

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0640L-40-80-2S-HEG**

Issue Date: 10/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1912-617-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-08-0640L-40-80-2S-HEG  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

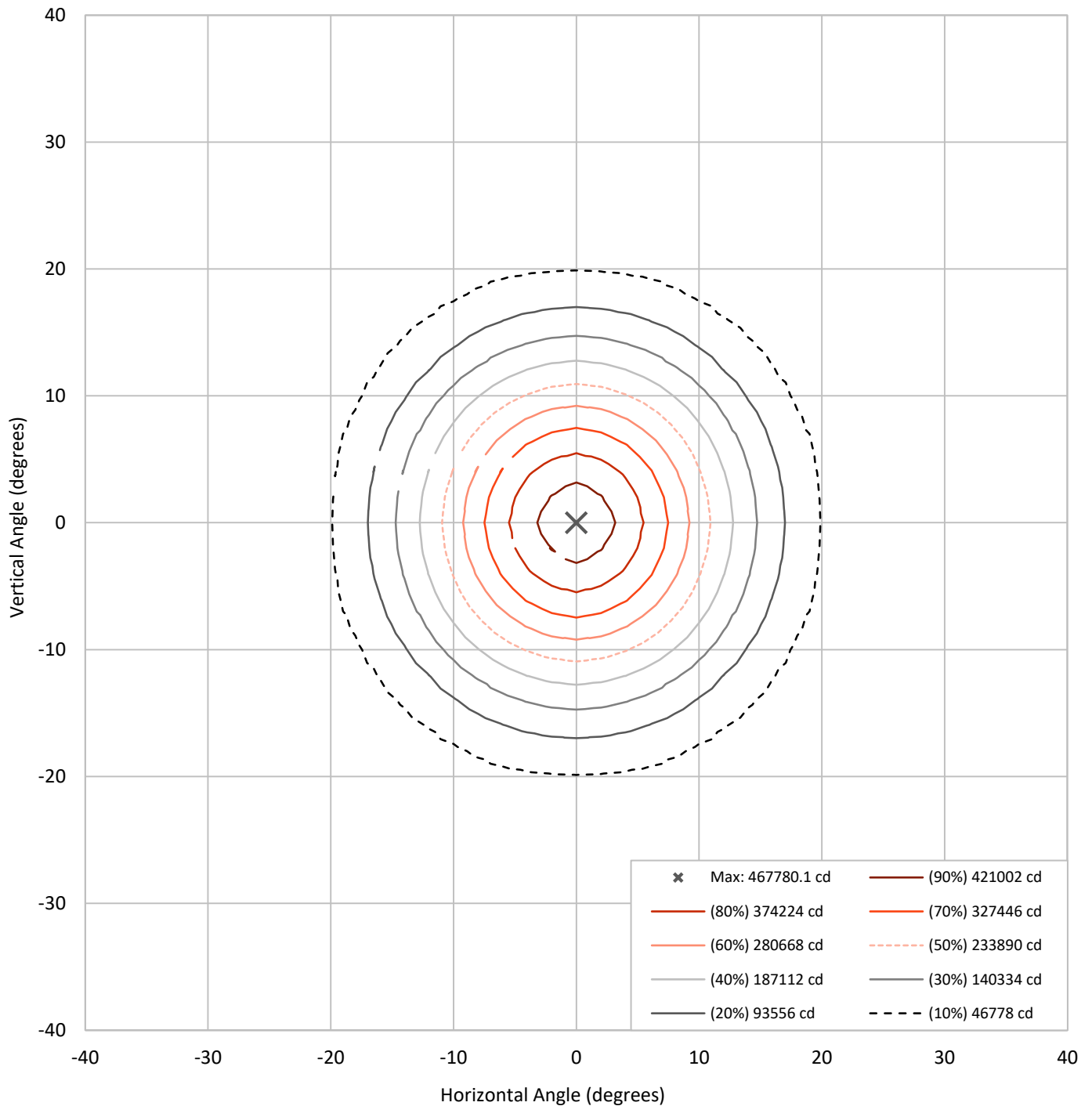
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	84466.6 lumens	Max Intensity:	467780.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	126.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.9°H x 21.9°V	Field Angle (10%):	39.8°H x 39.8°V
Beam Lumens:	36905.8 lumens	Field Lumens:	69268.5 lumens
Beam Efficiency:	43.7%	Field Efficiency:	82.0%
Input Watts (W):	667		
Input Voltage (V):	NR		
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





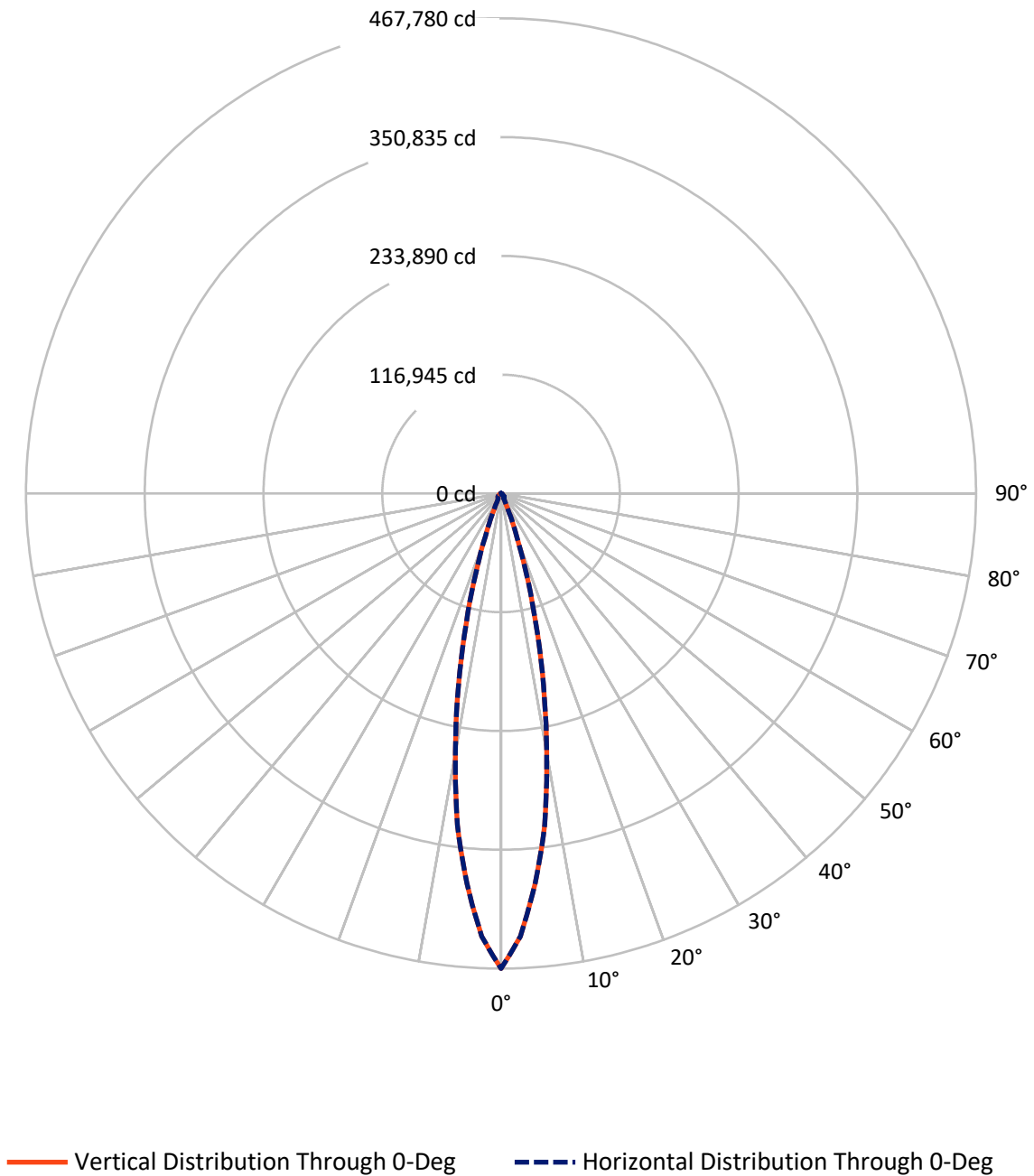
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### Lumen Table

90	0.0	0.6	2.5	6.6	8.9	6.6	2.5	0.6	0.0										
80	0.0	0.6	2.5	6.6	8.9	6.6	2.5	0.6	0.0										
70	0.3	0.4	1.6	5.0	10.1	15.6	20.1	22.7	22.7	20.1	15.6	10.1	5.0	1.6	0.4	0.3			
60		1.2	5.9	14.4	25.0	35.0	41.8	45.3	45.3	41.8	35.0	25.0	14.4	5.9	1.2				
50	0.8	3.1	11.8	25.2	38.6	62.4	95.7	115.0	115.0	95.7	62.4	38.6	25.2	11.8	3.1	0.8			
40		5.4	17.7	33.4	73.6	127.6	149.8	158.1	158.1	149.8	127.6	73.6	33.4	17.7	5.4				
30	2.0	7.5	22.4	49.2	115.5	144.7	207.6	427.3	427.3	207.6	144.7	115.5	49.2	22.4	7.5	2.0			
20		9.1	25.0	71.1	127.2	195.4	1231.6	3578.3	3578.3	1231.6	195.4	127.2	71.1	25.0	9.1				
10	2.5	9.9	26.2	82.6	130.0	393.8	3487.0	9595.1	9595.1	3487.0	393.8	130.0	82.6	26.2	9.9	2.5			
0		9.9	26.2	82.6	130.0	393.8	3487.0	9595.1	9595.1	3487.0	393.8	130.0	82.6	26.2	9.9				
-10	2.0	9.1	25.0	71.1	127.2	195.4	1231.6	3578.3	3578.3	1231.6	195.4	127.2	71.1	25.0	9.1	2.0			
-20		7.5	22.4	49.2	115.5	144.7	207.6	427.3	427.3	207.6	144.7	115.5	49.2	22.4	7.5				
-30	0.8	5.4	17.7	33.4	73.6	127.6	149.8	158.1	158.1	149.8	127.6	73.6	33.4	17.7	5.4	0.8			
-40		3.1	11.8	25.2	38.6	62.4	95.7	115.0	115.0	95.7	62.4	38.6	25.2	11.8	3.1				
-50	0.3	1.2	5.9	14.4	25.0	35.0	41.8	45.3	45.3	41.8	35.0	25.0	14.4	5.9	1.2	0.3			
-60		0.4	1.6	5.0	10.1	15.6	20.1	22.7	22.7	20.1	15.6	10.1	5.0	1.6	0.4				
-70	0.0	0.6	2.5	6.6	8.9	6.6	2.5	0.6	0.0										
-80		0.0	0.6	2.5	6.6	8.9	6.6	2.5	0.6	0.0									
-90	0.0	0.6	2.5	6.6	8.9	6.6	2.5	0.6	0.0										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

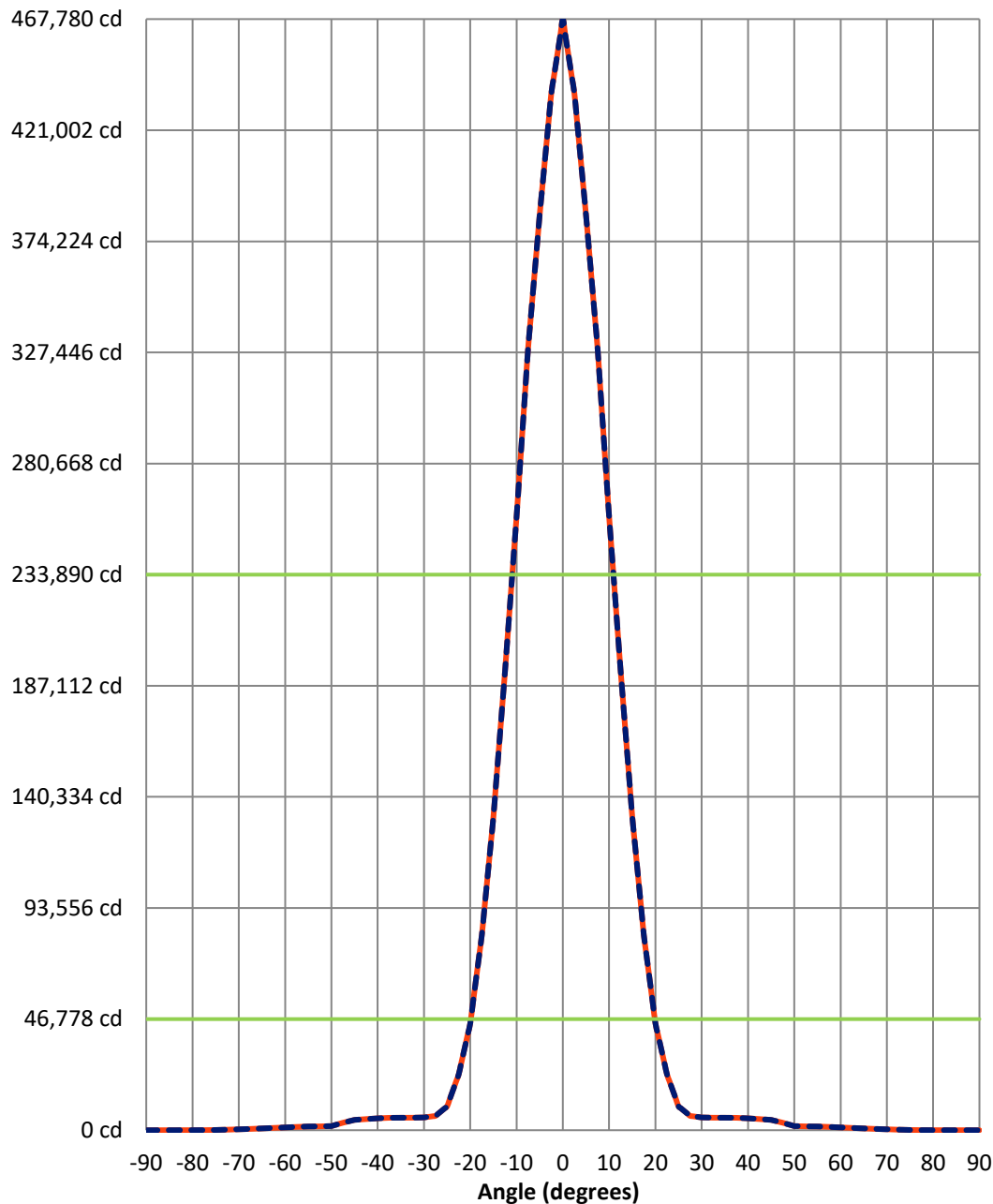
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.9°  
 V Angle: 21.9°  
 Lumens: 36905.8  
 Efficiency: 43.7%

**Field:**  
 H Angle: 39.8°  
 V Angle: 39.8°  
 Lumens: 69268.5  
 Efficiency: 82.0%

**Spill:**  
 Lumens: 15198.1  
 Efficiency: 18.0%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
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°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
85°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.4
82.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.7	2.3	2.8
80°	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.5	3.3	4.0	4.7
77.5°	0.0	0.3	0.7	1.0	1.4	1.9	2.9	3.9	4.8	5.7	7.0
75°	0.0	0.4	0.8	1.2	1.7	2.9	4.1	5.2	6.4	8.3	10.2
72.5°	0.0	0.5	1.0	1.4	2.5	3.9	5.2	6.8	9.0	11.2	13.4
70°	0.0	0.5	1.1	1.7	3.3	4.8	6.4	9.0	11.6	14.1	17.5
67.5°	0.0	0.6	1.2	2.3	4.0	5.7	8.3	11.2	14.1	18.0	21.9
65°	0.0	0.7	1.4	2.8	4.7	7.0	10.2	13.4	17.5	21.9	26.9
62.5°	0.0	0.7	1.5	3.4	5.5	8.5	12.0	16.1	20.9	26.1	33.5
60°	0.0	0.8	1.6	3.9	6.2	10.0	13.8	19.0	24.2	32.0	40.0
57.5°	0.0	0.9	1.9	4.4	7.3	11.4	16.2	21.8	29.0	37.7	56.1
55°	0.0	0.9	2.3	4.9	8.4	12.8	18.5	24.6	33.9	46.1	76.4
52.5°	0.0	1.0	2.6	5.4	9.5	14.3	20.8	28.7	38.8	63.9	96.1
50°	0.0	1.0	2.9	5.9	10.6	16.2	23.1	32.8	46.6	81.1	135.3
47.5°	0.0	1.1	3.2	6.4	11.6	18.0	25.4	36.7	61.4	97.8	175.5
45°	0.0	1.1	3.5	7.1	12.6	19.7	28.7	40.6	75.7	132.2	214.2
42.5°	0.0	1.2	3.8	7.8	13.5	21.3	31.8	49.0	89.3	165.7	262.2
40°	0.0	1.2	4.0	8.5	14.6	22.9	34.8	60.5	107.4	197.7	309.8
37.5°	0.0	1.3	4.3	9.1	15.8	24.4	37.6	71.3	134.4	231.0	355.2
35°	0.0	1.3	4.5	9.8	17.0	26.4	40.3	81.6	159.9	269.6	398.4
32.5°	0.0	1.3	4.8	10.3	18.0	28.5	44.5	91.3	184.0	305.9	439.5
30°	0.0	1.4	5.0	10.9	19.0	30.4	52.3	102.8	206.5	340.0	477.9
27.5°	0.0	1.4	5.2	11.3	19.9	32.3	59.4	121.0	230.1	371.6	513.7
25°	0.0	1.5	5.3	11.8	20.8	33.9	66.0	137.8	255.9	401.0	547.1
22.5°	0.0	1.5	5.5	12.2	21.6	35.5	72.0	153.1	279.4	427.9	584.8
20°	0.0	1.5	5.6	12.6	22.2	36.8	77.5	166.9	300.6	452.2	618.8
17.5°	0.0	1.5	5.8	12.9	22.9	38.1	82.3	179.2	319.4	473.8	649.1
15°	0.0	1.5	5.9	13.2	23.4	39.1	86.5	189.8	335.8	492.6	675.5
12.5°	0.0	1.6	6.0	13.4	23.9	40.0	90.0	198.9	349.8	508.7	698.0
10°	0.0	1.6	6.1	13.6	24.2	40.8	93.0	206.4	361.3	521.8	716.5
