

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: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0640L-57-70-1S-HEG**

Issue Date: 10/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1912-617-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-08-0640L-57-70-1S-HEG  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

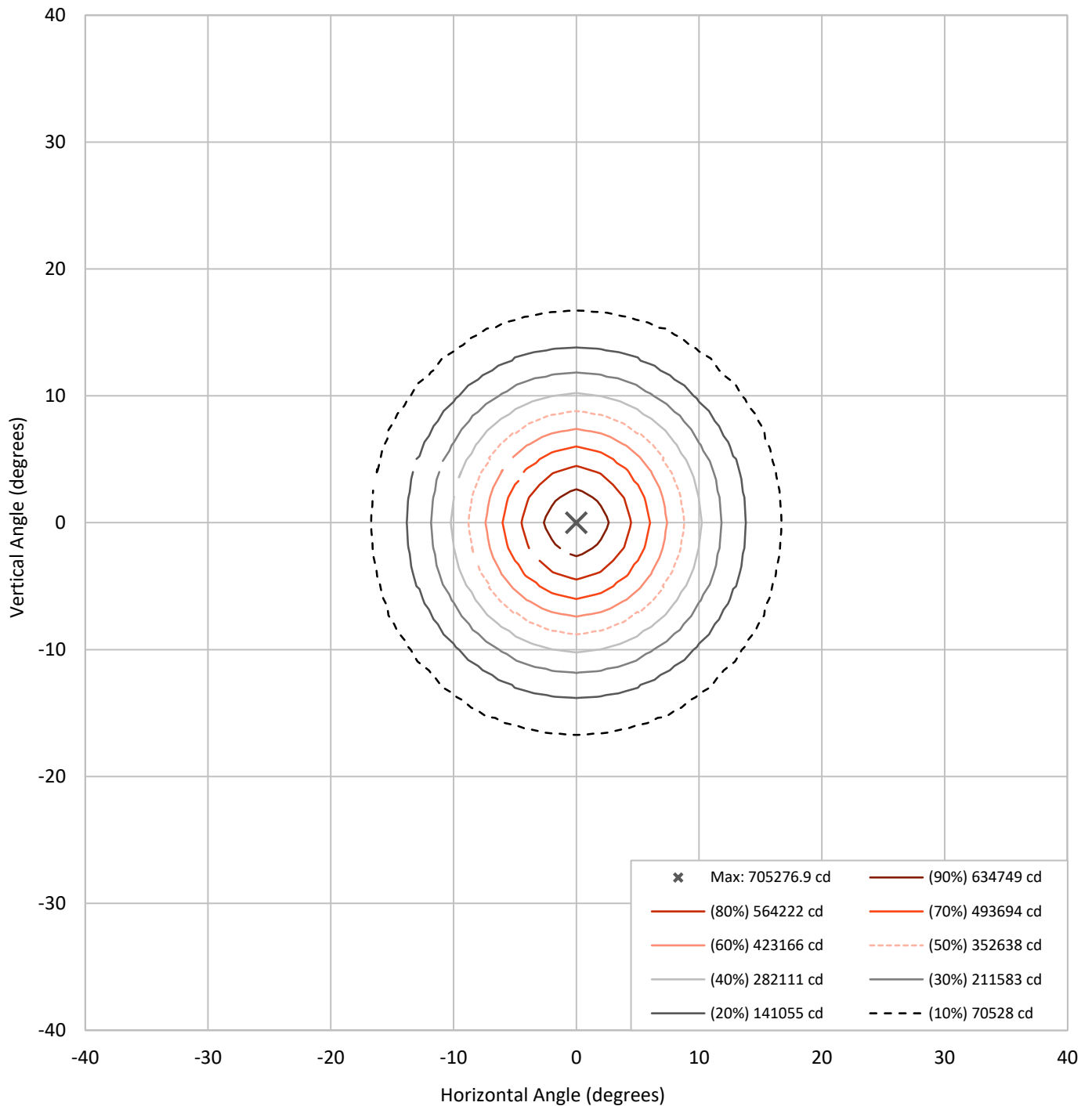
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	85908.5 lumens	Max Intensity:	705276.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	125.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	17.6°H x 17.6°V	Field Angle (10%):	33.3°H x 33.3°V
Beam Lumens:	31267.4 lumens	Field Lumens:	70096.1 lumens
Beam Efficiency:	36.4%	Field Efficiency:	81.6%
Input Watts (W):	686		
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



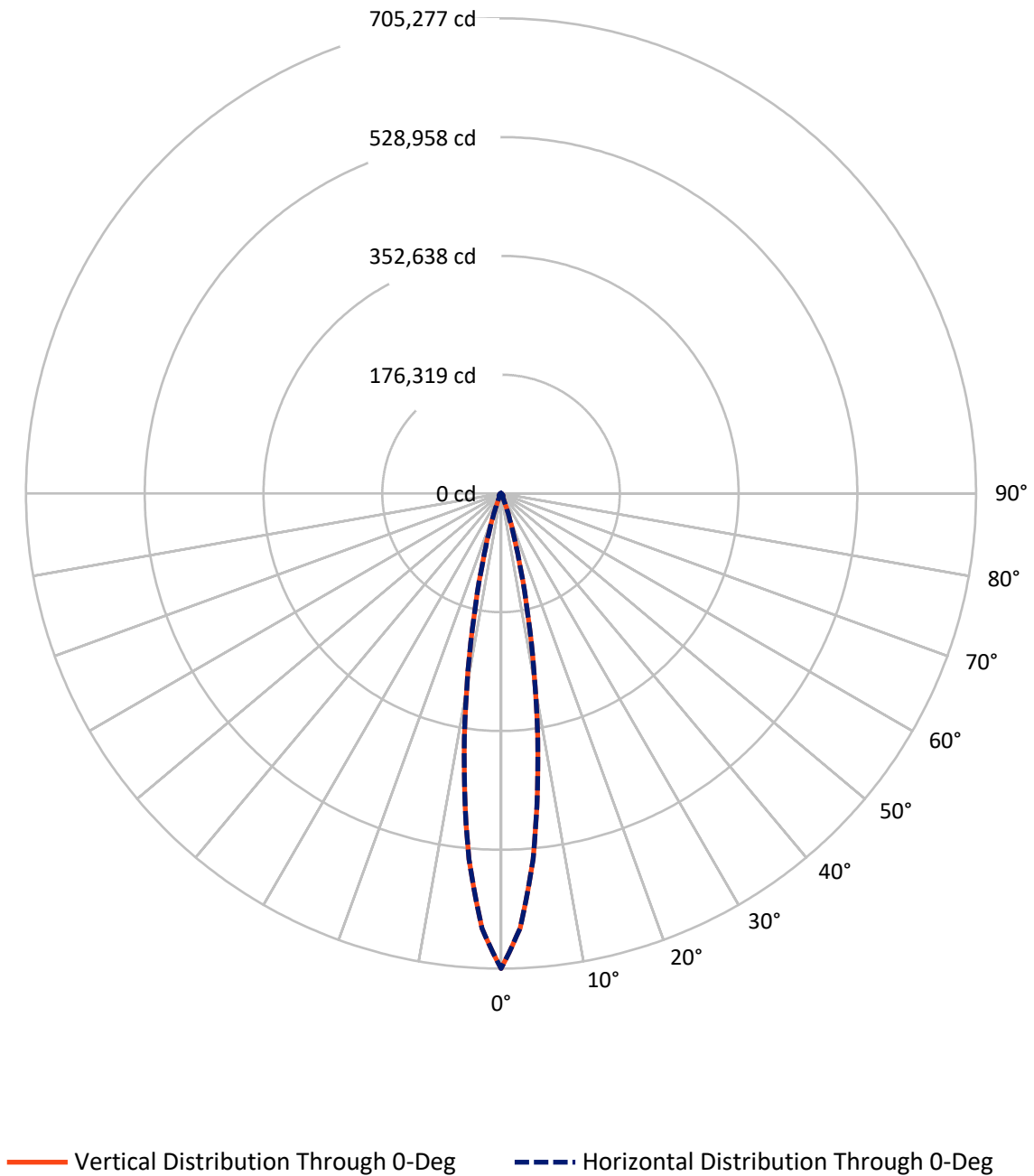
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### Lumen Table

