

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: P624144

Luminaire Tested: **EPH-VN-03-E-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624144
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-750-U-55
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

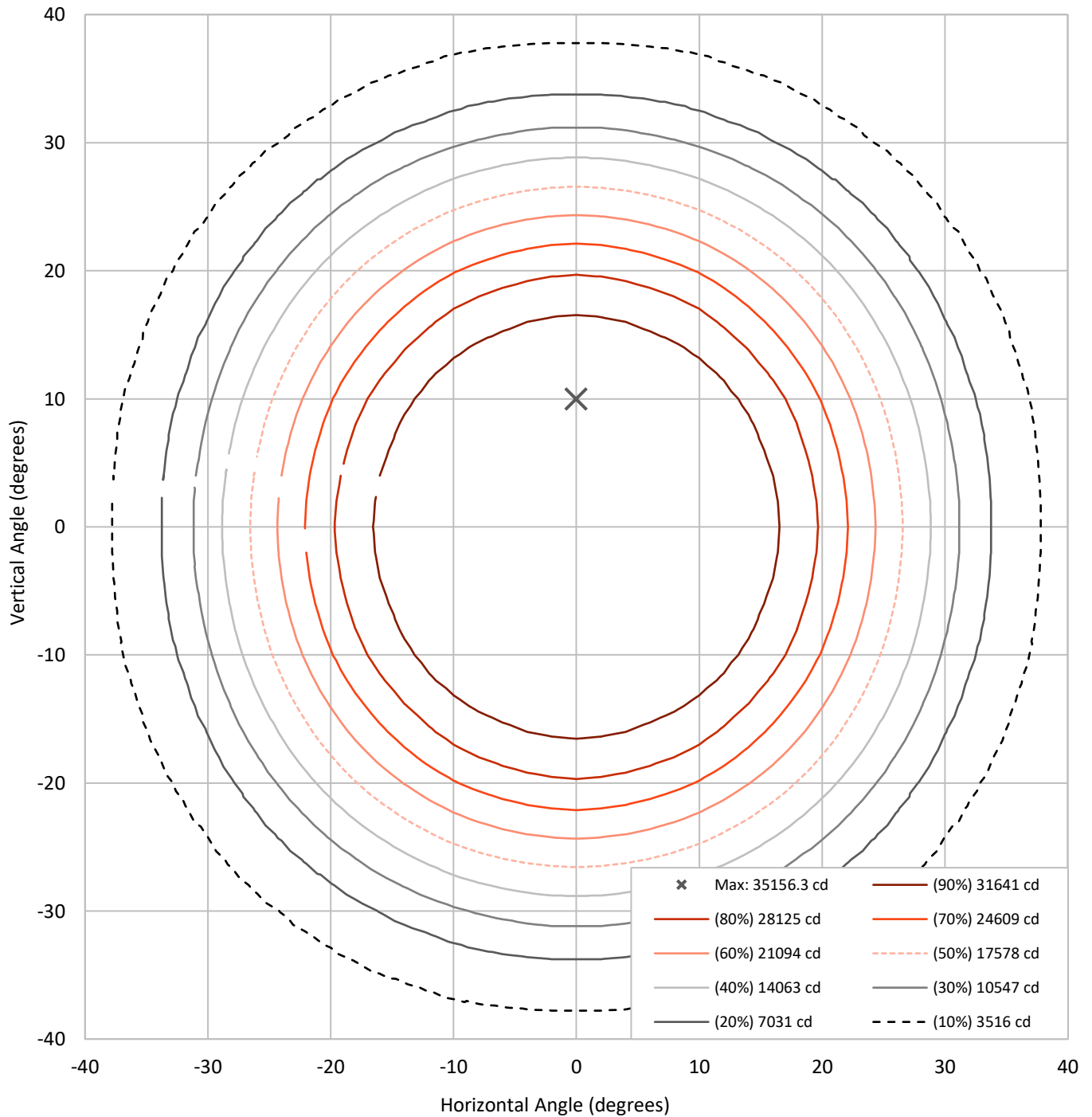
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	28768.5 lumens	Max Intensity:	35156.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	123.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	14298.7 lumens	Field Lumens:	18595.9 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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