7.5°	0.0	1.6	6.1	13.8	24.5	41.4	95.3	212.2	370.2	532.1	730.9
5°	0.0	1.6	6.2	13.9	24.7	41.8	96.9	216.4	376.7	539.5	741.3
2.5°	0.0	1.6	6.2	14.0	24.9	42.0	97.9	218.9	380.5	543.9	747.5
0°	0.0	1.6	6.2	14.0	24.9	42.1	98.2	219.7	381.8	545.4	749.6
-2.5°	0.0	1.6	6.2	14.0	24.9	42.0	97.9	218.9	380.5	543.9	747.5
-5°	0.0	1.6	6.2	13.9	24.7	41.8	96.9	216.4	376.7	539.5	741.3
-7.5°	0.0	1.6	6.1	13.8	24.5	41.4	95.3	212.2	370.2	532.1	730.9
-10°	0.0	1.6	6.1	13.6	24.2	40.8	93.0	206.4	361.3	521.8	716.5
-12.5°	0.0	1.6	6.0	13.4	23.9	40.0	90.0	198.9	349.8	508.7	698.0
-15°	0.0	1.5	5.9	13.2	23.4	39.1	86.5	189.8	335.8	492.6	675.5
-17.5°	0.0	1.5	5.8	12.9	22.9	38.1	82.3	179.2	319.4	473.8	649.1
-20°	0.0	1.5	5.6	12.6	22.2	36.8	77.5	166.9	300.6	452.2	618.8



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	1.5	5.5	12.2	21.6	35.5	72.0	153.1	279.4	427.9	584.8
-25°	0.0	1.5	5.3	11.8	20.8	33.9	66.0	137.8	255.9	401.0	547.1
-27.5°	0.0	1.4	5.2	11.3	19.9	32.3	59.4	121.0	230.1	371.6	513.7
-30°	0.0	1.4	5.0	10.9	19.0	30.4	52.3	102.8	206.5	340.0	477.9
-32.5°	0.0	1.3	4.8	10.3	18.0	28.5	44.5	91.3	184.0	305.9	439.5
-35°	0.0	1.3	4.5	9.8	17.0	26.4	40.3	81.6	159.9	269.6	398.4
-37.5°	0.0	1.3	4.3	9.1	15.8	24.4	37.6	71.3	134.4	231.0	355.2
-40°	0.0	1.2	4.0	8.5	14.6	22.9	34.8	60.5	107.4	197.7	309.8
-42.5°	0.0	1.2	3.8	7.8	13.5	21.3	31.8	49.0	89.3	165.7	262.2
-45°	0.0	1.1	3.5	7.1	12.6	19.7	28.7	40.6	75.7	132.2	214.2
-47.5°	0.0	1.1	3.2	6.4	11.6	18.0	25.4	36.7	61.4	97.8	175.5
-50°	0.0	1.0	2.9	5.9	10.6	16.2	23.1	32.8	46.6	81.1	135.3
-52.5°	0.0	1.0	2.6	5.4	9.5	14.3	20.8	28.7	38.8	63.9	96.1
-55°	0.0	0.9	2.3	4.9	8.4	12.8	18.5	24.6	33.9	46.1	76.4
-57.5°	0.0	0.9	1.9	4.4	7.3	11.4	16.2	21.8	29.0	37.7	56.1
-60°	0.0	0.8	1.6	3.9	6.2	10.0	13.8	19.0	24.2	32.0	40.0
-62.5°	0.0	0.7	1.5	3.4	5.5	8.5	12.0	16.1	20.9	26.1	33.5
-65°	0.0	0.7	1.4	2.8	4.7	7.0	10.2	13.4	17.5	21.9	26.9
-67.5°	0.0	0.6	1.2	2.3	4.0	5.7	8.3	11.2	14.1	18.0	21.9
-70°	0.0	0.5	1.1	1.7	3.3	4.8	6.4	9.0	11.6	14.1	17.5
-72.5°	0.0	0.5	1.0	1.4	2.5	3.9	5.2	6.8	9.0	11.2	13.4
-75°	0.0	0.4	0.8	1.2	1.7	2.9	4.1	5.2	6.4	8.3	10.2
-77.5°	0.0	0.3	0.7	1.0	1.4	1.9	2.9	3.9	4.8	5.7	7.0
-80°	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.5	3.3	4.0	4.7
-82.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.7	2.3	2.8
-85°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.4
-87.5°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
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°	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
85°	1.5	1.6	1.9	2.3	2.6	2.9	3.2	3.5	3.8	4.0	4.3
82.5°	3.4	3.9	4.4	4.9	5.4	5.9	6.4	7.1	7.8	8.5	9.1
80°	5.5	6.2	7.3	8.4	9.5	10.6	11.6	12.6	13.5	14.6	15.8
77.5°	8.5	10.0	11.4	12.8	14.3	16.2	18.0	19.7	21.3	22.9	24.4
75°	12.0	13.8	16.2	18.5	20.8	23.1	25.4	28.7	31.8	34.8	37.6
72.5°	16.1	19.0	21.8	24.6	28.7	32.8	36.7	40.6	49.0	60.5	71.3
70°	20.9	24.2	29.0	33.9	38.8	46.6	61.4	75.7	89.3	107.4	134.4
67.5°	26.1	32.0	37.7	46.1	63.9	81.1	97.8	132.2	165.7	197.7	231.0
65°	33.5	40.0	56.1	76.4	96.1	135.3	175.5	214.2	262.2	309.8	355.2
62.5°	40.8	61.1	83.9	115.6	162.6	208.3	263.6	320.6	375.5	428.6	479.3
60°	61.1	86.5	126.6	179.2	234.0	300.6	365.1	427.9	488.6	547.1	616.5
57.5°	83.9	126.6	184.7	248.9	322.9	395.2	465.8	534.2	613.8	692.8	769.3
55°	115.6	179.2	248.9	330.4	410.4	488.8	569.8	662.0	751.0	840.5	926.2
52.5°	162.6	234.0	322.9	410.4	496.5	589.2	691.2	792.0	892.1	987.7	1077.5
50°	208.3	300.6	395.2	488.8	589.2	701.0	812.6	923.3	1028.5	1128.8	1229.3
47.5°	263.6	365.1	465.8	569.8	691.2	812.6	933.8	1049.0	1160.0	1274.4	1385.2
45°	320.6	427.9	534.2	662.0	792.0	923.3	1049.0	1170.4	1297.1	1414.0	1506.6
42.5°	375.5	488.6	613.8	751.0	892.1	1028.5	1160.0	1297.1	1423.1	1525.0	1579.7
40°	428.6	547.1	692.8	840.5	987.7	1128.8	1274.4	1414.0	1525.0	1581.7	1604.1
37.5°	479.3	616.5	769.3	926.2	1077.5	1229.3	1385.2	1506.6	1579.7	1604.1	1688.8
35°	527.4	682.5	844.6	1006.6	1163.1	1328.3	1470.1	1573.7	1600.0	1681.0	2042.2
32.5°	579.7	744.8	915.8	1081.7	1249.9	1416.1	1549.3	1591.9	1657.8	1882.0	2863.7
30°	632.9	805.9	982.2	1152.5	1332.3	1485.8	1579.9	1619.7	1726.2	2618.6	3574.3
27.5°	682.5	863.0	1042.9	1222.3	1405.9	1551.1	1595.0	1679.8	2215.7	3290.1	4209.0
25°	728.3	915.8	1099.2	1288.2	1462.0	1577.2	1619.4	1735.9	2824.5	3847.4	4473.8
22.5°	771.1	964.1	1150.7	1348.6	1513.6	1589.2	1667.4	2186.3	3352.4	4347.2	4633.1
20°	810.7	1006.6	1199.3	1401.2	1560.3	1600.1	1711.1	2663.6	3791.9	4483.1	4774.2
17.5°	845.9	1044.4	1244.0	1439.5	1575.2	1622.4	1808.3	3092.2	4187.5	4605.7	4899.4
15°	876.7	1077.5	1283.1	1473.1	1583.0	1654.1	2156.2	3422.0	4396.5	4712.5	5009.3
12.5°	902.9	1105.6	1316.5	1501.8	1589.7	1681.2	2454.2	3698.3	4482.6	4800.8	5073.9
