

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: P735968 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-4S-VHE**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735968 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-80-4S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

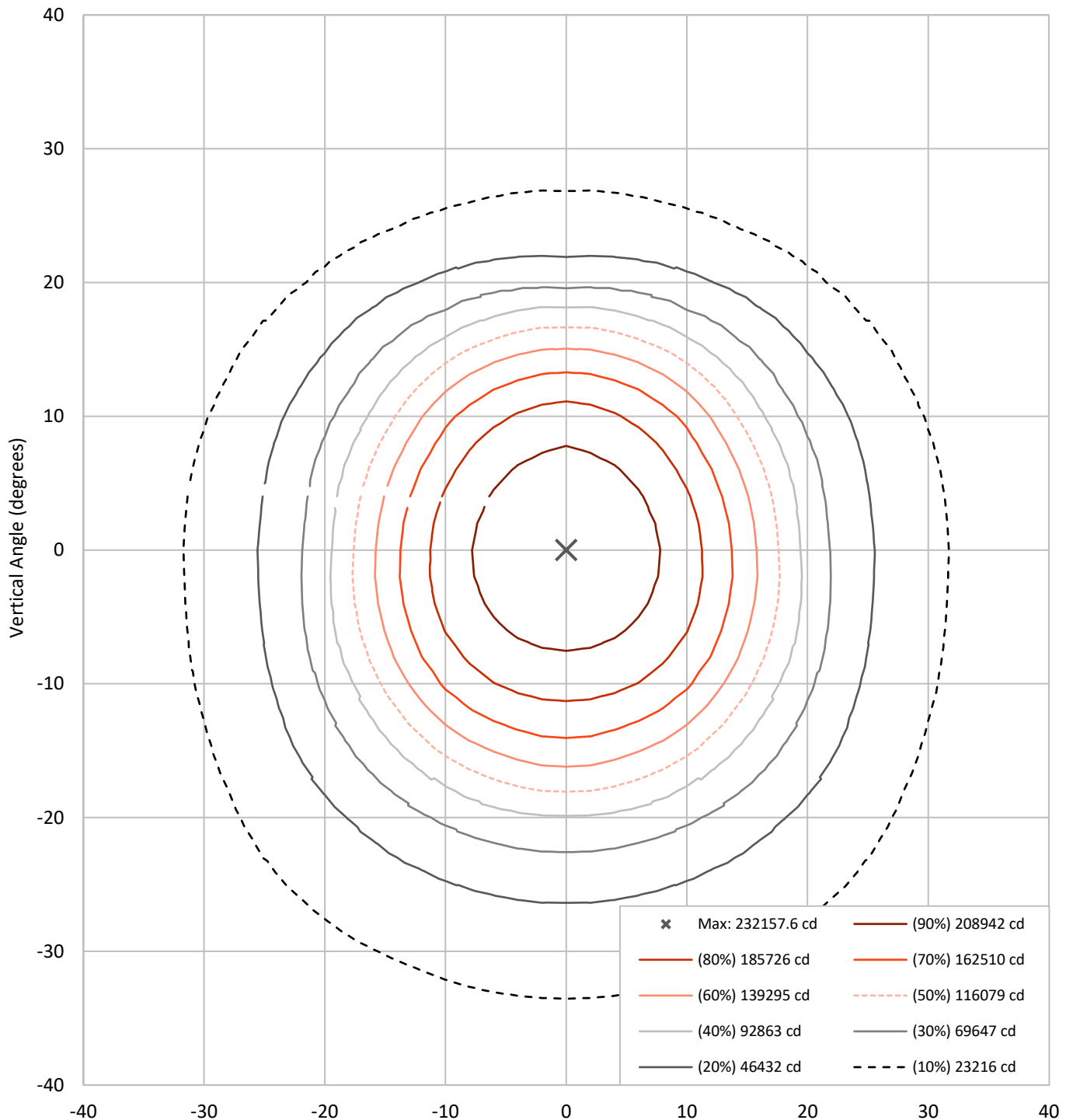
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	96303.6 lumens	Max Intensity:	232157.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	51689 lumens	Field Lumens:	84113.5 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 697.2
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





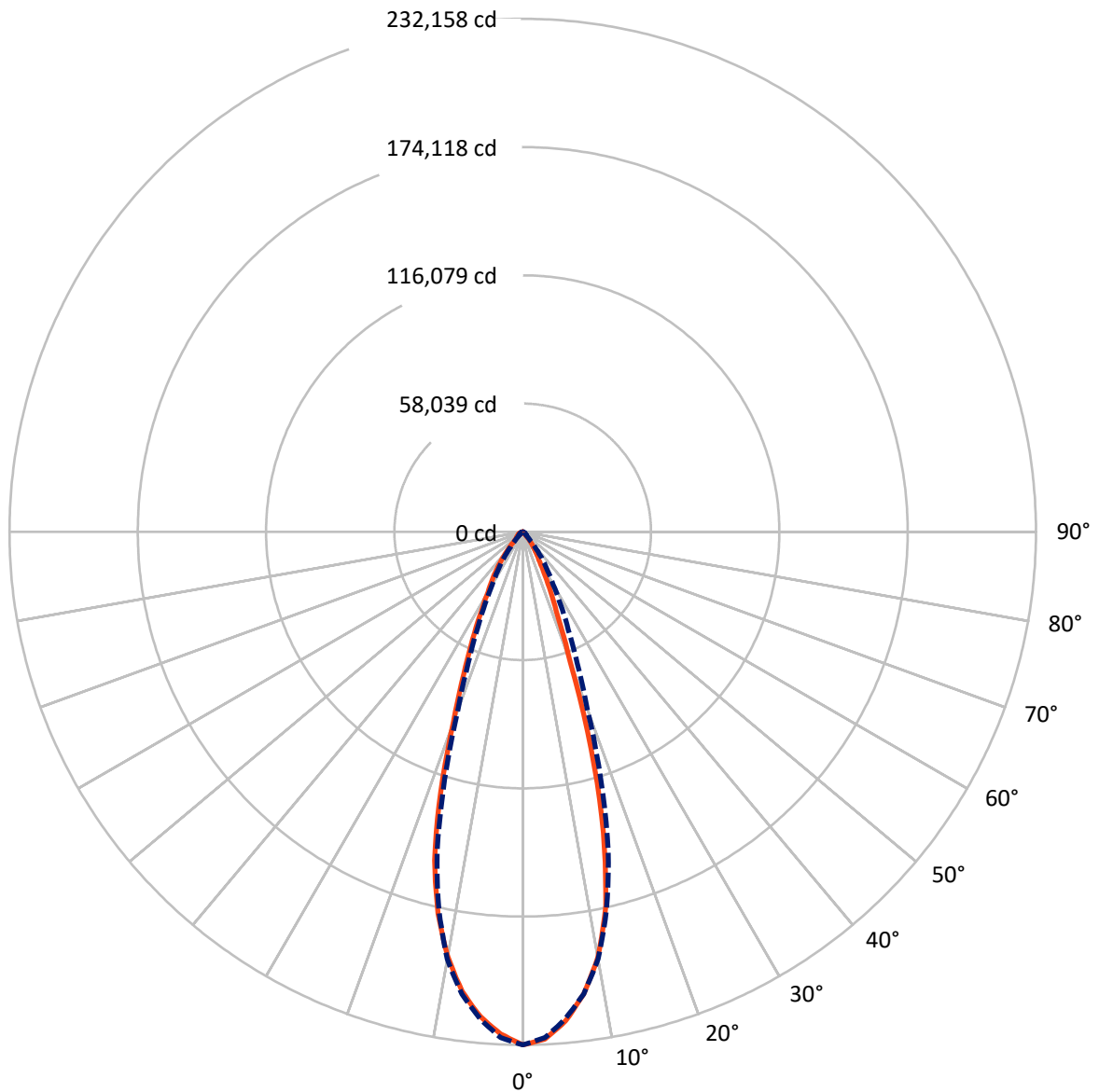
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Lumen Table

90	0.3	1.0	1.8	2.5	2.8	2.5	1.8	1.0	0.3										
80	0.3	0.2	0.3	0.6	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.6	0.3	0.2	0.3			
70																			
60	0.3	0.4	0.8	1.3	1.3	0.9	1.2	1.4	1.4	1.2	0.9	1.3	1.3	0.8	0.4	0.3			
50																			
40	0.9	1.2	2.7	5.5	10.1	16.0	23.4	30.2	30.2	23.4	16.0	10.1	5.5	2.7	1.2	0.9			
30																			
20	2.1	5.1	15.3	29.6	93.0	285.9	623.9	946.0	946.0	623.9	285.9	93.0	29.6	15.3	5.1	2.1			
10																			
0	3.1	8.4	23.5	65.7	378.6	1316.8	3897.3	6240.8	6240.8	3897.3	1316.8	378.6	65.7	23.5	8.4	3.1			
-10																			
-20	3.6	9.6	27.6	67.6	323.9	1021.6	2571.9	4225.4	4225.4	2571.9	1021.6	323.9	67.6	27.6	9.6	3.6			
-30																			
-40	3.3	7.7	24.7	48.5	85.6	210.5	424.2	586.4	586.4	424.2	210.5	85.6	48.5	24.7	7.7	3.3			
-50																			
-60	2.8	4.5	11.6	25.2	43.5	58.7	70.9	79.6	79.6	70.9	58.7	43.5	25.2	11.6	4.5	2.8			
-70																			
-80	2.1	3.4	6.8	12.8	21.9	31.0	39.4	45.0	45.0	39.4	31.0	21.9	12.8	6.8	3.4	2.1			
-90																			

