

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: P624213

Luminaire Tested: **EPH-VN-07-E-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624213
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-930-U-77
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens
Light Source: (112) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

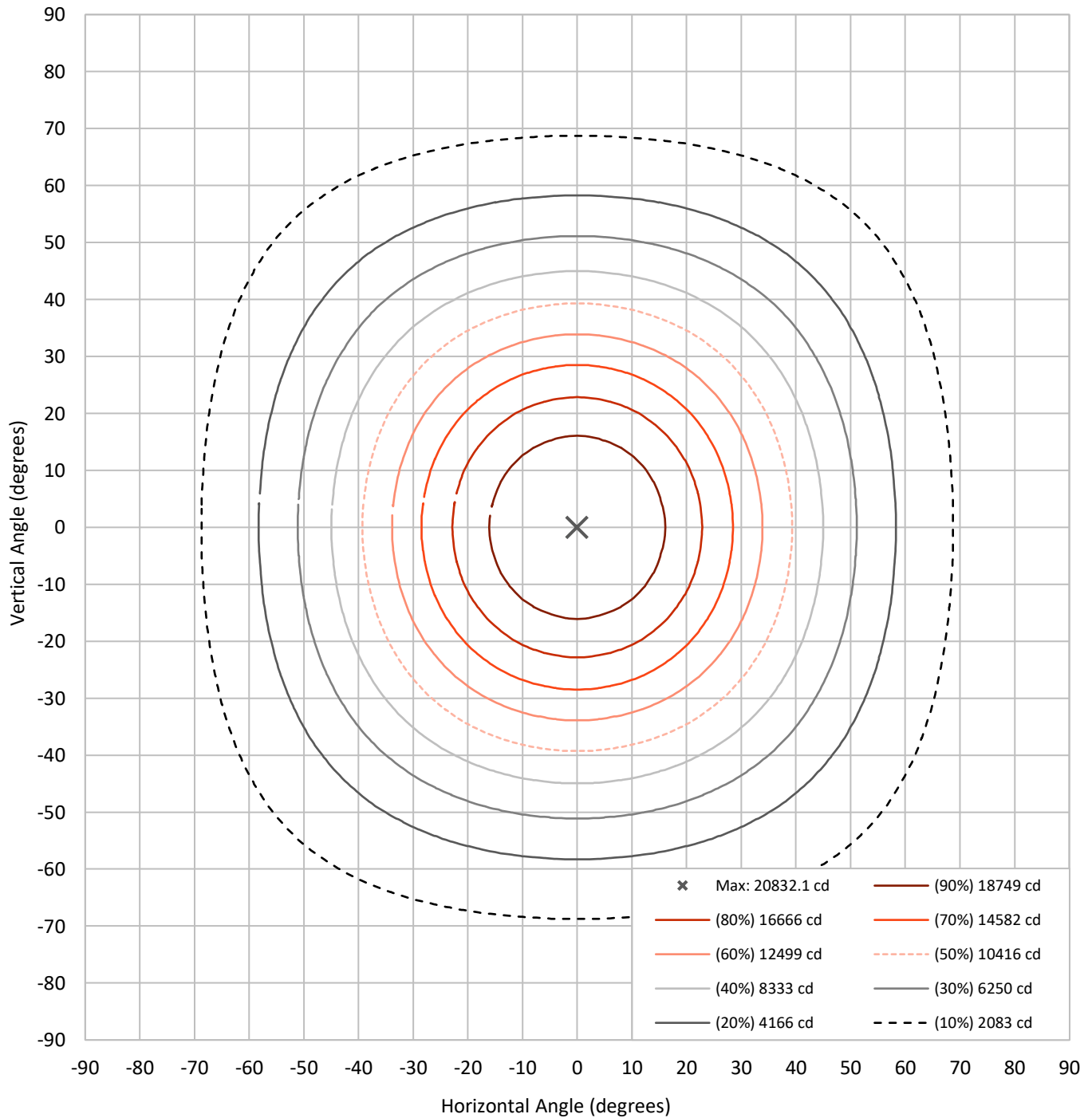
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37508.7 lumens	Max Intensity:	20832.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	70.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	16229.6 lumens	Field Lumens:	26575.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 532.7
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



