

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: EPHESUS

Report Number: P623245

Luminaire Tested: **EPH-VN-07-E-750-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623245  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-07-E-750-U-33  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	60083.7 lumens	Max Intensity:	559088.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	112.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

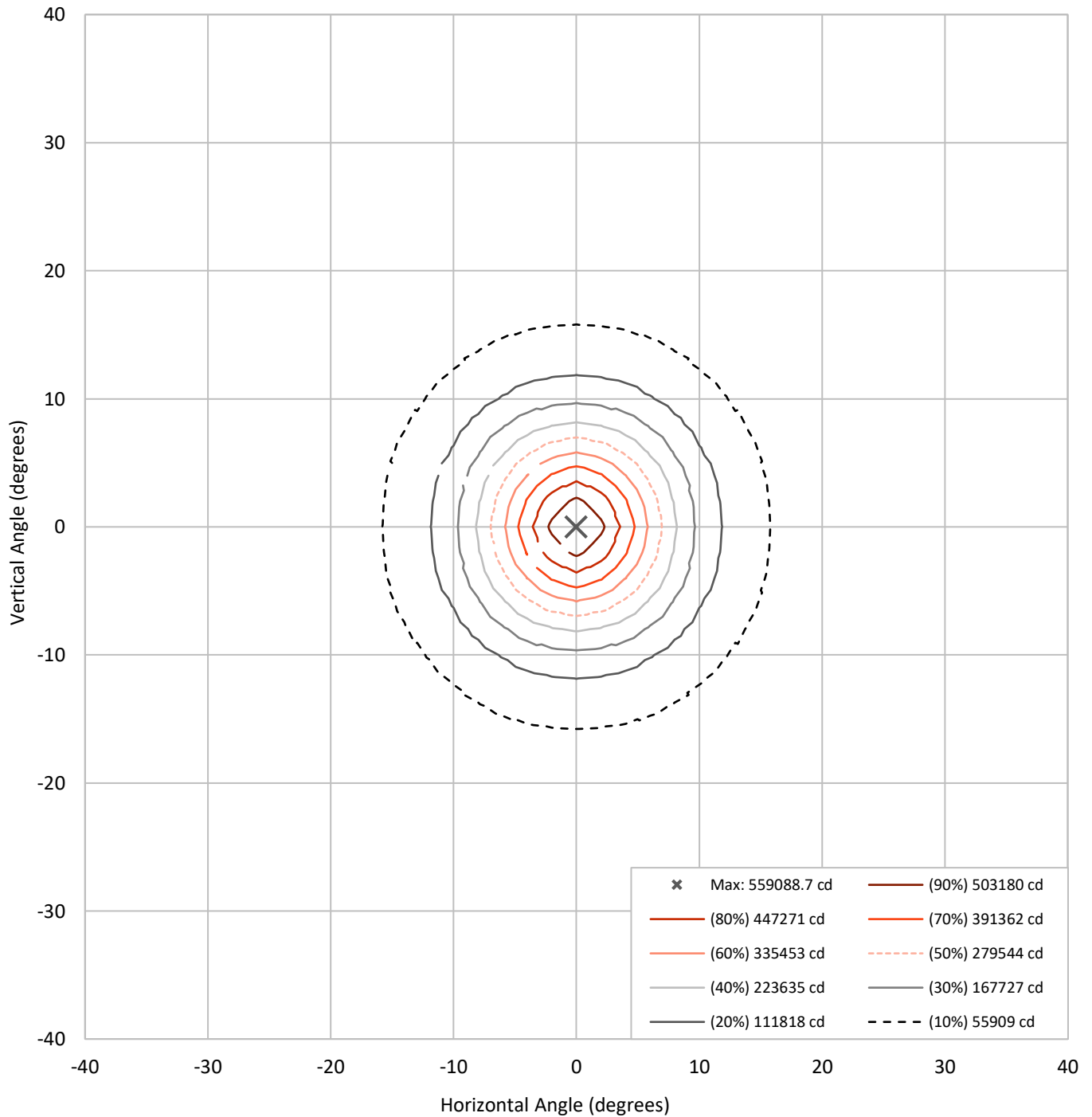
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	13138.6 lumens	Field Lumens:	30592.3 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Candela Plot