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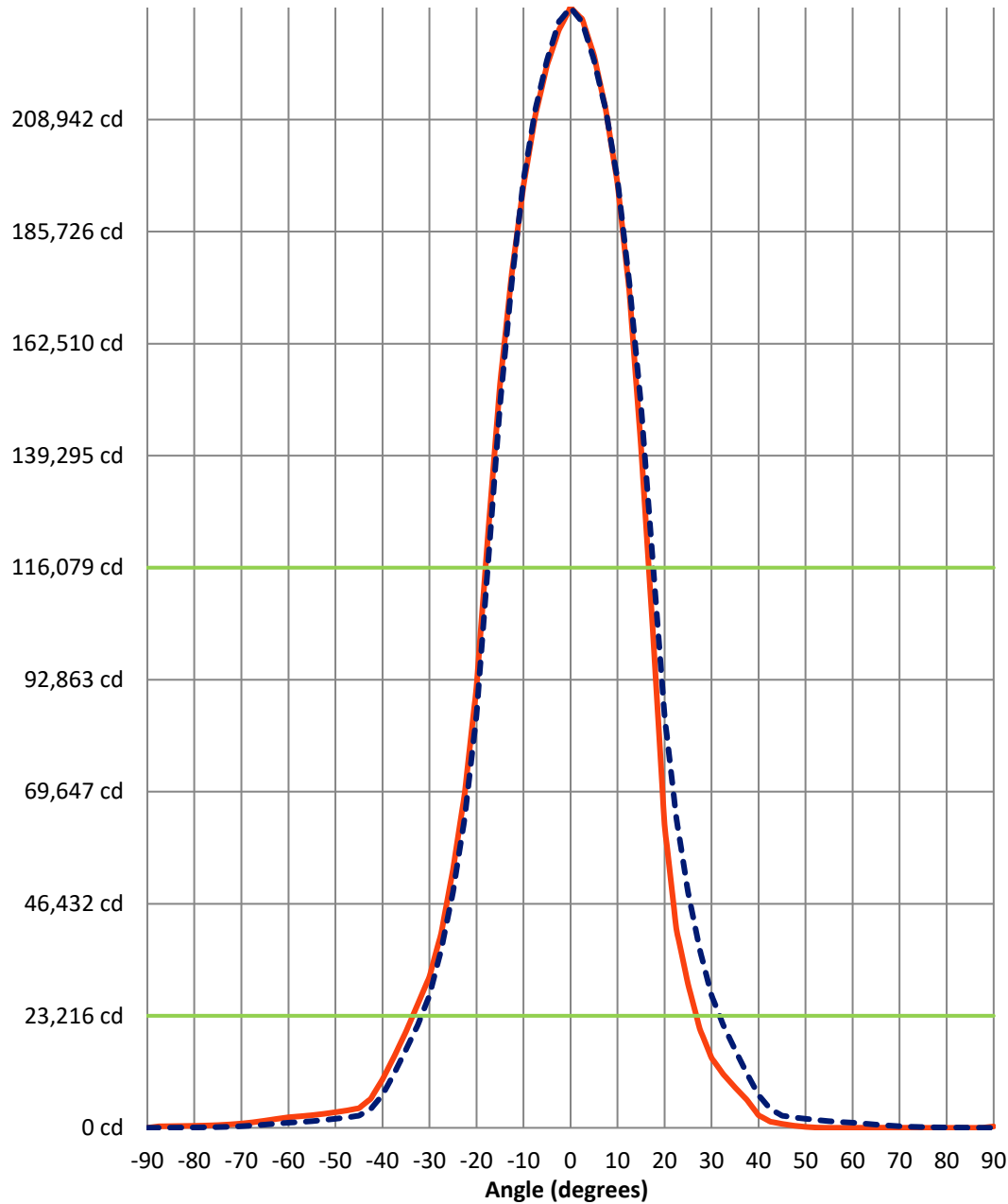
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 51689
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 84113.5
 Efficiency: 87.3%

Spill:
 Lumens: 12190.1
 Efficiency: 12.7%

- 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°	10.3	19.5	28.7	47.1	65.5	82.1	98.8	112.0	125.2	133.8	142.4
87.5°	10.3	9.4	8.2	8.3	8.4	8.4	8.3	7.8	7.3	7.3	7.4
85°	10.3	9.6	8.4	8.6	8.8	8.8	8.6	8.2	7.7	7.7	7.8
82.5°	10.3	9.8	8.6	8.9	9.2	9.1	9.0	8.5	8.1	8.3	8.3
80°	10.3	10.0	8.9	9.2	9.6	9.5	9.3	9.1	8.9	9.0	8.9
77.5°	10.3	10.2	9.1	9.5	10.0	10.0	9.9	9.8	9.7	9.7	9.3
75°	10.3	10.4	9.3	9.8	10.4	10.5	10.5	10.5	10.5	10.1	9.5
72.5°	10.3	10.6	9.6	10.1	10.8	11.0	11.2	11.2	11.0	10.5	9.7
70°	10.3	10.8	9.9	10.4	11.2	11.5	11.8	11.9	11.6	10.9	10.6
67.5°	10.3	11.1	10.2	10.8	11.7	12.0	12.6	12.5	12.2	11.9	11.6
65°	10.3	11.3	10.5	11.3	12.2	12.8	13.5	13.2	13.6	12.9	13.1
62.5°	10.3	11.5	10.9	11.8	12.7	13.8	14.4	14.7	15.2	14.4	15.6
60°	10.3	11.8	11.2	12.2	13.2	14.9	15.5	16.7	17.0	18.1	18.6
57.5°	10.3	12.0	11.8	12.7	14.4	16.1	17.7	18.9	21.1	22.6	25.1
55°	10.3	12.2	12.5	13.2	15.7	17.3	20.1	21.5	26.2	28.5	33.6
52.5°	10.3	12.5	13.2	13.7	17.0	18.8	22.6	26.5	31.6	38.5	42.9
50°	10.3	12.7	14.0	14.2	18.4	21.4	25.3	32.1	38.7	49.1	55.6
47.5°	10.3	13.0	14.8	14.9	19.9	24.1	28.4	37.9	49.3	60.5	70.0
45°	10.3	13.2	15.6	16.1	21.4	26.9	33.6	43.9	60.4	74.6	85.3
42.5°	10.3	13.5	16.5	17.2	23.0	29.9	38.9	52.4	72.1	89.4	110.0
40°	10.3	13.7	17.4	19.0	25.0	33.0	44.5	62.9	84.8	104.9	138.6
37.5°	10.3	14.0	18.3	21.0	27.4	36.1	50.4	73.5	99.6	125.0	169.5
35°	10.3	14.2	19.3	23.0	29.9	40.4	56.3	84.3	114.9	153.7	207.1
32.5°	10.3	14.5	20.3	25.1	32.3	45.1	63.1	95.2	130.9	183.0	249.9
30°	10.3	14.7	21.3	27.1	34.8	49.7	71.8	106.2	147.3	213.0	290.7
27.5°	10.3	14.9	22.3	29.2	38.1	54.2	80.4	118.3	165.3	243.3	329.4
25°	10.3	15.2	23.4	31.3	41.5	58.6	88.6	129.8	186.1	275.0	366.2
22.5°	10.3	15.4	24.5	33.4	44.8	63.3	96.6	140.8	205.6	299.5	403.8
20°	10.3	15.7	25.5	35.5	48.1	68.5	104.2	151.2	223.7	322.4	434.3
17.5°	10.3	15.9	26.6	37.5	51.2	73.6	112.2	160.9	240.3	343.7	462.7
15°	10.3	16.1	27.6	39.6	54.3	78.5	120.0	170.6	255.4	363.2	489.5
12.5°	10.3	16.3	28.7	41.5	57.2	83.3	127.4	180.5	270.7	380.8	514.3
10°	10.3	16.5	29.7	43.5	60.0	87.8	134.2	189.7	285.7	403.6	541.7
7.5°	10.3	16.7	30.6	45.3	62.8	92.1	140.6	198.3	299.4	426.1	576.7
5°	10.3	16.9	31.6	47.1	65.3	96.2	146.4	206.1	311.5	447.0	609.7
2.5°	10.3	17.0	32.5	48.9	67.8	99.9	151.6	213.2	322.0	465.9	640.1
0°	10.3	17.2	33.3	50.5	70.1	103.4	156.2	219.4	330.8	482.4	667.3
-2.5°	10.3	17.8	34.6	52.6	73.4	107.6	161.6	226.9	342.4	496.0	681.0
-5°	10.3	18.4	35.8	54.7	76.5	111.4	166.3	233.5	352.1	506.8	690.9
-7.5°	10.3	19.0	36.9	56.6	79.4	114.9	170.4	239.1	359.6	514.7	697.2
-10°	10.3	19.6	38.0	58.4	82.1	118.0	173.7	243.6	364.8	519.7	699.8
-12.5°	10.3	20.1	39.0	60.1	84.6	120.7	176.4	246.9	367.6	521.5	702.9
-15°	10.3	20.6	39.9	61.6	86.9	123.1	178.3	249.1	367.1	519.2	702.8
-17.5°	10.3	21.1	40.8	63.0	88.9	125.1	179.5	250.6	363.5	513.5	696.9
-20°	10.3	21.6	41.6	64.2	90.7	126.7	180.3	251.3	357.8	504.2	684.8