90	0.3	1.4		3.3		7.2		9.3		7.2		3.3		1.4		0.3			
80	0.3	1.4		3.3		7.2		9.3		7.2		3.3		1.4		0.3			
70	0.6	0.5	1.5	4.7	9.4	14.7	19.0	21.4	21.4	19.0	14.7	9.4	4.7	1.5	0.5	0.6			
60		1.1	5.5	13.6	23.5	31.5	36.5	39.3	39.3	36.5	31.5	23.5	13.6	5.5	1.1				
50	1.0	2.9	11.1	23.2	33.4	59.2	95.5	115.0	115.0	95.5	59.2	33.4	23.2	11.1	2.9	1.0			
40		5.0	16.6	28.8	73.0	124.7	133.3	130.7	130.7	133.3	124.7	73.0	28.8	16.6	5.0				
30	2.0	7.1	20.1	46.8	112.8	117.5	124.0	218.1	218.1	124.0	117.5	112.8	46.8	20.1	7.1	2.0			
20		8.6	21.8	70.9	112.9	116.5	754.1	2999.3	2999.3	754.1	116.5	112.9	70.9	21.8	8.6				
10	2.5	9.4	22.8	82.6	107.2	200.7	2927.3	12300.1	12300.1	2927.3	200.7	107.2	82.6	22.8	9.4	2.5			
0		9.4	22.8	82.6	107.2	200.7	2927.3	12300.1	12300.1	2927.3	200.7	107.2	82.6	22.8	9.4				
-10	2.0	8.6	21.8	70.9	112.9	116.5	754.1	2999.3	2999.3	754.1	116.5	112.9	70.9	21.8	8.6	2.0			
-20		7.1	20.1	46.8	112.8	117.5	124.0	218.1	218.1	124.0	117.5	112.8	46.8	20.1	7.1				
-30	1.0	5.0	16.6	28.8	73.0	124.7	133.3	130.7	130.7	133.3	124.7	73.0	28.8	16.6	5.0	1.0			
-40		2.9	11.1	23.2	33.4	59.2	95.5	115.0	115.0	95.5	59.2	33.4	23.2	11.1	2.9				
-50	0.6	1.1	5.5	13.6	23.5	31.5	36.5	39.3	39.3	36.5	31.5	23.5	13.6	5.5	1.1	0.6			
-60		0.5	1.5	4.7	9.4	14.7	19.0	21.4	21.4	19.0	14.7	9.4	4.7	1.5	0.5				
-70	0.3	1.4		3.3		7.2		9.3		7.2		3.3		1.4		0.3			
-80		1.4		3.3		7.2		9.3		7.2		3.3		1.4					
-90	0.3	1.4		3.3		7.2		9.3		7.2		3.3		1.4		0.3			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

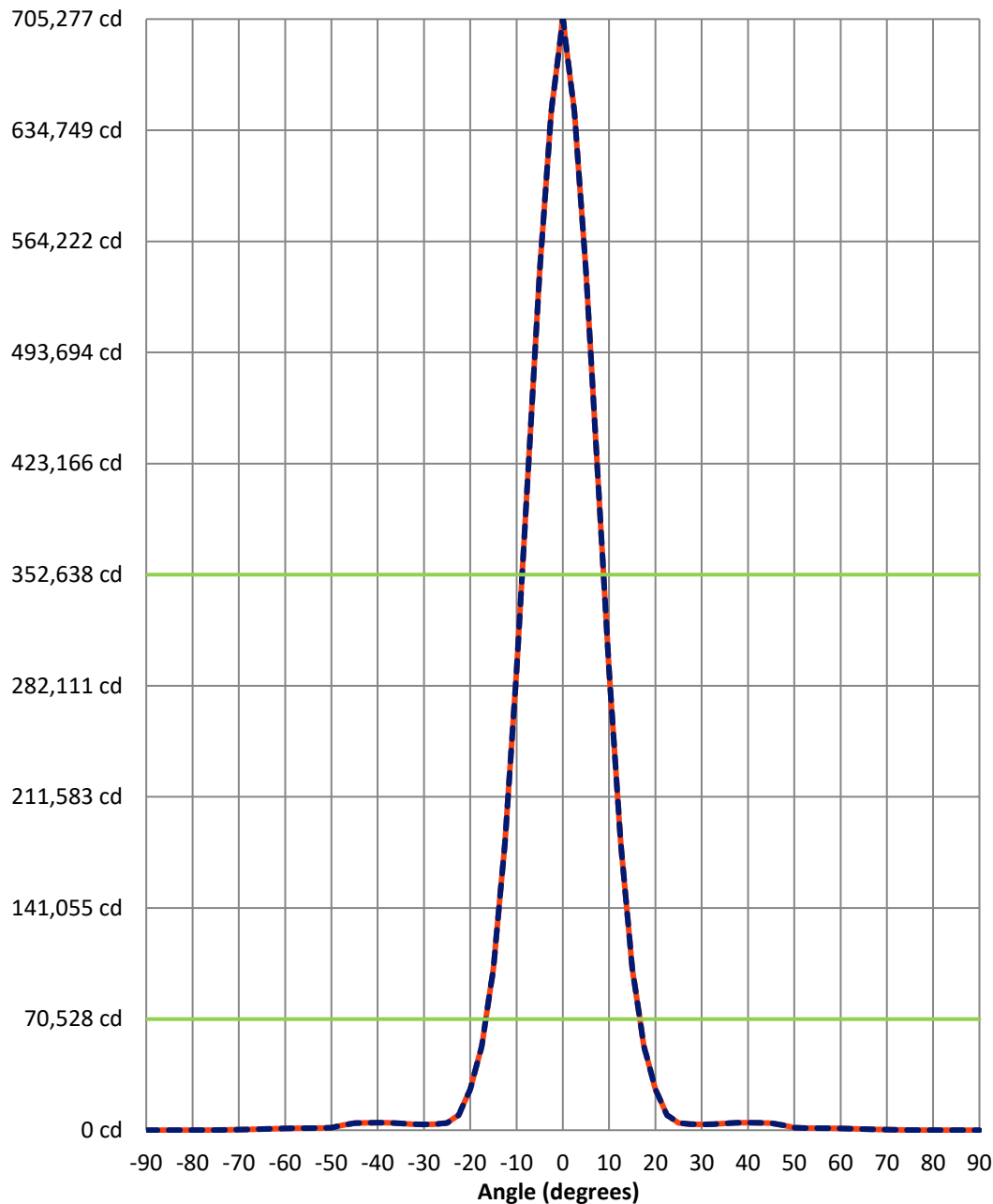
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
H Angle: 17.6°  
V Angle: 17.6°  
Lumens: 31267.4  
Efficiency: 36.4%

**Field:**  
H Angle: 33.3°  
V Angle: 33.3°  
Lumens: 70096.1  
Efficiency: 81.6%

**Spill:**  
Lumens: 15812.4  
Efficiency: 18.4%

— 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	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
85°	0.0	1.0	1.9	2.9	3.9	4.8	5.8	6.7	7.7	8.6	9.5
82.5°	0.0	1.5	2.9	4.4	5.8	7.3	8.7	10.1	11.8	14.7	17.6
80°	0.0	1.9	3.9	5.8	7.7	9.6	11.9	15.9	19.9	23.8	27.6
77.5°	0.0	2.4	4.8	7.3	9.6	13.0	18.0	23.0	28.0	32.8	33.5
75°	0.0	2.9	5.8	8.7	11.9	18.0	24.1	30.1	34.6	30.4	26.2
72.5°	0.0	3.4	6.7	10.1	15.9	23.0	30.1	33.9	28.8	23.9	19.0
70°	0.0	3.8	7.7	11.8	19.9	28.0	34.6	28.8	23.1	17.9	28.5
67.5°	0.0	4.3	8.6	14.7	23.8	32.8	30.4	23.9	17.9	30.0	41.9
65°	0.0	4.7	9.5	17.6	27.6	33.5	26.2	19.0	28.5	41.9	49.7
62.5°	0.0	5.2	10.3	20.4	31.4	30.0	22.1	24.1	38.9	50.3	44.8
60°	0.0	5.6	11.2	23.1	35.0	26.7	18.1	33.0	49.1	45.9	39.9
57.5°	0.0	6.0	13.0	25.8	32.7	23.4	24.2	41.8	48.2	41.6	48.4
55°	0.0	6.4	14.7	28.4	30.2	20.2	31.5	50.3	44.5	41.3	62.9
52.5°	0.0	6.8	16.4	31.0	27.7	18.6	38.6	48.4	40.9	54.0	77.0
50°	0.0	7.2	18.0	33.4	25.3	24.3	45.5	45.3	41.6	66.3	119.5
47.5°	0.0	7.6	19.6	34.8	23.0	29.8	50.8	42.4	52.2	78.2	164.0
45°	0.0	7.9	21.1	33.1	20.7	35.1	48.4	39.5	62.4	116.2	207.0
42.5°	0.0	8.3	22.6	31.5	18.6	40.2	46.1	43.4	72.2	153.2	250.7
40°	0.0	8.6	24.0	30.0	19.5	45.1	43.8	51.5	88.7	188.6	293.1
37.5°	0.0	8.9	25.3	28.6	23.2	49.7	41.7	59.3	118.5	223.0	333.5
35°	0.0	9.2	26.5	27.2	26.7	50.1	39.7	66.6	146.8	257.3	371.6
32.5°	0.0	9.4	27.7	25.9	30.0	48.5	40.1	73.6	173.5	289.6	407.3
30°	0.0	9.7	28.8	24.7	33.0	47.1	45.7	83.6	198.4	319.9	440.8
27.5°	0.0	9.9	29.8	23.6	35.9	45.7	50.8	103.8	222.2	348.1	472.0
25°	0.0	10.2	30.7	22.6	38.5	44.5	55.5	122.3	245.1	373.8	501.4
22.5°	0.0	10.3	31.5	21.6	40.9	43.3	59.8	139.3	266.0	397.3	541.3
20°	0.0	10.5	32.3	20.8	43.0	42.3	63.7	154.6	284.9	418.4	577.3
17.5°	0.0	10.7	33.0	20.1	44.9	41.4	67.1	168.1	301.6	437.2	609.4
15°	0.0	10.8	33.6	19.4	46.6	40.6	70.1	179.9	316.2	453.6	637.4
12.5°	0.0	10.9	34.1	18.9	48.0	39.9	72.7	190.0	328.7	467.6	661.2
10°	0.0	11.0	34.5	18.4	49.1	39.4	74.8	198.2	338.9	479.1	680.8
7.5°	0.0	11.1	34.8	18.1	50.0	39.0	76.4	204.7	346.8	488.0	696.1
5°	0.0	11.2	35.0	17.8	50.7	38.6	77.6	209.3	352.5	494.5	707.0
2.5°	0.0	11.2	35.2	17.7	51.1	38.5	78.3	212.1	356.0	498.3	713.6
0°	0.0	11.2	35.2	17.6	51.2	38.4	78.5	213.0	357.1	499.6	715.8
-2.5°	0.0	11.2	35.2	17.7	51.1	38.5	78.3	212.1	356.0	498.3	713.6
-5°	0.0	11.2	35.0	17.8	50.7	38.6	77.6	209.3	352.5	494.5	707.0
-7.5°	0.0	11.1	34.8	18.1	50.0	39.0	76.4	204.7	346.8	488.0	696.1
-10°	0.0	11.0	34.5	18.4	49.1	39.4	74.8	198.2	338.9	479.1	680.8
-12.5°	0.0	10.9	34.1	18.9	48.0	39.9	72.7	190.0	328.7	467.6	661.2
-15°	0.0	10.8	33.6	19.4	46.6	40.6	70.1	179.9	316.2	453.6	637.4
-17.5°	0.0	10.7	33.0	20.1	44.9	41.4	67.1	168.1	301.6	437.2	609.4
-20°	0.0	10.5	32.3	20.8	43.0	42.3	63.7	154.6	284.9	418.4	577.3