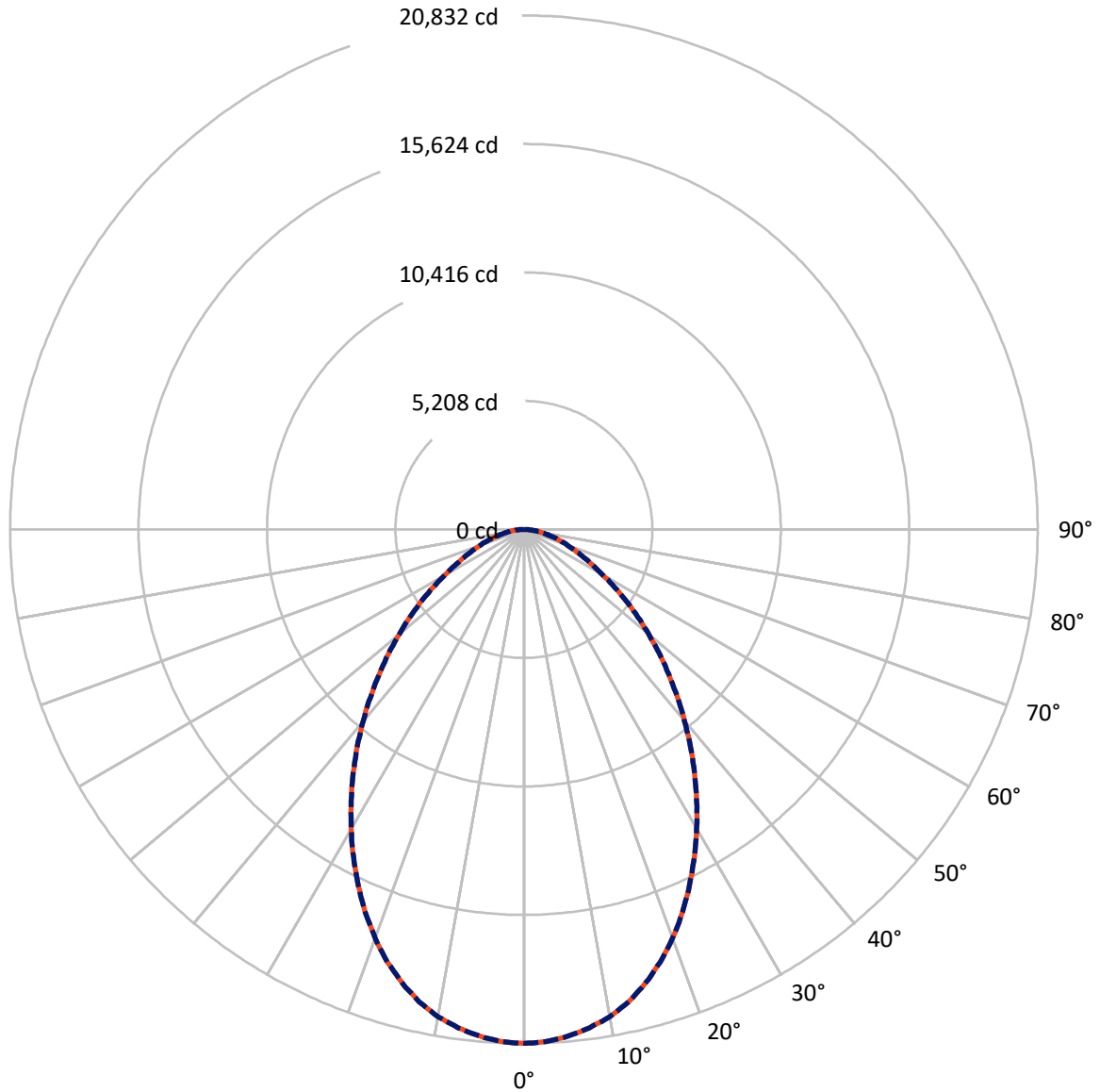
REPORT NUMBER: P624213
CATALOG NUMBER: EPH-VN-07-E-930-U-77