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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°	10.3	22.0	42.2	65.3	92.2	128.0	181.2	250.9	349.8	491.4	667.0
-25°	10.3	22.4	42.8	66.2	93.5	129.5	181.3	249.5	339.7	474.9	648.4
-27.5°	10.3	22.8	43.4	67.0	94.5	130.8	180.5	246.9	327.4	460.7	632.5
-30°	10.3	23.1	43.8	67.6	95.3	131.7	178.9	243.2	320.0	447.5	611.6
-32.5°	10.3	23.4	44.1	68.0	96.5	132.2	176.5	240.1	315.8	430.9	585.4
-35°	10.3	23.7	44.4	68.3	97.5	132.1	175.6	236.5	309.7	410.9	553.9
-37.5°	10.3	23.9	44.6	68.4	98.3	132.1	175.0	231.7	301.9	387.4	523.9
-40°	10.3	24.0	44.6	68.3	98.7	132.7	173.9	225.6	292.4	372.3	494.5
-42.5°	10.3	24.2	44.6	68.2	99.0	132.9	172.1	218.2	283.1	359.8	461.6
-45°	10.3	24.3	44.5	68.4	99.2	132.8	169.5	212.0	273.1	345.1	428.2
-47.5°	10.3	24.3	44.3	68.3	99.1	132.3	166.3	208.3	261.6	328.1	408.7
-50°	10.3	24.3	44.1	68.3	98.8	131.5	164.6	203.9	248.5	312.8	386.5
-52.5°	10.3	24.3	43.7	68.2	98.1	130.3	162.9	198.8	239.8	295.7	360.9
-55°	10.3	24.2	43.2	67.9	97.1	128.7	160.7	193.5	232.7	276.7	336.4
-57.5°	10.3	24.1	42.7	67.4	95.9	126.8	158.1	190.3	224.6	264.7	310.1
-60°	10.3	23.9	42.1	66.8	94.3	124.5	155.2	186.4	216.4	254.0	286.7
-62.5°	10.3	23.8	41.4	65.9	93.1	121.8	151.7	181.8	210.6	241.7	271.8
-65°	10.3	23.5	40.7	64.9	91.5	118.8	147.8	176.6	204.2	231.7	256.3
-67.5°	10.3	23.3	39.9	63.7	89.7	115.7	143.5	170.8	197.2	222.3	244.1
-70°	10.3	23.0	38.9	62.4	87.7	112.6	138.8	164.6	189.8	212.5	233.1
-72.5°	10.3	22.6	37.9	60.9	85.5	109.2	134.0	158.0	182.0	202.6	221.6
-75°	10.3	22.3	36.8	59.4	83.0	105.5	128.9	151.2	173.8	192.3	209.8
-77.5°	10.3	21.9	35.6	57.6	80.5	101.5	123.4	144.1	165.1	181.8	197.5
-80°	10.3	21.4	34.3	55.8	77.8	97.7	117.6	136.7	156.1	171.0	185.3
-82.5°	10.3	21.0	33.0	53.8	75.0	94.1	113.1	129.8	146.8	160.0	172.9
-85°	10.3	20.5	31.6	51.7	72.0	90.3	108.5	124.1	139.7	150.6	161.5
-87.5°	10.3	20.0	30.2	49.4	68.8	86.3	103.8	118.1	132.6	142.3	152.0
-90°	10.3	9.2	8.0	8.0	8.0	8.0	8.0	7.5	6.9	6.9	6.9



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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°	148.7	155.0	160.8	166.5	173.4	180.3	187.2	194.1	201.6	209.0	216.5
87.5°	6.8	6.3	6.3	6.4	5.9	5.3	5.0	4.6	4.6	4.6	4.5
85°	7.4	6.9	6.9	6.9	6.4	6.1	5.6	5.1	5.1	5.2	4.9
82.5°	7.9	7.5	7.3	6.9	6.8	6.8	6.4	5.9	5.8	5.7	5.4
80°	8.5	8.1	7.6	7.3	7.2	7.0	6.7	6.7	6.4	5.9	5.8
77.5°	8.7	8.1	7.9	7.9	7.6	7.0	6.9	6.9	6.8	6.7	6.4
75°	8.8	8.2	8.2	8.1	7.7	7.1	6.9	7.1	7.2	7.0	6.8
72.5°	9.2	8.9	8.6	8.3	8.0	7.7	7.7	7.9	8.6	9.2	9.7
70°	10.3	9.8	9.5	9.2	8.8	8.8	9.7	11.6	13.5	14.3	16.2
67.5°	11.3	11.0	10.7	10.4	10.5	11.4	12.7	16.9	20.6	23.2	25.9
65°	12.5	12.3	12.3	12.5	12.6	16.1	19.9	24.1	30.6	34.2	34.3
62.5°	14.0	15.8	15.0	16.0	19.3	23.0	28.8	36.4	44.5	47.8	45.7
60°	19.9	20.8	21.2	23.8	27.0	31.0	39.0	48.1	57.6	63.3	54.8
57.5°	27.4	28.5	30.7	32.2	35.8	38.2	47.6	58.7	64.9	68.6	58.9
55°	36.7	38.5	41.7	42.4	45.4	46.4	54.3	62.0	67.2	68.3	57.9
52.5°	48.7	50.7	55.3	56.0	56.2	57.1	58.2	66.7	70.8	69.6	60.1
50°	61.5	68.6	71.1	73.7	70.3	71.7	67.9	77.7	85.9	83.7	86.5
47.5°	80.4	89.4	93.0	97.7	95.3	103.1	100.2	118.8	125.3	162.4	170.7
45°	103.2	119.0	123.8	134.8	145.9	155.0	185.0	187.4	265.7	298.4	360.0
42.5°	130.6	155.3	175.4	179.5	232.8	261.1	302.8	371.1	439.8	502.7	544.6
40°	171.3	196.9	239.8	289.9	346.5	407.6	463.0	542.4	608.9	658.4	688.0
37.5°	217.6	266.2	324.7	415.1	491.6	553.9	616.9	685.4	748.1	791.6	848.2
35°	268.4	339.2	447.8	541.7	623.9	682.5	744.0	816.7	875.9	946.1	1016.0
32.5°	330.1	413.8	549.8	651.3	718.1	787.5	858.5	935.0	1019.8	1106.2	1195.7
30°	391.1	497.7	630.7	736.2	800.8	881.7	967.9	1057.7	1168.8	1277.7	1398.6
27.5°	439.1	569.8	696.3	805.3	880.5	976.3	1081.6	1198.7	1330.7	1463.9	1624.6
25°	481.9	623.4	762.4	877.9	973.5	1079.7	1203.3	1343.9	1501.1	1688.3	2193.6
22.5°	523.7	675.6	835.4	955.8	1063.2	1183.1	1332.3	1496.4	1681.3	1930.1	2823.9
20°	566.7	734.7	905.3	1020.5	1145.1	1279.5	1454.3	1644.6	1873.8	2461.7	3780.0
17.5°	610.8	795.8	964.8	1077.3	1208.5	1372.5	1575.7	1790.4	2069.8	2959.5	4977.5
15°	653.8	853.3	1012.5	1127.5	1272.2	1463.0	1690.0	1953.1	2416.7	3654.2	6177.2
12.5°	695.0	904.9	1047.9	1170.7	1335.1	1548.4	1796.0	2091.3	2824.3	4591.7	7485.9
10°	733.6	950.6	1078.6	1212.0	1396.5	1628.6	1891.0	2212.9	3180.2	5340.9	8522.0
7.5°	775.5	989.9	1106.5	1251.1	1453.1	1701.9	1969.2	2306.6	3445.4	5915.4	9291.6
5°	813.6	1021.7	1138.7	1297.0	1509.4	1768.1	2036.3	2385.0	3626.4	6279.5	9825.6
2.5°	846.8	1047.2	1168.7	1340.5	1562.3	1826.1	2096.9	2463.5	3787.8	6587.3	10501.4
0°	875.2	1067.0	1195.6	1379.4	1607.9	1874.4	2146.6	2526.7	3895.7	6794.6	11285.2
-2.5°	892.5	1096.6	1240.5	1420.1	1645.6	1908.6	2191.5	2594.3	4005.1	7242.6	11583.8
-5°	904.9	1120.5	1280.6	1455.8	1676.1	1933.6	2224.3	2642.1	4052.1	7365.9	11496.8
-7.5°	912.2	1137.9	1315.1	1487.0	1703.4	1962.7	2276.1	2706.1	4073.5	7062.1	11004.1
-10°	916.0	1152.5	1337.7	1512.8	1728.6	1989.4	2316.5	2747.4	3986.0	6652.2	10437.3
-12.5°	925.8	1164.9	1355.6	1531.9	1745.4	2008.5	2347.9	2778.5	3786.6	6089.1	9658.2
-15°	928.4	1171.3	1370.6	1545.0	1763.0	2036.7	2371.7	2783.8	3498.8	5361.3	8663.5
-17.5°	923.2	1171.6	1381.1	1555.3	1771.7	2047.5	2379.3	2768.6	3283.8	4832.5	7662.7
-20°	909.7	1157.9	1384.2	1556.2	1768.4	2051.9	2383.1	2762.0	3231.3	4291.8	6449.0



