

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: P731453 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-1S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731453 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-70-1S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

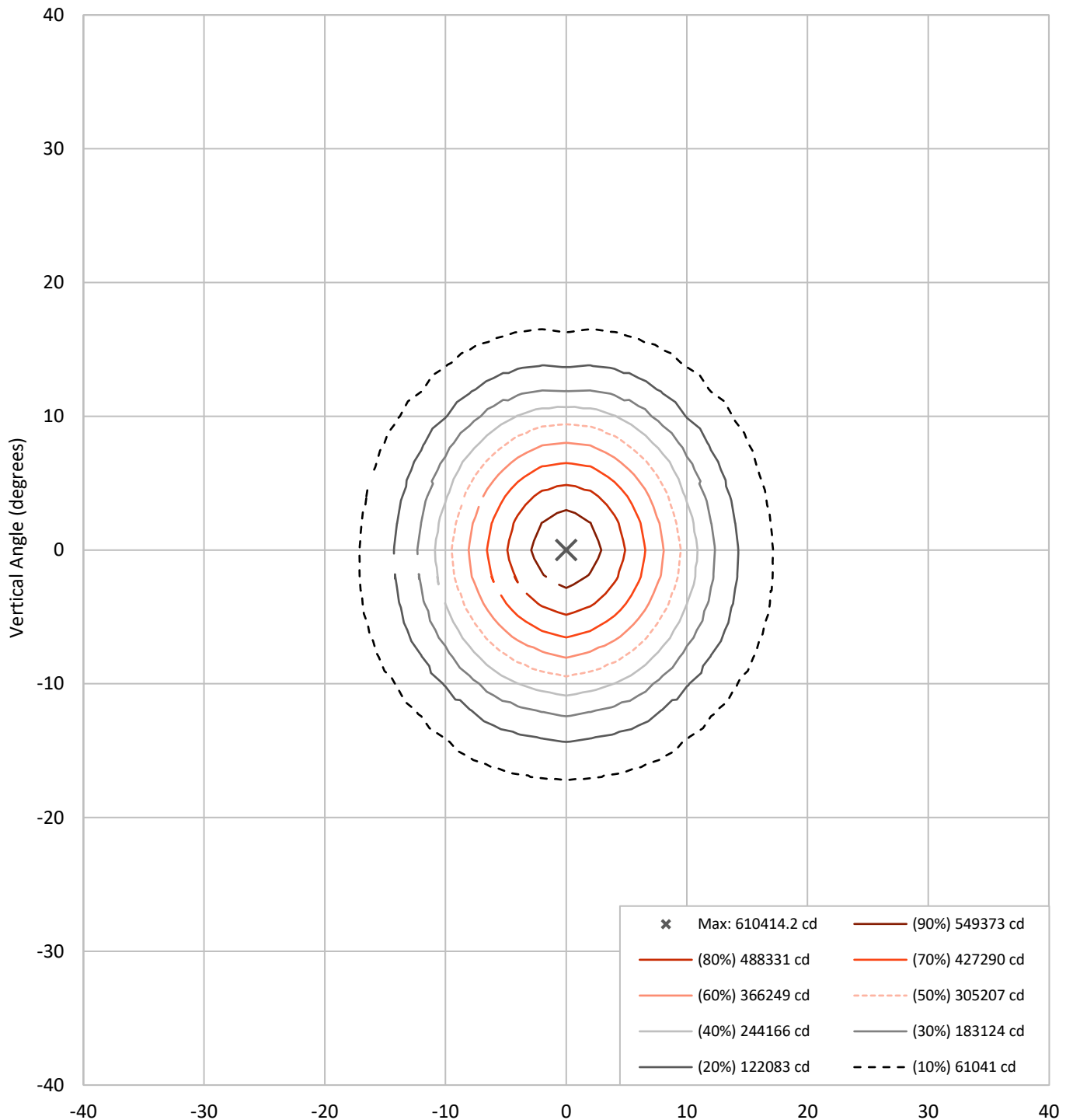
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	80458.5 lumens	Max Intensity:	610414.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	35665.9 lumens	Field Lumens:	64959.8 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 577.1
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





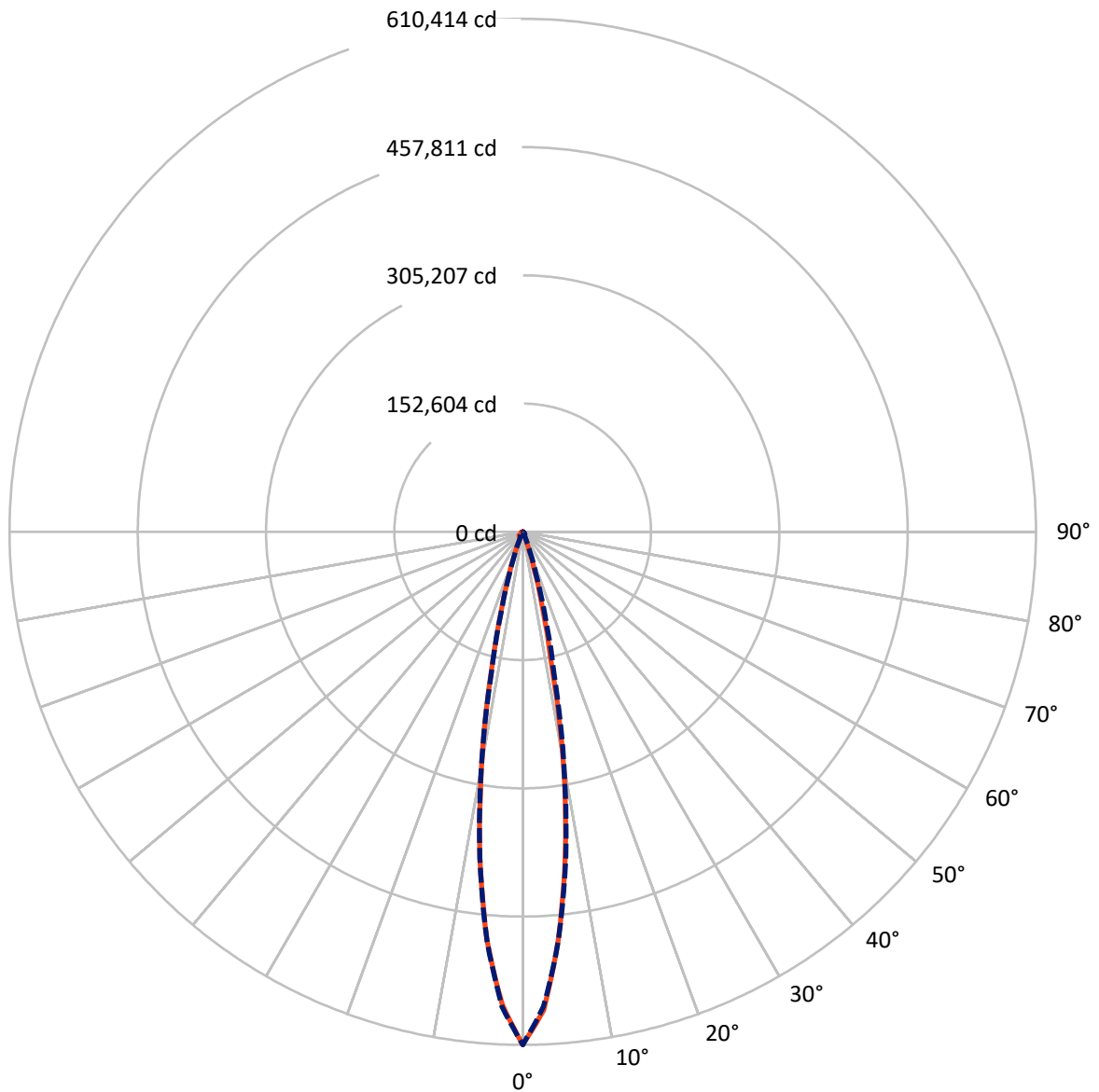
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Lumen Table

90	0.3	1.1	2.0	2.8	3.1	2.8	2.0	1.1	0.3										
80	0.3	1.1	2.0	2.8	3.1	2.8	2.0	1.1	0.3										
70	0.4	0.2	0.3	0.6	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.6	0.6	0.3	0.2	0.4			
60		0.5	0.9	1.1	0.9	0.9	1.1	1.2	1.2	1.1	0.9	0.9	1.1	0.9	0.5				
50	1.1	1.4	3.0	5.8	9.1	15.7	23.8	26.4	26.4	23.8	15.7	9.1	5.8	3.0	1.4	1.1			
40		3.1	8.7	15.7	32.9	53.8	60.3	63.2	63.2	60.3	53.8	32.9	15.7	8.7	3.1				
30	2.6	5.2	14.2	29.1	69.2	73.5	89.1	147.5	147.5	89.1	73.5	69.2	29.1	14.2	5.2	2.6			
20		7.0	18.2	51.8	91.7	108.3	674.2	2686.7	2686.7	674.2	108.3	91.7	51.8	18.2	7.0				
10	3.9	8.6	21.4	68.6	102.3	202.0	2724.2	11333.9	11333.9	2724.2	202.0	102.3	68.6	21.4	8.6	3.9			
0		9.6	23.9	73.2	113.8	225.9	2863.9	11279.3	11279.3	2863.9	225.9	113.8	73.2	23.9	9.6				
-10	4.5	10.0	25.6	72.3	126.0	155.3	795.1	2911.2	2911.2	795.1	155.3	126.0	72.3	25.6	10.0	4.5			
-20		9.7	25.9	55.9	128.4	157.3	171.6	266.4	266.4	171.6	157.3	128.4	55.9	25.9	9.7				
-30	4.3	8.7	24.2	44.6	94.1	158.0	177.6	179.6	179.6	177.6	158.0	94.1	44.6	24.2	8.7	4.3			
-40		7.3	19.9	39.0	58.3	88.1	130.5	162.7	162.7	130.5	88.1	58.3	39.0	19.9	7.3				
-50	3.6	5.6	14.4	28.4	45.3	59.1	68.9	75.2	75.2	68.9	59.1	45.3	28.4	14.4	5.6	3.6			
-60		4.5	9.4	17.3	27.4	36.8	44.9	50.3	50.3	44.9	36.8	27.4	17.3	9.4	4.5				
-70	2.5	17.0	40.5	63.7	76.0	63.7	40.5	17.0	2.5							2.5			
-80		17.0	40.5	63.7	76.0	63.7	40.5	17.0	2.5										
-90	2.5	17.0	40.5	63.7	76.0	63.7	40.5	17.0	2.5										