REPORT NUMBER: P624144
CATALOG NUMBER: EPH-VN-03-E-750-U-55

Iso-Candela Plot





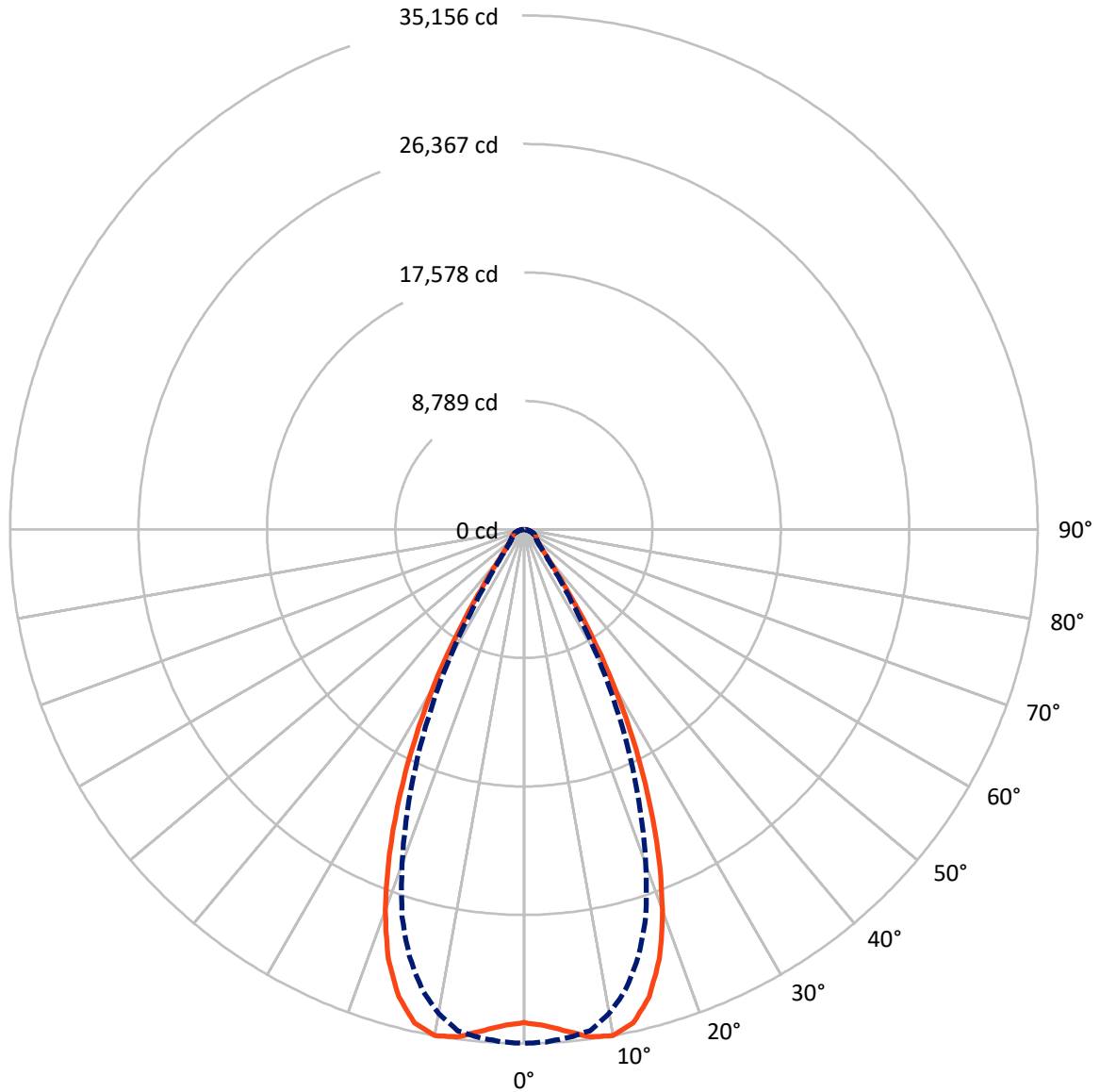
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Lumen Table