REPORT NUMBER: P735968 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	887.9	1136.2	1373.0	1554.6	1779.9	2053.8	2372.1	2721.1	3117.5	3639.7	5240.8
-25°	864.5	1105.5	1343.9	1560.1	1782.1	2044.2	2325.7	2646.1	3012.2	3420.5	4378.8
-27.5°	839.3	1069.6	1314.1	1553.2	1771.3	2008.4	2269.8	2570.2	2871.6	3201.4	3609.6
-30°	808.7	1030.6	1274.1	1528.0	1745.6	1967.1	2208.1	2451.0	2721.1	3018.0	3363.7
-32.5°	772.0	984.8	1224.5	1475.4	1711.6	1919.1	2120.7	2338.8	2579.9	2841.7	3127.6
-35°	732.2	938.3	1166.3	1411.2	1670.0	1860.7	2035.8	2224.4	2438.0	2677.2	2942.8
-37.5°	691.8	884.6	1098.0	1336.9	1588.5	1788.1	1945.9	2121.9	2309.9	2514.8	2761.7
-40°	646.0	822.9	1026.9	1252.6	1475.7	1691.4	1864.8	2024.4	2189.6	2377.0	2578.8
-42.5°	596.6	762.8	949.0	1153.6	1356.2	1561.8	1779.0	1935.8	2083.7	2242.8	2419.6
-45°	555.4	696.4	864.8	1046.8	1229.4	1428.5	1638.1	1847.7	1982.7	2120.4	2271.1
-47.5°	507.6	629.1	783.0	934.7	1103.2	1291.0	1489.4	1683.9	1875.5	2009.5	2136.3
-50°	462.0	572.0	689.7	829.2	979.3	1152.7	1334.5	1512.3	1692.0	1873.4	2018.0
-52.5°	430.7	510.9	613.0	723.2	862.1	1015.3	1174.7	1333.1	1501.8	1675.0	1841.7
-55°	396.8	465.6	538.3	632.0	746.3	882.8	1015.4	1157.3	1302.2	1461.9	1624.3
-57.5°	364.6	421.6	478.7	549.8	646.0	750.3	866.5	983.1	1114.5	1248.2	1387.2
-60°	332.7	379.4	427.9	484.7	550.9	638.8	723.0	824.5	933.7	1043.7	1167.3
-62.5°	302.2	340.3	380.6	428.5	483.9	535.8	605.4	684.1	762.8	860.2	960.3
-65°	284.2	305.4	337.1	378.7	421.8	467.7	512.9	561.1	629.6	702.2	773.4
-67.5°	265.1	284.6	304.4	330.1	367.8	403.7	440.0	482.4	526.1	573.2	625.0
-70°	250.8	264.4	282.0	302.1	321.8	343.6	375.9	409.6	443.2	479.9	520.5
-72.5°	237.3	250.0	263.1	277.3	294.6	311.1	328.1	346.4	372.9	405.1	435.2
-75°	223.6	235.3	247.3	259.8	272.8	285.3	298.7	315.1	333.3	353.1	371.5
-77.5°	209.7	220.6	231.6	242.3	254.1	266.3	277.8	289.5	303.8	319.0	333.5
-80°	196.0	205.7	215.9	225.8	236.2	246.7	256.9	266.7	279.1	292.2	305.1
-82.5°	182.6	191.8	200.5	209.3	218.2	227.0	236.1	245.4	256.7	268.2	279.2
-85°	169.7	177.7	185.1	192.5	200.8	208.9	216.7	224.6	234.9	245.2	254.7
-87.5°	159.3	166.4	172.8	179.0	186.3	193.5	200.3	207.0	215.9	224.8	232.8
-90°	6.3	5.7	5.7	5.7	5.2	4.6	4.6	4.6	4.6	4.6	4.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	224.0	229.2	234.3	237.8	241.2	246.4	251.5	259.0	266.5	272.8	279.1
87.5°	4.4	3.9	3.4	3.3	3.3	3.3	3.3	2.8	2.3	2.3	2.3
85°	4.6	4.4	4.3	4.3	4.4	3.9	3.4	3.4	3.3	3.3	3.4
82.5°	5.1	4.9	4.6	4.6	4.6	4.5	4.4	3.9	3.4	3.4	3.4
80°	5.7	5.4	5.2	4.9	4.6	4.6	4.6	4.1	3.5	3.4	3.4
77.5°	5.9	5.9	5.7	5.3	4.7	4.6	4.6	4.1	3.5	3.4	3.4
75°	6.8	6.7	6.6	6.4	6.2	6.4	6.7	6.6	6.3	6.0	5.6
72.5°	10.3	10.4	10.2	10.7	11.3	11.8	12.1	12.5	13.0	13.8	14.9
70°	18.3	19.7	19.7	19.7	19.7	19.1	18.5	18.3	18.4	18.7	19.1
67.5°	27.6	28.7	29.2	29.5	26.9	25.2	24.5	24.6	25.6	27.7	30.7
65°	35.2	33.1	31.2	29.1	29.3	29.3	27.9	27.3	28.2	29.4	30.8
62.5°	41.8	33.3	27.8	25.0	25.5	26.4	23.8	21.9	21.3	20.9	21.0
60°	44.9	31.3	22.1	18.7	16.8	15.8	14.1	12.0	11.4	11.2	11.5
57.5°	45.4	29.8	17.6	13.9	10.6	8.2	6.9	6.0	6.0	5.8	5.7
55°	44.0	30.2	17.1	15.6	14.3	13.1	11.4	11.1	10.5	10.4	11.0
52.5°	45.6	42.3	34.6	33.5	40.9	41.1	35.4	43.6	49.1	53.4	55.4
50°	90.1	86.6	109.4	109.4	132.4	152.2	146.5	158.0	178.0	195.4	206.0
47.5°	210.6	227.1	261.3	292.0	326.7	370.5	389.9	403.7	421.1	444.6	460.2
45°	392.3	433.3	477.7	527.4	585.4	636.7	666.6	695.4	714.4	735.2	759.8
42.5°	582.4	631.4	697.3	756.7	819.5	879.4	926.6	968.3	1049.4	1165.2	1257.2
40°	745.3	800.9	877.4	956.7	1030.6	1106.4	1314.9	1492.7	1714.1	2044.9	2337.8
37.5°	906.9	971.3	1056.7	1153.7	1376.8	1602.7	2058.2	2550.2	2976.5	3454.6	3937.4
35°	1083.1	1167.6	1281.8	1608.5	2021.4	2623.5	3276.7	4007.5	4627.7	5295.3	6273.3
32.5°	1291.1	1438.8	1807.9	2401.7	3142.2	3997.4	4807.7	5726.3	6501.1	7727.5	9221.1
30°	1559.3	2022.4	2731.1	3550.9	4550.1	5632.6	6648.5	8136.4	9874.7	11413.5	12684.1
27.5°	2206.0	3100.7	4090.1	5129.1	6380.3	7692.1	9822.1	11747.9	13618.1	15279.7	17209.9
25°	3171.8	4607.0	6298.0	7690.9	9391.2	11761.9	14170.5	16291.3	19133.8	21633.8	24438.3
22.5°	4537.9	6581.5	8759.6	10793.2	13404.4	16373.6	19614.1	23521.8	27470.5	31856.7	35758.8
20°	5871.2	8456.8	11215.1	14142.6	17486.7	21199.1	26496.3	32838.1	38922.8	45833.2	51660.1
17.5°	7646.7	10772.4	14034.6	17755.9	22055.3	27766.8	35585.4	44257.0	53666.2	63985.0	73527.3
15°	9452.2	12819.6	16610.2	21372.9	27454.2	35216.7	45191.4	56996.1	70756.4	85925.6	104367.3
12.5°	10932.0	14614.2	19046.6	25048.6	33002.4	43383.5	55468.6	69678.8	88543.6	111422.8	132848.6
10°	12196.3	16611.5	22212.4	29315.9	38671.4	50390.6	64119.3	81712.5	107124.4	133629.1	157141.9
7.5°	13498.5	18721.8	24653.5	32355.3	42992.6	56295.0	73200.4	96174.7	124134.4	151319.5	172881.8
5°	14726.9	20160.9	26193.7	34422.3	45925.7	60212.5	79393.6	107376.4	137802.5	164428.5	184686.2
2.5°	15689.0	20884.7	27004.8	35961.7	47511.2	62341.5	83275.8	114303.1	146220.3	172461.4	193234.1
0°	16188.2	21277.2	27455.0	36924.4	48826.4	64295.6	85501.6	117359.9	149644.4	175198.6	196371.3
-2.5°	16077.7	21087.7	27176.3	36181.5	48525.8	64649.1	87352.3	118952.9	150234.2	176132.3	196086.3
-5°	15845.4	20789.3	26793.8	35268.5	47449.6	63760.4	85342.7	114395.5	144606.2	171171.7	190570.3
-7.5°	15412.4	20289.5	26030.8	33933.0	45665.9	61111.5	80587.6	105833.3	134815.4	161432.1	180211.5
-10°	14775.5	19517.5	24935.9	32122.8	42659.9	56846.4	73404.4	93119.6	120231.1	145116.3	165982.7
-12.5°	13870.2	18425.3	23416.9	29592.7	39029.1	51531.3	65805.9	82186.9	101563.7	125563.7	145122.7
-15°	12718.2	17002.2	21640.4	27467.5	35357.8	45601.6	57636.9	70344.6	85196.4	101763.2	120827.9
-17.5°	11304.4	15328.5	19647.8	24671.4	31052.6	39647.2	49167.6	59083.3	69803.6	81995.1	93195.7
-20°	9618.5	13299.4	17369.8	22042.4	27510.3	33718.2	40638.9	48655.0	56964.5	65665.9	73364.6