Iso-Candela Plot



REPORT NUMBER: P624213
CATALOG NUMBER: EPH-VN-07-E-930-U-77

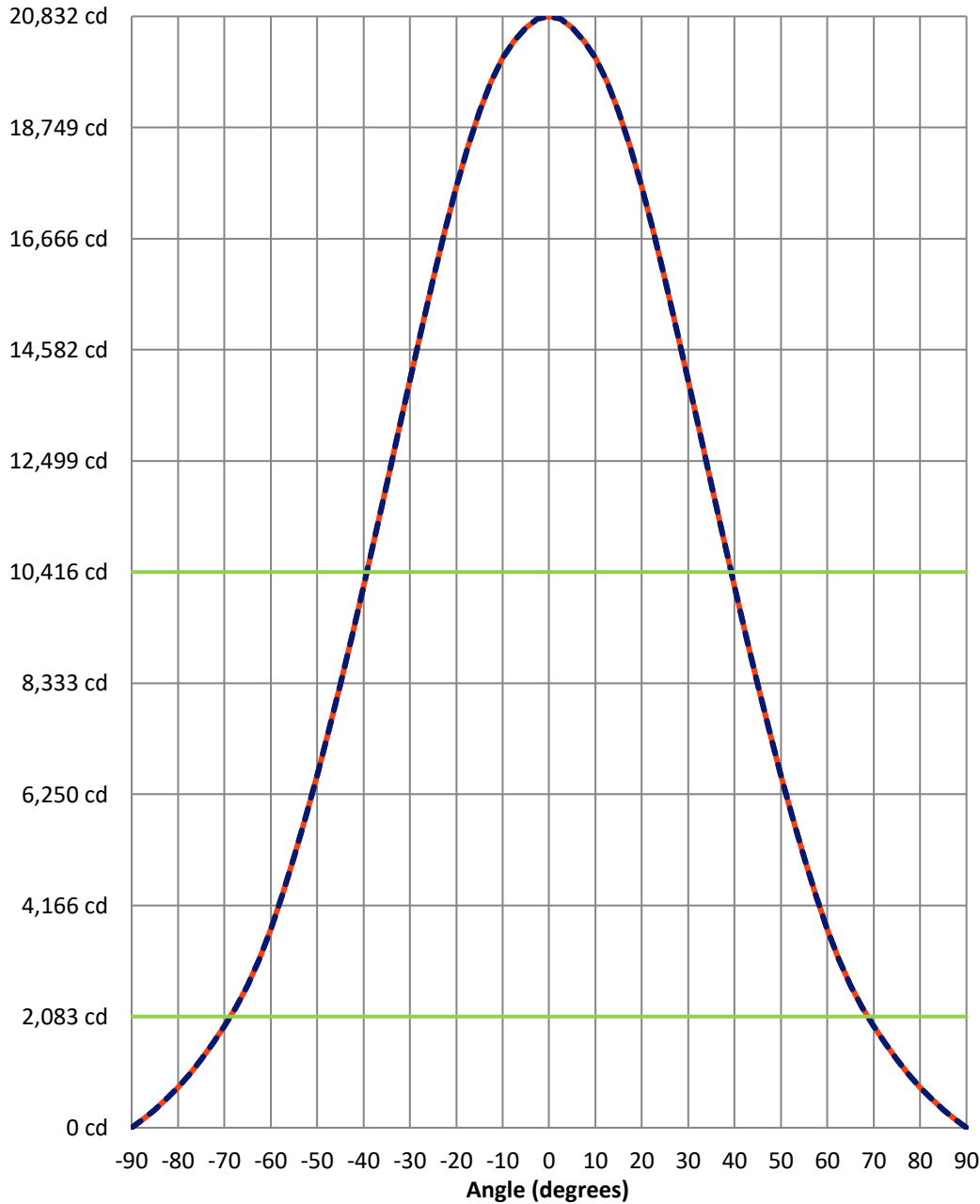
Luminous Intensity Polar Plot



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

REPORT NUMBER: P624213
 CATALOG NUMBER: EPH-VN-07-E-930-U-77

Luminous Intensity Plot



Beam:
 H Angle: 78.6°
 V Angle: 78.6°
 Lumens: 16229.6
 Efficiency: 43.3%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 26575.5
 Efficiency: 70.9%