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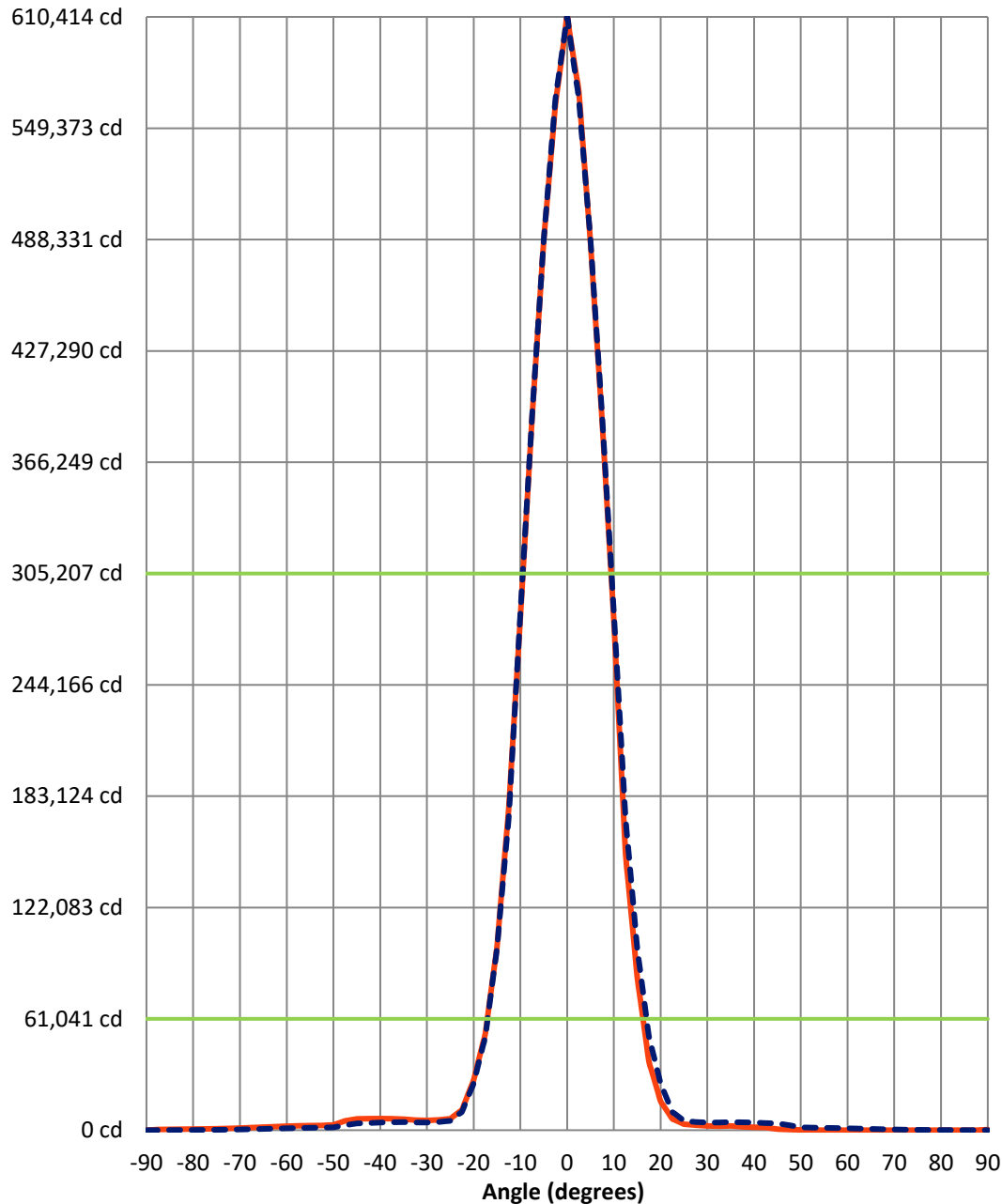
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 18.9°
 Lumens: 35665.9
 Efficiency: 44.3%

Field:
 H Angle: 34°
 V Angle: 33.3°
 Lumens: 64959.8
 Efficiency: 80.7%

Spill:
 Lumens: 15498.6
 Efficiency: 19.3%

— 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°	8.7	23.3	37.9	56.8	75.7	94.7	113.6	127.1	140.6	154.1	167.6
87.5°	8.7	7.5	6.1	6.1	6.1	6.0	5.8	5.8	5.8	5.8	5.8
85°	8.7	7.8	6.3	6.4	6.3	6.1	5.8	5.8	5.8	5.8	5.8
82.5°	8.7	8.0	6.6	6.7	6.6	6.3	5.8	5.8	5.8	5.9	5.8
80°	8.7	8.3	6.9	6.9	6.8	6.5	6.0	6.2	6.4	6.2	5.9
77.5°	8.7	8.6	7.2	7.2	7.1	6.9	6.8	6.9	6.9	6.6	6.1
75°	8.7	8.8	7.5	7.5	7.5	8.0	7.7	7.6	7.6	7.5	7.0
72.5°	8.7	9.1	7.8	7.8	8.6	9.0	8.6	8.6	9.0	8.7	7.9
70°	8.7	9.4	8.2	8.3	9.7	10.1	9.7	10.2	10.5	10.1	9.5
67.5°	8.7	9.7	8.6	9.3	10.8	11.2	11.6	11.8	12.0	12.4	11.5
65°	8.7	10.0	9.0	10.2	11.9	12.9	13.6	13.5	14.8	15.0	14.1
62.5°	8.7	10.3	9.4	11.2	13.0	15.0	15.8	16.0	17.6	18.0	17.9
60°	8.7	10.6	9.9	12.2	14.2	17.2	18.1	19.0	20.6	22.2	22.0
57.5°	8.7	10.9	10.9	13.2	16.2	19.5	21.6	22.3	24.8	26.6	29.1
55°	8.7	11.2	11.9	14.2	18.3	21.9	25.5	26.3	29.3	32.4	38.2
52.5°	8.7	11.5	12.9	15.2	20.4	24.6	29.7	31.8	34.1	42.2	48.1
50°	8.7	11.8	14.0	16.2	22.6	28.5	34.0	37.8	40.5	52.6	63.9
47.5°	8.7	12.1	15.2	17.4	24.8	32.4	38.8	44.4	50.8	63.7	81.5
45°	8.7	12.4	16.3	19.1	27.0	36.5	44.9	51.4	63.4	80.9	100.2
42.5°	8.7	12.7	17.5	20.8	29.3	40.7	51.3	61.2	76.7	98.9	128.1
40°	8.7	13.1	18.7	23.0	32.1	45.0	58.0	73.1	92.1	118.0	159.5
37.5°	8.7	13.4	19.9	25.6	35.5	49.3	64.9	85.3	111.3	142.6	192.9
35°	8.7	13.7	21.2	28.2	38.8	54.5	72.0	97.7	131.0	173.6	230.5
32.5°	8.7	14.0	22.5	30.9	42.1	60.2	80.2	110.3	151.0	203.9	269.6
30°	8.7	14.3	23.8	33.6	45.4	65.9	90.4	124.0	171.3	233.6	307.1
27.5°	8.7	14.6	25.1	36.3	50.1	71.6	100.6	140.7	193.4	262.4	342.9
25°	8.7	14.9	26.4	39.0	55.0	77.2	110.7	157.2	217.7	292.1	377.1
22.5°	8.7	15.2	27.6	41.8	59.8	83.3	120.6	173.5	241.1	321.2	414.8
20°	8.7	15.5	28.9	44.5	64.5	90.2	130.3	189.5	263.5	348.6	450.4
17.5°	8.7	15.8	30.2	47.2	69.2	96.9	140.1	205.1	284.9	374.2	483.8
15°	8.7	16.1	31.4	49.9	73.7	103.3	149.5	219.5	305.0	398.1	514.9
12.5°	8.7	16.4	32.6	52.5	78.1	109.4	158.4	232.0	323.4	420.2	543.6
10°	8.7	16.6	33.8	55.0	82.4	115.3	166.7	243.5	340.1	444.3	573.2
7.5°	8.7	16.9	34.9	57.5	86.5	120.8	174.4	253.8	355.6	467.9	607.6
5°	8.7	17.1	36.0	59.8	90.4	126.1	181.5	263.1	369.8	490.1	639.9
2.5°	8.7	17.3	37.0	62.0	94.1	131.0	188.0	271.3	382.4	510.5	669.7
0°	8.7	17.5	37.9	64.1	97.6	135.5	193.8	278.3	393.4	528.9	696.5
-2.5°	8.7	18.3	40.0	67.5	102.0	141.1	200.7	287.8	406.3	543.1	711.4
-5°	8.7	19.2	41.9	70.7	106.1	146.4	206.9	296.1	417.2	554.8	722.9
-7.5°	8.7	20.0	43.8	73.7	109.9	151.2	212.3	303.0	426.0	564.0	731.0
-10°	8.7	20.8	45.6	76.6	113.5	155.7	217.0	308.5	432.6	570.7	735.8
-12.5°	8.7	21.5	47.3	79.3	116.7	159.7	221.0	312.5	436.9	575.3	740.8
-15°	8.7	22.2	48.8	81.7	119.7	163.3	224.1	315.0	439.3	579.3	743.6
-17.5°	8.7	22.9	50.3	84.0	122.5	166.4	226.5	316.8	440.2	580.5	742.5
-20°	8.7	23.6	51.6	86.0	124.9	169.0	228.6	317.7	438.6	578.8	737.2