10°	924.5	1128.8	1343.9	1525.4	1595.3	1703.6	2700.7	3927.1	4554.0	4874.1	5127.6
7.5°	941.3	1147.0	1365.4	1543.9	1599.6	1721.1	2894.1	4106.8	4610.1	4931.9	5170.0
5°	953.4	1160.0	1380.8	1557.1	1602.7	1733.8	3033.1	4236.2	4650.5	4973.6	5200.7
2.5°	960.7	1167.8	1390.1	1565.1	1604.6	1741.4	3116.9	4314.1	4674.9	4998.8	5219.2
0°	963.1	1170.4	1393.2	1567.8	1605.2	1743.9	3144.9	4340.2	4683.1	5007.2	5225.4
-2.5°	960.7	1167.8	1390.1	1565.1	1604.6	1741.4	3116.9	4314.1	4674.9	4998.8	5219.2
-5°	953.4	1160.0	1380.8	1557.1	1602.7	1733.8	3033.1	4236.2	4650.5	4973.6	5200.7
-7.5°	941.3	1147.0	1365.4	1543.9	1599.6	1721.1	2894.1	4106.8	4610.1	4931.9	5170.0
-10°	924.5	1128.8	1343.9	1525.4	1595.3	1703.6	2700.7	3927.1	4554.0	4874.1	5127.6
-12.5°	902.9	1105.6	1316.5	1501.8	1589.7	1681.2	2454.2	3698.3	4482.6	4800.8	5073.9
-15°	876.7	1077.5	1283.1	1473.1	1583.0	1654.1	2156.2	3422.0	4396.5	4712.5	5009.3
-17.5°	845.9	1044.4	1244.0	1439.5	1575.2	1622.4	1808.3	3092.2	4187.5	4605.7	4899.4
-20°	810.7	1006.6	1199.3	1401.2	1560.3	1600.1	1711.1	2663.6	3791.9	4483.1	4774.2



REPORT NUMBER: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	771.1	964.1	1150.7	1348.6	1513.6	1589.2	1667.4	2186.3	3352.4	4347.2	4633.1
-25°	728.3	915.8	1099.2	1288.2	1462.0	1577.2	1619.4	1735.9	2824.5	3847.4	4473.8
-27.5°	682.5	863.0	1042.9	1222.3	1405.9	1551.1	1595.0	1679.8	2215.7	3290.1	4209.0
-30°	632.9	805.9	982.2	1152.5	1332.3	1485.8	1579.9	1619.7	1726.2	2618.6	3574.3
-32.5°	579.7	744.8	915.8	1081.7	1249.9	1416.1	1549.3	1591.9	1657.8	1882.0	2863.7
-35°	527.4	682.5	844.6	1006.6	1163.1	1328.3	1470.1	1573.7	1600.0	1681.0	2042.2
-37.5°	479.3	616.5	769.3	926.2	1077.5	1229.3	1385.2	1506.6	1579.7	1604.1	1688.8
-40°	428.6	547.1	692.8	840.5	987.7	1128.8	1274.4	1414.0	1525.0	1581.7	1604.1
-42.5°	375.5	488.6	613.8	751.0	892.1	1028.5	1160.0	1297.1	1423.1	1525.0	1579.7
-45°	320.6	427.9	534.2	662.0	792.0	923.3	1049.0	1170.4	1297.1	1414.0	1506.6
-47.5°	263.6	365.1	465.8	569.8	691.2	812.6	933.8	1049.0	1160.0	1274.4	1385.2
-50°	208.3	300.6	395.2	488.8	589.2	701.0	812.6	923.3	1028.5	1128.8	1229.3
-52.5°	162.6	234.0	322.9	410.4	496.5	589.2	691.2	792.0	892.1	987.7	1077.5
-55°	115.6	179.2	248.9	330.4	410.4	488.8	569.8	662.0	751.0	840.5	926.2
-57.5°	83.9	126.6	184.7	248.9	322.9	395.2	465.8	534.2	613.8	692.8	769.3
-60°	61.1	86.5	126.6	179.2	234.0	300.6	365.1	427.9	488.6	547.1	616.5
-62.5°	40.8	61.1	83.9	115.6	162.6	208.3	263.6	320.6	375.5	428.6	479.3
-65°	33.5	40.0	56.1	76.4	96.1	135.3	175.5	214.2	262.2	309.8	355.2
-67.5°	26.1	32.0	37.7	46.1	63.9	81.1	97.8	132.2	165.7	197.7	231.0
-70°	20.9	24.2	29.0	33.9	38.8	46.6	61.4	75.7	89.3	107.4	134.4
-72.5°	16.1	19.0	21.8	24.6	28.7	32.8	36.7	40.6	49.0	60.5	71.3
-75°	12.0	13.8	16.2	18.5	20.8	23.1	25.4	28.7	31.8	34.8	37.6
-77.5°	8.5	10.0	11.4	12.8	14.3	16.2	18.0	19.7	21.3	22.9	24.4
-80°	5.5	6.2	7.3	8.4	9.5	10.6	11.6	12.6	13.5	14.6	15.8
-82.5°	3.4	3.9	4.4	4.9	5.4	5.9	6.4	7.1	7.8	8.5	9.1
-85°	1.5	1.6	1.9	2.3	2.6	2.9	3.2	3.5	3.8	4.0	4.3
-87.5°	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
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°	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.6
85°	4.5	4.8	5.0	5.2	5.3	5.5	5.6	5.8	5.9	6.0	6.1
82.5°	9.8	10.3	10.9	11.3	11.8	12.2	12.6	12.9	13.2	13.4	13.6
80°	17.0	18.0	19.0	19.9	20.8	21.6	22.2	22.9	23.4	23.9	24.2
77.5°	26.4	28.5	30.4	32.3	33.9	35.5	36.8	38.1	39.1	40.0	40.8
75°	40.3	44.5	52.3	59.4	66.0	72.0	77.5	82.3	86.5	90.0	93.0
72.5°	81.6	91.3	102.8	121.0	137.8	153.1	166.9	179.2	189.8	198.9	206.4
70°	159.9	184.0	206.5	230.1	255.9	279.4	300.6	319.4	335.8	349.8	361.3
67.5°	269.6	305.9	340.0	371.6	401.0	427.9	452.2	473.8	492.6	508.7	521.8
65°	398.4	439.5	477.9	513.7	547.1	584.8	618.8	649.1	675.5	698.0	716.5
62.5°	527.4	579.7	632.9	682.5	728.3	771.1	810.7	845.9	876.7	902.9	924.5
60°	682.5	744.8	805.9	863.0	915.8	964.1	1006.6	1044.4	1077.5	1105.6	1128.8
57.5°	844.6	915.8	982.2	1042.9	1099.2	1150.7	1199.3	1244.0	1283.1	1316.5	1343.9
55°	1006.6	1081.7	1152.5	1222.3	1288.2	1348.6	1401.2	1439.5	1473.1	1501.8	1525.4
52.5°	1163.1	1249.9	1332.3	1405.9	1462.0	1513.6	1560.3	1575.2	1583.0	1589.7	1595.3
50°	1328.3	1416.1	1485.8	1551.1	1577.2	1589.2	1600.1	1622.4	1654.1	1681.2	1703.6
47.5°	1470.1	1549.3	1579.9	1595.0	1619.4	1667.4	1711.1	1808.3	2156.2	2454.2	2700.7
45°	1573.7	1591.9	1619.7	1679.8	1735.9	2186.3	2663.6	3092.2	3422.0	3698.3	3927.1
42.5°	1600.0	1657.8	1726.2	2215.7	2824.5	3352.4	3791.9	4187.5	4396.5	4482.6	4554.0
40°	1681.0	1882.0	2618.6	3290.1	3847.4	4347.2	4483.1	4605.7	4712.5	4800.8	4874.1
37.5°	2042.2	2863.7	3574.3	4209.0	4473.8	4633.1	4774.2	4899.4	5009.3	5073.9	5127.6
35°	2946.0	3718.0	4365.8	4559.9	4739.7	4901.2	5036.1	5127.1	5208.1	5231.8	5238.9