90	0.8	6.3	16.5	26.5	30.7	26.5	16.5	6.3	0.8							
80	0.8	6.3	16.5	26.5	30.7	26.5	16.5	6.3	0.8							
70	2.9	3.1	6.5	10.7	15.1	18.9	21.6	23.1	23.1	21.6	18.9	15.1	10.7	6.5	3.1	2.9
60		4.8	10.0	15.8	21.2	25.8	29.2	31.2	31.2	29.2	25.8	21.2	15.8	10.0	4.8	
50	5.1	6.5	12.8	19.4	26.0	33.7	42.7	49.6	49.6	42.7	33.7	26.0	19.4	12.8	6.5	5.1
40		7.9	14.9	22.5	34.1	60.8	118.8	179.1	179.1	118.8	60.8	34.1	22.5	14.9	7.9	
30	6.8	8.9	16.4	26.4	55.2	175.8	407.3	578.1	578.1	407.3	175.8	55.2	26.4	16.4	8.9	6.8
20		9.6	17.4	31.5	101.8	383.6	750.6	956.9	956.9	750.6	383.6	101.8	31.5	17.4	9.6	
10	7.4	9.9	18.0	35.5	149.4	528.5	928.6	1053.1	1053.1	928.6	528.5	149.4	35.5	18.0	9.9	7.4
0		9.9	18.0	35.5	149.4	528.5	928.6	1053.1	1053.1	928.6	528.5	149.4	35.5	18.0	9.9	
-10	6.8	9.6	17.4	31.5	101.8	383.6	750.6	956.9	956.9	750.6	383.6	101.8	31.5	17.4	9.6	6.8
-20		8.9	16.4	26.4	55.2	175.8	407.3	578.1	578.1	407.3	175.8	55.2	26.4	16.4	8.9	
-30	5.1	7.9	14.9	22.5	34.1	60.8	118.8	179.1	179.1	118.8	60.8	34.1	22.5	14.9	7.9	5.1
-40		6.5	12.8	19.4	26.0	33.7	42.7	49.6	49.6	42.7	33.7	26.0	19.4	12.8	6.5	
-50	2.9	4.8	10.0	15.8	21.2	25.8	29.2	31.2	31.2	29.2	25.8	21.2	15.8	10.0	4.8	2.9
-60		3.1	6.5	10.7	15.1	18.9	21.6	23.1	23.1	21.6	18.9	15.1	10.7	6.5	3.1	
-70	0.8	6.3	16.5	26.5	30.7	26.5	16.5	6.3	0.8							
-80		0.8	6.3	16.5	26.5	30.7	26.5	16.5	6.3	0.8						
-90	0.8	6.3	16.5	26.5	30.7	26.5	16.5	6.3	0.8							