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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°	8.7	24.2	52.7	87.8	127.0	171.2	230.5	316.9	434.7	574.0	727.7
-25°	8.7	24.8	53.7	89.3	128.9	173.3	231.5	314.2	428.4	566.2	714.0
-27.5°	8.7	25.3	54.6	90.7	130.4	175.1	231.5	309.8	419.7	555.9	702.4
-30°	8.7	25.8	55.3	91.7	131.7	176.2	230.5	303.5	411.5	543.8	687.5
-32.5°	8.7	26.3	55.9	92.5	132.8	176.9	228.4	300.1	402.8	528.8	669.0
-35°	8.7	26.7	56.3	93.1	133.4	177.0	227.7	296.8	391.9	511.1	647.0
-37.5°	8.7	27.0	56.6	93.4	133.7	176.8	227.3	292.3	378.7	490.6	624.3
-40°	8.7	27.3	56.6	93.4	133.7	176.8	226.1	286.5	363.2	471.7	598.4
-42.5°	8.7	27.6	56.6	93.2	133.3	176.2	224.1	279.4	352.0	451.2	568.3
-45°	8.7	27.8	56.3	92.7	132.6	175.2	221.5	273.3	342.4	427.9	535.3
-47.5°	8.7	27.9	55.9	91.9	131.5	173.6	218.2	269.3	331.3	402.3	505.9
-50°	8.7	28.0	55.4	90.9	130.1	171.6	215.4	264.5	317.7	386.6	473.6
-52.5°	8.7	28.1	54.6	89.8	128.2	169.1	212.2	258.8	308.0	368.9	439.9
-55°	8.7	28.1	53.8	88.4	126.1	166.1	208.4	252.5	299.5	349.4	417.3
-57.5°	8.7	28.0	52.7	86.7	123.5	162.7	204.0	247.1	290.2	336.3	392.5
-60°	8.7	27.9	51.5	84.8	120.6	158.9	199.0	240.5	280.4	324.6	370.2
-62.5°	8.7	27.8	51.0	82.6	117.5	154.6	193.5	233.1	271.6	311.9	355.7
-65°	8.7	27.6	50.3	80.3	114.1	149.8	187.4	225.1	262.0	300.1	340.2
-67.5°	8.7	27.3	49.6	77.7	110.3	144.7	180.8	216.4	251.7	288.0	325.5
-70°	8.7	27.1	48.6	74.9	106.2	139.2	173.7	207.1	240.4	275.1	310.5
-72.5°	8.7	26.7	47.6	72.9	101.9	133.3	166.1	197.2	228.4	260.9	294.6
-75°	8.7	26.3	46.5	71.1	97.3	127.0	158.0	186.7	215.8	245.9	277.0
-77.5°	8.7	25.9	45.3	69.1	93.9	120.5	149.5	175.8	202.4	230.1	258.7
-80°	8.7	25.5	44.0	66.9	90.6	115.1	140.6	164.3	188.5	213.5	239.3
-82.5°	8.7	25.0	42.6	64.6	87.2	110.3	134.0	153.7	174.1	196.3	219.1
-85°	8.7	24.4	41.1	62.1	83.5	105.3	127.5	145.1	163.1	181.4	200.3
-87.5°	8.7	23.9	39.5	59.5	79.7	100.1	120.7	136.2	152.0	167.9	184.1
-90°	8.7	7.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



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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°	180.4	193.1	205.9	218.6	228.1	237.5	247.0	256.4	264.4	272.5	280.5
87.5°	5.5	5.1	4.8	4.4	4.4	4.4	4.4	4.4	4.0	3.7	3.3
85°	5.5	5.1	4.8	4.4	4.4	4.4	4.4	4.4	4.0	3.7	3.3
82.5°	5.5	5.1	4.8	4.4	4.4	4.4	4.4	4.4	4.1	3.9	3.7
80°	5.5	5.2	5.0	4.9	4.9	4.8	4.7	4.5	4.4	4.4	4.5
77.5°	6.0	5.9	5.8	5.7	5.5	5.3	5.2	5.2	5.2	5.0	4.8
75°	6.7	6.6	6.5	6.1	5.7	5.7	5.8	5.8	5.6	5.2	4.9
72.5°	7.6	7.5	7.1	6.3	6.1	6.2	6.2	6.0	6.4	7.2	8.0
70°	8.8	8.6	8.4	7.7	6.9	7.3	8.5	9.6	10.7	12.4	15.0
67.5°	10.3	10.7	10.4	9.6	9.5	10.9	12.3	16.9	22.0	24.8	25.9
65°	12.9	13.2	13.8	14.0	13.2	17.2	22.5	28.6	34.3	35.4	34.5
62.5°	16.0	17.7	18.9	20.0	21.6	25.6	31.7	37.9	44.1	42.3	36.4
60°	22.2	23.2	26.5	29.9	31.1	33.3	39.9	43.4	45.3	44.1	34.3
57.5°	29.9	31.5	37.2	41.1	42.3	39.7	42.2	44.4	44.1	38.9	29.8
55°	40.5	42.6	49.6	54.6	54.4	44.8	44.3	46.3	43.0	37.8	29.4
52.5°	55.8	57.0	64.8	70.2	68.3	58.4	51.3	54.6	54.1	47.3	40.2
50°	72.6	79.1	82.0	89.7	89.2	81.2	67.8	74.5	86.2	84.1	74.0
47.5°	96.5	104.9	105.2	114.6	118.8	125.8	114.5	128.7	146.1	181.7	170.3
45°	125.1	139.0	140.1	148.8	170.8	197.2	207.9	207.1	295.0	326.7	349.9
42.5°	156.8	179.1	188.5	187.9	258.6	298.8	321.6	394.3	461.1	481.4	492.3
40°	196.8	223.7	244.1	289.7	363.0	418.6	476.0	553.6	590.1	593.7	593.9
37.5°	240.7	279.8	312.8	390.5	484.0	545.7	617.0	650.4	675.7	677.2	705.9
35°	287.8	340.4	401.4	488.1	591.1	661.1	702.3	732.5	746.4	778.1	917.4
32.5°	341.8	405.3	484.9	581.4	679.7	751.1	775.7	801.7	835.4	929.5	1338.5
30°	396.2	478.3	564.1	668.0	767.7	818.0	844.0	876.7	929.4	1296.6	1863.3
27.5°	442.4	546.7	640.4	748.7	850.5	885.3	915.4	964.3	1188.4	1703.6	2491.0
25°	486.6	601.1	710.9	828.4	912.6	951.1	988.9	1055.3	1492.8	2309.0	2846.5
22.5°	530.9	656.0	774.9	907.1	974.4	1014.4	1072.5	1320.7	1932.7	2914.0	3166.6
20°	576.3	710.9	838.4	970.8	1033.9	1075.4	1155.3	1621.3	2470.2	3172.1	3406.1
17.5°	620.8	763.8	898.2	1015.6	1081.1	1139.9	1266.4	1923.6	2954.1	3426.8	3589.7
15°	664.1	814.5	952.5	1059.0	1128.2	1209.3	1527.3	2325.7	3268.0	3655.4	3810.1
12.5°	705.5	862.5	1001.5	1100.7	1175.2	1278.2	1800.4	2723.2	3478.2	3835.4	3983.6
10°	744.7	907.5	1045.5	1140.4	1221.7	1345.5	2075.7	3058.8	3651.6	3957.1	4070.1
7.5°	781.7	946.4	1084.9	1178.0	1267.0	1410.4	2342.7	3335.7	3788.5	4060.3	4129.9
5°	814.1	978.2	1121.2	1218.5	1312.5	1467.8	2571.4	3557.2	3894.6	4146.2	4191.5
2.5°	841.9	1005.6	1154.1	1257.5	1356.5	1513.6	2681.9	3647.0	3908.0	4184.1	4255.6
0°	865.5	1028.7	1183.1	1293.8	1397.3	1553.2	2745.0	3693.5	3891.7	4194.8	4323.0
-2.5°	884.8	1060.1	1224.5	1332.0	1436.4	1590.7	2740.4	3729.6	3932.7	4291.2	4581.5
-5°	900.0	1086.6	1260.9	1367.5	1472.1	1622.8	2691.2	3719.2	3988.5	4376.6	4740.7
-7.5°	910.9	1107.3	1291.7	1400.8	1507.3	1659.5	2656.0	3763.8	4151.1	4477.9	4805.3
-10°	918.2	1120.9	1310.4	1431.9	1542.8	1695.8	2580.4	3745.1	4303.1	4579.5	4867.2
-12.5°	926.5	1128.7	1322.4	1459.0	1573.7	1724.4	2446.8	3655.7	4443.8	4689.0	4927.9
-15°	930.0	1131.3	1328.7	1481.8	1599.8	1744.8	2253.0	3490.1	4537.8	4748.6	4966.6
-17.5°	928.4	1128.8	1329.3	1500.1	1620.6	1756.6	1996.9	3183.3	4390.1	4772.0	5002.7
-20°	921.6	1121.3	1324.0	1513.5	1636.4	1771.2	1955.7	2830.7	3986.6	4754.5	5028.6