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 CATALOG NUMBER: EPH-08-0640L-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	10.3	31.5	21.6	40.9	43.3	59.8	139.3	266.0	397.3	541.3
-25°	0.0	10.2	30.7	22.6	38.5	44.5	55.5	122.3	245.1	373.8	501.4
-27.5°	0.0	9.9	29.8	23.6	35.9	45.7	50.8	103.8	222.2	348.1	472.0
-30°	0.0	9.7	28.8	24.7	33.0	47.1	45.7	83.6	198.4	319.9	440.8
-32.5°	0.0	9.4	27.7	25.9	30.0	48.5	40.1	73.6	173.5	289.6	407.3
-35°	0.0	9.2	26.5	27.2	26.7	50.1	39.7	66.6	146.8	257.3	371.6
-37.5°	0.0	8.9	25.3	28.6	23.2	49.7	41.7	59.3	118.5	223.0	333.5
-40°	0.0	8.6	24.0	30.0	19.5	45.1	43.8	51.5	88.7	188.6	293.1
-42.5°	0.0	8.3	22.6	31.5	18.6	40.2	46.1	43.4	72.2	153.2	250.7
-45°	0.0	7.9	21.1	33.1	20.7	35.1	48.4	39.5	62.4	116.2	207.0
-47.5°	0.0	7.6	19.6	34.8	23.0	29.8	50.8	42.4	52.2	78.2	164.0
-50°	0.0	7.2	18.0	33.4	25.3	24.3	45.5	45.3	41.6	66.3	119.5
-52.5°	0.0	6.8	16.4	31.0	27.7	18.6	38.6	48.4	40.9	54.0	77.0
-55°	0.0	6.4	14.7	28.4	30.2	20.2	31.5	50.3	44.5	41.3	62.9
-57.5°	0.0	6.0	13.0	25.8	32.7	23.4	24.2	41.8	48.2	41.6	48.4
-60°	0.0	5.6	11.2	23.1	35.0	26.7	18.1	33.0	49.1	45.9	39.9
-62.5°	0.0	5.2	10.3	20.4	31.4	30.0	22.1	24.1	38.9	50.3	44.8
-65°	0.0	4.7	9.5	17.6	27.6	33.5	26.2	19.0	28.5	41.9	49.7
-67.5°	0.0	4.3	8.6	14.7	23.8	32.8	30.4	23.9	17.9	30.0	41.9
-70°	0.0	3.8	7.7	11.8	19.9	28.0	34.6	28.8	23.1	17.9	28.5
-72.5°	0.0	3.4	6.7	10.1	15.9	23.0	30.1	33.9	28.8	23.9	19.0
-75°	0.0	2.9	5.8	8.7	11.9	18.0	24.1	30.1	34.6	30.4	26.2
-77.5°	0.0	2.4	4.8	7.3	9.6	13.0	18.0	23.0	28.0	32.8	33.5
-80°	0.0	1.9	3.9	5.8	7.7	9.6	11.9	15.9	19.9	23.8	27.6
-82.5°	0.0	1.5	2.9	4.4	5.8	7.3	8.7	10.1	11.8	14.7	17.6
-85°	0.0	1.0	1.9	2.9	3.9	4.8	5.8	6.7	7.7	8.6	9.5
-87.5°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
-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°	5.2	5.6	6.0	6.4	6.8	7.2	7.6	7.9	8.3	8.6	8.9
85°	10.3	11.2	13.0	14.7	16.4	18.0	19.6	21.1	22.6	24.0	25.3
82.5°	20.4	23.1	25.8	28.4	31.0	33.4	34.8	33.1	31.5	30.0	28.6
80°	31.4	35.0	32.7	30.2	27.7	25.3	23.0	20.7	18.6	19.5	23.2
77.5°	30.0	26.7	23.4	20.2	18.6	24.3	29.8	35.1	40.2	45.1	49.7
75°	22.1	18.1	24.2	31.5	38.6	45.5	50.8	48.4	46.1	43.8	41.7
72.5°	24.1	33.0	41.8	50.3	48.4	45.3	42.4	39.5	43.4	51.5	59.3
70°	38.9	49.1	48.2	44.5	40.9	41.6	52.2	62.4	72.2	88.7	118.5
67.5°	50.3	45.9	41.6	41.3	54.0	66.3	78.2	116.2	153.2	188.6	223.0
65°	44.8	39.9	48.4	62.9	77.0	119.5	164.0	207.0	250.7	293.1	333.5
62.5°	39.4	52.0	68.3	97.8	149.8	200.4	252.0	302.7	351.5	397.9	442.0
60°	52.0	70.1	109.9	168.1	225.7	284.9	342.3	397.3	450.1	501.4	574.9
57.5°	68.3	109.9	174.2	238.9	304.8	368.7	430.3	489.9	572.0	655.7	734.6
55°	97.8	168.1	238.9	311.4	382.0	450.3	525.5	623.0	717.2	802.4	884.1
52.5°	149.8	225.7	304.8	382.0	457.0	545.9	654.0	756.2	851.5	942.2	1026.1
50°	200.4	284.9	368.7	450.3	545.9	664.3	775.9	881.3	980.3	1074.1	1147.6
47.5°	252.0	342.3	430.3	525.5	654.0	775.9	891.3	999.5	1103.2	1174.2	1239.5
45°	302.7	397.3	489.9	623.0	756.2	881.3	999.5	1112.9	1187.6	1249.2	1271.3
42.5°	351.5	450.1	572.0	717.2	851.5	980.3	1103.2	1187.6	1251.3	1275.7	1304.3
40°	397.9	501.4	655.7	802.4	942.2	1074.1	1174.2	1249.2	1275.7	1307.4	1341.8
37.5°	442.0	574.9	734.6	884.1	1026.1	1147.6	1239.5	1271.3	1304.3	1341.8	1496.0
35°	483.9	644.7	806.3	959.8	1106.1	1206.0	1262.6	1295.0	1335.5	1481.8	1943.3
32.5°	535.9	710.8	874.1	1030.0	1159.8	1249.7	1281.5	1323.0	1439.5	1757.0	2898.2
30°	592.2	769.4	937.1	1096.2	1208.3	1266.3	1304.5	1369.9	1564.1	2613.2	3673.8
27.5°	644.7	823.8	993.8	1143.5	1247.2	1281.9	1327.8	1479.6	2144.9	3376.9	4337.0
25°	693.2	874.1	1046.3	1182.3	1260.6	1300.4	1369.4	1581.9	2852.7	3959.1	4548.9
22.5°	736.3	920.2	1094.5	1217.9	1272.9	1318.9	1456.9	2110.8	3441.9	4478.0	4638.2
20°	774.0	959.8	1129.9	1246.1	1284.1	1335.6	1536.7	2665.6	3901.2	4554.2	4699.5
17.5°	807.6	995.2	1156.3	1255.3	1297.2	1374.8	1671.3	3163.9	4314.5	4622.9	4745.3
15°	836.9	1026.1	1179.3	1263.3	1309.3	1432.6	2075.7	3514.6	4505.6	4676.9	4783.9
12.5°	861.9	1052.4	1199.0	1270.1	1319.7	1482.1	2422.2	3803.4	4553.9	4709.2	4759.8
10°	882.4	1074.1	1215.2	1275.8	1328.2	1523.0	2708.8	4042.5	4593.9	4736.0	4739.7
7.5°	898.5	1091.0	1227.8	1280.2	1334.9	1555.0	2933.5	4230.2	4625.3	4757.2	4723.8
5°	910.0	1103.2	1236.9	1283.4	1339.6	1578.0	3095.2	4365.4	4648.0	4772.4	4712.3
2.5°	916.9	1110.5	1242.4	1285.3	1342.5	1591.9	3192.6	4446.9	4661.6	4781.6	4705.4
0°	919.2	1112.9	1244.2	1285.9	1343.5	1596.5	3225.1	4474.1	4666.2	4784.7	4703.1
-2.5°	916.9	1110.5	1242.4	1285.3	1342.5	1591.9	3192.6	4446.9	4661.6	4781.6	4705.4
-5°	910.0	1103.2	1236.9	1283.4	1339.6	1578.0	3095.2	4365.4	4648.0	4772.4	4712.3
-7.5°	898.5	1091.0	1227.8	1280.2	1334.9	1555.0	2933.5	4230.2	4625.3	4757.2	4723.8
-10°	882.4	1074.1	1215.2	1275.8	1328.2	1523.0	2708.8	4042.5	4593.9	4736.0	4739.7
-12.5°	861.9	1052.4	1199.0	1270.1	1319.7	1482.1	2422.2	3803.4	4553.9	4709.2	4759.8
-15°	836.9	1026.1	1179.3	1263.3	1309.3	1432.6	2075.7	3514.6	4505.6	4676.9	4783.9
-17.5°	807.6	995.2	1156.3	1255.3	1297.2	1374.8	1671.3	3163.9	4314.5	4622.9	4745.3
-20°	774.0	959.8	1129.9	1246.1	1284.1	1335.6	1536.7	2665.6	3901.2	4554.2	4699.5