32.5°	3718.0	4387.0	4603.5	4803.1	4987.9	5110.8	5218.6	5236.5	5247.2	5254.6	5259.1
30°	4365.8	4603.5	4824.5	5023.8	5156.5	5232.2	5246.3	5256.2	5263.0	5276.9	5310.3
27.5°	4559.9	4803.1	5023.8	5171.8	5236.0	5252.1	5261.0	5279.0	5328.4	5371.7	5600.8
25°	4739.7	4987.9	5156.5	5236.0	5253.3	5263.5	5304.7	5364.0	5659.4	5957.1	7139.5
22.5°	4901.2	5110.8	5232.2	5252.1	5263.5	5313.4	5436.4	5838.4	7111.0	9102.0	12637.1
20°	5036.1	5218.6	5246.3	5261.0	5304.7	5436.4	5899.2	7890.6	11032.2	18387.8	25485.1
17.5°	5127.1	5236.5	5256.2	5279.0	5364.0	5838.4	7890.6	12438.2	21369.3	33029.6	44328.0
15°	5208.1	5247.2	5263.0	5328.4	5659.4	7111.0	11032.2	21369.3	35617.3	53415.4	75245.4
12.5°	5231.8	5254.6	5276.9	5371.7	5957.1	9102.0	18387.8	33029.6	53415.4	80547.4	112848.6
10°	5238.9	5259.1	5310.3	5600.8	7139.5	12637.1	25485.1	44328.0	75245.4	112848.6	153769.6
7.5°	5244.5	5262.7	5336.9	5784.7	8380.0	17273.8	33765.0	59954.9	97433.4	143004.8	193610.4
5°	5248.6	5265.4	5356.2	5918.8	9289.3	20692.1	39916.5	72052.8	116128.6	169845.4	227739.5
2.5°	5251.1	5267.0	5368.0	6000.6	9844.7	22789.2	43712.4	79579.2	127899.7	187058.6	250288.8
0°	5251.9	5267.5	5371.9	6028.0	10031.6	23496.3	44996.3	82136.5	131926.5	193011.9	258238.0
-2.5°	5251.1	5267.0	5368.0	6000.6	9844.7	22789.2	43712.4	79579.2	127899.7	187058.6	250288.8
-5°	5248.6	5265.4	5356.2	5918.8	9289.3	20692.1	39916.5	72052.8	116128.6	169845.4	227739.5
-7.5°	5244.5	5262.7	5336.9	5784.7	8380.0	17273.8	33765.0	59954.9	97433.4	143004.8	193610.4
-10°	5238.9	5259.1	5310.3	5600.8	7139.5	12637.1	25485.1	44328.0	75245.4	112848.6	153769.6
-12.5°	5231.8	5254.6	5276.9	5371.7	5957.1	9102.0	18387.8	33029.6	53415.4	80547.4	112848.6
-15°	5208.1	5247.2	5263.0	5328.4	5659.4	7111.0	11032.2	21369.3	35617.3	53415.4	75245.4
-17.5°	5127.1	5236.5	5256.2	5279.0	5364.0	5838.4	7890.6	12438.2	21369.3	33029.6	44328.0
-20°	5036.1	5218.6	5246.3	5261.0	5304.7	5436.4	5899.2	7890.6	11032.2	18387.8	25485.1



REPORT NUMBER: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4901.2	5110.8	5232.2	5252.1	5263.5	5313.4	5436.4	5838.4	7111.0	9102.0	12637.1
-25°	4739.7	4987.9	5156.5	5236.0	5253.3	5263.5	5304.7	5364.0	5659.4	5957.1	7139.5
-27.5°	4559.9	4803.1	5023.8	5171.8	5236.0	5252.1	5261.0	5279.0	5328.4	5371.7	5600.8
-30°	4365.8	4603.5	4824.5	5023.8	5156.5	5232.2	5246.3	5256.2	5263.0	5276.9	5310.3
-32.5°	3718.0	4387.0	4603.5	4803.1	4987.9	5110.8	5218.6	5236.5	5247.2	5254.6	5259.1
-35°	2946.0	3718.0	4365.8	4559.9	4739.7	4901.2	5036.1	5127.1	5208.1	5231.8	5238.9
-37.5°	2042.2	2863.7	3574.3	4209.0	4473.8	4633.1	4774.2	4899.4	5009.3	5073.9	5127.6
-40°	1681.0	1882.0	2618.6	3290.1	3847.4	4347.2	4483.1	4605.7	4712.5	4800.8	4874.1
-42.5°	1600.0	1657.8	1726.2	2215.7	2824.5	3352.4	3791.9	4187.5	4396.5	4482.6	4554.0
-45°	1573.7	1591.9	1619.7	1679.8	1735.9	2186.3	2663.6	3092.2	3422.0	3698.3	3927.1
-47.5°	1470.1	1549.3	1579.9	1595.0	1619.4	1667.4	1711.1	1808.3	2156.2	2454.2	2700.7
-50°	1328.3	1416.1	1485.8	1551.1	1577.2	1589.2	1600.1	1622.4	1654.1	1681.2	1703.6
-52.5°	1163.1	1249.9	1332.3	1405.9	1462.0	1513.6	1560.3	1575.2	1583.0	1589.7	1595.3
-55°	1006.6	1081.7	1152.5	1222.3	1288.2	1348.6	1401.2	1439.5	1473.1	1501.8	1525.4
-57.5°	844.6	915.8	982.2	1042.9	1099.2	1150.7	1199.3	1244.0	1283.1	1316.5	1343.9
-60°	682.5	744.8	805.9	863.0	915.8	964.1	1006.6	1044.4	1077.5	1105.6	1128.8
-62.5°	527.4	579.7	632.9	682.5	728.3	771.1	810.7	845.9	876.7	902.9	924.5
-65°	398.4	439.5	477.9	513.7	547.1	584.8	618.8	649.1	675.5	698.0	716.5
-67.5°	269.6	305.9	340.0	371.6	401.0	427.9	452.2	473.8	492.6	508.7	521.8
-70°	159.9	184.0	206.5	230.1	255.9	279.4	300.6	319.4	335.8	349.8	361.3
-72.5°	81.6	91.3	102.8	121.0	137.8	153.1	166.9	179.2	189.8	198.9	206.4
-75°	40.3	44.5	52.3	59.4	66.0	72.0	77.5	82.3	86.5	90.0	93.0
-77.5°	26.4	28.5	30.4	32.3	33.9	35.5	36.8	38.1	39.1	40.0	40.8
-80°	17.0	18.0	19.0	19.9	20.8	21.6	22.2	22.9	23.4	23.9	24.2
-82.5°	9.8	10.3	10.9	11.3	11.8	12.2	12.6	12.9	13.2	13.4	13.6
-85°	4.5	4.8	5.0	5.2	5.3	5.5	5.6	5.8	5.9	6.0	6.1
-87.5°	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
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°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5
85°	6.1	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.0	5.9	5.8
82.5°	13.8	13.9	14.0	14.0	14.0	13.9	13.8	13.6	13.4	13.2	12.9
80°	24.5	24.7	24.9	24.9	24.9	24.7	24.5	24.2	23.9	23.4	22.9
77.5°	41.4	41.8	42.0	42.1	42.0	41.8	41.4	40.8	40.0	39.1	38.1
75°	95.3	96.9	97.9	98.2	97.9	96.9	95.3	93.0	90.0	86.5	82.3
72.5°	212.2	216.4	218.9	219.7	218.9	216.4	212.2	206.4	198.9	189.8	179.2
70°	370.2	376.7	380.5	381.8	380.5	376.7	370.2	361.3	349.8	335.8	319.4
67.5°	532.1	539.5	543.9	545.4	543.9	539.5	532.1	521.8	508.7	492.6	473.8