Spill:
 Lumens: 10933.2
 Efficiency: 29.1%

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



REPORT NUMBER: P624213
 CATALOG NUMBER: EPH-VN-07-E-930-U-77

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°	160.3	160.3	160.3	160.3	160.3	160.3	160.3	152.5	152.5	148.6	144.7
85°	336.3	336.3	336.3	336.3	336.3	328.5	324.6	320.7	316.8	308.9	305.0
82.5°	539.7	539.7	539.7	539.7	531.9	524.0	520.1	512.3	504.5	492.7	481.0
80°	754.8	754.8	754.8	754.8	743.0	735.2	723.5	715.7	703.9	688.3	672.6
77.5°	1001.1	1001.1	1001.1	989.4	981.6	969.8	958.1	942.5	926.8	907.3	883.8
75°	1278.8	1278.8	1278.8	1263.1	1251.4	1239.7	1220.1	1200.6	1177.1	1149.7	1118.5
72.5°	1579.9	1579.9	1579.9	1560.4	1548.6	1529.1	1505.6	1478.2	1450.9	1415.7	1376.6
70°	1904.5	1904.5	1904.5	1881.0	1861.5	1841.9	1810.6	1779.4	1740.2	1701.1	1654.2
67.5°	2256.5	2256.5	2256.5	2229.1	2205.6	2178.2	2143.0	2103.9	2057.0	2002.3	1947.5
65°	2667.1	2667.1	2651.4	2628.0	2600.6	2561.5	2518.5	2463.7	2405.1	2334.7	2260.4
62.5°	3152.0	3152.0	3128.5	3101.2	3066.0	3015.1	2956.5	2886.1	2803.9	2714.0	2624.1
60°	3715.1	3715.1	3687.8	3652.6	3601.7	3539.2	3460.9	3371.0	3269.3	3155.9	3046.4
57.5°	4364.3	4364.3	4329.1	4282.2	4219.6	4141.4	4043.6	3930.2	3801.2	3660.4	3523.5
55°	5068.2	5068.2	5025.2	4970.5	4896.2	4802.3	4685.0	4552.0	4395.6	4235.3	4059.3
52.5°	5815.2	5815.2	5764.3	5701.7	5615.7	5506.2	5373.3	5216.8	5036.9	4849.2	4642.0
50°	6601.2	6601.2	6542.5	6472.2	6374.4	6245.3	6092.8	5912.9	5713.5	5494.5	5255.9
47.5°	7442.0	7442.0	7375.5	7293.4	7176.1	7027.5	6847.6	6640.3	6413.5	6167.1	5897.3
45°	8306.3	8306.3	8232.0	8138.1	8009.0	7840.9	7641.4	7442.0	7152.6	6867.1	6554.3
42.5°	9205.7	9205.7	9119.7	9014.1	8865.5	8681.7	8454.9	8196.8	7911.3	7590.6	7250.4
40°	10140.4	10140.4	10042.6	9921.4	9757.1	9545.9	9291.7	9002.4	8681.7	8325.8	7950.4
37.5°	11094.6	11094.6	10985.1	10852.1	10668.3	10433.7	10148.2	9827.5	9467.7	9072.7	8658.2
35°	12056.6	12056.6	11935.4	11790.7	11587.3	11329.2	11020.3	10664.4	10265.5	9835.3	9370.0
32.5°	13038.2	13038.2	12905.2	12740.9	12510.2	12224.7	11884.5	11497.4	11094.6	10594.0	10085.6
30°	14008.0	14008.0	13863.3	13683.4	13437.0	13124.2	12752.7	12326.4	11853.2	11340.9	10793.4
27.5°	14962.2	14923.1	14801.9	14610.2	14340.4	14008.0	13605.2	13143.7	12631.4	12068.3	11481.7
25°	15900.8	15857.7	15724.8	15513.6	15224.2	14860.5	14426.4	13933.7	13382.3	12787.9	12146.5
22.5°	16800.2	16753.3	16612.5	16385.7	16076.7	15681.8	15216.4	14688.5	14101.9	13464.4	12787.9
20°	17633.2	17582.4	17437.7	17199.1	16878.4	16460.0	15967.2	15400.2	14774.5	14101.9	13382.3
17.5°	18384.0	18333.2	18180.7	17934.3	17633.2	17167.8	16659.4	16061.1	15400.2	14688.5	13933.7
15°	19044.9	18990.2	18833.8	18587.4	18243.3	17805.3	17269.5	16659.4	15967.2	15216.4	14426.4
12.5°	19608.1	19553.3	19393.0	19146.6	18790.7	18352.8	17805.3	17167.8	16460.0	15681.8	14860.5
10°	20053.9	19999.1	19846.6	19612.0	19244.4	18790.7	18243.3	17633.2	16878.4	16076.7	15224.2
7.5°	20374.6	20323.7	20182.9	19948.3	19612.0	19146.6	18587.4	17934.3	17199.1	16385.7	15513.6
5°	20617.0	20558.4	20417.6	20182.9	19846.6	19393.0	18833.8	18180.7	17437.7	16612.5	15724.8
2.5°	20785.2	20714.8	20558.4	20323.7	19999.1	19553.3	18990.2	18333.2	17582.4	16753.3	15857.7
0°	20832.1	20785.2	20617.0	20374.6	20053.9	19608.1	19044.9	18384.0	17633.2	16800.2	15900.8