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7906.6	11264.4	15143.2	19228.9	23981.3	28719.9	33368.3	39328.5	45745.5	52044.9	57775.3
-25°	6186.5	9150.7	12757.1	16589.3	20403.7	24274.3	28048.5	31749.6	36367.2	40421.9	44627.8
-27.5°	4913.8	7131.3	10159.6	13503.8	16827.6	20057.3	23320.4	26411.9	29324.0	31772.7	34608.3
-30°	3864.4	5361.2	7700.6	10332.2	13240.5	16086.2	18898.1	21509.6	23802.8	25819.0	27788.1
-32.5°	3493.9	4105.1	5495.4	7495.1	9789.6	12286.1	14636.5	16879.6	18770.2	20643.9	22408.2
-35°	3232.1	3568.6	4023.0	5272.3	6766.5	8753.3	10595.7	12457.3	14045.0	15916.4	17363.2
-37.5°	3017.4	3276.6	3563.9	3858.6	4767.2	5762.0	7088.5	8483.9	9710.5	11280.3	12557.7
-40°	2809.6	3039.0	3263.6	3487.7	3729.3	3951.3	4740.9	5460.4	6292.5	7366.3	8285.1
-42.5°	2608.7	2810.8	3005.2	3187.3	3356.1	3501.9	3660.8	3813.1	4262.4	4809.7	5230.0
-45°	2428.3	2600.2	2762.9	2916.9	3045.5	3162.2	3284.6	3412.1	3579.1	3730.9	3856.3
-47.5°	2275.0	2410.9	2544.3	2669.6	2768.4	2868.0	2965.5	3075.4	3205.6	3333.0	3439.6
-50°	2136.3	2253.9	2355.1	2444.0	2526.1	2610.3	2688.0	2785.6	2890.3	2995.8	3084.0
-52.5°	2003.5	2108.1	2192.6	2260.3	2322.8	2391.6	2458.3	2536.3	2621.3	2710.0	2780.1
-55°	1780.2	1913.1	2036.0	2099.5	2148.6	2205.2	2261.8	2324.9	2396.7	2471.2	2526.8
-57.5°	1533.6	1664.7	1780.5	1862.8	1944.2	2027.4	2089.6	2139.0	2203.9	2267.5	2315.5
-60°	1285.8	1395.7	1497.9	1581.3	1666.2	1749.4	1819.4	1883.8	1964.1	2037.1	2096.4
-62.5°	1055.2	1151.3	1230.2	1297.6	1370.0	1442.4	1509.1	1572.6	1645.5	1711.0	1766.6
-65°	845.5	926.2	984.6	1037.6	1095.1	1155.0	1207.9	1260.5	1319.1	1371.5	1417.2
-67.5°	683.7	737.2	773.6	807.3	853.0	899.5	940.9	982.9	1027.6	1067.4	1101.9
-70°	559.7	593.1	615.5	641.4	673.9	703.7	730.9	761.5	794.5	824.9	852.5
-72.5°	464.0	486.9	503.7	524.4	545.0	563.9	581.1	603.1	627.1	650.6	673.0
-75°	388.7	403.6	419.6	434.5	448.7	462.4	475.1	492.8	511.3	528.9	545.8
-77.5°	348.7	359.8	368.8	377.1	384.8	393.7	402.5	417.4	433.6	447.2	460.0
-80°	317.7	326.4	333.8	340.2	346.0	353.3	360.6	372.7	385.4	396.9	408.1
-82.5°	290.0	297.4	304.3	310.1	315.7	321.9	328.1	338.8	349.7	359.5	369.1
-85°	264.0	270.5	276.6	281.8	286.9	292.7	298.4	307.7	317.0	325.7	334.3
-87.5°	240.8	246.5	252.2	256.1	259.9	265.4	270.9	279.2	287.5	295.2	302.8
-90°	3.4	3.4	3.4	2.9	2.3	2.3	2.3	2.3	2.3	1.7	1.1



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	282.6	286.0	286.6	287.1	286.6	286.0	282.6	279.1	272.8	266.5	259.0
87.5°	1.7	1.1	1.7	2.3	1.7	1.1	1.7	2.3	2.3	2.3	2.8
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.9
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	4.1
77.5°	2.9	2.3	2.8	3.4	2.8	2.3	2.9	3.4	3.4	3.5	4.1
75°	5.1	4.6	4.0	3.4	4.0	4.6	5.1	5.6	6.0	6.3	6.6
72.5°	15.4	15.8	16.5	17.2	16.5	15.8	15.4	14.9	13.8	13.0	12.5
70°	18.4	17.3	17.2	17.2	17.2	17.3	18.4	19.1	18.7	18.4	18.3
67.5°	32.9	34.8	35.4	35.6	35.4	34.8	32.9	30.7	27.7	25.6	24.6
65°	32.0	33.2	33.3	33.3	33.3	33.2	32.0	30.8	29.4	28.2	27.3
62.5°	21.4	22.0	22.4	23.0	22.4	22.0	21.4	21.0	20.9	21.3	21.9
60°	12.0	12.7	13.2	13.8	13.2	12.7	12.0	11.5	11.2	11.4	12.0
57.5°	5.6	5.9	6.3	6.9	6.3	5.9	5.6	5.7	5.8	6.0	6.0
55°	11.5	12.2	12.5	12.6	12.5	12.2	11.5	11.0	10.4	10.5	11.1
52.5°	54.5	51.9	49.8	48.2	49.8	51.9	54.5	55.4	53.4	49.1	43.6
50°	210.5	205.3	199.5	194.1	199.5	205.3	210.5	206.0	195.4	178.0	158.0
47.5°	469.6	465.4	456.8	445.6	456.8	465.4	469.6	460.2	444.6	421.1	403.7
45°	793.6	816.6	826.9	821.2	826.9	816.6	793.6	759.8	735.2	714.4	695.4
42.5°	1288.6	1308.9	1310.7	1280.6	1310.7	1308.9	1288.6	1257.2	1165.2	1049.4	968.3
40°	2549.8	2726.5	2787.1	2604.8	2787.1	2726.5	2549.8	2337.8	2044.9	1714.1	1492.7
37.5°	4519.2	5213.5	5792.6	5814.9	5792.6	5213.5	4519.2	3937.4	3454.6	2976.5	2550.2
35°	7324.2	8038.5	8383.8	8369.2	8383.8	8038.5	7324.2	6273.3	5295.3	4627.7	4007.5
32.5°	10294.3	10835.5	11181.2	11098.0	11181.2	10835.5	10294.3	9221.1	7727.5	6501.1	5726.3
30°	13591.7	14093.7	14496.8	14490.7	14496.8	14093.7	13591.7	12684.1	11413.5	9874.7	8136.4
27.5°	18781.1	19815.7	20637.9	20498.5	20637.9	19815.7	18781.1	17209.9	15279.7	13618.1	11747.9
25°	26803.9	28696.3	30034.2	29758.9	30034.2	28696.3	26803.9	24438.3	21633.8	19133.8	16291.3
22.5°	38655.7	41083.3	42098.3	41293.3	42098.3	41083.3	38655.7	35758.8	31856.7	27470.5	23521.8
20°	57211.3	61712.0	64510.1	62841.6	64510.1	61712.0	57211.3	51660.1	45833.2	38922.8	32838.1
17.5°	85877.7	95641.6	103356.4	103143.7	103356.4	95641.6	85877.7	73527.3	63985.0	53666.2	44257.0
15°	120423.4	131536.8	140094.0	141083.4	140094.0	131536.8	120423.4	104367.3	85925.6	70756.4	56996.1
12.5°	151355.6	162657.8	171031.9	173441.5	171031.9	162657.8	151355.6	132848.6	111422.8	88543.6	69678.8
10°	173400.8	184679.7	192785.0	195643.2	192785.0	184679.7	173400.8	157141.9	133629.1	107124.4	81712.5
7.5°	189572.9	201809.5	207885.2	210990.7	207885.2	201809.5	189572.9	172881.8	151319.5	124134.4	96174.7
5°	201209.8	212582.3	218459.9	222223.0	218459.9	212582.3	201209.8	184686.2	164428.5	137802.5	107376.4
2.5°	208545.5	219282.0	226340.5	229715.9	226340.5	219282.0	208545.5	193234.1	172461.4	146220.3	114303.1
0°	210913.1	221220.3	229131.8	232157.6	229131.8	221220.3	210913.1	196371.3	175198.6	149644.4	117359.9
-2.5°	209811.9	219908.7	226218.6	227441.8	226218.6	219908.7	209811.9	196086.3	176132.3	150234.2	118952.9
-5°	204080.7	213386.6	219213.2	220170.6	219213.2	213386.6	204080.7	190570.3	171171.7	144606.2	114395.5
-7.5°	194200.4	203483.4	208299.5	209717.5	208299.5	203483.4	194200.4	180211.5	161432.1	134815.4	105833.3
-10°	179874.8	188843.3	193990.5	195211.3	193990.5	188843.3	179874.8	165982.7	145116.3	120231.1	93119.6
-12.5°	160327.3	169894.8	175655.7	176924.8	175655.7	169894.8	160327.3	145122.7	125563.7	101563.7	82186.9
-15°	134980.0	144821.4	152175.6	153954.7	152175.6	144821.4	134980.0	120827.9	101763.2	85196.4	70344.6
-17.5°	105762.0	115610.3	122218.7	123480.3	122218.7	115610.3	105762.0	93195.7	81995.1	69803.6	59083.3
-20°	80597.6	86931.4	90661.2	91310.7	90661.2	86931.4	80597.6	73364.6	65665.9	56964.5	48655.0