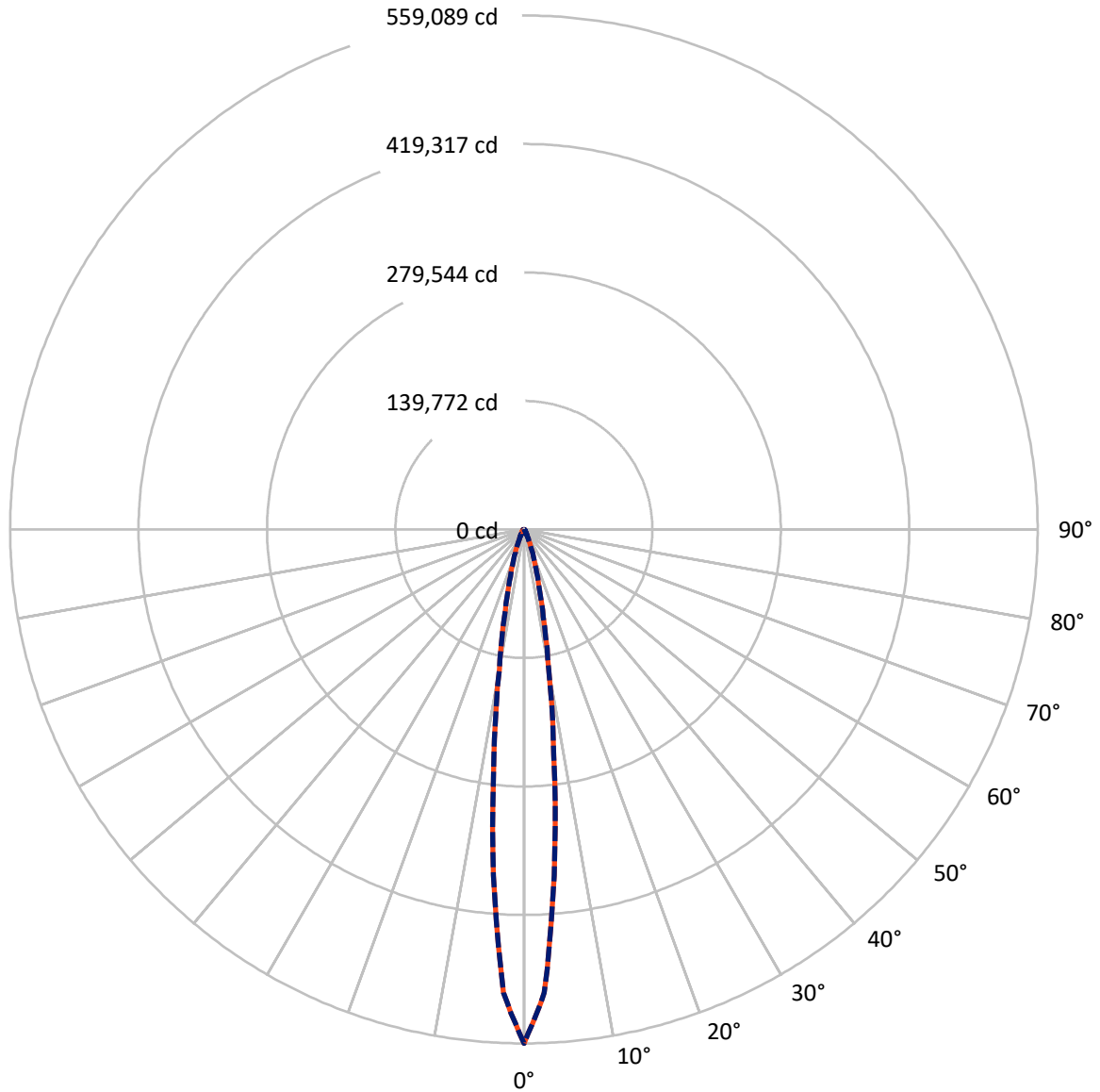
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### Lumen Table

90	1.0	7.7	20.6	33.6	39.0	33.6	20.6	7.7	1.0										
80																			
70																			
60	3.5	3.9	8.3	13.8	19.6	24.7	28.6	30.6	30.6	28.6	24.7	19.6	13.8	8.3	3.9				3.5
50		6.2	12.9	20.8	28.7	35.7	41.1	44.1	44.1	41.1	35.7	28.7	20.8	12.9	6.2				
40	6.4	8.4	16.9	26.7	36.9	47.4	57.3	63.6	63.6	57.3	47.4	36.9	26.7	16.9	8.4				6.4
30		10.2	20.2	31.9	46.8	67.0	91.5	112.4	112.4	91.5	67.0	46.8	31.9	20.2	10.2				
20	8.7	11.7	22.7	37.1	60.7	107.0	218.5	373.9	373.9	218.5	107.0	60.7	37.1	22.7	11.7				8.7
10		12.7	24.6	42.2	78.0	206.0	740.8	1839.6	1839.6	740.8	206.0	78.0	42.2	24.6	12.7				
0	9.5	13.2	25.5	45.4	93.1	343.2	1792.5	7870.5	7870.5	1792.5	343.2	93.1	45.4	25.5	13.2				9.5
-10		13.2	25.5	45.4	93.1	343.2	1792.5	7870.5	7870.5	1792.5	343.2	93.1	45.4	25.5	13.2				
-20	8.7	12.7	24.6	42.2	78.0	206.0	740.8	1839.6	1839.6	740.8	206.0	78.0	42.2	24.6	12.7				8.7
-30		11.7	22.7	37.1	60.7	107.0	218.5	373.9	373.9	218.5	107.0	60.7	37.1	22.7	11.7				
-40	6.4	10.2	20.2	31.9	46.8	67.0	91.5	112.4	112.4	91.5	67.0	46.8	31.9	20.2	10.2				6.4
-50		8.4	16.9	26.7	36.9	47.4	57.3	63.6	63.6	57.3	47.4	36.9	26.7	16.9	8.4				
-60	3.5	6.2	12.9	20.8	28.7	35.7	41.1	44.1	44.1	41.1	35.7	28.7	20.8	12.9	6.2				3.5
-70		3.9	8.3	13.8	19.6	24.7	28.6	30.6	30.6	28.6	24.7	19.6	13.8	8.3	3.9				
-80	1.0	7.7	20.6	33.6	39.0	33.6	20.6	7.7	1.0										
-90																			