REPORT NUMBER: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	736.3	920.2	1094.5	1217.9	1272.9	1318.9	1456.9	2110.8	3441.9	4478.0	4638.2
-25°	693.2	874.1	1046.3	1182.3	1260.6	1300.4	1369.4	1581.9	2852.7	3959.1	4548.9
-27.5°	644.7	823.8	993.8	1143.5	1247.2	1281.9	1327.8	1479.6	2144.9	3376.9	4337.0
-30°	592.2	769.4	937.1	1096.2	1208.3	1266.3	1304.5	1369.9	1564.1	2613.2	3673.8
-32.5°	535.9	710.8	874.1	1030.0	1159.8	1249.7	1281.5	1323.0	1439.5	1757.0	2898.2
-35°	483.9	644.7	806.3	959.8	1106.1	1206.0	1262.6	1295.0	1335.5	1481.8	1943.3
-37.5°	442.0	574.9	734.6	884.1	1026.1	1147.6	1239.5	1271.3	1304.3	1341.8	1496.0
-40°	397.9	501.4	655.7	802.4	942.2	1074.1	1174.2	1249.2	1275.7	1307.4	1341.8
-42.5°	351.5	450.1	572.0	717.2	851.5	980.3	1103.2	1187.6	1251.3	1275.7	1304.3
-45°	302.7	397.3	489.9	623.0	756.2	881.3	999.5	1112.9	1187.6	1249.2	1271.3
-47.5°	252.0	342.3	430.3	525.5	654.0	775.9	891.3	999.5	1103.2	1174.2	1239.5
-50°	200.4	284.9	368.7	450.3	545.9	664.3	775.9	881.3	980.3	1074.1	1147.6
-52.5°	149.8	225.7	304.8	382.0	457.0	545.9	654.0	756.2	851.5	942.2	1026.1
-55°	97.8	168.1	238.9	311.4	382.0	450.3	525.5	623.0	717.2	802.4	884.1
-57.5°	68.3	109.9	174.2	238.9	304.8	368.7	430.3	489.9	572.0	655.7	734.6
-60°	52.0	70.1	109.9	168.1	225.7	284.9	342.3	397.3	450.1	501.4	574.9
-62.5°	39.4	52.0	68.3	97.8	149.8	200.4	252.0	302.7	351.5	397.9	442.0
-65°	44.8	39.9	48.4	62.9	77.0	119.5	164.0	207.0	250.7	293.1	333.5
-67.5°	50.3	45.9	41.6	41.3	54.0	66.3	78.2	116.2	153.2	188.6	223.0
-70°	38.9	49.1	48.2	44.5	40.9	41.6	52.2	62.4	72.2	88.7	118.5
-72.5°	24.1	33.0	41.8	50.3	48.4	45.3	42.4	39.5	43.4	51.5	59.3
-75°	22.1	18.1	24.2	31.5	38.6	45.5	50.8	48.4	46.1	43.8	41.7
-77.5°	30.0	26.7	23.4	20.2	18.6	24.3	29.8	35.1	40.2	45.1	49.7
-80°	31.4	35.0	32.7	30.2	27.7	25.3	23.0	20.7	18.6	19.5	23.2
-82.5°	20.4	23.1	25.8	28.4	31.0	33.4	34.8	33.1	31.5	30.0	28.6
-85°	10.3	11.2	13.0	14.7	16.4	18.0	19.6	21.1	22.6	24.0	25.3
-87.5°	5.2	5.6	6.0	6.4	6.8	7.2	7.6	7.9	8.3	8.6	8.9
-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: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-57-70-1S-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°	9.2	9.4	9.7	9.9	10.2	10.3	10.5	10.7	10.8	10.9	11.0
85°	26.5	27.7	28.8	29.8	30.7	31.5	32.3	33.0	33.6	34.1	34.5
82.5°	27.2	25.9	24.7	23.6	22.6	21.6	20.8	20.1	19.4	18.9	18.4
80°	26.7	30.0	33.0	35.9	38.5	40.9	43.0	44.9	46.6	48.0	49.1
77.5°	50.1	48.5	47.1	45.7	44.5	43.3	42.3	41.4	40.6	39.9	39.4
75°	39.7	40.1	45.7	50.8	55.5	59.8	63.7	67.1	70.1	72.7	74.8
72.5°	66.6	73.6	83.6	103.8	122.3	139.3	154.6	168.1	179.9	190.0	198.2
70°	146.8	173.5	198.4	222.2	245.1	266.0	284.9	301.6	316.2	328.7	338.9
67.5°	257.3	289.6	319.9	348.1	373.8	397.3	418.4	437.2	453.6	467.6	479.1
65°	371.6	407.3	440.8	472.0	501.4	541.3	577.3	609.4	637.4	661.2	680.8
62.5°	483.9	535.9	592.2	644.7	693.2	736.3	774.0	807.6	836.9	861.9	882.4
60°	644.7	710.8	769.4	823.8	874.1	920.2	959.8	995.2	1026.1	1052.4	1074.1
57.5°	806.3	874.1	937.1	993.8	1046.3	1094.5	1129.9	1156.3	1179.3	1199.0	1215.2
55°	959.8	1030.0	1096.2	1143.5	1182.3	1217.9	1246.1	1255.3	1263.3	1270.1	1275.8
52.5°	1106.1	1159.8	1208.3	1247.2	1260.6	1272.9	1284.1	1297.2	1309.3	1319.7	1328.2
50°	1206.0	1249.7	1266.3	1281.9	1300.4	1318.9	1335.6	1374.8	1432.6	1482.1	1523.0
47.5°	1262.6	1281.5	1304.5	1327.8	1369.4	1456.9	1536.7	1671.3	2075.7	2422.2	2708.8
45°	1295.0	1323.0	1369.9	1479.6	1581.9	2110.8	2665.6	3163.9	3514.6	3803.4	4042.5
42.5°	1335.5	1439.5	1564.1	2144.9	2852.7	3441.9	3901.2	4314.5	4505.6	4553.9	4593.9
40°	1481.8	1757.0	2613.2	3376.9	3959.1	4478.0	4554.2	4622.9	4676.9	4709.2	4736.0
37.5°	1943.3	2898.2	3673.8	4337.0	4548.9	4638.2	4699.5	4745.3	4783.9	4759.8	4739.7
35°	2993.9	3824.0	4488.4	4597.2	4686.9	4746.0	4773.9	4739.8	4709.6	4609.7	4506.2
32.5°	3824.0	4500.3	4621.6	4710.1	4777.6	4746.0	4705.6	4541.3	4386.2	4233.6	4090.2
30°	4488.4	4621.6	4717.9	4778.5	4728.9	4604.3	4399.2	4183.1	3969.5	3812.0	3758.2
27.5°	4597.2	4710.1	4778.5	4723.1	4548.0	4310.6	4030.7	3808.7	3729.1	3659.3	3728.3
25°	4686.9	4777.6	4728.9	4548.0	4273.2	3953.0	3767.2	3671.8	3746.0	3836.1	4069.6
22.5°	4746.0	4746.0	4604.3	4310.6	3953.0	3753.2	3678.5	3800.2	4064.2	4444.1	5599.3
20°	4773.9	4705.6	4399.2	4030.7	3767.2	3678.5	3818.6	4212.9	4997.0	7757.8	11191.6
17.5°	4739.8	4541.3	4183.1	3808.7	3671.8	3800.2	4212.9	5524.7	8876.8	16943.8	25558.3
15°	4709.6	4386.2	3969.5	3729.1	3746.0	4064.2	4997.0	8876.8	18916.9	32322.3	48539.3
12.5°	4609.7	4233.6	3812.0	3659.3	3836.1	4444.1	7757.8	16943.8	32322.3	52478.1	83990.3
10°	4506.2	4090.2	3758.2	3728.3	4069.6	5599.3	11191.6	25558.3	48539.3	83990.3	131402.5
7.5°	4424.3	3976.5	3715.4	3783.9	4306.3	7339.7	17504.6	37180.3	68766.0	117322.3	183728.8
5°	4365.1	3894.0	3684.3	3824.6	4479.8	8622.7	22194.8	46167.6	87229.7	152429.7	240611.6
2.5°	4329.2	3844.0	3665.3	3849.3	4585.7	9409.8	25089.0	51758.9	98855.0	174944.4	278194.3
0°	4317.2	3827.2	3659.0	3857.6	4621.4	9675.2	26067.9	53658.6	102831.9	182731.3	291443.2
-2.5°	4329.2	3844.0	3665.3	3849.3	4585.7	9409.8	25089.0	51758.9	98855.0	174944.4	278194.3
-5°	4365.1	3894.0	3684.3	3824.6	4479.8	8622.7	22194.8	46167.6	87229.7	152429.7	240611.6
-7.5°	4424.3	3976.5	3715.4	3783.9	4306.3	7339.7	17504.6	37180.3	68766.0	117322.3	183728.8
-10°	4506.2	4090.2	3758.2	3728.3	4069.6	5599.3	11191.6	25558.3	48539.3	83990.3	131402.5
-12.5°	4609.7	4233.6	3812.0	3659.3	3836.1	4444.1	7757.8	16943.8	32322.3	52478.1	83990.3
-15°	4709.6	4386.2	3969.5	3729.1	3746.0	4064.2	4997.0	8876.8	18916.9	32322.3	48539.3
-17.5°	4739.8	4541.3	4183.1	3808.7	3671.8	3800.2	4212.9	5524.7	8876.8	16943.8	25558.3
-20°	4773.9	4705.6	4399.2	4030.7	3767.2	3678.5	3818.6	4212.9	4997.0	7757.8	11191.6