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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°	909.5	1108.9	1311.7	1506.0	1653.8	1789.9	1957.6	2465.0	3510.6	4695.2	5030.6
-25°	893.9	1091.3	1292.7	1497.9	1669.3	1802.4	1951.7	2145.6	3039.2	4183.0	4980.3
-27.5°	875.1	1067.6	1274.0	1482.4	1681.6	1810.6	1953.1	2130.5	2623.5	3591.4	4788.8
-30°	851.4	1041.2	1247.9	1458.4	1664.3	1819.4	1953.6	2095.4	2277.4	3057.6	4089.7
-32.5°	824.6	1008.9	1213.4	1422.8	1632.1	1825.3	1942.3	2070.7	2227.2	2507.5	3389.1
-35°	797.5	975.7	1171.3	1378.9	1591.3	1790.4	1932.6	2047.6	2175.9	2346.4	2748.9
-37.5°	771.2	937.0	1122.0	1326.3	1534.8	1727.8	1914.8	2028.4	2145.9	2265.9	2433.3
-40°	740.2	892.7	1071.8	1265.0	1461.1	1653.5	1839.1	2008.8	2116.9	2220.8	2329.3
-42.5°	704.8	853.2	1017.5	1194.2	1379.2	1566.2	1754.6	1933.0	2084.7	2177.7	2276.6
-45°	666.6	808.8	959.2	1122.0	1290.1	1470.8	1652.4	1834.3	1996.5	2141.4	2229.9
-47.5°	623.6	759.6	903.6	1044.2	1200.9	1367.3	1542.2	1713.3	1880.3	2034.4	2185.0
-50°	578.9	706.2	839.0	970.4	1110.3	1262.3	1423.1	1585.2	1745.4	1902.2	2050.2
-52.5°	539.0	647.8	770.3	895.2	1022.4	1157.8	1300.7	1447.5	1601.0	1753.4	1891.0
-55°	495.9	595.0	697.3	815.1	935.8	1057.7	1177.1	1309.3	1446.5	1590.1	1718.6
-57.5°	461.1	540.5	630.2	730.1	843.3	957.9	1063.0	1169.4	1291.4	1418.8	1530.4
-60°	430.3	492.9	566.0	652.6	745.6	849.0	948.1	1046.3	1144.7	1242.0	1347.5
-62.5°	400.4	454.8	512.1	577.7	660.0	739.5	826.7	917.5	1008.3	1095.5	1179.9
-65°	382.3	420.3	469.0	522.7	576.3	645.6	716.1	785.9	866.0	944.9	1022.0
-67.5°	362.8	398.7	434.9	474.4	523.7	569.2	614.4	677.5	739.9	799.0	859.7
-70°	344.5	376.4	410.1	444.3	477.4	511.1	552.4	593.4	633.6	677.0	729.2
-72.5°	325.8	355.3	385.5	416.2	446.1	474.0	502.0	530.0	562.8	598.2	632.6
-75°	305.6	333.3	360.9	389.0	414.9	439.6	464.7	490.1	514.9	539.6	564.4
-77.5°	284.2	309.2	334.6	360.5	383.4	405.1	427.2	449.4	471.3	492.8	514.3
-80°	262.0	284.4	307.0	330.0	349.8	369.0	388.4	407.8	427.0	446.0	464.8
-82.5°	238.8	258.4	278.3	298.4	315.3	331.8	348.3	364.8	381.0	397.1	413.3
-85°	216.2	231.9	248.8	265.9	280.1	294.1	308.1	322.1	335.6	349.0	362.3
-87.5°	198.4	212.6	226.8	241.0	252.1	263.1	274.2	285.1	295.5	305.8	316.2
-90°	5.5	5.1	4.8	4.4	4.4	4.4	4.4	4.4	4.0	3.7	3.3



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	288.5	294.0	299.4	304.9	310.3	315.1	319.8	324.6	329.3	332.2	335.1
87.5°	2.9	2.8	2.8	2.8	2.8	2.5	2.2	1.8	1.5	1.5	1.5
85°	2.9	2.9	2.9	2.9	2.9	2.6	2.2	1.9	1.5	1.5	1.5
82.5°	3.6	3.5	3.4	3.2	2.9	2.8	2.8	2.8	2.8	2.8	2.8
80°	4.4	4.1	3.7	3.3	3.0	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	4.5	4.1	3.7	3.4	3.0	2.9	2.9	2.9	2.9	2.9	2.9
75°	4.5	4.4	4.6	4.6	4.3	4.3	4.3	4.3	4.1	3.9	3.6
72.5°	8.7	9.0	8.9	9.1	9.2	9.5	9.9	10.1	10.1	10.2	10.2
70°	16.4	16.9	17.4	17.2	16.1	15.3	14.9	14.5	14.0	14.4	15.3
67.5°	25.0	23.2	22.3	21.1	18.8	16.8	15.6	14.4	13.1	12.4	12.3
65°	30.9	24.4	21.2	18.8	16.9	14.7	12.7	11.0	9.4	8.4	8.0
62.5°	29.4	20.9	16.5	13.9	11.6	9.6	8.0	6.7	5.8	5.3	5.4
60°	25.1	16.4	11.5	9.3	7.0	4.6	4.3	4.1	3.8	3.5	3.7
57.5°	22.4	14.7	9.0	8.8	7.6	5.5	4.8	4.8	4.1	2.9	3.4
55°	25.0	21.1	14.7	15.1	14.7	12.4	10.6	12.6	12.1	9.5	10.4
52.5°	37.5	43.0	35.1	32.6	44.5	44.1	34.5	47.1	54.1	52.9	54.0
50°	88.3	99.7	111.8	102.4	125.7	139.6	136.5	153.0	169.9	169.5	174.7
47.5°	209.1	240.7	244.1	250.5	277.1	310.9	338.5	357.8	367.7	363.6	366.5
45°	374.3	381.4	397.7	433.9	479.2	533.7	575.3	599.4	680.7	738.4	772.1
42.5°	496.1	518.3	558.4	653.9	723.9	884.8	1079.4	1154.9	1250.5	1299.0	1302.1
40°	618.3	674.7	840.2	1014.3	1392.1	1673.0	1689.8	1809.0	1863.8	1803.4	1794.3
37.5°	820.1	1029.7	1314.1	1716.2	1892.0	1968.3	2010.3	2025.5	2036.6	2026.5	2021.3
35°	1217.7	1582.3	1861.5	1992.6	2072.0	2074.6	2084.3	2083.0	2070.0	2063.2	2048.8
32.5°	1804.3	2152.0	2160.5	2150.3	2166.9	2157.4	2139.2	2130.8	2102.6	2085.6	2091.3
30°	2409.0	2411.0	2376.6	2296.9	2257.1	2244.9	2218.5	2196.8	2170.0	2174.0	2267.1
27.5°	2649.0	2619.6	2571.6	2502.8	2369.3	2343.1	2321.9	2312.7	2424.6	2526.7	2617.9
25°	2917.5	2841.3	2815.0	2755.0	2617.6	2465.5	2532.4	2637.6	2783.8	2936.0	3082.9
22.5°	3149.7	3094.7	3077.7	3055.4	2831.2	2765.7	2857.5	3030.4	3230.1	3494.7	4250.0
20°	3378.5	3319.1	3299.6	3187.7	3070.2	3086.4	3256.8	3558.5	4117.2	6124.1	8575.0
17.5°	3570.9	3509.4	3442.9	3312.3	3274.9	3438.5	3779.5	4839.2	7475.6	14063.3	20758.9
15°	3750.1	3669.4	3556.3	3470.6	3541.4	3846.1	4690.7	8301.3	16841.0	27898.6	41840.2
12.5°	3909.4	3785.8	3627.5	3583.0	3798.5	4311.5	7624.3	16289.3	29352.2	45105.0	77834.8
10°	4020.2	3859.9	3721.9	3798.6	4141.1	5518.3	10971.6	24421.3	43746.6	78980.0	119727.7
7.5°	4067.9	3922.8	3842.5	4007.1	4464.5	7086.7	16516.6	33774.8	61787.1	109163.9	174177.8
5°	4121.9	4021.7	3976.9	4213.6	4775.9	8364.6	20504.4	41646.2	81079.3	137512.9	221234.3
2.5°	4231.0	4135.6	4104.4	4394.8	5048.4	9556.1	23620.6	47765.7	93860.7	161168.5	262993.0
0°	4423.5	4225.4	4200.6	4484.7	5157.9	10098.6	25665.4	51456.1	99939.9	171290.2	283539.0
-2.5°	4576.4	4340.4	4293.2	4546.6	5206.1	9832.8	25458.0	51329.0	97459.7	167907.3	270491.3
-5°	4709.8	4473.0	4407.9	4643.3	5312.0	9822.9	24109.3	47097.2	87208.6	147543.0	227959.1
-7.5°	4828.5	4623.8	4527.4	4714.8	5326.0	8796.7	19500.4	38775.8	69708.0	115193.4	176437.8
-10°	4953.7	4796.5	4665.2	4790.5	5266.7	6999.2	13045.7	27951.1	49643.2	83536.8	125561.9
-12.5°	5096.7	5017.5	4824.5	4842.8	5186.7	5906.3	9642.0	19514.1	34465.4	52622.8	83085.2
-15°	5218.1	5214.5	5053.0	5001.6	5172.5	5634.0	6727.0	10836.7	20906.6	33827.0	48896.2
-17.5°	5243.4	5372.6	5310.7	5153.7	5163.8	5422.5	5873.0	7181.3	10501.6	18612.4	27578.4
-20°	5259.8	5535.6	5542.1	5414.6	5302.8	5274.0	5479.9	5861.6	6603.5	9344.4	12952.2