65°	730.9	741.3	747.5	749.6	747.5	741.3	730.9	716.5	698.0	675.5	649.1
62.5°	941.3	953.4	960.7	963.1	960.7	953.4	941.3	924.5	902.9	876.7	845.9
60°	1147.0	1160.0	1167.8	1170.4	1167.8	1160.0	1147.0	1128.8	1105.6	1077.5	1044.4
57.5°	1365.4	1380.8	1390.1	1393.2	1390.1	1380.8	1365.4	1343.9	1316.5	1283.1	1244.0
55°	1543.9	1557.1	1565.1	1567.8	1565.1	1557.1	1543.9	1525.4	1501.8	1473.1	1439.5
52.5°	1599.6	1602.7	1604.6	1605.2	1604.6	1602.7	1599.6	1595.3	1589.7	1583.0	1575.2
50°	1721.1	1733.8	1741.4	1743.9	1741.4	1733.8	1721.1	1703.6	1681.2	1654.1	1622.4
47.5°	2894.1	3033.1	3116.9	3144.9	3116.9	3033.1	2894.1	2700.7	2454.2	2156.2	1808.3
45°	4106.8	4236.2	4314.1	4340.2	4314.1	4236.2	4106.8	3927.1	3698.3	3422.0	3092.2
42.5°	4610.1	4650.5	4674.9	4683.1	4674.9	4650.5	4610.1	4554.0	4482.6	4396.5	4187.5
40°	4931.9	4973.6	4998.8	5007.2	4998.8	4973.6	4931.9	4874.1	4800.8	4712.5	4605.7
37.5°	5170.0	5200.7	5219.2	5225.4	5219.2	5200.7	5170.0	5127.6	5073.9	5009.3	4899.4
35°	5244.5	5248.6	5251.1	5251.9	5251.1	5248.6	5244.5	5238.9	5231.8	5208.1	5127.1
32.5°	5262.7	5265.4	5267.0	5267.5	5267.0	5265.4	5262.7	5259.1	5254.6	5247.2	5236.5
30°	5336.9	5356.2	5368.0	5371.9	5368.0	5356.2	5336.9	5310.3	5276.9	5263.0	5256.2
27.5°	5784.7	5918.8	6000.6	6028.0	6000.6	5918.8	5784.7	5600.8	5371.7	5328.4	5279.0
25°	8380.0	9289.3	9844.7	10031.6	9844.7	9289.3	8380.0	7139.5	5957.1	5659.4	5364.0
22.5°	17273.8	20692.1	22789.2	23496.3	22789.2	20692.1	17273.8	12637.1	9102.0	7111.0	5838.4
20°	33765.0	39916.5	43712.4	44996.3	43712.4	39916.5	33765.0	25485.1	18387.8	11032.2	7890.6
17.5°	59954.9	72052.8	79579.2	82136.5	79579.2	72052.8	59954.9	44328.0	33029.6	21369.3	12438.2
15°	97433.4	116128.6	127899.7	131926.5	127899.7	116128.6	97433.4	75245.4	53415.4	35617.3	21369.3
12.5°	143004.8	169845.4	187058.6	193011.9	187058.6	169845.4	143004.8	112848.6	80547.4	53415.4	33029.6
10°	193610.4	227739.5	250288.8	258238.0	250288.8	227739.5	193610.4	153769.6	112848.6	75245.4	44328.0
7.5°	242807.8	286003.7	318378.0	329351.1	318378.0	286003.7	242807.8	193610.4	143004.8	97433.4	59954.9
5°	286003.7	341139.8	374003.5	385444.1	374003.5	341139.8	286003.7	227739.5	169845.4	116128.6	72052.8
2.5°	318378.0	374003.5	414160.6	436467.6	414160.6	374003.5	318378.0	250288.8	187058.6	127899.7	79579.2
0°	329351.1	385444.1	436467.6	467780.1	436467.6	385444.1	329351.1	258238.0	193011.9	131926.5	82136.5
-2.5°	318378.0	374003.5	414160.6	436467.6	414160.6	374003.5	318378.0	250288.8	187058.6	127899.7	79579.2
-5°	286003.7	341139.8	374003.5	385444.1	374003.5	341139.8	286003.7	227739.5	169845.4	116128.6	72052.8
-7.5°	242807.8	286003.7	318378.0	329351.1	318378.0	286003.7	242807.8	193610.4	143004.8	97433.4	59954.9
-10°	193610.4	227739.5	250288.8	258238.0	250288.8	227739.5	193610.4	153769.6	112848.6	75245.4	44328.0
-12.5°	143004.8	169845.4	187058.6	193011.9	187058.6	169845.4	143004.8	112848.6	80547.4	53415.4	33029.6
-15°	97433.4	116128.6	127899.7	131926.5	127899.7	116128.6	97433.4	75245.4	53415.4	35617.3	21369.3
-17.5°	59954.9	72052.8	79579.2	82136.5	79579.2	72052.8	59954.9	44328.0	33029.6	21369.3	12438.2
-20°	33765.0	39916.5	43712.4	44996.3	43712.4	39916.5	33765.0	25485.1	18387.8	11032.2	7890.6



REPORT NUMBER: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	17273.8	20692.1	22789.2	23496.3	22789.2	20692.1	17273.8	12637.1	9102.0	7111.0	5838.4
-25°	8380.0	9289.3	9844.7	10031.6	9844.7	9289.3	8380.0	7139.5	5957.1	5659.4	5364.0
-27.5°	5784.7	5918.8	6000.6	6028.0	6000.6	5918.8	5784.7	5600.8	5371.7	5328.4	5279.0
-30°	5336.9	5356.2	5368.0	5371.9	5368.0	5356.2	5336.9	5310.3	5276.9	5263.0	5256.2
-32.5°	5262.7	5265.4	5267.0	5267.5	5267.0	5265.4	5262.7	5259.1	5254.6	5247.2	5236.5
-35°	5244.5	5248.6	5251.1	5251.9	5251.1	5248.6	5244.5	5238.9	5231.8	5208.1	5127.1
-37.5°	5170.0	5200.7	5219.2	5225.4	5219.2	5200.7	5170.0	5127.6	5073.9	5009.3	4899.4
-40°	4931.9	4973.6	4998.8	5007.2	4998.8	4973.6	4931.9	4874.1	4800.8	4712.5	4605.7
-42.5°	4610.1	4650.5	4674.9	4683.1	4674.9	4650.5	4610.1	4554.0	4482.6	4396.5	4187.5
-45°	4106.8	4236.2	4314.1	4340.2	4314.1	4236.2	4106.8	3927.1	3698.3	3422.0	3092.2
-47.5°	2894.1	3033.1	3116.9	3144.9	3116.9	3033.1	2894.1	2700.7	2454.2	2156.2	1808.3
-50°	1721.1	1733.8	1741.4	1743.9	1741.4	1733.8	1721.1	1703.6	1681.2	1654.1	1622.4
-52.5°	1599.6	1602.7	1604.6	1605.2	1604.6	1602.7	1599.6	1595.3	1589.7	1583.0	1575.2
-55°	1543.9	1557.1	1565.1	1567.8	1565.1	1557.1	1543.9	1525.4	1501.8	1473.1	1439.5
-57.5°	1365.4	1380.8	1390.1	1393.2	1390.1	1380.8	1365.4	1343.9	1316.5	1283.1	1244.0
-60°	1147.0	1160.0	1167.8	1170.4	1167.8	1160.0	1147.0	1128.8	1105.6	1077.5	1044.4
-62.5°	941.3	953.4	960.7	963.1	960.7	953.4	941.3	924.5	902.9	876.7	845.9