REPORT NUMBER: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4746.0	4746.0	4604.3	4310.6	3953.0	3753.2	3678.5	3800.2	4064.2	4444.1	5599.3
-25°	4686.9	4777.6	4728.9	4548.0	4273.2	3953.0	3767.2	3671.8	3746.0	3836.1	4069.6
-27.5°	4597.2	4710.1	4778.5	4723.1	4548.0	4310.6	4030.7	3808.7	3729.1	3659.3	3728.3
-30°	4488.4	4621.6	4717.9	4778.5	4728.9	4604.3	4399.2	4183.1	3969.5	3812.0	3758.2
-32.5°	3824.0	4500.3	4621.6	4710.1	4777.6	4746.0	4705.6	4541.3	4386.2	4233.6	4090.2
-35°	2993.9	3824.0	4488.4	4597.2	4686.9	4746.0	4773.9	4739.8	4709.6	4609.7	4506.2
-37.5°	1943.3	2898.2	3673.8	4337.0	4548.9	4638.2	4699.5	4745.3	4783.9	4759.8	4739.7
-40°	1481.8	1757.0	2613.2	3376.9	3959.1	4478.0	4554.2	4622.9	4676.9	4709.2	4736.0
-42.5°	1335.5	1439.5	1564.1	2144.9	2852.7	3441.9	3901.2	4314.5	4505.6	4553.9	4593.9
-45°	1295.0	1323.0	1369.9	1479.6	1581.9	2110.8	2665.6	3163.9	3514.6	3803.4	4042.5
-47.5°	1262.6	1281.5	1304.5	1327.8	1369.4	1456.9	1536.7	1671.3	2075.7	2422.2	2708.8
-50°	1206.0	1249.7	1266.3	1281.9	1300.4	1318.9	1335.6	1374.8	1432.6	1482.1	1523.0
-52.5°	1106.1	1159.8	1208.3	1247.2	1260.6	1272.9	1284.1	1297.2	1309.3	1319.7	1328.2
-55°	959.8	1030.0	1096.2	1143.5	1182.3	1217.9	1246.1	1255.3	1263.3	1270.1	1275.8
-57.5°	806.3	874.1	937.1	993.8	1046.3	1094.5	1129.9	1156.3	1179.3	1199.0	1215.2
-60°	644.7	710.8	769.4	823.8	874.1	920.2	959.8	995.2	1026.1	1052.4	1074.1
-62.5°	483.9	535.9	592.2	644.7	693.2	736.3	774.0	807.6	836.9	861.9	882.4
-65°	371.6	407.3	440.8	472.0	501.4	541.3	577.3	609.4	637.4	661.2	680.8
-67.5°	257.3	289.6	319.9	348.1	373.8	397.3	418.4	437.2	453.6	467.6	479.1
-70°	146.8	173.5	198.4	222.2	245.1	266.0	284.9	301.6	316.2	328.7	338.9
-72.5°	66.6	73.6	83.6	103.8	122.3	139.3	154.6	168.1	179.9	190.0	198.2
-75°	39.7	40.1	45.7	50.8	55.5	59.8	63.7	67.1	70.1	72.7	74.8
-77.5°	50.1	48.5	47.1	45.7	44.5	43.3	42.3	41.4	40.6	39.9	39.4
-80°	26.7	30.0	33.0	35.9	38.5	40.9	43.0	44.9	46.6	48.0	49.1
-82.5°	27.2	25.9	24.7	23.6	22.6	21.6	20.8	20.1	19.4	18.9	18.4
-85°	26.5	27.7	28.8	29.8	30.7	31.5	32.3	33.0	33.6	34.1	34.5
-87.5°	9.2	9.4	9.7	9.9	10.2	10.3	10.5	10.7	10.8	10.9	11.0
-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: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-57-70-1S-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°	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.0	10.9	10.8	10.7
85°	34.8	35.0	35.2	35.2	35.2	35.0	34.8	34.5	34.1	33.6	33.0
82.5°	18.1	17.8	17.7	17.6	17.7	17.8	18.1	18.4	18.9	19.4	20.1
80°	50.0	50.7	51.1	51.2	51.1	50.7	50.0	49.1	48.0	46.6	44.9
77.5°	39.0	38.6	38.5	38.4	38.5	38.6	39.0	39.4	39.9	40.6	41.4
75°	76.4	77.6	78.3	78.5	78.3	77.6	76.4	74.8	72.7	70.1	67.1
72.5°	204.7	209.3	212.1	213.0	212.1	209.3	204.7	198.2	190.0	179.9	168.1
70°	346.8	352.5	356.0	357.1	356.0	352.5	346.8	338.9	328.7	316.2	301.6
67.5°	488.0	494.5	498.3	499.6	498.3	494.5	488.0	479.1	467.6	453.6	437.2
65°	696.1	707.0	713.6	715.8	713.6	707.0	696.1	680.8	661.2	637.4	609.4
62.5°	898.5	910.0	916.9	919.2	916.9	910.0	898.5	882.4	861.9	836.9	807.6
60°	1091.0	1103.2	1110.5	1112.9	1110.5	1103.2	1091.0	1074.1	1052.4	1026.1	995.2
57.5°	1227.8	1236.9	1242.4	1244.2	1242.4	1236.9	1227.8	1215.2	1199.0	1179.3	1156.3
55°	1280.2	1283.4	1285.3	1285.9	1285.3	1283.4	1280.2	1275.8	1270.1	1263.3	1255.3
52.5°	1334.9	1339.6	1342.5	1343.5	1342.5	1339.6	1334.9	1328.2	1319.7	1309.3	1297.2
50°	1555.0	1578.0	1591.9	1596.5	1591.9	1578.0	1555.0	1523.0	1482.1	1432.6	1374.8
47.5°	2933.5	3095.2	3192.6	3225.1	3192.6	3095.2	2933.5	2708.8	2422.2	2075.7	1671.3
45°	4230.2	4365.4	4446.9	4474.1	4446.9	4365.4	4230.2	4042.5	3803.4	3514.6	3163.9
42.5°	4625.3	4648.0	4661.6	4666.2	4661.6	4648.0	4625.3	4593.9	4553.9	4505.6	4314.5
40°	4757.2	4772.4	4781.6	4784.7	4781.6	4772.4	4757.2	4736.0	4709.2	4676.9	4622.9
37.5°	4723.8	4712.3	4705.4	4703.1	4705.4	4712.3	4723.8	4739.7	4759.8	4783.9	4745.3
35°	4424.3	4365.1	4329.2	4317.2	4329.2	4365.1	4424.3	4506.2	4609.7	4709.6	4739.8
32.5°	3976.5	3894.0	3844.0	3827.2	3844.0	3894.0	3976.5	4090.2	4233.6	4386.2	4541.3
30°	3715.4	3684.3	3665.3	3659.0	3665.3	3684.3	3715.4	3758.2	3812.0	3969.5	4183.1
27.5°	3783.9	3824.6	3849.3	3857.6	3849.3	3824.6	3783.9	3728.3	3659.3	3729.1	3808.7
25°	4306.3	4479.8	4585.7	4621.4	4585.7	4479.8	4306.3	4069.6	3836.1	3746.0	3671.8
22.5°	7339.7	8622.7	9409.8	9675.2	9409.8	8622.7	7339.7	5599.3	4444.1	4064.2	3800.2
20°	17504.6	22194.8	25089.0	26067.9	25089.0	22194.8	17504.6	11191.6	7757.8	4997.0	4212.9
17.5°	37180.3	46167.6	51758.9	53658.6	51758.9	46167.6	37180.3	25558.3	16943.8	8876.8	5524.7
15°	68766.0	87229.7	98855.0	102831.9	98855.0	87229.7	68766.0	48539.3	32322.3	18916.9	8876.8
12.5°	117322.3	152429.7	174944.4	182731.3	174944.4	152429.7	117322.3	83990.3	52478.1	32322.3	16943.8
10°	183728.8	240611.6	278194.3	291443.2	278194.3	240611.6	183728.8	131402.5	83990.3	48539.3	25558.3
7.5°	265725.8	339943.9	395784.5	418233.3	395784.5	339943.9	265725.8	183728.8	117322.3	68766.0	37180.3
5°	339943.9	442350.9	517691.8	545137.0	517691.8	442350.9	339943.9	240611.6	152429.7	87229.7	46167.6
2.5°	395784.5	517691.8	605268.8	646346.0	605268.8	517691.8	395784.5	278194.3	174944.4	98855.0	51758.9
0°	418233.3	545137.0	646346.0	705276.9	646346.0	545137.0	418233.3	291443.2	182731.3	102831.9	53658.6
-2.5°	395784.5	517691.8	605268.8	646346.0	605268.8	517691.8	395784.5	278194.3	174944.4	98855.0	51758.9
-5°	339943.9	442350.9	517691.8	545137.0	517691.8	442350.9	339943.9	240611.6	152429.7	87229.7	46167.6
-7.5°	265725.8	339943.9	395784.5	418233.3	395784.5	339943.9	265725.8	183728.8	117322.3	68766.0	37180.3
-10°	183728.8	240611.6	278194.3	291443.2	278194.3	240611.6	183728.8	131402.5	83990.3	48539.3	25558.3
-12.5°	117322.3	152429.7	174944.4	182731.3	174944.4	152429.7	117322.3	83990.3	52478.1	32322.3	16943.8
-15°	68766.0	87229.7	98855.0	102831.9	98855.0	87229.7	68766.0	48539.3	32322.3	18916.9	8876.8
-17.5°	37180.3	46167.6	51758.9	53658.6	51758.9	46167.6	37180.3	25558.3	16943.8	8876.8	5524.7
-20°	17504.6	22194.8	25089.0	26067.9	25089.0	22194.8	17504.6	11191.6	7757.8	4997.0	4212.9