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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°	5284.7	5546.9	5733.4	5698.2	5478.8	5350.5	5304.4	5448.9	5700.0	6053.7	7224.3
-25°	5296.5	5541.2	5808.2	5881.5	5789.5	5554.7	5379.0	5281.0	5369.8	5482.0	5711.0
-27.5°	5246.0	5532.4	5791.3	6008.3	6034.8	5881.2	5623.1	5413.6	5332.2	5255.1	5349.4
-30°	5162.1	5482.0	5752.7	6019.7	6126.5	6077.3	5942.2	5772.2	5573.8	5419.5	5365.3
-32.5°	4474.8	5406.6	5683.8	5915.2	6091.3	6141.7	6143.1	6052.0	5967.2	5848.2	5708.9
-35°	3686.7	4720.3	5622.4	5738.9	5900.4	6067.1	6190.9	6195.2	6185.3	6128.8	6070.1
-37.5°	2865.9	3829.1	4696.6	5391.1	5635.4	5831.6	6043.7	6186.9	6276.9	6260.8	6249.9
-40°	2495.1	2798.6	3610.3	4318.2	4912.2	5471.0	5700.7	5958.2	6165.3	6237.4	6286.0
-42.5°	2380.5	2510.4	2642.5	3179.0	3790.9	4329.1	4835.2	5317.8	5748.8	5992.9	6162.9
-45°	2317.8	2390.0	2470.9	2590.4	2693.7	3139.4	3592.9	4033.3	4570.9	5065.9	5495.0
-47.5°	2259.7	2316.2	2378.8	2440.3	2497.6	2578.6	2648.7	2773.7	3176.4	3582.5	3989.9
-50°	2166.1	2259.5	2311.4	2357.3	2397.8	2435.4	2467.9	2524.4	2591.2	2649.5	2708.4
-52.5°	2009.6	2114.8	2214.6	2290.3	2322.1	2353.3	2385.2	2428.0	2467.6	2503.8	2531.6
-55°	1834.3	1940.7	2041.3	2118.0	2186.8	2250.1	2306.6	2344.5	2381.4	2417.0	2444.1
-57.5°	1641.4	1749.9	1848.3	1921.8	1990.6	2054.5	2116.6	2176.3	2230.9	2280.1	2322.0
-60°	1446.1	1537.7	1626.6	1704.3	1775.3	1839.2	1900.7	1959.4	2013.1	2061.4	2103.5
-62.5°	1262.7	1347.6	1417.9	1481.5	1542.5	1601.5	1663.7	1720.9	1772.9	1820.4	1863.9
-65°	1097.4	1170.5	1223.7	1273.5	1320.6	1371.2	1425.9	1476.3	1522.2	1564.8	1604.1
-67.5°	927.3	990.6	1037.4	1080.4	1120.6	1161.0	1204.7	1245.4	1282.9	1318.8	1352.4
-70°	779.6	823.8	856.4	889.4	925.1	961.4	999.1	1033.3	1064.2	1093.6	1120.6
-72.5°	666.0	693.2	716.1	744.3	769.8	796.9	824.9	850.7	874.4	897.4	918.9
-75°	589.2	609.1	627.8	645.3	661.6	681.0	701.2	720.2	738.1	754.9	770.8
-77.5°	535.8	551.2	564.1	576.3	587.8	602.9	618.6	634.0	648.9	661.5	673.3
-80°	483.5	496.0	506.9	517.5	527.7	540.7	553.9	566.8	579.3	590.8	601.7
-82.5°	429.4	439.5	448.8	457.8	466.5	477.5	488.4	499.1	509.3	518.8	528.0
-85°	375.6	383.3	390.6	397.7	404.5	413.5	422.3	431.1	439.6	445.7	451.6
-87.5°	326.6	332.3	337.8	343.3	348.6	355.1	361.5	367.9	374.3	378.4	382.5
-90°	2.9	2.6	2.2	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5



REPORT NUMBER: P731453 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	338.0	340.9	340.2	339.5	340.2	340.9	338.0	335.1	332.2	329.3	324.6
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	3.3	2.9	2.9	2.9	2.9	2.9	3.3	3.6	3.9	4.1	4.3
72.5°	10.2	10.0	10.1	10.2	10.1	10.0	10.2	10.2	10.2	10.1	10.1
70°	16.2	17.2	17.4	17.5	17.4	17.2	16.2	15.3	14.4	14.0	14.5
67.5°	12.1	11.9	11.1	10.2	11.1	11.9	12.1	12.3	12.4	13.1	14.4
65°	7.7	7.5	7.3	7.3	7.3	7.5	7.7	8.0	8.4	9.4	11.0
62.5°	5.5	5.8	5.8	5.8	5.8	5.8	5.5	5.4	5.3	5.8	6.7
60°	4.0	4.4	4.4	4.4	4.4	4.4	4.0	3.7	3.5	3.8	4.1
57.5°	3.8	4.3	4.4	4.4	4.4	4.3	3.8	3.4	2.9	4.1	4.8
55°	11.1	11.4	11.0	10.2	11.0	11.4	11.1	10.4	9.5	12.1	12.6
52.5°	53.1	49.0	42.7	35.0	42.7	49.0	53.1	54.0	52.9	54.1	47.1
50°	184.9	189.8	185.4	171.9	185.4	189.8	184.9	174.7	169.5	169.9	153.0
47.5°	380.8	385.0	371.7	340.9	371.7	385.0	380.8	366.5	363.6	367.7	357.8
45°	797.3	791.1	722.5	579.9	722.5	791.1	797.3	772.1	738.4	680.7	599.4
42.5°	1375.0	1436.3	1472.4	1473.0	1472.4	1436.3	1375.0	1302.1	1299.0	1250.5	1154.9
40°	1779.7	1707.9	1629.5	1617.3	1629.5	1707.9	1779.7	1794.3	1803.4	1863.8	1809.0
37.5°	2009.0	2024.1	2015.4	1846.0	2015.4	2024.1	2009.0	2021.3	2026.5	2036.6	2025.5
35°	2082.0	2195.8	2313.0	2337.1	2313.0	2195.8	2082.0	2048.8	2063.2	2070.0	2083.0
32.5°	2117.3	2156.3	2167.0	2171.0	2167.0	2156.3	2117.3	2091.3	2085.6	2102.6	2130.8
30°	2310.0	2335.5	2331.8	2326.9	2331.8	2335.5	2310.0	2267.1	2174.0	2170.0	2196.8
27.5°	2660.9	2703.1	2721.9	2734.8	2721.9	2703.1	2660.9	2617.9	2526.7	2424.6	2312.7
25°	3163.2	3227.7	3272.0	3291.4	3272.0	3227.7	3163.2	3082.9	2936.0	2783.8	2637.6
22.5°	5122.3	5569.3	6011.7	6240.4	6011.7	5569.3	5122.3	4250.0	3494.7	3230.1	3030.4
20°	12787.4	14718.7	15600.7	15858.2	15600.7	14718.7	12787.4	8575.0	6124.1	4117.2	3558.5
17.5°	29779.1	37100.0	41996.7	37706.2	41996.7	37100.0	29779.1	20758.9	14063.3	7475.6	4839.2
15°	60951.0	79492.3	89867.5	84029.3	89867.5	79492.3	60951.0	41840.2	27898.6	16841.0	8301.3
12.5°	109816.1	138752.7	158187.5	151778.5	158187.5	138752.7	109816.1	77834.8	45105.0	29352.2	16289.3
10°	172848.2	231035.1	269779.4	279357.4	269779.4	231035.1	172848.2	119727.7	78980.0	43746.6	24421.3
7.5°	250835.8	322879.1	379746.4	388547.9	379746.4	322879.1	250835.8	174177.8	109163.9	61787.1	33774.8
5°	327130.7	412168.6	471337.8	486698.6	471337.8	412168.6	327130.7	221234.3	137512.9	81079.3	41646.2
2.5°	374484.9	467041.7	538314.2	569708.0	538314.2	467041.7	374484.9	262993.0	161168.5	93860.7	47765.7
0°	391386.9	488050.7	565381.3	610414.2	565381.3	488050.7	391386.9	283539.0	171290.2	99939.9	51456.1
-2.5°	378282.5	465820.6	531101.4	562406.8	531101.4	465820.6	378282.5	270491.3	167907.3	97459.7	51329.0
-5°	322189.9	409165.2	462278.9	487779.7	462278.9	409165.2	322189.9	227959.1	147543.0	87208.6	47097.2
-7.5°	251762.7	321375.9	367240.6	390440.5	367240.6	321375.9	251762.7	176437.8	115193.4	69708.0	38775.8
-10°	176158.3	231387.3	262303.8	281234.0	262303.8	231387.3	176158.3	125561.9	83536.8	49643.2	27951.1
-12.5°	114617.2	146763.8	164079.1	176207.6	164079.1	146763.8	114617.2	83085.2	52622.8	34465.4	19514.1
-15°	69579.5	85246.4	94647.2	100540.2	94647.2	85246.4	69579.5	48896.2	33827.0	20906.6	10836.7
-17.5°	38835.1	45564.3	50329.0	52965.6	50329.0	45564.3	38835.1	27578.4	18612.4	10501.6	7181.3
-20°	19270.1	23527.0	26323.1	27496.9	26323.1	23527.0	19270.1	12952.2	9344.4	6603.5	5861.6