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	62458.3	66715.3	68986.0	69306.5	68986.0	66715.3	62458.3	57775.3	52044.9	45745.5	39328.5
-25°	48399.2	51492.2	53183.6	53465.2	53183.6	51492.2	48399.2	44627.8	40421.9	36367.2	31749.6
-27.5°	37162.3	39083.7	40657.4	40329.7	40657.4	39083.7	37162.3	34608.3	31772.7	29324.0	26411.9
-30°	29406.0	30638.3	31567.8	31324.3	31567.8	30638.3	29406.0	27788.1	25819.0	23802.8	21509.6
-32.5°	23800.2	24765.7	25419.1	25593.3	25419.1	24765.7	23800.2	22408.2	20643.9	18770.2	16879.6
-35°	18498.7	19287.6	19740.4	19916.2	19740.4	19287.6	18498.7	17363.2	15916.4	14045.0	12457.3
-37.5°	13505.9	14197.9	14630.0	14780.1	14630.0	14197.9	13505.9	12557.7	11280.3	9710.5	8483.9
-40°	8988.5	9521.8	9875.7	10012.7	9875.7	9521.8	8988.5	8285.1	7366.3	6292.5	5460.4
-42.5°	5557.5	5807.1	5965.2	6014.7	5965.2	5807.1	5557.5	5230.0	4809.7	4262.4	3813.1
-45°	3953.2	4022.1	4061.6	4069.2	4061.6	4022.1	3953.2	3856.3	3730.9	3579.1	3412.1
-47.5°	3522.9	3577.3	3605.1	3606.3	3605.1	3577.3	3522.9	3439.6	3333.0	3205.6	3075.4
-50°	3156.8	3207.1	3232.5	3234.2	3232.5	3207.1	3156.8	3084.0	2995.8	2890.3	2785.6
-52.5°	2837.5	2877.6	2896.1	2896.5	2896.1	2877.6	2837.5	2780.1	2710.0	2621.3	2536.3
-55°	2572.4	2603.5	2615.1	2612.8	2615.1	2603.5	2572.4	2526.8	2471.2	2396.7	2324.9
-57.5°	2355.5	2386.0	2395.6	2392.3	2395.6	2386.0	2355.5	2315.5	2267.5	2203.9	2139.0
-60°	2142.7	2175.4	2187.7	2186.8	2187.7	2175.4	2142.7	2096.4	2037.1	1964.1	1883.8
-62.5°	1806.4	1831.5	1844.9	1849.1	1844.9	1831.5	1806.4	1766.6	1711.0	1645.5	1572.6
-65°	1448.5	1468.5	1479.3	1482.7	1479.3	1468.5	1448.5	1417.2	1371.5	1319.1	1260.5
-67.5°	1124.3	1138.7	1145.6	1147.4	1145.6	1138.7	1124.3	1101.9	1067.4	1027.6	982.9
-70°	869.6	881.3	886.8	888.9	886.8	881.3	869.6	852.5	824.9	794.5	761.5
-72.5°	685.8	695.2	699.0	700.6	699.0	695.2	685.8	673.0	650.6	627.1	603.1
-75°	553.8	559.4	561.7	562.8	561.7	559.4	553.8	545.8	528.9	511.3	492.8
-77.5°	467.0	473.0	475.2	476.6	475.2	473.0	467.0	460.0	447.2	433.6	417.4
-80°	413.2	417.4	419.1	420.4	419.1	417.4	413.2	408.1	396.9	385.4	372.7
-82.5°	375.1	380.8	381.2	381.3	381.2	380.8	375.1	369.1	359.5	349.7	338.8
-85°	338.8	343.1	343.9	344.6	343.9	343.1	338.8	334.3	325.7	317.0	307.7
-87.5°	307.0	311.1	311.2	311.2	311.2	311.1	307.0	302.8	295.2	287.5	279.2
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	251.5	246.4	241.2	237.8	234.3	229.2	224.0	216.5	209.0	201.6	194.1
87.5°	3.3	3.3	3.3	3.3	3.4	3.9	4.4	4.5	4.6	4.6	4.6
85°	3.4	3.9	4.4	4.3	4.3	4.4	4.6	4.9	5.2	5.1	5.1
82.5°	4.4	4.5	4.6	4.6	4.6	4.9	5.1	5.4	5.7	5.8	5.9
80°	4.6	4.6	4.6	4.9	5.2	5.4	5.7	5.8	5.9	6.4	6.7
77.5°	4.6	4.6	4.7	5.3	5.7	5.9	5.9	6.4	6.7	6.8	6.9
75°	6.7	6.4	6.2	6.4	6.6	6.7	6.8	6.8	7.0	7.2	7.1
72.5°	12.1	11.8	11.3	10.7	10.2	10.4	10.3	9.7	9.2	8.6	7.9
70°	18.5	19.1	19.7	19.7	19.7	19.7	18.3	16.2	14.3	13.5	11.6
67.5°	24.5	25.2	26.9	29.5	29.2	28.7	27.6	25.9	23.2	20.6	16.9
65°	27.9	29.3	29.3	29.1	31.2	33.1	35.2	34.3	34.2	30.6	24.1
62.5°	23.8	26.4	25.5	25.0	27.8	33.3	41.8	45.7	47.8	44.5	36.4
60°	14.1	15.8	16.8	18.7	22.1	31.3	44.9	54.8	63.3	57.6	48.1
57.5°	6.9	8.2	10.6	13.9	17.6	29.8	45.4	58.9	68.6	64.9	58.7
55°	11.4	13.1	14.3	15.6	17.1	30.2	44.0	57.9	68.3	67.2	62.0
52.5°	35.4	41.1	40.9	33.5	34.6	42.3	45.6	60.1	69.6	70.8	66.7
50°	146.5	152.2	132.4	109.4	109.4	86.6	90.1	86.5	83.7	85.9	77.7
47.5°	389.9	370.5	326.7	292.0	261.3	227.1	210.6	170.7	162.4	125.3	118.8
45°	666.6	636.7	585.4	527.4	477.7	433.3	392.3	360.0	298.4	265.7	187.4
42.5°	926.6	879.4	819.5	756.7	697.3	631.4	582.4	544.6	502.7	439.8	371.1
40°	1314.9	1106.4	1030.6	956.7	877.4	800.9	745.3	688.0	658.4	608.9	542.4
37.5°	2058.2	1602.7	1376.8	1153.7	1056.7	971.3	906.9	848.2	791.6	748.1	685.4
35°	3276.7	2623.5	2021.4	1608.5	1281.8	1167.6	1083.1	1016.0	946.1	875.9	816.7
32.5°	4807.7	3997.4	3142.2	2401.7	1807.9	1438.8	1291.1	1195.7	1106.2	1019.8	935.0
30°	6648.5	5632.6	4550.1	3550.9	2731.1	2022.4	1559.3	1398.6	1277.7	1168.8	1057.7
27.5°	9822.1	7692.1	6380.3	5129.1	4090.1	3100.7	2206.0	1624.6	1463.9	1330.7	1198.7
25°	14170.5	11761.9	9391.2	7690.9	6298.0	4607.0	3171.8	2193.6	1688.3	1501.1	1343.9
22.5°	19614.1	16373.6	13404.4	10793.2	8759.6	6581.5	4537.9	2823.9	1930.1	1681.3	1496.4
20°	26496.3	21199.1	17486.7	14142.6	11215.1	8456.8	5871.2	3780.0	2461.7	1873.8	1644.6
17.5°	35585.4	27766.8	22055.3	17755.9	14034.6	10772.4	7646.7	4977.5	2959.5	2069.8	1790.4
15°	45191.4	35216.7	27454.2	21372.9	16610.2	12819.6	9452.2	6177.2	3654.2	2416.7	1953.1
12.5°	55468.6	43383.5	33002.4	25048.6	19046.6	14614.2	10932.0	7485.9	4591.7	2824.3	2091.3
10°	64119.3	50390.6	38671.4	29315.9	22212.4	16611.5	12196.3	8522.0	5340.9	3180.2	2212.9
7.5°	73200.4	56295.0	42992.6	32355.3	24653.5	18721.8	13498.5	9291.6	5915.4	3445.4	2306.6
5°	79393.6	60212.5	45925.7	34422.3	26193.7	20160.9	14726.9	9825.6	6279.5	3626.4	2385.0
2.5°	83275.8	62341.5	47511.2	35961.7	27004.8	20884.7	15689.0	10501.4	6587.3	3787.8	2463.5
0°	85501.6	64295.6	48826.4	36924.4	27455.0	21277.2	16188.2	11285.2	6794.6	3895.7	2526.7
-2.5°	87352.3	64649.1	48525.8	36181.5	27176.3	21087.7	16077.7	11583.8	7242.6	4005.1	2594.3
-5°	85342.7	63760.4	47449.6	35268.5	26793.8	20789.3	15845.4	11496.8	7365.9	4052.1	2642.1
-7.5°	80587.6	61111.5	45665.9	33933.0	26030.8	20289.5	15412.4	11004.1	7062.1	4073.5	2706.1
-10°	73404.4	56846.4	42659.9	32122.8	24935.9	19517.5	14775.5	10437.3	6652.2	3986.0	2747.4
-12.5°	65805.9	51531.3	39029.1	29592.7	23416.9	18425.3	13870.2	9658.2	6089.1	3786.6	2778.5
-15°	57636.9	45601.6	35357.8	27467.5	21640.4	17002.2	12718.2	8663.5	5361.3	3498.8	2783.8
-17.5°	49167.6	39647.2	31052.6	24671.4	19647.8	15328.5	11304.4	7662.7	4832.5	3283.8	2768.6
-20°	40638.9	33718.2	27510.3	22042.4	17369.8	13299.4	9618.5	6449.0	4291.8	3231.3	2762.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	33368.3	28719.9	23981.3	19228.9	15143.2	11264.4	7906.6	5240.8	3639.7	3117.5	2721.1
-25°	28048.5	24274.3	20403.7	16589.3	12757.1	9150.7	6186.5	4378.8	3420.5	3012.2	2646.1
-27.5°	23320.4	20057.3	16827.6	13503.8	10159.6	7131.3	4913.8	3609.6	3201.4	2871.6	2570.2
-30°	18898.1	16086.2	13240.5	10332.2	7700.6	5361.2	3864.4	3363.7	3018.0	2721.1	2451.0
-32.5°	14636.5	12286.1	9789.6	7495.1	5495.4	4105.1	3493.9	3127.6	2841.7	2579.9	2338.8
-35°	10595.7	8753.3	6766.5	5272.3	4023.0	3568.6	3232.1	2942.8	2677.2	2438.0	2224.4
-37.5°	7088.5	5762.0	4767.2	3858.6	3563.9	3276.6	3017.4	2761.7	2514.8	2309.9	2121.9
-40°	4740.9	3951.3	3729.3	3487.7	3263.6	3039.0	2809.6	2578.8	2377.0	2189.6	2024.4
-42.5°	3660.8	3501.9	3356.1	3187.3	3005.2	2810.8	2608.7	2419.6	2242.8	2083.7	1935.8
-45°	3284.6	3162.2	3045.5	2916.9	2762.9	2600.2	2428.3	2271.1	2120.4	1982.7	1847.7
-47.5°	2965.5	2868.0	2768.4	2669.6	2544.3	2410.9	2275.0	2136.3	2009.5	1875.5	1683.9
-50°	2688.0	2610.3	2526.1	2444.0	2355.1	2253.9	2136.3	2018.0	1873.4	1692.0	1512.3
-52.5°	2458.3	2391.6	2322.8	2260.3	2192.6	2108.1	2003.5	1841.7	1675.0	1501.8	1333.1
-55°	2261.8	2205.2	2148.6	2099.5	2036.0	1913.1	1780.2	1624.3	1461.9	1302.2	1157.3
-57.5°	2089.6	2027.4	1944.2	1862.8	1780.5	1664.7	1533.6	1387.2	1248.2	1114.5	983.1
-60°	1819.4	1749.4	1666.2	1581.3	1497.9	1395.7	1285.8	1167.3	1043.7	933.7	824.5
-62.5°	1509.1	1442.4	1370.0	1297.6	1230.2	1151.3	1055.2	960.3	860.2	762.8	684.1
-65°	1207.9	1155.0	1095.1	1037.6	984.6	926.2	845.5	773.4	702.2	629.6	561.1
-67.5°	940.9	899.5	853.0	807.3	773.6	737.2	683.7	625.0	573.2	526.1	482.4
-70°	730.9	703.7	673.9	641.4	615.5	593.1	559.7	520.5	479.9	443.2	409.6
-72.5°	581.1	563.9	545.0	524.4	503.7	486.9	464.0	435.2	405.1	372.9	346.4
-75°	475.1	462.4	448.7	434.5	419.6	403.6	388.7	371.5	353.1	333.3	315.1
-77.5°	402.5	393.7	384.8	377.1	368.8	359.8	348.7	333.5	319.0	303.8	289.5
-80°	360.6	353.3	346.0	340.2	333.8	326.4	317.7	305.1	292.2	279.1	266.7
-82.5°	328.1	321.9	315.7	310.1	304.3	297.4	290.0	279.2	268.2	256.7	245.4
-85°	298.4	292.7	286.9	281.8	276.6	270.5	264.0	254.7	245.2	234.9	224.6
-87.5°	270.9	265.4	259.9	256.1	252.2	246.5	240.8	232.8	224.8	215.9	207.0
-90°	2.3	2.3	2.3	2.9	3.4	3.4	3.4	4.0	4.6	4.6	4.6