REPORT NUMBER: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	7339.7	8622.7	9409.8	9675.2	9409.8	8622.7	7339.7	5599.3	4444.1	4064.2	3800.2
-25°	4306.3	4479.8	4585.7	4621.4	4585.7	4479.8	4306.3	4069.6	3836.1	3746.0	3671.8
-27.5°	3783.9	3824.6	3849.3	3857.6	3849.3	3824.6	3783.9	3728.3	3659.3	3729.1	3808.7
-30°	3715.4	3684.3	3665.3	3659.0	3665.3	3684.3	3715.4	3758.2	3812.0	3969.5	4183.1
-32.5°	3976.5	3894.0	3844.0	3827.2	3844.0	3894.0	3976.5	4090.2	4233.6	4386.2	4541.3
-35°	4424.3	4365.1	4329.2	4317.2	4329.2	4365.1	4424.3	4506.2	4609.7	4709.6	4739.8
-37.5°	4723.8	4712.3	4705.4	4703.1	4705.4	4712.3	4723.8	4739.7	4759.8	4783.9	4745.3
-40°	4757.2	4772.4	4781.6	4784.7	4781.6	4772.4	4757.2	4736.0	4709.2	4676.9	4622.9
-42.5°	4625.3	4648.0	4661.6	4666.2	4661.6	4648.0	4625.3	4593.9	4553.9	4505.6	4314.5
-45°	4230.2	4365.4	4446.9	4474.1	4446.9	4365.4	4230.2	4042.5	3803.4	3514.6	3163.9
-47.5°	2933.5	3095.2	3192.6	3225.1	3192.6	3095.2	2933.5	2708.8	2422.2	2075.7	1671.3
-50°	1555.0	1578.0	1591.9	1596.5	1591.9	1578.0	1555.0	1523.0	1482.1	1432.6	1374.8
-52.5°	1334.9	1339.6	1342.5	1343.5	1342.5	1339.6	1334.9	1328.2	1319.7	1309.3	1297.2
-55°	1280.2	1283.4	1285.3	1285.9	1285.3	1283.4	1280.2	1275.8	1270.1	1263.3	1255.3
-57.5°	1227.8	1236.9	1242.4	1244.2	1242.4	1236.9	1227.8	1215.2	1199.0	1179.3	1156.3
-60°	1091.0	1103.2	1110.5	1112.9	1110.5	1103.2	1091.0	1074.1	1052.4	1026.1	995.2
-62.5°	898.5	910.0	916.9	919.2	916.9	910.0	898.5	882.4	861.9	836.9	807.6
-65°	696.1	707.0	713.6	715.8	713.6	707.0	696.1	680.8	661.2	637.4	609.4
-67.5°	488.0	494.5	498.3	499.6	498.3	494.5	488.0	479.1	467.6	453.6	437.2
-70°	346.8	352.5	356.0	357.1	356.0	352.5	346.8	338.9	328.7	316.2	301.6
-72.5°	204.7	209.3	212.1	213.0	212.1	209.3	204.7	198.2	190.0	179.9	168.1
-75°	76.4	77.6	78.3	78.5	78.3	77.6	76.4	74.8	72.7	70.1	67.1
-77.5°	39.0	38.6	38.5	38.4	38.5	38.6	39.0	39.4	39.9	40.6	41.4
-80°	50.0	50.7	51.1	51.2	51.1	50.7	50.0	49.1	48.0	46.6	44.9
-82.5°	18.1	17.8	17.7	17.6	17.7	17.8	18.1	18.4	18.9	19.4	20.1
-85°	34.8	35.0	35.2	35.2	35.2	35.0	34.8	34.5	34.1	33.6	33.0
-87.5°	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.0	10.9	10.8	10.7
-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: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-57-70-1S-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°	10.5	10.3	10.2	9.9	9.7	9.4	9.2	8.9	8.6	8.3	7.9
85°	32.3	31.5	30.7	29.8	28.8	27.7	26.5	25.3	24.0	22.6	21.1
82.5°	20.8	21.6	22.6	23.6	24.7	25.9	27.2	28.6	30.0	31.5	33.1
80°	43.0	40.9	38.5	35.9	33.0	30.0	26.7	23.2	19.5	18.6	20.7
77.5°	42.3	43.3	44.5	45.7	47.1	48.5	50.1	49.7	45.1	40.2	35.1
75°	63.7	59.8	55.5	50.8	45.7	40.1	39.7	41.7	43.8	46.1	48.4
72.5°	154.6	139.3	122.3	103.8	83.6	73.6	66.6	59.3	51.5	43.4	39.5
70°	284.9	266.0	245.1	222.2	198.4	173.5	146.8	118.5	88.7	72.2	62.4
67.5°	418.4	397.3	373.8	348.1	319.9	289.6	257.3	223.0	188.6	153.2	116.2
65°	577.3	541.3	501.4	472.0	440.8	407.3	371.6	333.5	293.1	250.7	207.0
62.5°	774.0	736.3	693.2	644.7	592.2	535.9	483.9	442.0	397.9	351.5	302.7
60°	959.8	920.2	874.1	823.8	769.4	710.8	644.7	574.9	501.4	450.1	397.3
57.5°	1129.9	1094.5	1046.3	993.8	937.1	874.1	806.3	734.6	655.7	572.0	489.9
55°	1246.1	1217.9	1182.3	1143.5	1096.2	1030.0	959.8	884.1	802.4	717.2	623.0
52.5°	1284.1	1272.9	1260.6	1247.2	1208.3	1159.8	1106.1	1026.1	942.2	851.5	756.2
50°	1335.6	1318.9	1300.4	1281.9	1266.3	1249.7	1206.0	1147.6	1074.1	980.3	881.3
47.5°	1536.7	1456.9	1369.4	1327.8	1304.5	1281.5	1262.6	1239.5	1174.2	1103.2	999.5
45°	2665.6	2110.8	1581.9	1479.6	1369.9	1323.0	1295.0	1271.3	1249.2	1187.6	1112.9
42.5°	3901.2	3441.9	2852.7	2144.9	1564.1	1439.5	1335.5	1304.3	1275.7	1251.3	1187.6
40°	4554.2	4478.0	3959.1	3376.9	2613.2	1757.0	1481.8	1341.8	1307.4	1275.7	1249.2
37.5°	4699.5	4638.2	4548.9	4337.0	3673.8	2898.2	1943.3	1496.0	1341.8	1304.3	1271.3
35°	4773.9	4746.0	4686.9	4597.2	4488.4	3824.0	2993.9	1943.3	1481.8	1335.5	1295.0
32.5°	4705.6	4746.0	4777.6	4710.1	4621.6	4500.3	3824.0	2898.2	1757.0	1439.5	1323.0
30°	4399.2	4604.3	4728.9	4778.5	4717.9	4621.6	4488.4	3673.8	2613.2	1564.1	1369.9
27.5°	4030.7	4310.6	4548.0	4723.1	4778.5	4710.1	4597.2	4337.0	3376.9	2144.9	1479.6
25°	3767.2	3953.0	4273.2	4548.0	4728.9	4777.6	4686.9	4548.9	3959.1	2852.7	1581.9
22.5°	3678.5	3753.2	3953.0	4310.6	4604.3	4746.0	4746.0	4638.2	4478.0	3441.9	2110.8
20°	3818.6	3678.5	3767.2	4030.7	4399.2	4705.6	4773.9	4699.5	4554.2	3901.2	2665.6
17.5°	4212.9	3800.2	3671.8	3808.7	4183.1	4541.3	4739.8	4745.3	4622.9	4314.5	3163.9
15°	4997.0	4064.2	3746.0	3729.1	3969.5	4386.2	4709.6	4783.9	4676.9	4505.6	3514.6
12.5°	7757.8	4444.1	3836.1	3659.3	3812.0	4233.6	4609.7	4759.8	4709.2	4553.9	3803.4
10°	11191.6	5599.3	4069.6	3728.3	3758.2	4090.2	4506.2	4739.7	4736.0	4593.9	4042.5
7.5°	17504.6	7339.7	4306.3	3783.9	3715.4	3976.5	4424.3	4723.8	4757.2	4625.3	4230.2
5°	22194.8	8622.7	4479.8	3824.6	3684.3	3894.0	4365.1	4712.3	4772.4	4648.0	4365.4
2.5°	25089.0	9409.8	4585.7	3849.3	3665.3	3844.0	4329.2	4705.4	4781.6	4661.6	4446.9
0°	26067.9	9675.2	4621.4	3857.6	3659.0	3827.2	4317.2	4703.1	4784.7	4666.2	4474.1
-2.5°	25089.0	9409.8	4585.7	3849.3	3665.3	3844.0	4329.2	4705.4	4781.6	4661.6	4446.9
-5°	22194.8	8622.7	4479.8	3824.6	3684.3	3894.0	4365.1	4712.3	4772.4	4648.0	4365.4
-7.5°	17504.6	7339.7	4306.3	3783.9	3715.4	3976.5	4424.3	4723.8	4757.2	4625.3	4230.2
-10°	11191.6	5599.3	4069.6	3728.3	3758.2	4090.2	4506.2	4739.7	4736.0	4593.9	4042.5
-12.5°	7757.8	4444.1	3836.1	3659.3	3812.0	4233.6	4609.7	4759.8	4709.2	4553.9	3803.4
-15°	4997.0	4064.2	3746.0	3729.1	3969.5	4386.2	4709.6	4783.9	4676.9	4505.6	3514.6
-17.5°	4212.9	3800.2	3671.8	3808.7	4183.1	4541.3	4739.8	4745.3	4622.9	4314.5	3163.9
-20°	3818.6	3678.5	3767.2	4030.7	4399.2	4705.6	4773.9	4699.5	4554.2	3901.2	2665.6