-65°	730.9	741.3	747.5	749.6	747.5	741.3	730.9	716.5	698.0	675.5	649.1
-67.5°	532.1	539.5	543.9	545.4	543.9	539.5	532.1	521.8	508.7	492.6	473.8
-70°	370.2	376.7	380.5	381.8	380.5	376.7	370.2	361.3	349.8	335.8	319.4
-72.5°	212.2	216.4	218.9	219.7	218.9	216.4	212.2	206.4	198.9	189.8	179.2
-75°	95.3	96.9	97.9	98.2	97.9	96.9	95.3	93.0	90.0	86.5	82.3
-77.5°	41.4	41.8	42.0	42.1	42.0	41.8	41.4	40.8	40.0	39.1	38.1
-80°	24.5	24.7	24.9	24.9	24.9	24.7	24.5	24.2	23.9	23.4	22.9
-82.5°	13.8	13.9	14.0	14.0	14.0	13.9	13.8	13.6	13.4	13.2	12.9
-85°	6.1	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.0	5.9	5.8
-87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
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°	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1
85°	5.6	5.5	5.3	5.2	5.0	4.8	4.5	4.3	4.0	3.8	3.5
82.5°	12.6	12.2	11.8	11.3	10.9	10.3	9.8	9.1	8.5	7.8	7.1
80°	22.2	21.6	20.8	19.9	19.0	18.0	17.0	15.8	14.6	13.5	12.6
77.5°	36.8	35.5	33.9	32.3	30.4	28.5	26.4	24.4	22.9	21.3	19.7
75°	77.5	72.0	66.0	59.4	52.3	44.5	40.3	37.6	34.8	31.8	28.7
72.5°	166.9	153.1	137.8	121.0	102.8	91.3	81.6	71.3	60.5	49.0	40.6
70°	300.6	279.4	255.9	230.1	206.5	184.0	159.9	134.4	107.4	89.3	75.7
67.5°	452.2	427.9	401.0	371.6	340.0	305.9	269.6	231.0	197.7	165.7	132.2
65°	618.8	584.8	547.1	513.7	477.9	439.5	398.4	355.2	309.8	262.2	214.2
62.5°	810.7	771.1	728.3	682.5	632.9	579.7	527.4	479.3	428.6	375.5	320.6
60°	1006.6	964.1	915.8	863.0	805.9	744.8	682.5	616.5	547.1	488.6	427.9
57.5°	1199.3	1150.7	1099.2	1042.9	982.2	915.8	844.6	769.3	692.8	613.8	534.2
55°	1401.2	1348.6	1288.2	1222.3	1152.5	1081.7	1006.6	926.2	840.5	751.0	662.0
52.5°	1560.3	1513.6	1462.0	1405.9	1332.3	1249.9	1163.1	1077.5	987.7	892.1	792.0
50°	1600.1	1589.2	1577.2	1551.1	1485.8	1416.1	1328.3	1229.3	1128.8	1028.5	923.3
47.5°	1711.1	1667.4	1619.4	1595.0	1579.9	1549.3	1470.1	1385.2	1274.4	1160.0	1049.0
45°	2663.6	2186.3	1735.9	1679.8	1619.7	1591.9	1573.7	1506.6	1414.0	1297.1	1170.4
42.5°	3791.9	3352.4	2824.5	2215.7	1726.2	1657.8	1600.0	1579.7	1525.0	1423.1	1297.1
40°	4483.1	4347.2	3847.4	3290.1	2618.6	1882.0	1681.0	1604.1	1581.7	1525.0	1414.0
37.5°	4774.2	4633.1	4473.8	4209.0	3574.3	2863.7	2042.2	1688.8	1604.1	1579.7	1506.6
35°	5036.1	4901.2	4739.7	4559.9	4365.8	3718.0	2946.0	2042.2	1681.0	1600.0	1573.7
32.5°	5218.6	5110.8	4987.9	4803.1	4603.5	4387.0	3718.0	2863.7	1882.0	1657.8	1591.9
30°	5246.3	5232.2	5156.5	5023.8	4824.5	4603.5	4365.8	3574.3	2618.6	1726.2	1619.7
27.5°	5261.0	5252.1	5236.0	5171.8	5023.8	4803.1	4559.9	4209.0	3290.1	2215.7	1679.8
25°	5304.7	5263.5	5253.3	5236.0	5156.5	4987.9	4739.7	4473.8	3847.4	2824.5	1735.9
22.5°	5436.4	5313.4	5263.5	5252.1	5232.2	5110.8	4901.2	4633.1	4347.2	3352.4	2186.3
20°	5899.2	5436.4	5304.7	5261.0	5246.3	5218.6	5036.1	4774.2	4483.1	3791.9	2663.6
17.5°	7890.6	5838.4	5364.0	5279.0	5256.2	5236.5	5127.1	4899.4	4605.7	4187.5	3092.2
15°	11032.2	7111.0	5659.4	5328.4	5263.0	5247.2	5208.1	5009.3	4712.5	4396.5	3422.0
12.5°	18387.8	9102.0	5957.1	5371.7	5276.9	5254.6	5231.8	5073.9	4800.8	4482.6	3698.3
10°	25485.1	12637.1	7139.5	5600.8	5310.3	5259.1	5238.9	5127.6	4874.1	4554.0	3927.1
7.5°	33765.0	17273.8	8380.0	5784.7	5336.9	5262.7	5244.5	5170.0	4931.9	4610.1	4106.8
5°	39916.5	20692.1	9289.3	5918.8	5356.2	5265.4	5248.6	5200.7	4973.6	4650.5	4236.2
2.5°	43712.4	22789.2	9844.7	6000.6	5368.0	5267.0	5251.1	5219.2	4998.8	4674.9	4314.1
0°	44996.3	23496.3	10031.6	6028.0	5371.9	5267.5	5251.9	5225.4	5007.2	4683.1	4340.2
-2.5°	43712.4	22789.2	9844.7	6000.6	5368.0	5267.0	5251.1	5219.2	4998.8	4674.9	4314.1
-5°	39916.5	20692.1	9289.3	5918.8	5356.2	5265.4	5248.6	5200.7	4973.6	4650.5	4236.2
-7.5°	33765.0	17273.8	8380.0	5784.7	5336.9	5262.7	5244.5	5170.0	4931.9	4610.1	4106.8
-10°	25485.1	12637.1	7139.5	5600.8	5310.3	5259.1	5238.9	5127.6	4874.1	4554.0	3927.1
-12.5°	18387.8	9102.0	5957.1	5371.7	5276.9	5254.6	5231.8	5073.9	4800.8	4482.6	3698.3
-15°	11032.2	7111.0	5659.4	5328.4	5263.0	5247.2	5208.1	5009.3	4712.5	4396.5	3422.0
-17.5°	7890.6	5838.4	5364.0	5279.0	5256.2	5236.5	5127.1	4899.4	4605.7	4187.5	3092.2
-20°	5899.2	5436.4	5304.7	5261.0	5246.3	5218.6	5036.1	4774.2	4483.1	3791.9	2663.6



REPORT NUMBER: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5436.4	5313.4	5263.5	5252.1	5232.2	5110.8	4901.2	4633.1	4347.2	3352.4	2186.3
-25°	5304.7	5263.5	5253.3	5236.0	5156.5	4987.9	4739.7	4473.8	3847.4	2824.5	1735.9
-27.5°	5261.0	5252.1	5236.0	5171.8	5023.8	4803.1	4559.9	4209.0	3290.1	2215.7	1679.8
-30°	5246.3	5232.2	5156.5	5023.8	4824.5	4603.5	4365.8	3574.3	2618.6	1726.2	1619.7
-32.5°	5218.6	5110.8	4987.9	4803.1	4603.5	4387.0	3718.0	2863.7	1882.0	1657.8	1591.9