REPORT NUMBER: P624213
 CATALOG NUMBER: EPH-VN-07-E-930-U-77

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°	140.8	140.8	136.9	133.0	129.1	121.2	117.3	113.4	109.5	101.7	97.8
85°	297.2	289.4	281.6	273.7	262.0	254.2	242.5	234.6	222.9	211.2	199.4
82.5°	469.3	457.5	441.9	430.2	414.5	395.0	379.3	359.8	340.2	324.6	305.0
80°	657.0	637.4	617.9	598.3	574.9	551.4	527.9	504.5	477.1	449.7	422.4
77.5°	860.3	833.0	805.6	774.3	746.9	715.7	684.4	653.1	617.9	582.7	547.5
75°	1087.2	1052.0	1012.9	973.8	938.6	895.5	852.5	809.5	762.6	719.6	672.6
72.5°	1333.5	1290.5	1243.6	1196.7	1145.8	1091.1	1036.3	977.7	922.9	868.2	809.5
70°	1599.5	1548.6	1490.0	1431.3	1368.7	1302.3	1235.8	1165.4	1095.0	1024.6	954.2
67.5°	1884.9	1822.4	1752.0	1681.6	1603.4	1525.2	1446.9	1364.8	1278.8	1192.8	1110.6
65°	2190.0	2111.8	2029.6	1939.7	1849.7	1759.8	1665.9	1568.2	1470.4	1368.7	1278.8
62.5°	2530.2	2432.4	2326.8	2217.3	2115.7	2006.2	1904.5	1783.3	1665.9	1552.5	1439.1
60°	2925.2	2796.1	2667.1	2530.2	2401.1	2260.4	2135.2	2002.3	1869.3	1740.2	1607.3
57.5°	3367.1	3202.8	3046.4	2882.2	2710.1	2553.7	2393.3	2233.0	2084.4	1931.9	1787.2
55°	3867.6	3668.2	3472.7	3269.3	3069.9	2874.3	2671.0	2491.1	2307.3	2135.2	1967.1
52.5°	4415.1	4188.3	3945.9	3715.1	3460.9	3218.5	2991.7	2764.8	2549.8	2342.5	2150.9
50°	5001.7	4735.8	4458.2	4176.6	3887.2	3601.7	3328.0	3062.1	2811.8	2569.3	2342.5
47.5°	5611.8	5310.7	4993.9	4673.2	4364.3	4016.3	3687.8	3386.6	3085.5	2811.8	2549.8
45°	6237.5	5897.3	5549.2	5185.5	4821.9	4446.4	4082.7	3715.1	3386.6	3062.1	2764.8
42.5°	6882.8	6499.5	6112.4	5709.6	5306.8	4896.2	4485.5	4082.7	3687.8	3328.0	2991.7
40°	7547.6	7125.2	6683.3	6245.3	5815.2	5345.9	4896.2	4446.4	4016.3	3601.7	3218.5
37.5°	8212.4	7750.9	7273.8	6781.1	6288.3	5815.2	5306.8	4821.9	4364.3	3887.2	3460.9
35°	8881.1	8372.7	7856.5	7320.8	6781.1	6245.3	5709.6	5185.5	4673.2	4176.6	3715.1
32.5°	9553.8	8998.4	8427.5	7856.5	7273.8	6683.3	6112.4	5549.2	4993.9	4458.2	3945.9
30°	10214.7	9612.4	8998.4	8372.7	7750.9	7125.2	6499.5	5897.3	5310.7	4735.8	4188.3
27.5°	10859.9	10214.7	9553.8	8881.1	8212.4	7547.6	6882.8	6237.5	5611.8	5001.7	4415.1
25°	11481.7	10793.4	10085.6	9370.0	8658.2	7950.4	7250.4	6554.3	5897.3	5255.9	4642.0
22.5°	12068.3	11340.9	10594.0	9835.3	9072.7	8325.8	7590.6	6867.1	6167.1	5494.5	4849.2
20°	12631.4	11853.2	11094.6	10265.5	9467.7	8681.7	7911.3	7152.6	6413.5	5713.5	5036.9
17.5°	13143.7	12326.4	11497.4	10664.4	9827.5	9002.4	8196.8	7442.0	6640.3	5912.9	5216.8
15°	13605.2	12752.7	11884.5	11020.3	10148.2	9291.7	8454.9	7641.4	6847.6	6092.8	5373.3
12.5°	14008.0	13124.2	12224.7	11329.2	10433.7	9545.9	8681.7	7840.9	7027.5	6245.3	5506.2
10°	14340.4	13437.0	12510.2	11587.3	10668.3	9757.1	8865.5	8009.0	7176.1	6374.4	5615.7
7.5°	14610.2	13683.4	12740.9	11790.7	10852.1	9921.4	9014.1	8138.1	7293.4	6472.2	5701.7
5°	14801.9	13863.3	12905.2	11935.4	10985.1	10042.6	9119.7	8232.0	7375.5	6542.5	5764.3
2.5°	14923.1	14008.0	13038.2	12056.6	11094.6	10140.4	9205.7	8306.3	7442.0	6601.2	5815.2
0°	14962.2	14008.0	13038.2	12056.6	11094.6	10140.4	9205.7	8306.3	7442.0	6601.2	5815.2