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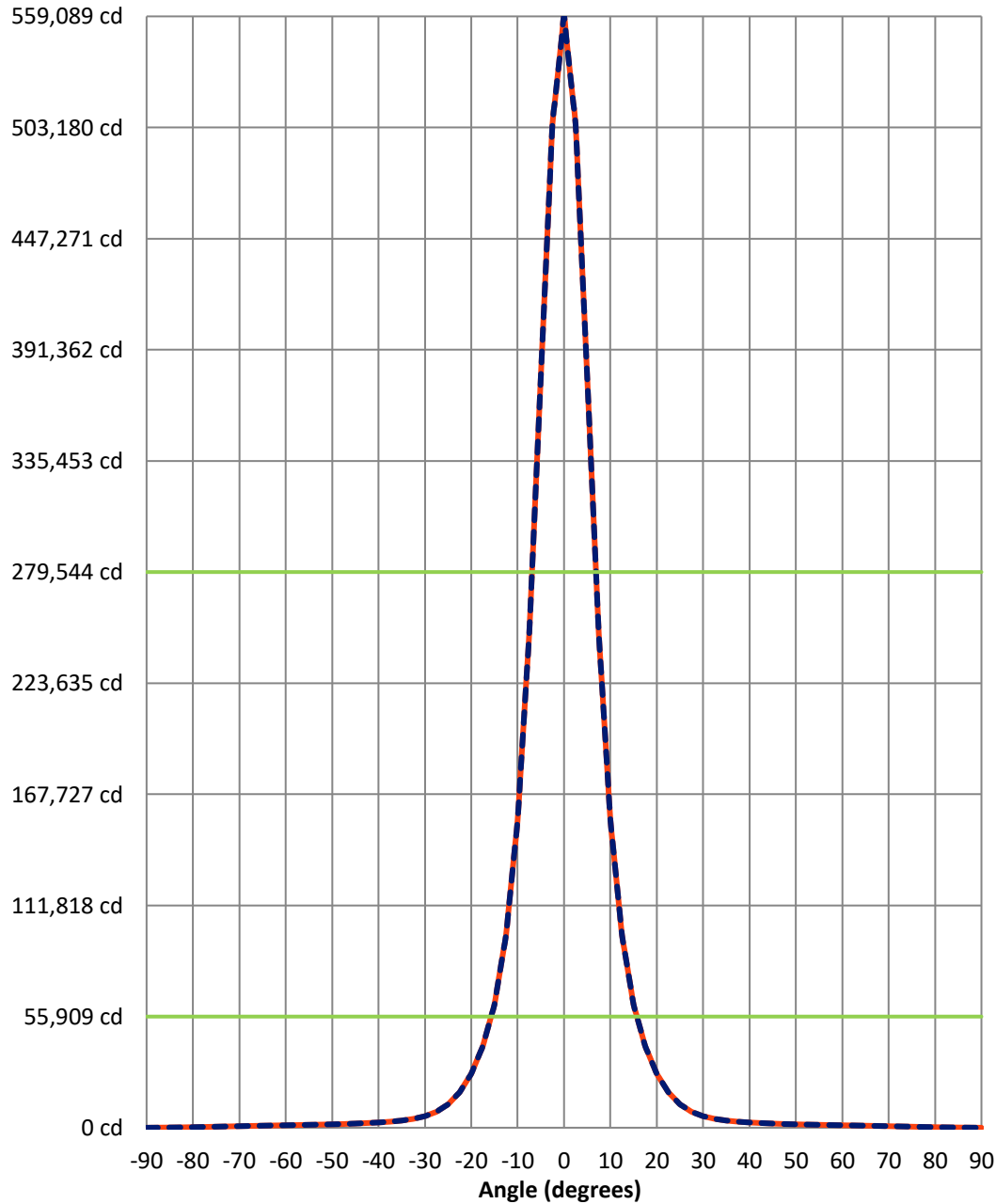
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 13.8°  
V Angle: 13.8°  
Lumens: 13138.6  
Efficiency: 21.9%