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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°	8893.2	10030.4	10783.2	11141.8	10783.2	10030.4	8893.2	7224.3	6053.7	5700.0	5448.9
-25°	5933.6	6112.0	6243.2	6300.2	6243.2	6112.0	5933.6	5711.0	5482.0	5369.8	5281.0
-27.5°	5434.7	5529.3	5607.7	5638.7	5607.7	5529.3	5434.7	5349.4	5255.1	5332.2	5413.6
-30°	5323.7	5327.8	5350.0	5350.2	5350.0	5327.8	5323.7	5365.3	5419.5	5573.8	5772.2
-32.5°	5603.5	5542.0	5515.2	5544.0	5515.2	5542.0	5603.5	5708.9	5848.2	5967.2	6052.0
-35°	6030.9	6014.4	6015.8	6046.6	6015.8	6014.4	6030.9	6070.1	6128.8	6185.3	6195.2
-37.5°	6252.7	6265.7	6280.4	6284.1	6280.4	6265.7	6252.7	6249.9	6260.8	6276.9	6186.9
-40°	6314.2	6339.7	6359.0	6365.7	6359.0	6339.7	6314.2	6286.0	6237.4	6165.3	5958.2
-42.5°	6237.9	6288.7	6315.6	6322.0	6315.6	6288.7	6237.9	6162.9	5992.9	5748.8	5317.8
-45°	5806.7	6032.8	6160.7	6195.2	6160.7	6032.8	5806.7	5495.0	5065.9	4570.9	4033.3
-47.5°	4386.3	4741.3	4988.3	5102.5	4988.3	4741.3	4386.3	3989.9	3582.5	3176.4	2773.7
-50°	2770.2	2828.7	2872.4	2899.5	2872.4	2828.7	2770.2	2708.4	2649.5	2591.2	2524.4
-52.5°	2555.7	2577.2	2589.7	2595.0	2589.7	2577.2	2555.7	2531.6	2503.8	2467.6	2428.0
-55°	2467.3	2487.2	2495.9	2497.3	2495.9	2487.2	2467.3	2444.1	2417.0	2381.4	2344.5
-57.5°	2358.2	2388.5	2401.9	2404.1	2401.9	2388.5	2358.2	2322.0	2280.1	2230.9	2176.3
-60°	2139.1	2168.4	2182.9	2188.4	2182.9	2168.4	2139.1	2103.5	2061.4	2013.1	1959.4
-62.5°	1901.7	1933.6	1943.3	1942.2	1943.3	1933.6	1901.7	1863.9	1820.4	1772.9	1720.9
-65°	1638.5	1667.7	1676.2	1675.6	1676.2	1667.7	1638.5	1604.1	1564.8	1522.2	1476.3
-67.5°	1382.2	1408.0	1416.9	1419.1	1416.9	1408.0	1382.2	1352.4	1318.8	1282.9	1245.4
-70°	1144.4	1164.8	1169.9	1170.0	1169.9	1164.8	1144.4	1120.6	1093.6	1064.2	1033.3
-72.5°	938.5	956.1	959.1	958.7	959.1	956.1	938.5	918.9	897.4	874.4	850.7
-75°	785.7	799.6	800.1	798.4	800.1	799.6	785.7	770.8	754.9	738.1	720.2
-77.5°	684.3	694.7	696.8	697.9	696.8	694.7	684.3	673.3	661.5	648.9	634.0
-80°	612.2	622.2	621.9	620.7	621.9	622.2	612.2	601.7	590.8	579.3	566.8
-82.5°	536.8	545.3	545.4	544.9	545.4	545.3	536.8	528.0	518.8	509.3	499.1
-85°	457.3	462.7	462.5	461.9	462.5	462.7	457.3	451.6	445.7	439.6	431.1
-87.5°	386.4	390.3	390.5	390.5	390.5	390.3	386.4	382.5	378.4	374.3	367.9
-90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	319.8	315.1	310.3	304.9	299.4	294.0	288.5	280.5	272.5	264.4	256.4
87.5°	2.2	2.5	2.8	2.8	2.8	2.8	2.9	3.3	3.7	4.0	4.4
85°	2.2	2.6	2.9	2.9	2.9	2.9	2.9	3.3	3.7	4.0	4.4
82.5°	2.8	2.8	2.9	3.2	3.4	3.5	3.6	3.7	3.9	4.1	4.4
80°	2.9	2.9	3.0	3.3	3.7	4.1	4.4	4.5	4.4	4.4	4.5
77.5°	2.9	2.9	3.0	3.4	3.7	4.1	4.5	4.8	5.0	5.2	5.2
75°	4.3	4.3	4.3	4.6	4.6	4.4	4.5	4.9	5.2	5.6	5.8
72.5°	9.9	9.5	9.2	9.1	8.9	9.0	8.7	8.0	7.2	6.4	6.0
70°	14.9	15.3	16.1	17.2	17.4	16.9	16.4	15.0	12.4	10.7	9.6
67.5°	15.6	16.8	18.8	21.1	22.3	23.2	25.0	25.9	24.8	22.0	16.9
65°	12.7	14.7	16.9	18.8	21.2	24.4	30.9	34.5	35.4	34.3	28.6
62.5°	8.0	9.6	11.6	13.9	16.5	20.9	29.4	36.4	42.3	44.1	37.9
60°	4.3	4.6	7.0	9.3	11.5	16.4	25.1	34.3	44.1	45.3	43.4
57.5°	4.8	5.5	7.6	8.8	9.0	14.7	22.4	29.8	38.9	44.1	44.4
55°	10.6	12.4	14.7	15.1	14.7	21.1	25.0	29.4	37.8	43.0	46.3
52.5°	34.5	44.1	44.5	32.6	35.1	43.0	37.5	40.2	47.3	54.1	54.6
50°	136.5	139.6	125.7	102.4	111.8	99.7	88.3	74.0	84.1	86.2	74.5
47.5°	338.5	310.9	277.1	250.5	244.1	240.7	209.1	170.3	181.7	146.1	128.7
45°	575.3	533.7	479.2	433.9	397.7	381.4	374.3	349.9	326.7	295.0	207.1
42.5°	1079.4	884.8	723.9	653.9	558.4	518.3	496.1	492.3	481.4	461.1	394.3
40°	1689.8	1673.0	1392.1	1014.3	840.2	674.7	618.3	593.9	593.7	590.1	553.6
37.5°	2010.3	1968.3	1892.0	1716.2	1314.1	1029.7	820.1	705.9	677.2	675.7	650.4
35°	2084.3	2074.6	2072.0	1992.6	1861.5	1582.3	1217.7	917.4	778.1	746.4	732.5
32.5°	2139.2	2157.4	2166.9	2150.3	2160.5	2152.0	1804.3	1338.5	929.5	835.4	801.7
30°	2218.5	2244.9	2257.1	2296.9	2376.6	2411.0	2409.0	1863.3	1296.6	929.4	876.7
27.5°	2321.9	2343.1	2369.3	2502.8	2571.6	2619.6	2649.0	2491.0	1703.6	1188.4	964.3
25°	2532.4	2465.5	2617.6	2755.0	2815.0	2841.3	2917.5	2846.5	2309.0	1492.8	1055.3
22.5°	2857.5	2765.7	2831.2	3055.4	3077.7	3094.7	3149.7	3166.6	2914.0	1932.7	1320.7
20°	3256.8	3086.4	3070.2	3187.7	3299.6	3319.1	3378.5	3406.1	3172.1	2470.2	1621.3
17.5°	3779.5	3438.5	3274.9	3312.3	3442.9	3509.4	3570.9	3589.7	3426.8	2954.1	1923.6
15°	4690.7	3846.1	3541.4	3470.6	3556.3	3669.4	3750.1	3810.1	3655.4	3268.0	2325.7
12.5°	7624.3	4311.5	3798.5	3583.0	3627.5	3785.8	3909.4	3983.6	3835.4	3478.2	2723.2
10°	10971.6	5518.3	4141.1	3798.6	3721.9	3859.9	4020.2	4070.1	3957.1	3651.6	3058.8
7.5°	16516.6	7086.7	4464.5	4007.1	3842.5	3922.8	4067.9	4129.9	4060.3	3788.5	3335.7
5°	20504.4	8364.6	4775.9	4213.6	3976.9	4021.7	4121.9	4191.5	4146.2	3894.6	3557.2
2.5°	23620.6	9556.1	5048.4	4394.8	4104.4	4135.6	4231.0	4255.6	4184.1	3908.0	3647.0
0°	25665.4	10098.6	5157.9	4484.7	4200.6	4225.4	4423.5	4323.0	4194.8	3891.7	3693.5
-2.5°	25458.0	9832.8	5206.1	4546.6	4293.2	4340.4	4576.4	4581.5	4291.2	3932.7	3729.6
-5°	24109.3	9822.9	5312.0	4643.3	4407.9	4473.0	4709.8	4740.7	4376.6	3988.5	3719.2
-7.5°	19500.4	8796.7	5326.0	4714.8	4527.4	4623.8	4828.5	4805.3	4477.9	4151.1	3763.8
-10°	13045.7	6999.2	5266.7	4790.5	4665.2	4796.5	4953.7	4867.2	4579.5	4303.1	3745.1
-12.5°	9642.0	5906.3	5186.7	4842.8	4824.5	5017.5	5096.7	4927.9	4689.0	4443.8	3655.7
-15°	6727.0	5634.0	5172.5	5001.6	5053.0	5214.5	5218.1	4966.6	4748.6	4537.8	3490.1
-17.5°	5873.0	5422.5	5163.8	5153.7	5310.7	5372.6	5243.4	5002.7	4772.0	4390.1	3183.3
-20°	5479.9	5274.0	5302.8	5414.6	5542.1	5535.6	5259.8	5028.6	4754.5	3986.6	2830.7