REPORT NUMBER: P624213
 CATALOG NUMBER: EPH-VN-07-E-930-U-77

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°	93.9	86.0	78.2	74.3	66.5	62.6	54.7	46.9	43.0	35.2	27.4
85°	187.7	172.1	160.3	148.6	136.9	121.2	109.5	97.8	82.1	70.4	54.7
82.5°	285.5	265.9	246.4	226.8	207.3	187.7	164.2	144.7	125.1	105.6	82.1
80°	395.0	363.7	336.3	308.9	281.6	254.2	222.9	195.5	164.2	136.9	109.5
77.5°	508.4	473.2	434.1	395.0	355.9	320.7	281.6	246.4	211.2	172.1	136.9
75°	629.6	582.7	539.7	488.8	441.9	391.1	344.1	297.2	254.2	211.2	164.2
72.5°	754.8	696.1	637.4	582.7	524.0	465.4	410.6	352.0	297.2	246.4	195.5
70°	883.8	813.4	743.0	676.5	610.1	539.7	477.1	410.6	344.1	281.6	222.9
67.5°	1020.7	938.6	856.4	770.4	696.1	617.9	539.7	465.4	391.1	320.7	254.2
65°	1169.3	1071.5	969.8	879.9	782.1	696.1	610.1	524.0	441.9	355.9	281.6
62.5°	1321.8	1208.4	1095.0	981.6	879.9	770.4	676.5	582.7	488.8	395.0	308.9
60°	1478.2	1349.2	1220.1	1095.0	969.8	856.4	743.0	637.4	539.7	434.1	336.3
57.5°	1638.6	1493.9	1349.2	1208.4	1071.5	938.6	813.4	696.1	582.7	473.2	363.7
55°	1802.8	1638.6	1478.2	1321.8	1169.3	1020.7	883.8	754.8	629.6	508.4	395.0
52.5°	1967.1	1787.2	1607.3	1439.1	1278.8	1110.6	954.2	809.5	672.6	547.5	422.4
50°	2135.2	1931.9	1740.2	1552.5	1368.7	1192.8	1024.6	868.2	719.6	582.7	449.7
47.5°	2307.3	2084.4	1869.3	1665.9	1470.4	1278.8	1095.0	922.9	762.6	617.9	477.1
45°	2491.1	2233.0	2002.3	1783.3	1568.2	1364.8	1165.4	977.7	809.5	653.1	504.5
42.5°	2671.0	2393.3	2135.2	1904.5	1665.9	1446.9	1235.8	1036.3	852.5	684.4	527.9
40°	2874.3	2553.7	2260.4	2006.2	1759.8	1525.2	1302.3	1091.1	895.5	715.7	551.4
37.5°	3069.9	2710.1	2401.1	2115.7	1849.7	1603.4	1368.7	1145.8	938.6	746.9	574.9
35°	3269.3	2882.2	2530.2	2217.3	1939.7	1681.6	1431.3	1196.7	973.8	774.3	598.3
32.5°	3472.7	3046.4	2667.1	2326.8	2029.6	1752.0	1490.0	1243.6	1012.9	805.6	617.9
30°	3668.2	3202.8	2796.1	2432.4	2111.8	1822.4	1548.6	1290.5	1052.0	833.0	637.4
27.5°	3867.6	3367.1	2925.2	2530.2	2190.0	1884.9	1599.5	1333.5	1087.2	860.3	657.0
25°	4059.3	3523.5	3046.4	2624.1	2260.4	1947.5	1654.2	1376.6	1118.5	883.8	672.6
22.5°	4235.3	3660.4	3155.9	2714.0	2334.7	2002.3	1701.1	1415.7	1149.7	907.3	688.3
20°	4395.6	3801.2	3269.3	2803.9	2405.1	2057.0	1740.2	1450.9	1177.1	926.8	703.9
17.5°	4552.0	3930.2	3371.0	2886.1	2463.7	2103.9	1779.4	1478.2	1200.6	942.5	715.7
15°	4685.0	4043.6	3460.9	2956.5	2518.5	2143.0	1810.6	1505.6	1220.1	958.1	723.5
12.5°	4802.3	4141.4	3539.2	3015.1	2561.5	2178.2	1841.9	1529.1	1239.7	969.8	735.2
10°	4896.2	4219.6	3601.7	3066.0	2600.6	2205.6	1861.5	1548.6	1251.4	981.6	743.0
7.5°	4970.5	4282.2	3652.6	3101.2	2628.0	2229.1	1881.0	1560.4	1263.1	989.4	754.8
5°	5025.2	4329.1	3687.8	3128.5	2651.4	2256.5	1904.5	1579.9	1278.8	1001.1	754.8
2.5°	5068.2	4364.3	3715.1	3152.0	2667.1	2256.5	1904.5	1579.9	1278.8	1001.1	754.8
0°	5068.2	4364.3	3715.1	3152.0	2667.1	2256.5	1904.5	1579.9	1278.8	1001.1	754.8