-35°	5036.1	4901.2	4739.7	4559.9	4365.8	3718.0	2946.0	2042.2	1681.0	1600.0	1573.7
-37.5°	4774.2	4633.1	4473.8	4209.0	3574.3	2863.7	2042.2	1688.8	1604.1	1579.7	1506.6
-40°	4483.1	4347.2	3847.4	3290.1	2618.6	1882.0	1681.0	1604.1	1581.7	1525.0	1414.0
-42.5°	3791.9	3352.4	2824.5	2215.7	1726.2	1657.8	1600.0	1579.7	1525.0	1423.1	1297.1
-45°	2663.6	2186.3	1735.9	1679.8	1619.7	1591.9	1573.7	1506.6	1414.0	1297.1	1170.4
-47.5°	1711.1	1667.4	1619.4	1595.0	1579.9	1549.3	1470.1	1385.2	1274.4	1160.0	1049.0
-50°	1600.1	1589.2	1577.2	1551.1	1485.8	1416.1	1328.3	1229.3	1128.8	1028.5	923.3
-52.5°	1560.3	1513.6	1462.0	1405.9	1332.3	1249.9	1163.1	1077.5	987.7	892.1	792.0
-55°	1401.2	1348.6	1288.2	1222.3	1152.5	1081.7	1006.6	926.2	840.5	751.0	662.0
-57.5°	1199.3	1150.7	1099.2	1042.9	982.2	915.8	844.6	769.3	692.8	613.8	534.2
-60°	1006.6	964.1	915.8	863.0	805.9	744.8	682.5	616.5	547.1	488.6	427.9
-62.5°	810.7	771.1	728.3	682.5	632.9	579.7	527.4	479.3	428.6	375.5	320.6
-65°	618.8	584.8	547.1	513.7	477.9	439.5	398.4	355.2	309.8	262.2	214.2
-67.5°	452.2	427.9	401.0	371.6	340.0	305.9	269.6	231.0	197.7	165.7	132.2
-70°	300.6	279.4	255.9	230.1	206.5	184.0	159.9	134.4	107.4	89.3	75.7
-72.5°	166.9	153.1	137.8	121.0	102.8	91.3	81.6	71.3	60.5	49.0	40.6
-75°	77.5	72.0	66.0	59.4	52.3	44.5	40.3	37.6	34.8	31.8	28.7
-77.5°	36.8	35.5	33.9	32.3	30.4	28.5	26.4	24.4	22.9	21.3	19.7
-80°	22.2	21.6	20.8	19.9	19.0	18.0	17.0	15.8	14.6	13.5	12.6
-82.5°	12.6	12.2	11.8	11.3	10.9	10.3	9.8	9.1	8.5	7.8	7.1
-85°	5.6	5.5	5.3	5.2	5.0	4.8	4.5	4.3	4.0	3.8	3.5
-87.5°	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P413446 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
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°	1.1	1.0	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.5
85°	3.2	2.9	2.6	2.3	1.9	1.6	1.5	1.4	1.2	1.1	1.0
82.5°	6.4	5.9	5.4	4.9	4.4	3.9	3.4	2.8	2.3	1.7	1.4
80°	11.6	10.6	9.5	8.4	7.3	6.2	5.5	4.7	4.0	3.3	2.5
77.5°	18.0	16.2	14.3	12.8	11.4	10.0	8.5	7.0	5.7	4.8	3.9
75°	25.4	23.1	20.8	18.5	16.2	13.8	12.0	10.2	8.3	6.4	5.2
72.5°	36.7	32.8	28.7	24.6	21.8	19.0	16.1	13.4	11.2	9.0	6.8
70°	61.4	46.6	38.8	33.9	29.0	24.2	20.9	17.5	14.1	11.6	9.0
67.5°	97.8	81.1	63.9	46.1	37.7	32.0	26.1	21.9	18.0	14.1	11.2
65°	175.5	135.3	96.1	76.4	56.1	40.0	33.5	26.9	21.9	17.5	13.4
62.5°	263.6	208.3	162.6	115.6	83.9	61.1	40.8	33.5	26.1	20.9	16.1
60°	365.1	300.6	234.0	179.2	126.6	86.5	61.1	40.0	32.0	24.2	19.0
57.5°	465.8	395.2	322.9	248.9	184.7	126.6	83.9	56.1	37.7	29.0	21.8
55°	569.8	488.8	410.4	330.4	248.9	179.2	115.6	76.4	46.1	33.9	24.6
52.5°	691.2	589.2	496.5	410.4	322.9	234.0	162.6	96.1	63.9	38.8	28.7
50°	812.6	701.0	589.2	488.8	395.2	300.6	208.3	135.3	81.1	46.6	32.8
47.5°	933.8	812.6	691.2	569.8	465.8	365.1	263.6	175.5	97.8	61.4	36.7
45°	1049.0	923.3	792.0	662.0	534.2	427.9	320.6	214.2	132.2	75.7	40.6
42.5°	1160.0	1028.5	892.1	751.0	613.8	488.6	375.5	262.2	165.7	89.3	49.0
40°	1274.4	1128.8	987.7	840.5	692.8	547.1	428.6	309.8	197.7	107.4	60.5
37.5°	1385.2	1229.3	1077.5	926.2	769.3	616.5	479.3	355.2	231.0	134.4	71.3
35°	1470.1	1328.3	1163.1	1006.6	844.6	682.5	527.4	398.4	269.6	159.9	81.6
32.5°	1549.3	1416.1	1249.9	1081.7	915.8	744.8	579.7	439.5	305.9	184.0	91.3
30°	1579.9	1485.8	1332.3	1152.5	982.2	805.9	632.9	477.9	340.0	206.5	102.8
27.5°	1595.0	1551.1	1405.9	1222.3	1042.9	863.0	682.5	513.7	371.6	230.1	121.0
25°	1619.4	1577.2	1462.0	1288.2	1099.2	915.8	728.3	547.1	401.0	255.9	137.8
22.5°	1667.4	1589.2	1513.6	1348.6	1150.7	964.1	771.1	584.8	427.9	279.4	153.1
20°	1711.1	1600.1	1560.3	1401.2	1199.3	1006.6	810.7	618.8	452.2	300.6	166.9
17.5°	1808.3	1622.4	1575.2	1439.5	1244.0	1044.4	845.9	649.1	473.8	319.4	179.2
15°	2156.2	1654.1	1583.0	1473.1	1283.1	1077.5	876.7	675.5	492.6	335.8	189.8
12.5°	2454.2	1681.2	1589.7	1501.8	1316.5	1105.6	902.9	698.0	508.7	349.8	198.9
10°	2700.7	1703.6	1595.3	1525.4	1343.9	1128.8	924.5	716.5	521.8	361.3	206.4
7.5°	2894.1	1721.1	1599.6	1543.9	1365.4	1147.0	941.3	730.9	532.1	370.2	212.2
5°	3033.1	1733.8	1602.7	1557.1	1380.8	1160.0	953.4	741.3	539.5	376.7	216.4
2.5°	3116.9	1741.4	1604.6	1565.1	1390.1	1167.8	960.7	747.5	543.9	380.5	218.9
0°	3144.9	1743.9	1605.2	1567.8	1393.2	1170.4	963.1	749.6	545.4	381.8	219.7
-2.5°	3116.9	1741.4	1604.6	1565.1	1390.1	1167.8	960.7	747.5	543.9	380.5	218.9
-5°	3033.1	1733.8	1602.7	1557.1	1380.8	1160.0	953.4	741.3	539.5	376.7	216.4
-7.5°	2894.1	1721.1	1599.6	1543.9	1365.4	1147.0	941.3	730.9	532.1	370.2	212.2
-10°	2700.7	1703.6	1595.3	1525.4	1343.9	1128.8	924.5	716.5	521.8	361.3	206.4
-12.5°	2454.2	1681.2	1589.7	1501.8	1316.5	1105.6	902.9	698.0	508.7	349.8	198.9
-15°	2156.2	1654.1	1583.0	1473.1	1283.1	1077.5	876.7	675.5	492.6	335.8	189.8
-17.5°	1808.3	1622.4	1575.2	1439.5	1244.0	1044.4	845.9	649.1	473.8	319.4	179.2