REPORT NUMBER: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3678.5	3753.2	3953.0	4310.6	4604.3	4746.0	4746.0	4638.2	4478.0	3441.9	2110.8
-25°	3767.2	3953.0	4273.2	4548.0	4728.9	4777.6	4686.9	4548.9	3959.1	2852.7	1581.9
-27.5°	4030.7	4310.6	4548.0	4723.1	4778.5	4710.1	4597.2	4337.0	3376.9	2144.9	1479.6
-30°	4399.2	4604.3	4728.9	4778.5	4717.9	4621.6	4488.4	3673.8	2613.2	1564.1	1369.9
-32.5°	4705.6	4746.0	4777.6	4710.1	4621.6	4500.3	3824.0	2898.2	1757.0	1439.5	1323.0
-35°	4773.9	4746.0	4686.9	4597.2	4488.4	3824.0	2993.9	1943.3	1481.8	1335.5	1295.0
-37.5°	4699.5	4638.2	4548.9	4337.0	3673.8	2898.2	1943.3	1496.0	1341.8	1304.3	1271.3
-40°	4554.2	4478.0	3959.1	3376.9	2613.2	1757.0	1481.8	1341.8	1307.4	1275.7	1249.2
-42.5°	3901.2	3441.9	2852.7	2144.9	1564.1	1439.5	1335.5	1304.3	1275.7	1251.3	1187.6
-45°	2665.6	2110.8	1581.9	1479.6	1369.9	1323.0	1295.0	1271.3	1249.2	1187.6	1112.9
-47.5°	1536.7	1456.9	1369.4	1327.8	1304.5	1281.5	1262.6	1239.5	1174.2	1103.2	999.5
-50°	1335.6	1318.9	1300.4	1281.9	1266.3	1249.7	1206.0	1147.6	1074.1	980.3	881.3
-52.5°	1284.1	1272.9	1260.6	1247.2	1208.3	1159.8	1106.1	1026.1	942.2	851.5	756.2
-55°	1246.1	1217.9	1182.3	1143.5	1096.2	1030.0	959.8	884.1	802.4	717.2	623.0
-57.5°	1129.9	1094.5	1046.3	993.8	937.1	874.1	806.3	734.6	655.7	572.0	489.9
-60°	959.8	920.2	874.1	823.8	769.4	710.8	644.7	574.9	501.4	450.1	397.3
-62.5°	774.0	736.3	693.2	644.7	592.2	535.9	483.9	442.0	397.9	351.5	302.7
-65°	577.3	541.3	501.4	472.0	440.8	407.3	371.6	333.5	293.1	250.7	207.0
-67.5°	418.4	397.3	373.8	348.1	319.9	289.6	257.3	223.0	188.6	153.2	116.2
-70°	284.9	266.0	245.1	222.2	198.4	173.5	146.8	118.5	88.7	72.2	62.4
-72.5°	154.6	139.3	122.3	103.8	83.6	73.6	66.6	59.3	51.5	43.4	39.5
-75°	63.7	59.8	55.5	50.8	45.7	40.1	39.7	41.7	43.8	46.1	48.4
-77.5°	42.3	43.3	44.5	45.7	47.1	48.5	50.1	49.7	45.1	40.2	35.1
-80°	43.0	40.9	38.5	35.9	33.0	30.0	26.7	23.2	19.5	18.6	20.7
-82.5°	20.8	21.6	22.6	23.6	24.7	25.9	27.2	28.6	30.0	31.5	33.1
-85°	32.3	31.5	30.7	29.8	28.8	27.7	26.5	25.3	24.0	22.6	21.1
-87.5°	10.5	10.3	10.2	9.9	9.7	9.4	9.2	8.9	8.6	8.3	7.9
-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: P413460 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-57-70-1S-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°	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.7	4.3	3.8	3.4
85°	19.6	18.0	16.4	14.7	13.0	11.2	10.3	9.5	8.6	7.7	6.7
82.5°	34.8	33.4	31.0	28.4	25.8	23.1	20.4	17.6	14.7	11.8	10.1
80°	23.0	25.3	27.7	30.2	32.7	35.0	31.4	27.6	23.8	19.9	15.9
77.5°	29.8	24.3	18.6	20.2	23.4	26.7	30.0	33.5	32.8	28.0	23.0
75°	50.8	45.5	38.6	31.5	24.2	18.1	22.1	26.2	30.4	34.6	30.1
72.5°	42.4	45.3	48.4	50.3	41.8	33.0	24.1	19.0	23.9	28.8	33.9
70°	52.2	41.6	40.9	44.5	48.2	49.1	38.9	28.5	17.9	23.1	28.8
67.5°	78.2	66.3	54.0	41.3	41.6	45.9	50.3	41.9	30.0	17.9	23.9
65°	164.0	119.5	77.0	62.9	48.4	39.9	44.8	49.7	41.9	28.5	19.0
62.5°	252.0	200.4	149.8	97.8	68.3	52.0	39.4	44.8	50.3	38.9	24.1
60°	342.3	284.9	225.7	168.1	109.9	70.1	52.0	39.9	45.9	49.1	33.0
57.5°	430.3	368.7	304.8	238.9	174.2	109.9	68.3	48.4	41.6	48.2	41.8
55°	525.5	450.3	382.0	311.4	238.9	168.1	97.8	62.9	41.3	44.5	50.3
52.5°	654.0	545.9	457.0	382.0	304.8	225.7	149.8	77.0	54.0	40.9	48.4
50°	775.9	664.3	545.9	450.3	368.7	284.9	200.4	119.5	66.3	41.6	45.3
47.5°	891.3	775.9	654.0	525.5	430.3	342.3	252.0	164.0	78.2	52.2	42.4
45°	999.5	881.3	756.2	623.0	489.9	397.3	302.7	207.0	116.2	62.4	39.5
42.5°	1103.2	980.3	851.5	717.2	572.0	450.1	351.5	250.7	153.2	72.2	43.4
40°	1174.2	1074.1	942.2	802.4	655.7	501.4	397.9	293.1	188.6	88.7	51.5
37.5°	1239.5	1147.6	1026.1	884.1	734.6	574.9	442.0	333.5	223.0	118.5	59.3
35°	1262.6	1206.0	1106.1	959.8	806.3	644.7	483.9	371.6	257.3	146.8	66.6
32.5°	1281.5	1249.7	1159.8	1030.0	874.1	710.8	535.9	407.3	289.6	173.5	73.6
30°	1304.5	1266.3	1208.3	1096.2	937.1	769.4	592.2	440.8	319.9	198.4	83.6
27.5°	1327.8	1281.9	1247.2	1143.5	993.8	823.8	644.7	472.0	348.1	222.2	103.8
25°	1369.4	1300.4	1260.6	1182.3	1046.3	874.1	693.2	501.4	373.8	245.1	122.3
22.5°	1456.9	1318.9	1272.9	1217.9	1094.5	920.2	736.3	541.3	397.3	266.0	139.3
20°	1536.7	1335.6	1284.1	1246.1	1129.9	959.8	774.0	577.3	418.4	284.9	154.6
17.5°	1671.3	1374.8	1297.2	1255.3	1156.3	995.2	807.6	609.4	437.2	301.6	168.1
15°	2075.7	1432.6	1309.3	1263.3	1179.3	1026.1	836.9	637.4	453.6	316.2	179.9
12.5°	2422.2	1482.1	1319.7	1270.1	1199.0	1052.4	861.9	661.2	467.6	328.7	190.0
10°	2708.8	1523.0	1328.2	1275.8	1215.2	1074.1	882.4	680.8	479.1	338.9	198.2
7.5°	2933.5	1555.0	1334.9	1280.2	1227.8	1091.0	898.5	696.1	488.0	346.8	204.7
5°	3095.2	1578.0	1339.6	1283.4	1236.9	1103.2	910.0	707.0	494.5	352.5	209.3
2.5°	3192.6	1591.9	1342.5	1285.3	1242.4	1110.5	916.9	713.6	498.3	356.0	212.1
0°	3225.1	1596.5	1343.5	1285.9	1244.2	1112.9	919.2	715.8	499.6	357.1	213.0
-2.5°	3192.6	1591.9	1342.5	1285.3	1242.4	1110.5	916.9	713.6	498.3	356.0	212.1
-5°	3095.2	1578.0	1339.6	1283.4	1236.9	1103.2	910.0	707.0	494.5	352.5	209.3
-7.5°	2933.5	1555.0	1334.9	1280.2	1227.8	1091.0	898.5	696.1	488.0	346.8	204.7
-10°	2708.8	1523.0	1328.2	1275.8	1215.2	1074.1	882.4	680.8	479.1	338.9	198.2
-12.5°	2422.2	1482.1	1319.7	1270.1	1199.0	1052.4	861.9	661.2	467.6	328.7	190.0
-15°	2075.7	1432.6	1309.3	1263.3	1179.3	1026.1	836.9	637.4	453.6	316.2	179.9
-17.5°	1671.3	1374.8	1297.2	1255.3	1156.3	995.2	807.6	609.4	437.2	301.6	168.1
-20°	1536.7	1335.6	1284.1	1246.1	1129.9	959.8	774.0	577.3	418.4	284.9	154.6