REPORT NUMBER: P624144
CATALOG NUMBER: EPH-VN-03-E-750-U-55

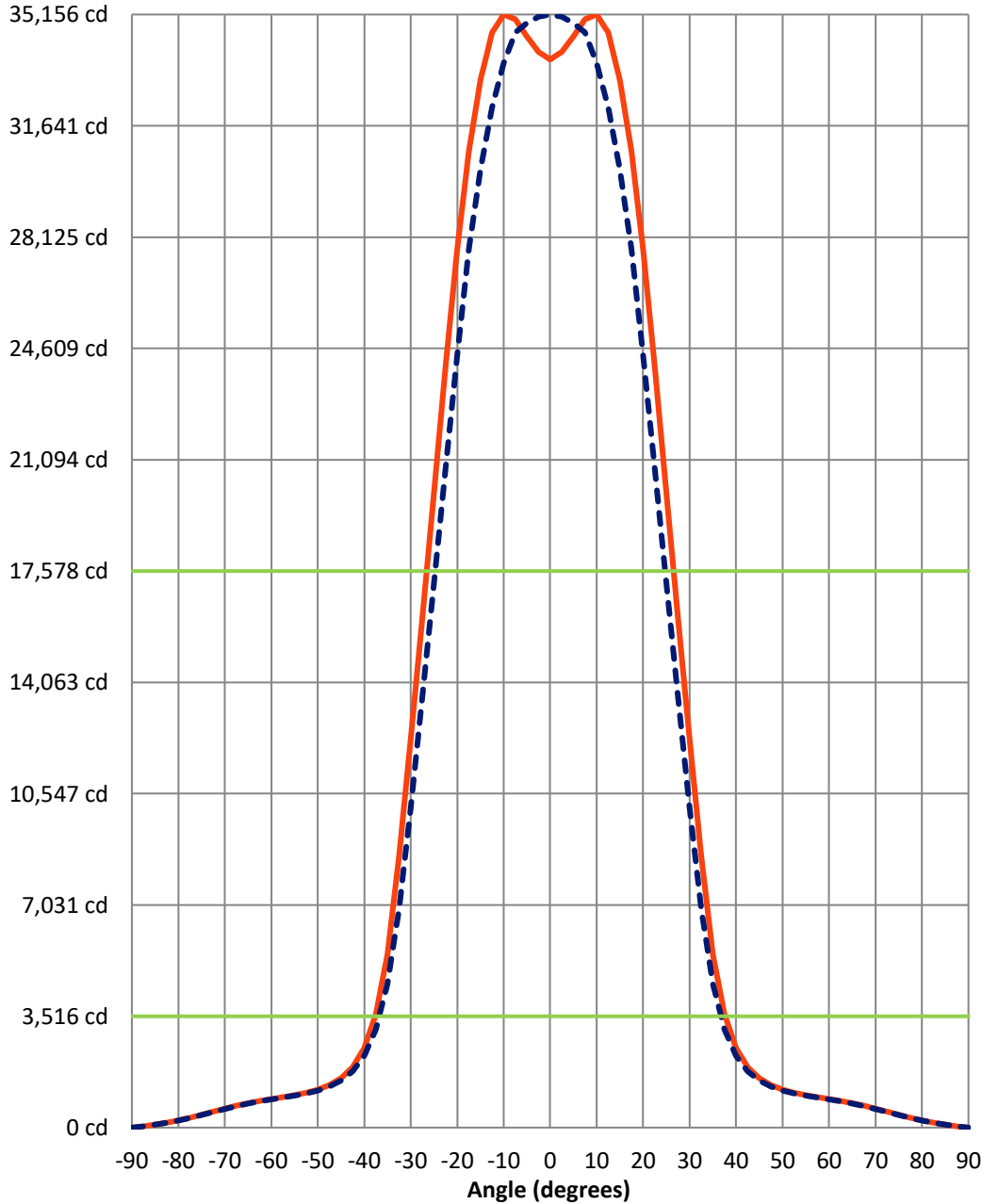
Luminous Intensity Polar Plot



— 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: 14298.7
 Efficiency: 49.7%