-20°	1711.1	1600.1	1560.3	1401.2	1199.3	1006.6	810.7	618.8	452.2	300.6	166.9



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1667.4	1589.2	1513.6	1348.6	1150.7	964.1	771.1	584.8	427.9	279.4	153.1
-25°	1619.4	1577.2	1462.0	1288.2	1099.2	915.8	728.3	547.1	401.0	255.9	137.8
-27.5°	1595.0	1551.1	1405.9	1222.3	1042.9	863.0	682.5	513.7	371.6	230.1	121.0
-30°	1579.9	1485.8	1332.3	1152.5	982.2	805.9	632.9	477.9	340.0	206.5	102.8
-32.5°	1549.3	1416.1	1249.9	1081.7	915.8	744.8	579.7	439.5	305.9	184.0	91.3
-35°	1470.1	1328.3	1163.1	1006.6	844.6	682.5	527.4	398.4	269.6	159.9	81.6
-37.5°	1385.2	1229.3	1077.5	926.2	769.3	616.5	479.3	355.2	231.0	134.4	71.3
-40°	1274.4	1128.8	987.7	840.5	692.8	547.1	428.6	309.8	197.7	107.4	60.5
-42.5°	1160.0	1028.5	892.1	751.0	613.8	488.6	375.5	262.2	165.7	89.3	49.0
-45°	1049.0	923.3	792.0	662.0	534.2	427.9	320.6	214.2	132.2	75.7	40.6
-47.5°	933.8	812.6	691.2	569.8	465.8	365.1	263.6	175.5	97.8	61.4	36.7
-50°	812.6	701.0	589.2	488.8	395.2	300.6	208.3	135.3	81.1	46.6	32.8
-52.5°	691.2	589.2	496.5	410.4	322.9	234.0	162.6	96.1	63.9	38.8	28.7
-55°	569.8	488.8	410.4	330.4	248.9	179.2	115.6	76.4	46.1	33.9	24.6
-57.5°	465.8	395.2	322.9	248.9	184.7	126.6	83.9	56.1	37.7	29.0	21.8
-60°	365.1	300.6	234.0	179.2	126.6	86.5	61.1	40.0	32.0	24.2	19.0
-62.5°	263.6	208.3	162.6	115.6	83.9	61.1	40.8	33.5	26.1	20.9	16.1
-65°	175.5	135.3	96.1	76.4	56.1	40.0	33.5	26.9	21.9	17.5	13.4
-67.5°	97.8	81.1	63.9	46.1	37.7	32.0	26.1	21.9	18.0	14.1	11.2
-70°	61.4	46.6	38.8	33.9	29.0	24.2	20.9	17.5	14.1	11.6	9.0
-72.5°	36.7	32.8	28.7	24.6	21.8	19.0	16.1	13.4	11.2	9.0	6.8
-75°	25.4	23.1	20.8	18.5	16.2	13.8	12.0	10.2	8.3	6.4	5.2
-77.5°	18.0	16.2	14.3	12.8	11.4	10.0	8.5	7.0	5.7	4.8	3.9
-80°	11.6	10.6	9.5	8.4	7.3	6.2	5.5	4.7	4.0	3.3	2.5
-82.5°	6.4	5.9	5.4	4.9	4.4	3.9	3.4	2.8	2.3	1.7	1.4
-85°	3.2	2.9	2.6	2.3	1.9	1.6	1.5	1.4	1.2	1.1	1.0
-87.5°	1.1	1.0	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
85°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
82.5°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
80°	1.7	1.4	1.1	0.8	0.6	0.3	0.0
77.5°	2.9	1.9	1.4	1.0	0.7	0.3	0.0
75°	4.1	2.9	1.7	1.2	0.8	0.4	0.0
72.5°	5.2	3.9	2.5	1.4	1.0	0.5	0.0
70°	6.4	4.8	3.3	1.7	1.1	0.5	0.0
67.5°	8.3	5.7	4.0	2.3	1.2	0.6	0.0
65°	10.2	7.0	4.7	2.8	1.4	0.7	0.0
62.5°	12.0	8.5	5.5	3.4	1.5	0.7	0.0
60°	13.8	10.0	6.2	3.9	1.6	0.8	0.0
57.5°	16.2	11.4	7.3	4.4	1.9	0.9	0.0
55°	18.5	12.8	8.4	4.9	2.3	0.9	0.0
52.5°	20.8	14.3	9.5	5.4	2.6	1.0	0.0
50°	23.1	16.2	10.6	5.9	2.9	1.0	0.0
47.5°	25.4	18.0	11.6	6.4	3.2	1.1	0.0
45°	28.7	19.7	12.6	7.1	3.5	1.1	0.0
42.5°	31.8	21.3	13.5	7.8	3.8	1.2	0.0
40°	34.8	22.9	14.6	8.5	4.0	1.2	0.0
37.5°	37.6	24.4	15.8	9.1	4.3	1.3	0.0
35°	40.3	26.4	17.0	9.8	4.5	1.3	0.0
32.5°	44.5	28.5	18.0	10.3	4.8	1.3	0.0
30°	52.3	30.4	19.0	10.9	5.0	1.4	0.0
27.5°	59.4	32.3	19.9	11.3	5.2	1.4	0.0
25°	66.0	33.9	20.8	11.8	5.3	1.5	0.0
22.5°	72.0	35.5	21.6	12.2	5.5	1.5	0.0
20°	77.5	36.8	22.2	12.6	5.6	1.5	0.0
17.5°	82.3	38.1	22.9	12.9	5.8	1.5	0.0
15°	86.5	39.1	23.4	13.2	5.9	1.5	0.0
12.5°	90.0	40.0	23.9	13.4	6.0	1.6	0.0
10°	93.0	40.8	24.2	13.6	6.1	1.6	0.0
7.5°	95.3	41.4	24.5	13.8	6.1	1.6	0.0
5°	96.9	41.8	24.7	13.9	6.2	1.6	0.0
2.5°	97.9	42.0	24.9	14.0	6.2	1.6	0.0
0°	98.2	42.1	24.9	14.0	6.2	1.6	0.0
-2.5°	97.9	42.0	24.9	14.0	6.2	1.6	0.0
-5°	96.9	41.8	24.7	13.9	6.2	1.6	0.0
-7.5°	95.3	41.4	24.5	13.8	6.1	1.6	0.0
-10°	93.0	40.8	24.2	13.6	6.1	1.6	0.0
-12.5°	90.0	40.0	23.9	13.4	6.0	1.6	0.0
-15°	86.5	39.1	23.4	13.2	5.9	1.5	0.0
-17.5°	82.3	38.1	22.9	12.9	5.8	1.5	0.0
-20°	77.5	36.8	22.2	12.6	5.6	1.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	72.0	35.5	21.6	12.2	5.5	1.5	0.0
-25°	66.0	33.9	20.8	11.8	5.3	1.5	0.0
-27.5°	59.4	32.3	19.9	11.3	5.2	1.4	0.0
-30°	52.3	30.4	19.0	10.9	5.0	1.4	0.0
-32.5°	44.5	28.5	18.0	10.3	4.8	1.3	0.0
-35°	40.3	26.4	17.0	9.8	4.5	1.3	0.0
-37.5°	37.6	24.4	15.8	9.1	4.3	1.3	0.0
-40°	34.8	22.9	14.6	8.5	4.0	1.2	0.0
-42.5°	31.8	21.3	13.5	7.8	3.8	1.2	0.0
-45°	28.7	19.7	12.6	7.1	3.5	1.1	0.0
-47.5°	25.4	18.0	11.6	6.4	3.2	1.1	0.0
-50°	23.1	16.2	10.6	5.9	2.9	1.0	0.0
-52.5°	20.8	14.3	9.5	5.4	2.6	1.0	0.0
-55°	18.5	12.8	8.4	4.9	2.3	0.9	0.0
-57.5°	16.2	11.4	7.3	4.4	1.9	0.9	0.0
-60°	13.8	10.0	6.2	3.9	1.6	0.8	0.0
-62.5°	12.0	8.5	5.5	3.4	1.5	0.7	0.0
-65°	10.2	7.0	4.7	2.8	1.4	0.7	0.0
-67.5°	8.3	5.7	4.0	2.3	1.2	0.6	0.0
-70°	6.4	4.8	3.3	1.7	1.1	0.5	0.0
-72.5°	5.2	3.9	2.5	1.4	1.0	0.5	0.0
-75°	4.1	2.9	1.7	1.2	0.8	0.4	0.0
-77.5°	2.9	1.9	1.4	1.0	0.7	0.3	0.0
-80°	1.7	1.4	1.1	0.8	0.6	0.3	0.0
-82.5°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
-85°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
-87.5°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)