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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°	5304.4	5350.5	5478.8	5698.2	5733.4	5546.9	5284.7	5030.6	4695.2	3510.6	2465.0
-25°	5379.0	5554.7	5789.5	5881.5	5808.2	5541.2	5296.5	4980.3	4183.0	3039.2	2145.6
-27.5°	5623.1	5881.2	6034.8	6008.3	5791.3	5532.4	5246.0	4788.8	3591.4	2623.5	2130.5
-30°	5942.2	6077.3	6126.5	6019.7	5752.7	5482.0	5162.1	4089.7	3057.6	2277.4	2095.4
-32.5°	6143.1	6141.7	6091.3	5915.2	5683.8	5406.6	4474.8	3389.1	2507.5	2227.2	2070.7
-35°	6190.9	6067.1	5900.4	5738.9	5622.4	4720.3	3686.7	2748.9	2346.4	2175.9	2047.6
-37.5°	6043.7	5831.6	5635.4	5391.1	4696.6	3829.1	2865.9	2433.3	2265.9	2145.9	2028.4
-40°	5700.7	5471.0	4912.2	4318.2	3610.3	2798.6	2495.1	2329.3	2220.8	2116.9	2008.8
-42.5°	4835.2	4329.1	3790.9	3179.0	2642.5	2510.4	2380.5	2276.6	2177.7	2084.7	1933.0
-45°	3592.9	3139.4	2693.7	2590.4	2470.9	2390.0	2317.8	2229.9	2141.4	1996.5	1834.3
-47.5°	2648.7	2578.6	2497.6	2440.3	2378.8	2316.2	2259.7	2185.0	2034.4	1880.3	1713.3
-50°	2467.9	2435.4	2397.8	2357.3	2311.4	2259.5	2166.1	2050.2	1902.2	1745.4	1585.2
-52.5°	2385.2	2353.3	2322.1	2290.3	2214.6	2114.8	2009.6	1891.0	1753.4	1601.0	1447.5
-55°	2306.6	2250.1	2186.8	2118.0	2041.3	1940.7	1834.3	1718.6	1590.1	1446.5	1309.3
-57.5°	2116.6	2054.5	1990.6	1921.8	1848.3	1749.9	1641.4	1530.4	1418.8	1291.4	1169.4
-60°	1900.7	1839.2	1775.3	1704.3	1626.6	1537.7	1446.1	1347.5	1242.0	1144.7	1046.3
-62.5°	1663.7	1601.5	1542.5	1481.5	1417.9	1347.6	1262.7	1179.9	1095.5	1008.3	917.5
-65°	1425.9	1371.2	1320.6	1273.5	1223.7	1170.5	1097.4	1022.0	944.9	866.0	785.9
-67.5°	1204.7	1161.0	1120.6	1080.4	1037.4	990.6	927.3	859.7	799.0	739.9	677.5
-70°	999.1	961.4	925.1	889.4	856.4	823.8	779.6	729.2	677.0	633.6	593.4
-72.5°	824.9	796.9	769.8	744.3	716.1	693.2	666.0	632.6	598.2	562.8	530.0
-75°	701.2	681.0	661.6	645.3	627.8	609.1	589.2	564.4	539.6	514.9	490.1
-77.5°	618.6	602.9	587.8	576.3	564.1	551.2	535.8	514.3	492.8	471.3	449.4
-80°	553.9	540.7	527.7	517.5	506.9	496.0	483.5	464.8	446.0	427.0	407.8
-82.5°	488.4	477.5	466.5	457.8	448.8	439.5	429.4	413.3	397.1	381.0	364.8
-85°	422.3	413.5	404.5	397.7	390.6	383.3	375.6	362.3	349.0	335.6	322.1
-87.5°	361.5	355.1	348.6	343.3	337.8	332.3	326.6	316.2	305.8	295.5	285.1
-90°	1.5	1.5	1.5	1.9	2.2	2.6	2.9	3.3	3.7	4.0	4.4



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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°	247.0	237.5	228.1	218.6	205.9	193.1	180.4	167.6	154.1	140.6	127.1
87.5°	4.4	4.4	4.4	4.4	4.8	5.1	5.5	5.8	5.8	5.8	5.8
85°	4.4	4.4	4.4	4.4	4.8	5.1	5.5	5.8	5.8	5.8	5.8
82.5°	4.4	4.4	4.4	4.4	4.8	5.1	5.5	5.8	5.9	5.8	5.8
80°	4.7	4.8	4.9	4.9	5.0	5.2	5.5	5.9	6.2	6.4	6.2
77.5°	5.2	5.3	5.5	5.7	5.8	5.9	6.0	6.1	6.6	6.9	6.9
75°	5.8	5.7	5.7	6.1	6.5	6.6	6.7	7.0	7.5	7.6	7.6
72.5°	6.2	6.2	6.1	6.3	7.1	7.5	7.6	7.9	8.7	9.0	8.6
70°	8.5	7.3	6.9	7.7	8.4	8.6	8.8	9.5	10.1	10.5	10.2
67.5°	12.3	10.9	9.5	9.6	10.4	10.7	10.3	11.5	12.4	12.0	11.8
65°	22.5	17.2	13.2	14.0	13.8	13.2	12.9	14.1	15.0	14.8	13.5
62.5°	31.7	25.6	21.6	20.0	18.9	17.7	16.0	17.9	18.0	17.6	16.0
60°	39.9	33.3	31.1	29.9	26.5	23.2	22.2	22.0	22.2	20.6	19.0
57.5°	42.2	39.7	42.3	41.1	37.2	31.5	29.9	29.1	26.6	24.8	22.3
55°	44.3	44.8	54.4	54.6	49.6	42.6	40.5	38.2	32.4	29.3	26.3
52.5°	51.3	58.4	68.3	70.2	64.8	57.0	55.8	48.1	42.2	34.1	31.8
50°	67.8	81.2	89.2	89.7	82.0	79.1	72.6	63.9	52.6	40.5	37.8
47.5°	114.5	125.8	118.8	114.6	105.2	104.9	96.5	81.5	63.7	50.8	44.4
45°	207.9	197.2	170.8	148.8	140.1	139.0	125.1	100.2	80.9	63.4	51.4
42.5°	321.6	298.8	258.6	187.9	188.5	179.1	156.8	128.1	98.9	76.7	61.2
40°	476.0	418.6	363.0	289.7	244.1	223.7	196.8	159.5	118.0	92.1	73.1
37.5°	617.0	545.7	484.0	390.5	312.8	279.8	240.7	192.9	142.6	111.3	85.3
35°	702.3	661.1	591.1	488.1	401.4	340.4	287.8	230.5	173.6	131.0	97.7
32.5°	775.7	751.1	679.7	581.4	484.9	405.3	341.8	269.6	203.9	151.0	110.3
30°	844.0	818.0	767.7	668.0	564.1	478.3	396.2	307.1	233.6	171.3	124.0
27.5°	915.4	885.3	850.5	748.7	640.4	546.7	442.4	342.9	262.4	193.4	140.7
25°	988.9	951.1	912.6	828.4	710.9	601.1	486.6	377.1	292.1	217.7	157.2
22.5°	1072.5	1014.4	974.4	907.1	774.9	656.0	530.9	414.8	321.2	241.1	173.5
20°	1155.3	1075.4	1033.9	970.8	838.4	710.9	576.3	450.4	348.6	263.5	189.5
17.5°	1266.4	1139.9	1081.1	1015.6	898.2	763.8	620.8	483.8	374.2	284.9	205.1
15°	1527.3	1209.3	1128.2	1059.0	952.5	814.5	664.1	514.9	398.1	305.0	219.5
12.5°	1800.4	1278.2	1175.2	1100.7	1001.5	862.5	705.5	543.6	420.2	323.4	232.0
10°	2075.7	1345.5	1221.7	1140.4	1045.5	907.5	744.7	573.2	444.3	340.1	243.5
7.5°	2342.7	1410.4	1267.0	1178.0	1084.9	946.4	781.7	607.6	467.9	355.6	253.8
5°	2571.4	1467.8	1312.5	1218.5	1121.2	978.2	814.1	639.9	490.1	369.8	263.1
2.5°	2681.9	1513.6	1356.5	1257.5	1154.1	1005.6	841.9	669.7	510.5	382.4	271.3
0°	2745.0	1553.2	1397.3	1293.8	1183.1	1028.7	865.5	696.5	528.9	393.4	278.3
-2.5°	2740.4	1590.7	1436.4	1332.0	1224.5	1060.1	884.8	711.4	543.1	406.3	287.8
-5°	2691.2	1622.8	1472.1	1367.5	1260.9	1086.6	900.0	722.9	554.8	417.2	296.1
-7.5°	2656.0	1659.5	1507.3	1400.8	1291.7	1107.3	910.9	731.0	564.0	426.0	303.0
-10°	2580.4	1695.8	1542.8	1431.9	1310.4	1120.9	918.2	735.8	570.7	432.6	308.5
-12.5°	2446.8	1724.4	1573.7	1459.0	1322.4	1128.7	926.5	740.8	575.3	436.9	312.5
-15°	2253.0	1744.8	1599.8	1481.8	1328.7	1131.3	930.0	743.6	579.3	439.3	315.0
-17.5°	1996.9	1756.6	1620.6	1500.1	1329.3	1128.8	928.4	742.5	580.5	440.2	316.8
-20°	1955.7	1771.2	1636.4	1513.5	1324.0	1121.3	921.6	737.2	578.8	438.6	317.7