Field:
 H Angle: 73.6°
 V Angle: 75.3°
 Lumens: 18595.9
 Efficiency: 64.6%

Spill:
 Lumens: 10172.7
 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°	38.9	38.9	38.9	38.9	38.9	38.9	38.9	35.9	35.9	35.9	35.9
85°	95.6	95.6	95.6	95.6	95.6	92.6	92.6	89.7	89.7	86.7	83.7
82.5°	155.4	155.4	155.4	155.4	152.4	152.4	149.4	146.4	143.4	140.5	137.5
80°	227.1	227.1	227.1	227.1	224.1	221.1	218.2	215.2	209.2	206.2	200.2
77.5°	310.8	310.8	310.8	307.8	304.8	301.8	295.9	289.9	283.9	277.9	272.0
75°	406.4	406.4	406.4	400.5	397.5	391.5	385.5	379.5	370.6	361.6	352.6
72.5°	505.1	505.1	505.1	499.1	493.1	487.1	481.1	472.2	463.2	451.3	439.3
70°	597.7	597.7	597.7	591.7	585.7	579.8	570.8	561.8	549.9	537.9	526.0
67.5°	693.3	693.3	693.3	684.4	678.4	672.4	663.4	651.5	639.5	624.6	609.6
65°	771.0	771.0	768.0	765.0	759.1	750.1	744.1	732.2	720.2	708.3	693.3
62.5°	842.7	842.7	839.8	836.8	830.8	821.8	812.9	803.9	791.9	777.0	762.1
60°	902.5	902.5	899.5	896.5	890.6	884.6	875.6	866.7	854.7	842.7	827.8
57.5°	962.3	962.3	959.3	956.3	950.3	941.4	932.4	923.4	911.5	896.5	881.6
55°	1025.0	1025.0	1022.1	1016.1	1010.1	1001.1	992.2	980.2	965.3	950.3	935.4
52.5°	1099.8	1099.8	1093.8	1087.8	1078.8	1069.9	1054.9	1040.0	1022.1	1004.1	986.2
50°	1198.4	1198.4	1192.4	1183.4	1168.5	1153.5	1135.6	1111.7	1090.8	1066.9	1043.0
47.5°	1344.8	1344.8	1332.9	1317.9	1297.0	1273.1	1240.2	1204.4	1174.5	1144.6	1108.7
45°	1560.0	1560.0	1542.0	1518.1	1485.3	1443.4	1395.6	1344.8	1294.0	1243.2	1192.4
42.5°	1909.6	1909.6	1876.8	1834.9	1778.1	1706.4	1616.8	1533.1	1461.4	1380.7	1311.9
40°	2513.3	2513.3	2450.5	2372.8	2265.3	2127.8	1963.4	1831.9	1706.4	1566.0	1470.3
37.5°	3586.2	3586.2	3463.6	3314.2	3105.0	2842.0	2525.3	2313.1	2080.0	1858.8	1697.4
35°	5480.8	5480.8	5244.8	4954.9	4551.4	4043.4	3502.5	3102.0	2656.7	2316.1	2014.2
32.5°	8588.9	8588.9	8164.5	7641.5	6921.3	6009.8	5143.2	4381.1	3586.2	3021.3	2477.4
30°	12282.6	12282.6	11726.7	11042.4	10104.0	8920.6	7686.3	6332.6	5077.4	4070.3	3248.5
27.5°	16101.9	15943.5	15465.3	14685.3	13615.5	12282.6	10743.5	8995.3	7297.8	5522.7	4348.2
25°	20052.6	19867.3	19320.4	18423.9	17198.6	15689.5	13956.1	12001.7	9906.8	7790.9	5758.8
22.5°	24045.2	23836.0	23214.4	22201.3	20826.6	19135.2	17171.7	14999.1	12659.1	10214.6	7790.9
20°	27736.0	27514.8	26863.3	25808.4	24385.9	22530.1	20348.5	17939.8	15351.8	12659.1	9906.8
17.5°	30826.0	30613.9	29986.3	28979.2	27736.0	25682.9	23414.6	20766.9	17939.8	14999.1	12001.7
15°	33082.3	32900.0	32365.1	31519.4	30252.3	28435.3	26125.2	23414.6	20348.5	17171.7	13956.1
12.5°	34579.6	34433.1	34011.7	33354.3	32218.7	30694.5	28435.3	25682.9	22530.1	19135.2	15689.5
10°	35156.3	35084.6	34887.4	34585.5	33617.3	32218.7	30252.3	27736.0	24385.9	20826.6	17198.6
7.5°	35003.9	35027.8	35096.6	35018.9	34585.5	33354.3	31519.4	28979.2	25808.4	22201.3	18423.9
5°	34460.0	34588.5	34908.3	35096.6	34887.4	34011.7	32365.1	29986.3	26863.3	23214.4	19320.4
2.5°	33975.9	34176.1	34588.5	35027.8	35084.6	34433.1	32900.0	30613.9	27514.8	23836.0	19867.3
0°	33736.8	33975.9	34460.0	35003.9	35156.3	34579.6	33082.3	30826.0	27736.0	24045.2	20052.6



