7	17.2	11.5	0.0
80°	40.1	28.7	11.5	0.0
77.5°	45.8	34.4	17.2	0.0
75°	57.3	40.1	17.2	0.0
72.5°	68.8	45.8	22.9	0.0
70°	74.5	51.6	22.9	0.0
67.5°	91.7	57.3	28.7	0.0
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37.5°	229.2	137.5	57.3	0.0
35°	235.0	143.3	63.0	0.0
32.5°	246.4	149.0	63.0	0.0
30°	252.2	154.7	63.0	0.0
27.5°	257.9	160.5	68.8	0.0
25°	263.6	160.5	68.8	0.0
22.5°	269.4	166.2	68.8	0.0
20°	275.1	171.9	68.8	0.0
17.5°	280.8	171.9	68.8	0.0
15°	286.6	177.7	74.5	0.0
12.5°	292.3	177.7	74.5	0.0
10°	292.3	183.4	74.5	0.0
7.5°	298.0	183.4	74.5	0.0
5°	298.0	183.4	74.5	0.0
2.5°	298.0	183.4	74.5	0.0
0°	298.0	183.4	74.5	0.0

(END OF REPORT)