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	187.2	180.3	173.4	166.5	160.8	155.0	148.7	142.4	133.8	125.2	112.0
87.5°	5.0	5.3	5.9	6.4	6.3	6.3	6.8	7.4	7.3	7.3	7.8
85°	5.6	6.1	6.4	6.9	6.9	6.9	7.4	7.8	7.7	7.7	8.2
82.5°	6.4	6.8	6.8	6.9	7.3	7.5	7.9	8.3	8.3	8.1	8.5
80°	6.7	7.0	7.2	7.3	7.6	8.1	8.5	8.9	9.0	8.9	9.1
77.5°	6.9	7.0	7.6	7.9	7.9	8.1	8.7	9.3	9.7	9.7	9.8
75°	6.9	7.1	7.7	8.1	8.2	8.2	8.8	9.5	10.1	10.5	10.5
72.5°	7.7	7.7	8.0	8.3	8.6	8.9	9.2	9.7	10.5	11.0	11.2
70°	9.7	8.8	8.8	9.2	9.5	9.8	10.3	10.6	10.9	11.6	11.9
67.5°	12.7	11.4	10.5	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.5
65°	19.9	16.1	12.6	12.5	12.3	12.3	12.5	13.1	12.9	13.6	13.2
62.5°	28.8	23.0	19.3	16.0	15.0	15.8	14.0	15.6	14.4	15.2	14.7
60°	39.0	31.0	27.0	23.8	21.2	20.8	19.9	18.6	18.1	17.0	16.7
57.5°	47.6	38.2	35.8	32.2	30.7	28.5	27.4	25.1	22.6	21.1	18.9
55°	54.3	46.4	45.4	42.4	41.7	38.5	36.7	33.6	28.5	26.2	21.5
52.5°	58.2	57.1	56.2	56.0	55.3	50.7	48.7	42.9	38.5	31.6	26.5
50°	67.9	71.7	70.3	73.7	71.1	68.6	61.5	55.6	49.1	38.7	32.1
47.5°	100.2	103.1	95.3	97.7	93.0	89.4	80.4	70.0	60.5	49.3	37.9
45°	185.0	155.0	145.9	134.8	123.8	119.0	103.2	85.3	74.6	60.4	43.9
42.5°	302.8	261.1	232.8	179.5	175.4	155.3	130.6	110.0	89.4	72.1	52.4
40°	463.0	407.6	346.5	289.9	239.8	196.9	171.3	138.6	104.9	84.8	62.9
37.5°	616.9	553.9	491.6	415.1	324.7	266.2	217.6	169.5	125.0	99.6	73.5
35°	744.0	682.5	623.9	541.7	447.8	339.2	268.4	207.1	153.7	114.9	84.3
32.5°	858.5	787.5	718.1	651.3	549.8	413.8	330.1	249.9	183.0	130.9	95.2
30°	967.9	881.7	800.8	736.2	630.7	497.7	391.1	290.7	213.0	147.3	106.2
27.5°	1081.6	976.3	880.5	805.3	696.3	569.8	439.1	329.4	243.3	165.3	118.3
25°	1203.3	1079.7	973.5	877.9	762.4	623.4	481.9	366.2	275.0	186.1	129.8
22.5°	1332.3	1183.1	1063.2	955.8	835.4	675.6	523.7	403.8	299.5	205.6	140.8
20°	1454.3	1279.5	1145.1	1020.5	905.3	734.7	566.7	434.3	322.4	223.7	151.2
17.5°	1575.7	1372.5	1208.5	1077.3	964.8	795.8	610.8	462.7	343.7	240.3	160.9
15°	1690.0	1463.0	1272.2	1127.5	1012.5	853.3	653.8	489.5	363.2	255.4	170.6
12.5°	1796.0	1548.4	1335.1	1170.7	1047.9	904.9	695.0	514.3	380.8	270.7	180.5
10°	1891.0	1628.6	1396.5	1212.0	1078.6	950.6	733.6	541.7	403.6	285.7	189.7
7.5°	1969.2	1701.9	1453.1	1251.1	1106.5	989.9	775.5	576.7	426.1	299.4	198.3
5°	2036.3	1768.1	1509.4	1297.0	1138.7	1021.7	813.6	609.7	447.0	311.5	206.1
2.5°	2096.9	1826.1	1562.3	1340.5	1168.7	1047.2	846.8	640.1	465.9	322.0	213.2
0°	2146.6	1874.4	1607.9	1379.4	1195.6	1067.0	875.2	667.3	482.4	330.8	219.4
-2.5°	2191.5	1908.6	1645.6	1420.1	1240.5	1096.6	892.5	681.0	496.0	342.4	226.9
-5°	2224.3	1933.6	1676.1	1455.8	1280.6	1120.5	904.9	690.9	506.8	352.1	233.5
-7.5°	2276.1	1962.7	1703.4	1487.0	1315.1	1137.9	912.2	697.2	514.7	359.6	239.1
-10°	2316.5	1989.4	1728.6	1512.8	1337.7	1152.5	916.0	699.8	519.7	364.8	243.6
-12.5°	2347.9	2008.5	1745.4	1531.9	1355.6	1164.9	925.8	702.9	521.5	367.6	246.9
-15°	2371.7	2036.7	1763.0	1545.0	1370.6	1171.3	928.4	702.8	519.2	367.1	249.1
-17.5°	2379.3	2047.5	1771.7	1555.3	1381.1	1171.6	923.2	696.9	513.5	363.5	250.6
-20°	2383.1	2051.9	1768.4	1556.2	1384.2	1157.9	909.7	684.8	504.2	357.8	251.3