REPORT NUMBER: P624144
 CATALOG NUMBER: EPH-VN-03-E-750-U-55

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°	35.9	32.9	32.9	32.9	29.9	29.9	29.9	26.9	26.9	23.9	23.9
85°	83.7	80.7	77.7	74.7	71.7	68.7	65.7	62.8	59.8	53.8	50.8
82.5°	134.5	131.5	128.5	122.5	119.5	113.6	107.6	101.6	95.6	92.6	86.7
80°	194.3	188.3	182.3	176.3	167.4	158.4	152.4	143.4	137.5	128.5	122.5
77.5°	263.0	254.0	245.1	233.1	224.1	215.2	203.2	194.3	182.3	170.3	158.4
75°	340.7	328.7	313.8	301.8	289.9	274.9	260.0	245.1	230.1	215.2	200.2
72.5°	424.4	409.4	394.5	379.5	361.6	340.7	322.8	301.8	283.9	266.0	245.1
70°	511.0	493.1	475.2	457.2	436.3	412.4	391.5	367.6	343.7	319.8	295.9
67.5°	591.7	573.8	552.9	534.9	511.0	487.1	460.2	433.3	406.4	376.5	346.7
65°	675.4	654.5	630.6	606.7	582.8	555.9	529.0	502.1	469.2	436.3	406.4
62.5°	744.1	726.2	705.3	681.4	654.5	624.6	597.7	561.8	529.0	496.1	457.2
60°	809.9	789.0	771.0	744.1	720.2	693.3	660.5	624.6	588.7	549.9	514.0
57.5°	866.7	848.7	827.8	803.9	777.0	750.1	720.2	687.3	645.5	606.7	564.8
55°	917.5	896.5	875.6	854.7	830.8	800.9	771.0	738.2	702.3	660.5	615.6
52.5°	968.3	947.3	923.4	902.5	875.6	848.7	818.8	786.0	750.1	711.3	663.4
50°	1019.1	995.2	971.3	944.4	917.5	890.6	860.7	830.8	791.9	753.1	711.3
47.5°	1078.8	1049.0	1019.1	989.2	962.3	929.4	899.5	866.7	833.8	791.9	750.1
45°	1153.5	1108.7	1072.9	1037.0	1004.1	971.3	935.4	902.5	866.7	830.8	786.0
42.5°	1246.2	1186.4	1138.6	1090.8	1049.0	1010.1	974.2	935.4	899.5	860.7	818.8
40°	1371.7	1291.0	1213.3	1153.5	1099.8	1051.9	1010.1	971.3	929.4	890.6	848.7
37.5°	1536.1	1422.5	1314.9	1228.3	1159.5	1099.8	1049.0	1004.1	962.3	917.5	875.6
35°	1784.1	1586.9	1449.4	1323.9	1228.3	1153.5	1090.8	1037.0	989.2	944.4	902.5
32.5°	2133.8	1828.9	1607.8	1449.4	1314.9	1213.3	1138.6	1072.9	1019.1	971.3	923.4
30°	2594.0	2172.6	1828.9	1586.9	1422.5	1291.0	1186.4	1108.7	1049.0	995.2	947.3
27.5°	3323.2	2594.0	2133.8	1784.1	1536.1	1371.7	1246.2	1153.5	1078.8	1019.1	968.3
25°	4348.2	3248.5	2477.4	2014.2	1697.4	1470.3	1311.9	1192.4	1108.7	1043.0	986.2
22.5°	5522.7	4070.3	3021.3	2316.1	1858.8	1566.0	1380.7	1243.2	1144.6	1066.9	1004.1
20°	7297.8	5077.4	3586.2	2656.7	2080.0	1706.4	1461.4	1294.0	1174.5	1090.8	1022.1
17.5°	8995.3	6332.6	4381.1	3102.0	2313.1	1831.9	1533.1	1344.8	1204.4	1111.7	1040.0
15°	10743.5	7686.3	5143.2	3502.5	2525.3	1963.4	1616.8	1395.6	1240.2	1135.6	1054.9
12.5°	12282.6	8920.6	6009.8	4043.4	2842.0	2127.8	1706.4	1443.4	1273.1	1153.5	1069.9
10°	13615.5	10104.0	6921.3	4551.4	3105.0	2265.3	1778.1	1485.3	1297.0	1168.5	1078.8
7.5°	14685.3	11042.4	7641.5	4954.9	3314.2	2372.8	1834.9	1518.1	1317.9	1183.4	1087.8
5°	15465.3	11726.7	8164.5	5244.8	3463.6	2450.5	1876.8	1542.0	1332.9	1192.4	1093.8
2.5°	15943.5	12282.6	8588.9	5480.8	3586.2	2513.3	1909.6	1560.0	1344.8	1198.4	1099.8
0°	16101.9	12282.6	8588.9	5480.8	3586.2	2513.3	1909.6	1560.0	1344.8	1198.4	1099.8