REPORT NUMBER: P624213
 CATALOG NUMBER: EPH-VN-07-E-930-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.6	15.6	7.8	0.0
85°	43.0	27.4	15.6	0.0
82.5°	62.6	43.0	19.6	0.0
80°	82.1	54.7	27.4	0.0
77.5°	105.6	70.4	35.2	0.0
75°	125.1	82.1	43.0	0.0
72.5°	144.7	97.8	46.9	0.0
70°	164.2	109.5	54.7	0.0
67.5°	187.7	121.2	62.6	0.0
65°	207.3	136.9	66.5	0.0
62.5°	226.8	148.6	74.3	0.0
60°	246.4	160.3	78.2	0.0
57.5°	265.9	172.1	86.0	0.0
55°	285.5	187.7	93.9	0.0
52.5°	305.0	199.4	97.8	0.0
50°	324.6	211.2	101.7	0.0
47.5°	340.2	222.9	109.5	0.0
45°	359.8	234.6	113.4	0.0
42.5°	379.3	242.5	117.3	0.0
40°	395.0	254.2	121.2	0.0
37.5°	414.5	262.0	129.1	0.0
35°	430.2	273.7	133.0	0.0
32.5°	441.9	281.6	136.9	0.0
30°	457.5	289.4	140.8	0.0
27.5°	469.3	297.2	140.8	0.0
25°	481.0	305.0	144.7	0.0
22.5°	492.7	308.9	148.6	0.0
20°	504.5	316.8	152.5	0.0
17.5°	512.3	320.7	152.5	0.0
15°	520.1	324.6	160.3	0.0
12.5°	524.0	328.5	160.3	0.0
10°	531.9	336.3	160.3	0.0
7.5°	539.7	336.3	160.3	0.0
5°	539.7	336.3	160.3	0.0
2.5°	539.7	336.3	160.3	0.0
0°	539.7	336.3	160.3	0.0

(END OF REPORT)