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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°	1456.9	1318.9	1272.9	1217.9	1094.5	920.2	736.3	541.3	397.3	266.0	139.3
-25°	1369.4	1300.4	1260.6	1182.3	1046.3	874.1	693.2	501.4	373.8	245.1	122.3
-27.5°	1327.8	1281.9	1247.2	1143.5	993.8	823.8	644.7	472.0	348.1	222.2	103.8
-30°	1304.5	1266.3	1208.3	1096.2	937.1	769.4	592.2	440.8	319.9	198.4	83.6
-32.5°	1281.5	1249.7	1159.8	1030.0	874.1	710.8	535.9	407.3	289.6	173.5	73.6
-35°	1262.6	1206.0	1106.1	959.8	806.3	644.7	483.9	371.6	257.3	146.8	66.6
-37.5°	1239.5	1147.6	1026.1	884.1	734.6	574.9	442.0	333.5	223.0	118.5	59.3
-40°	1174.2	1074.1	942.2	802.4	655.7	501.4	397.9	293.1	188.6	88.7	51.5
-42.5°	1103.2	980.3	851.5	717.2	572.0	450.1	351.5	250.7	153.2	72.2	43.4
-45°	999.5	881.3	756.2	623.0	489.9	397.3	302.7	207.0	116.2	62.4	39.5
-47.5°	891.3	775.9	654.0	525.5	430.3	342.3	252.0	164.0	78.2	52.2	42.4
-50°	775.9	664.3	545.9	450.3	368.7	284.9	200.4	119.5	66.3	41.6	45.3
-52.5°	654.0	545.9	457.0	382.0	304.8	225.7	149.8	77.0	54.0	40.9	48.4
-55°	525.5	450.3	382.0	311.4	238.9	168.1	97.8	62.9	41.3	44.5	50.3
-57.5°	430.3	368.7	304.8	238.9	174.2	109.9	68.3	48.4	41.6	48.2	41.8
-60°	342.3	284.9	225.7	168.1	109.9	70.1	52.0	39.9	45.9	49.1	33.0
-62.5°	252.0	200.4	149.8	97.8	68.3	52.0	39.4	44.8	50.3	38.9	24.1
-65°	164.0	119.5	77.0	62.9	48.4	39.9	44.8	49.7	41.9	28.5	19.0
-67.5°	78.2	66.3	54.0	41.3	41.6	45.9	50.3	41.9	30.0	17.9	23.9
-70°	52.2	41.6	40.9	44.5	48.2	49.1	38.9	28.5	17.9	23.1	28.8
-72.5°	42.4	45.3	48.4	50.3	41.8	33.0	24.1	19.0	23.9	28.8	33.9
-75°	50.8	45.5	38.6	31.5	24.2	18.1	22.1	26.2	30.4	34.6	30.1
-77.5°	29.8	24.3	18.6	20.2	23.4	26.7	30.0	33.5	32.8	28.0	23.0
-80°	23.0	25.3	27.7	30.2	32.7	35.0	31.4	27.6	23.8	19.9	15.9
-82.5°	34.8	33.4	31.0	28.4	25.8	23.1	20.4	17.6	14.7	11.8	10.1
-85°	19.6	18.0	16.4	14.7	13.0	11.2	10.3	9.5	8.6	7.7	6.7
-87.5°	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.7	4.3	3.8	3.4
-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°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
85°	5.8	4.8	3.9	2.9	1.9	1.0	0.0
82.5°	8.7	7.3	5.8	4.4	2.9	1.5	0.0
80°	11.9	9.6	7.7	5.8	3.9	1.9	0.0
77.5°	18.0	13.0	9.6	7.3	4.8	2.4	0.0
75°	24.1	18.0	11.9	8.7	5.8	2.9	0.0
72.5°	30.1	23.0	15.9	10.1	6.7	3.4	0.0
70°	34.6	28.0	19.9	11.8	7.7	3.8	0.0
67.5°	30.4	32.8	23.8	14.7	8.6	4.3	0.0
65°	26.2	33.5	27.6	17.6	9.5	4.7	0.0
62.5°	22.1	30.0	31.4	20.4	10.3	5.2	0.0
60°	18.1	26.7	35.0	23.1	11.2	5.6	0.0
57.5°	24.2	23.4	32.7	25.8	13.0	6.0	0.0
55°	31.5	20.2	30.2	28.4	14.7	6.4	0.0
52.5°	38.6	18.6	27.7	31.0	16.4	6.8	0.0
50°	45.5	24.3	25.3	33.4	18.0	7.2	0.0
47.5°	50.8	29.8	23.0	34.8	19.6	7.6	0.0
45°	48.4	35.1	20.7	33.1	21.1	7.9	0.0
42.5°	46.1	40.2	18.6	31.5	22.6	8.3	0.0
40°	43.8	45.1	19.5	30.0	24.0	8.6	0.0
37.5°	41.7	49.7	23.2	28.6	25.3	8.9	0.0
35°	39.7	50.1	26.7	27.2	26.5	9.2	0.0
32.5°	40.1	48.5	30.0	25.9	27.7	9.4	0.0
30°	45.7	47.1	33.0	24.7	28.8	9.7	0.0
27.5°	50.8	45.7	35.9	23.6	29.8	9.9	0.0
25°	55.5	44.5	38.5	22.6	30.7	10.2	0.0
22.5°	59.8	43.3	40.9	21.6	31.5	10.3	0.0
20°	63.7	42.3	43.0	20.8	32.3	10.5	0.0
17.5°	67.1	41.4	44.9	20.1	33.0	10.7	0.0
15°	70.1	40.6	46.6	19.4	33.6	10.8	0.0
12.5°	72.7	39.9	48.0	18.9	34.1	10.9	0.0
10°	74.8	39.4	49.1	18.4	34.5	11.0	0.0
7.5°	76.4	39.0	50.0	18.1	34.8	11.1	0.0
5°	77.6	38.6	50.7	17.8	35.0	11.2	0.0
2.5°	78.3	38.5	51.1	17.7	35.2	11.2	0.0
0°	78.5	38.4	51.2	17.6	35.2	11.2	0.0
-2.5°	78.3	38.5	51.1	17.7	35.2	11.2	0.0
-5°	77.6	38.6	50.7	17.8	35.0	11.2	0.0
-7.5°	76.4	39.0	50.0	18.1	34.8	11.1	0.0
-10°	74.8	39.4	49.1	18.4	34.5	11.0	0.0
-12.5°	72.7	39.9	48.0	18.9	34.1	10.9	0.0
-15°	70.1	40.6	46.6	19.4	33.6	10.8	0.0
-17.5°	67.1	41.4	44.9	20.1	33.0	10.7	0.0
-20°	63.7	42.3	43.0	20.8	32.3	10.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	59.8	43.3	40.9	21.6	31.5	10.3	0.0
-25°	55.5	44.5	38.5	22.6	30.7	10.2	0.0
-27.5°	50.8	45.7	35.9	23.6	29.8	9.9	0.0
-30°	45.7	47.1	33.0	24.7	28.8	9.7	0.0
-32.5°	40.1	48.5	30.0	25.9	27.7	9.4	0.0
-35°	39.7	50.1	26.7	27.2	26.5	9.2	0.0
-37.5°	41.7	49.7	23.2	28.6	25.3	8.9	0.0
-40°	43.8	45.1	19.5	30.0	24.0	8.6	0.0
-42.5°	46.1	40.2	18.6	31.5	22.6	8.3	0.0
-45°	48.4	35.1	20.7	33.1	21.1	7.9	0.0
-47.5°	50.8	29.8	23.0	34.8	19.6	7.6	0.0
-50°	45.5	24.3	25.3	33.4	18.0	7.2	0.0
-52.5°	38.6	18.6	27.7	31.0	16.4	6.8	0.0
-55°	31.5	20.2	30.2	28.4	14.7	6.4	0.0
-57.5°	24.2	23.4	32.7	25.8	13.0	6.0	0.0
-60°	18.1	26.7	35.0	23.1	11.2	5.6	0.0
-62.5°	22.1	30.0	31.4	20.4	10.3	5.2	0.0
-65°	26.2	33.5	27.6	17.6	9.5	4.7	0.0
-67.5°	30.4	32.8	23.8	14.7	8.6	4.3	0.0
-70°	34.6	28.0	19.9	11.8	7.7	3.8	0.0
-72.5°	30.1	23.0	15.9	10.1	6.7	3.4	0.0
-75°	24.1	18.0	11.9	8.7	5.8	2.9	0.0
-77.5°	18.0	13.0	9.6	7.3	4.8	2.4	0.0
-80°	11.9	9.6	7.7	5.8	3.9	1.9	0.0
-82.5°	8.7	7.3	5.8	4.4	2.9	1.5	0.0
-85°	5.8	4.8	3.9	2.9	1.9	1.0	0.0
-87.5°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)