REPORT NUMBER: P624144
 CATALOG NUMBER: EPH-VN-03-E-750-U-55

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°	20.9	20.9	17.9	17.9	14.9	14.9	12.0	12.0	9.0	9.0	6.0
85°	47.8	41.8	38.9	35.9	32.9	29.9	26.9	23.9	20.9	17.9	14.9
82.5°	80.7	74.7	65.7	59.8	53.8	47.8	38.9	35.9	29.9	23.9	20.9
80°	113.6	104.6	95.6	86.7	77.7	68.7	59.8	50.8	41.8	32.9	26.9
77.5°	146.4	134.5	125.5	113.6	101.6	89.7	77.7	65.7	53.8	41.8	32.9
75°	185.3	170.3	155.4	140.5	125.5	110.6	98.6	83.7	68.7	53.8	41.8
72.5°	227.1	206.2	188.3	170.3	149.4	134.5	116.6	101.6	83.7	65.7	50.8
70°	272.0	248.0	224.1	200.2	179.3	155.4	137.5	116.6	98.6	77.7	59.8
67.5°	316.8	289.9	263.0	233.1	206.2	182.3	155.4	134.5	110.6	89.7	68.7
65°	370.6	334.7	301.8	269.0	236.1	206.2	179.3	149.4	125.5	101.6	77.7
62.5°	421.4	382.5	343.7	304.8	269.0	233.1	200.2	170.3	140.5	113.6	86.7
60°	472.2	430.3	385.5	343.7	301.8	263.0	224.1	188.3	155.4	125.5	95.6
57.5°	523.0	475.2	430.3	382.5	334.7	289.9	248.0	206.2	170.3	134.5	104.6
55°	567.8	523.0	472.2	421.4	370.6	316.8	272.0	227.1	185.3	146.4	113.6
52.5°	615.6	564.8	514.0	457.2	406.4	346.7	295.9	245.1	200.2	158.4	122.5
50°	660.5	606.7	549.9	496.1	436.3	376.5	319.8	266.0	215.2	170.3	128.5
47.5°	702.3	645.5	588.7	529.0	469.2	406.4	343.7	283.9	230.1	182.3	137.5
45°	738.2	687.3	624.6	561.8	502.1	433.3	367.6	301.8	245.1	194.3	143.4
42.5°	771.0	720.2	660.5	597.7	529.0	460.2	391.5	322.8	260.0	203.2	152.4
40°	800.9	750.1	693.3	624.6	555.9	487.1	412.4	340.7	274.9	215.2	158.4
37.5°	830.8	777.0	720.2	654.5	582.8	511.0	436.3	361.6	289.9	224.1	167.4
35°	854.7	803.9	744.1	681.4	606.7	534.9	457.2	379.5	301.8	233.1	176.3
32.5°	875.6	827.8	771.0	705.3	630.6	552.9	475.2	394.5	313.8	245.1	182.3
30°	896.5	848.7	789.0	726.2	654.5	573.8	493.1	409.4	328.7	254.0	188.3
27.5°	917.5	866.7	809.9	744.1	675.4	591.7	511.0	424.4	340.7	263.0	194.3
25°	935.4	881.6	827.8	762.1	693.3	609.6	526.0	439.3	352.6	272.0	200.2
22.5°	950.3	896.5	842.7	777.0	708.3	624.6	537.9	451.3	361.6	277.9	206.2
20°	965.3	911.5	854.7	791.9	720.2	639.5	549.9	463.2	370.6	283.9	209.2
17.5°	980.2	923.4	866.7	803.9	732.2	651.5	561.8	472.2	379.5	289.9	215.2
15°	992.2	932.4	875.6	812.9	744.1	663.4	570.8	481.1	385.5	295.9	218.2
12.5°	1001.1	941.4	884.6	821.8	750.1	672.4	579.8	487.1	391.5	301.8	221.1
10°	1010.1	950.3	890.6	830.8	759.1	678.4	585.7	493.1	397.5	304.8	224.1
7.5°	1016.1	956.3	896.5	836.8	765.0	684.4	591.7	499.1	400.5	307.8	227.1
5°	1022.1	959.3	899.5	839.8	768.0	693.3	597.7	505.1	406.4	310.8	227.1
2.5°	1025.0	962.3	902.5	842.7	771.0	693.3	597.7	505.1	406.4	310.8	227.1
0°	1025.0	962.3	902.5	842.7	771.0	693.3	597.7	505.1	406.4	310.8	227.1