REPORT NUMBER: P735968 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	2372.1	2053.8	1779.9	1554.6	1373.0	1136.2	887.9	667.0	491.4	349.8	250.9
-25°	2325.7	2044.2	1782.1	1560.1	1343.9	1105.5	864.5	648.4	474.9	339.7	249.5
-27.5°	2269.8	2008.4	1771.3	1553.2	1314.1	1069.6	839.3	632.5	460.7	327.4	246.9
-30°	2208.1	1967.1	1745.6	1528.0	1274.1	1030.6	808.7	611.6	447.5	320.0	243.2
-32.5°	2120.7	1919.1	1711.6	1475.4	1224.5	984.8	772.0	585.4	430.9	315.8	240.1
-35°	2035.8	1860.7	1670.0	1411.2	1166.3	938.3	732.2	553.9	410.9	309.7	236.5
-37.5°	1945.9	1788.1	1588.5	1336.9	1098.0	884.6	691.8	523.9	387.4	301.9	231.7
-40°	1864.8	1691.4	1475.7	1252.6	1026.9	822.9	646.0	494.5	372.3	292.4	225.6
-42.5°	1779.0	1561.8	1356.2	1153.6	949.0	762.8	596.6	461.6	359.8	283.1	218.2
-45°	1638.1	1428.5	1229.4	1046.8	864.8	696.4	555.4	428.2	345.1	273.1	212.0
-47.5°	1489.4	1291.0	1103.2	934.7	783.0	629.1	507.6	408.7	328.1	261.6	208.3
-50°	1334.5	1152.7	979.3	829.2	689.7	572.0	462.0	386.5	312.8	248.5	203.9
-52.5°	1174.7	1015.3	862.1	723.2	613.0	510.9	430.7	360.9	295.7	239.8	198.8
-55°	1015.4	882.8	746.3	632.0	538.3	465.6	396.8	336.4	276.7	232.7	193.5
-57.5°	866.5	750.3	646.0	549.8	478.7	421.6	364.6	310.1	264.7	224.6	190.3
-60°	723.0	638.8	550.9	484.7	427.9	379.4	332.7	286.7	254.0	216.4	186.4
-62.5°	605.4	535.8	483.9	428.5	380.6	340.3	302.2	271.8	241.7	210.6	181.8
-65°	512.9	467.7	421.8	378.7	337.1	305.4	284.2	256.3	231.7	204.2	176.6
-67.5°	440.0	403.7	367.8	330.1	304.4	284.6	265.1	244.1	222.3	197.2	170.8
-70°	375.9	343.6	321.8	302.1	282.0	264.4	250.8	233.1	212.5	189.8	164.6
-72.5°	328.1	311.1	294.6	277.3	263.1	250.0	237.3	221.6	202.6	182.0	158.0
-75°	298.7	285.3	272.8	259.8	247.3	235.3	223.6	209.8	192.3	173.8	151.2
-77.5°	277.8	266.3	254.1	242.3	231.6	220.6	209.7	197.5	181.8	165.1	144.1
-80°	256.9	246.7	236.2	225.8	215.9	205.7	196.0	185.3	171.0	156.1	136.7
-82.5°	236.1	227.0	218.2	209.3	200.5	191.8	182.6	172.9	160.0	146.8	129.8
-85°	216.7	208.9	200.8	192.5	185.1	177.7	169.7	161.5	150.6	139.7	124.1
-87.5°	200.3	193.5	186.3	179.0	172.8	166.4	159.3	152.0	142.3	132.6	118.1
-90°	4.6	4.6	5.2	5.7	5.7	5.7	6.3	6.9	6.9	6.9	7.5



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	98.8	82.1	65.5	47.1	28.7	19.5	10.3
87.5°	8.3	8.4	8.4	8.3	8.2	9.4	10.3
85°	8.6	8.8	8.8	8.6	8.4	9.6	10.3
82.5°	9.0	9.1	9.2	8.9	8.6	9.8	10.3
80°	9.3	9.5	9.6	9.2	8.9	10.0	10.3
77.5°	9.9	10.0	10.0	9.5	9.1	10.2	10.3
75°	10.5	10.5	10.4	9.8	9.3	10.4	10.3
72.5°	11.2	11.0	10.8	10.1	9.6	10.6	10.3
70°	11.8	11.5	11.2	10.4	9.9	10.8	10.3
67.5°	12.6	12.0	11.7	10.8	10.2	11.1	10.3
65°	13.5	12.8	12.2	11.3	10.5	11.3	10.3
62.5°	14.4	13.8	12.7	11.8	10.9	11.5	10.3
60°	15.5	14.9	13.2	12.2	11.2	11.8	10.3
57.5°	17.7	16.1	14.4	12.7	11.8	12.0	10.3
55°	20.1	17.3	15.7	13.2	12.5	12.2	10.3
52.5°	22.6	18.8	17.0	13.7	13.2	12.5	10.3
50°	25.3	21.4	18.4	14.2	14.0	12.7	10.3
47.5°	28.4	24.1	19.9	14.9	14.8	13.0	10.3
45°	33.6	26.9	21.4	16.1	15.6	13.2	10.3
42.5°	38.9	29.9	23.0	17.2	16.5	13.5	10.3
40°	44.5	33.0	25.0	19.0	17.4	13.7	10.3
37.5°	50.4	36.1	27.4	21.0	18.3	14.0	10.3
35°	56.3	40.4	29.9	23.0	19.3	14.2	10.3
32.5°	63.1	45.1	32.3	25.1	20.3	14.5	10.3
30°	71.8	49.7	34.8	27.1	21.3	14.7	10.3
27.5°	80.4	54.2	38.1	29.2	22.3	14.9	10.3
25°	88.6	58.6	41.5	31.3	23.4	15.2	10.3
22.5°	96.6	63.3	44.8	33.4	24.5	15.4	10.3
20°	104.2	68.5	48.1	35.5	25.5	15.7	10.3
17.5°	112.2	73.6	51.2	37.5	26.6	15.9	10.3
15°	120.0	78.5	54.3	39.6	27.6	16.1	10.3
12.5°	127.4	83.3	57.2	41.5	28.7	16.3	10.3
10°	134.2	87.8	60.0	43.5	29.7	16.5	10.3
7.5°	140.6	92.1	62.8	45.3	30.6	16.7	10.3
5°	146.4	96.2	65.3	47.1	31.6	16.9	10.3
2.5°	151.6	99.9	67.8	48.9	32.5	17.0	10.3
0°	156.2	103.4	70.1	50.5	33.3	17.2	10.3
-2.5°	161.6	107.6	73.4	52.6	34.6	17.8	10.3
-5°	166.3	111.4	76.5	54.7	35.8	18.4	10.3
-7.5°	170.4	114.9	79.4	56.6	36.9	19.0	10.3
-10°	173.7	118.0	82.1	58.4	38.0	19.6	10.3
-12.5°	176.4	120.7	84.6	60.1	39.0	20.1	10.3
-15°	178.3	123.1	86.9	61.6	39.9	20.6	10.3
-17.5°	179.5	125.1	88.9	63.0	40.8	21.1	10.3
-20°	180.3	126.7	90.7	64.2	41.6	21.6	10.3



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	181.2	128.0	92.2	65.3	42.2	22.0	10.3
-25°	181.3	129.5	93.5	66.2	42.8	22.4	10.3
-27.5°	180.5	130.8	94.5	67.0	43.4	22.8	10.3
-30°	178.9	131.7	95.3	67.6	43.8	23.1	10.3
-32.5°	176.5	132.2	96.5	68.0	44.1	23.4	10.3
-35°	175.6	132.1	97.5	68.3	44.4	23.7	10.3
-37.5°	175.0	132.1	98.3	68.4	44.6	23.9	10.3
-40°	173.9	132.7	98.7	68.3	44.6	24.0	10.3
-42.5°	172.1	132.9	99.0	68.2	44.6	24.2	10.3
-45°	169.5	132.8	99.2	68.4	44.5	24.3	10.3
-47.5°	166.3	132.3	99.1	68.3	44.3	24.3	10.3
-50°	164.6	131.5	98.8	68.3	44.1	24.3	10.3
-52.5°	162.9	130.3	98.1	68.2	43.7	24.3	10.3
-55°	160.7	128.7	97.1	67.9	43.2	24.2	10.3
-57.5°	158.1	126.8	95.9	67.4	42.7	24.1	10.3
-60°	155.2	124.5	94.3	66.8	42.1	23.9	10.3
-62.5°	151.7	121.8	93.1	65.9	41.4	23.8	10.3
-65°	147.8	118.8	91.5	64.9	40.7	23.5	10.3
-67.5°	143.5	115.7	89.7	63.7	39.9	23.3	10.3
-70°	138.8	112.6	87.7	62.4	38.9	23.0	10.3
-72.5°	134.0	109.2	85.5	60.9	37.9	22.6	10.3
-75°	128.9	105.5	83.0	59.4	36.8	22.3	10.3
-77.5°	123.4	101.5	80.5	57.6	35.6	21.9	10.3
-80°	117.6	97.7	77.8	55.8	34.3	21.4	10.3
-82.5°	113.1	94.1	75.0	53.8	33.0	21.0	10.3
-85°	108.5	90.3	72.0	51.7	31.6	20.5	10.3
-87.5°	103.8	86.3	68.8	49.4	30.2	20.0	10.3
-90°	8.0	8.0	8.0	8.0	8.0	9.2	10.3

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