REPORT NUMBER: P731453 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1957.6	1789.9	1653.8	1506.0	1311.7	1108.9	909.5	727.7	574.0	434.7	316.9
-25°	1951.7	1802.4	1669.3	1497.9	1292.7	1091.3	893.9	714.0	566.2	428.4	314.2
-27.5°	1953.1	1810.6	1681.6	1482.4	1274.0	1067.6	875.1	702.4	555.9	419.7	309.8
-30°	1953.6	1819.4	1664.3	1458.4	1247.9	1041.2	851.4	687.5	543.8	411.5	303.5
-32.5°	1942.3	1825.3	1632.1	1422.8	1213.4	1008.9	824.6	669.0	528.8	402.8	300.1
-35°	1932.6	1790.4	1591.3	1378.9	1171.3	975.7	797.5	647.0	511.1	391.9	296.8
-37.5°	1914.8	1727.8	1534.8	1326.3	1122.0	937.0	771.2	624.3	490.6	378.7	292.3
-40°	1839.1	1653.5	1461.1	1265.0	1071.8	892.7	740.2	598.4	471.7	363.2	286.5
-42.5°	1754.6	1566.2	1379.2	1194.2	1017.5	853.2	704.8	568.3	451.2	352.0	279.4
-45°	1652.4	1470.8	1290.1	1122.0	959.2	808.8	666.6	535.3	427.9	342.4	273.3
-47.5°	1542.2	1367.3	1200.9	1044.2	903.6	759.6	623.6	505.9	402.3	331.3	269.3
-50°	1423.1	1262.3	1110.3	970.4	839.0	706.2	578.9	473.6	386.6	317.7	264.5
-52.5°	1300.7	1157.8	1022.4	895.2	770.3	647.8	539.0	439.9	368.9	308.0	258.8
-55°	1177.1	1057.7	935.8	815.1	697.3	595.0	495.9	417.3	349.4	299.5	252.5
-57.5°	1063.0	957.9	843.3	730.1	630.2	540.5	461.1	392.5	336.3	290.2	247.1
-60°	948.1	849.0	745.6	652.6	566.0	492.9	430.3	370.2	324.6	280.4	240.5
-62.5°	826.7	739.5	660.0	577.7	512.1	454.8	400.4	355.7	311.9	271.6	233.1
-65°	716.1	645.6	576.3	522.7	469.0	420.3	382.3	340.2	300.1	262.0	225.1
-67.5°	614.4	569.2	523.7	474.4	434.9	398.7	362.8	325.5	288.0	251.7	216.4
-70°	552.4	511.1	477.4	444.3	410.1	376.4	344.5	310.5	275.1	240.4	207.1
-72.5°	502.0	474.0	446.1	416.2	385.5	355.3	325.8	294.6	260.9	228.4	197.2
-75°	464.7	439.6	414.9	389.0	360.9	333.3	305.6	277.0	245.9	215.8	186.7
-77.5°	427.2	405.1	383.4	360.5	334.6	309.2	284.2	258.7	230.1	202.4	175.8
-80°	388.4	369.0	349.8	330.0	307.0	284.4	262.0	239.3	213.5	188.5	164.3
-82.5°	348.3	331.8	315.3	298.4	278.3	258.4	238.8	219.1	196.3	174.1	153.7
-85°	308.1	294.1	280.1	265.9	248.8	231.9	216.2	200.3	181.4	163.1	145.1
-87.5°	274.2	263.1	252.1	241.0	226.8	212.6	198.4	184.1	167.9	152.0	136.2
-90°	4.4	4.4	4.4	4.4	4.8	5.1	5.5	5.8	5.8	5.8	5.8



REPORT NUMBER: P731453 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	113.6	94.7	75.7	56.8	37.9	23.3	8.7
87.5°	5.8	6.0	6.1	6.1	6.1	7.5	8.7
85°	5.8	6.1	6.3	6.4	6.3	7.8	8.7
82.5°	5.8	6.3	6.6	6.7	6.6	8.0	8.7
80°	6.0	6.5	6.8	6.9	6.9	8.3	8.7
77.5°	6.8	6.9	7.1	7.2	7.2	8.6	8.7
75°	7.7	8.0	7.5	7.5	7.5	8.8	8.7
72.5°	8.6	9.0	8.6	7.8	7.8	9.1	8.7
70°	9.7	10.1	9.7	8.3	8.2	9.4	8.7
67.5°	11.6	11.2	10.8	9.3	8.6	9.7	8.7
65°	13.6	12.9	11.9	10.2	9.0	10.0	8.7
62.5°	15.8	15.0	13.0	11.2	9.4	10.3	8.7
60°	18.1	17.2	14.2	12.2	9.9	10.6	8.7
57.5°	21.6	19.5	16.2	13.2	10.9	10.9	8.7
55°	25.5	21.9	18.3	14.2	11.9	11.2	8.7
52.5°	29.7	24.6	20.4	15.2	12.9	11.5	8.7
50°	34.0	28.5	22.6	16.2	14.0	11.8	8.7
47.5°	38.8	32.4	24.8	17.4	15.2	12.1	8.7
45°	44.9	36.5	27.0	19.1	16.3	12.4	8.7
42.5°	51.3	40.7	29.3	20.8	17.5	12.7	8.7
40°	58.0	45.0	32.1	23.0	18.7	13.1	8.7
37.5°	64.9	49.3	35.5	25.6	19.9	13.4	8.7
35°	72.0	54.5	38.8	28.2	21.2	13.7	8.7
32.5°	80.2	60.2	42.1	30.9	22.5	14.0	8.7
30°	90.4	65.9	45.4	33.6	23.8	14.3	8.7
27.5°	100.6	71.6	50.1	36.3	25.1	14.6	8.7
25°	110.7	77.2	55.0	39.0	26.4	14.9	8.7
22.5°	120.6	83.3	59.8	41.8	27.6	15.2	8.7
20°	130.3	90.2	64.5	44.5	28.9	15.5	8.7
17.5°	140.1	96.9	69.2	47.2	30.2	15.8	8.7
15°	149.5	103.3	73.7	49.9	31.4	16.1	8.7
12.5°	158.4	109.4	78.1	52.5	32.6	16.4	8.7
10°	166.7	115.3	82.4	55.0	33.8	16.6	8.7
7.5°	174.4	120.8	86.5	57.5	34.9	16.9	8.7
5°	181.5	126.1	90.4	59.8	36.0	17.1	8.7
2.5°	188.0	131.0	94.1	62.0	37.0	17.3	8.7
0°	193.8	135.5	97.6	64.1	37.9	17.5	8.7
-2.5°	200.7	141.1	102.0	67.5	40.0	18.3	8.7
-5°	206.9	146.4	106.1	70.7	41.9	19.2	8.7
-7.5°	212.3	151.2	109.9	73.7	43.8	20.0	8.7
-10°	217.0	155.7	113.5	76.6	45.6	20.8	8.7
-12.5°	221.0	159.7	116.7	79.3	47.3	21.5	8.7
-15°	224.1	163.3	119.7	81.7	48.8	22.2	8.7
-17.5°	226.5	166.4	122.5	84.0	50.3	22.9	8.7
-20°	228.6	169.0	124.9	86.0	51.6	23.6	8.7



REPORT NUMBER: P731453 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	230.5	171.2	127.0	87.8	52.7	24.2	8.7
-25°	231.5	173.3	128.9	89.3	53.7	24.8	8.7
-27.5°	231.5	175.1	130.4	90.7	54.6	25.3	8.7
-30°	230.5	176.2	131.7	91.7	55.3	25.8	8.7
-32.5°	228.4	176.9	132.8	92.5	55.9	26.3	8.7
-35°	227.7	177.0	133.4	93.1	56.3	26.7	8.7
-37.5°	227.3	176.8	133.7	93.4	56.6	27.0	8.7
-40°	226.1	176.8	133.7	93.4	56.6	27.3	8.7
-42.5°	224.1	176.2	133.3	93.2	56.6	27.6	8.7
-45°	221.5	175.2	132.6	92.7	56.3	27.8	8.7
-47.5°	218.2	173.6	131.5	91.9	55.9	27.9	8.7
-50°	215.4	171.6	130.1	90.9	55.4	28.0	8.7
-52.5°	212.2	169.1	128.2	89.8	54.6	28.1	8.7
-55°	208.4	166.1	126.1	88.4	53.8	28.1	8.7
-57.5°	204.0	162.7	123.5	86.7	52.7	28.0	8.7
-60°	199.0	158.9	120.6	84.8	51.5	27.9	8.7
-62.5°	193.5	154.6	117.5	82.6	51.0	27.8	8.7
-65°	187.4	149.8	114.1	80.3	50.3	27.6	8.7
-67.5°	180.8	144.7	110.3	77.7	49.6	27.3	8.7
-70°	173.7	139.2	106.2	74.9	48.6	27.1	8.7
-72.5°	166.1	133.3	101.9	72.9	47.6	26.7	8.7
-75°	158.0	127.0	97.3	71.1	46.5	26.3	8.7
-77.5°	149.5	120.5	93.9	69.1	45.3	25.9	8.7
-80°	140.6	115.1	90.6	66.9	44.0	25.5	8.7
-82.5°	134.0	110.3	87.2	64.6	42.6	25.0	8.7
-85°	127.5	105.3	83.5	62.1	41.1	24.4	8.7
-87.5°	120.7	100.1	79.7	59.5	39.5	23.9	8.7
-90°	5.8	5.8	5.8	5.8	5.8	7.3	8.7

(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