REPORT NUMBER: P624144
 CATALOG NUMBER: EPH-VN-03-E-750-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	3.0	0.0
85°	9.0	6.0	3.0	0.0
82.5°	14.9	9.0	6.0	0.0
80°	20.9	14.9	6.0	0.0
77.5°	23.9	17.9	9.0	0.0
75°	29.9	20.9	9.0	0.0
72.5°	35.9	23.9	12.0	0.0
70°	38.9	26.9	12.0	0.0
67.5°	47.8	29.9	14.9	0.0
65°	53.8	32.9	14.9	0.0
62.5°	59.8	35.9	17.9	0.0
60°	65.7	38.9	17.9	0.0
57.5°	74.7	41.8	20.9	0.0
55°	80.7	47.8	20.9	0.0
52.5°	86.7	50.8	23.9	0.0
50°	92.6	53.8	23.9	0.0
47.5°	95.6	59.8	26.9	0.0
45°	101.6	62.8	26.9	0.0
42.5°	107.6	65.7	29.9	0.0
40°	113.6	68.7	29.9	0.0
37.5°	119.5	71.7	29.9	0.0
35°	122.5	74.7	32.9	0.0
32.5°	128.5	77.7	32.9	0.0
30°	131.5	80.7	32.9	0.0
27.5°	134.5	83.7	35.9	0.0
25°	137.5	83.7	35.9	0.0
22.5°	140.5	86.7	35.9	0.0
20°	143.4	89.7	35.9	0.0
17.5°	146.4	89.7	35.9	0.0
15°	149.4	92.6	38.9	0.0
12.5°	152.4	92.6	38.9	0.0
10°	152.4	95.6	38.9	0.0
7.5°	155.4	95.6	38.9	0.0
5°	155.4	95.6	38.9	0.0
2.5°	155.4	95.6	38.9	0.0
0°	155.4	95.6	38.9	0.0

(END OF REPORT)