**Field:**  
H Angle: 31.4°  
V Angle: 31.4°  
Lumens: 30592.3  
Efficiency: 50.9%

**Spill:**  
Lumens: 29491.5  
Efficiency: 49.1%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	43.8	43.8
85°	112.5	112.5	112.5	112.5	112.5	112.5	106.3	106.3	106.3	100.0	100.0
82.5°	187.5	187.5	187.5	187.5	181.3	181.3	181.3	175.0	175.0	168.8	168.8
80°	287.5	287.5	287.5	287.5	281.3	275.0	275.0	268.8	262.5	256.3	250.0
77.5°	393.8	393.8	393.8	387.5	387.5	381.3	375.0	368.8	362.5	350.0	343.8
75°	518.8	518.8	518.8	512.6	506.3	500.1	493.8	481.3	475.1	462.6	450.1
72.5°	650.1	650.1	650.1	643.8	637.6	625.1	618.8	606.3	593.8	575.1	562.6
70°	775.1	775.1	775.1	768.8	756.3	750.1	737.6	725.1	712.6	693.8	675.1
67.5°	900.1	900.1	900.1	887.6	881.4	875.1	862.6	843.8	831.3	812.6	787.6
65°	1018.9	1018.9	1012.6	1006.4	1000.1	987.6	975.1	962.6	943.9	925.1	900.1
62.5°	1137.6	1137.6	1131.4	1125.1	1118.9	1106.4	1087.6	1075.1	1050.1	1031.4	1006.4
60°	1237.6	1237.6	1231.4	1225.1	1218.9	1206.4	1193.9	1175.1	1156.4	1137.6	1112.6
57.5°	1343.9	1343.9	1337.7	1331.4	1318.9	1306.4	1293.9	1275.1	1250.1	1225.1	1206.4
55°	1462.7	1462.7	1456.4	1443.9	1431.4	1418.9	1400.2	1375.2	1350.2	1325.2	1293.9
52.5°	1575.2	1575.2	1568.9	1556.4	1543.9	1531.4	1506.4	1487.7	1456.4	1425.2	1387.7
50°	1712.7	1712.7	1700.2	1687.7	1675.2	1650.2	1625.2	1593.9	1562.7	1525.2	1493.9
47.5°	1869.0	1869.0	1856.5	1844.0	1819.0	1794.0	1756.5	1718.9	1681.4	1637.7	1587.7
45°	2087.7	2087.7	2069.0	2044.0	2012.7	1969.0	1919.0	1869.0	1812.7	1762.7	1706.4
42.5°	2356.5	2356.5	2331.5	2300.3	2256.5	2200.3	2131.5	2062.7	1987.7	1906.5	1831.5
40°	2637.8	2637.8	2606.5	2575.3	2525.3	2456.5	2381.5	2294.0	2200.3	2094.0	2000.2
37.5°	3025.3	3025.3	2981.6	2925.3	2850.3	2756.6	2644.1	2544.0	2437.8	2319.0	2194.0
35°	3600.4	3600.4	3531.7	3437.9	3319.1	3162.9	2994.1	2850.3	2687.8	2544.0	2406.5
32.5°	4450.5	4450.5	4331.7	4194.2	3994.2	3744.2	3500.4	3269.1	3025.3	2819.1	2619.0
30°	5788.2	5788.2	5588.1	5338.1	5000.6	4569.3	4206.7	3831.7	3475.4	3175.4	2900.3
27.5°	8013.4	7919.7	7644.6	7188.3	6563.2	5788.2	5231.8	4600.5	4100.5	3612.9	3256.6
25°	11763.8	11588.8	11070.0	10213.7	9057.3	7775.9	6763.3	5688.1	4925.6	4231.7	3675.4
22.5°	17858.3	17539.5	16589.4	15039.2	12945.2	10895.0	9026.0	7369.6	6006.9	5038.1	4231.7
20°	27134.3	26578.0	24940.3	22290.0	18714.6	15545.5	12213.9	9757.4	7575.9	6006.9	4925.6
17.5°	41073.4	40110.8	37291.8	32747.5	27134.3	21971.3	16895.7	12851.5	9757.4	7369.6	5688.1
15°	61925.8	60238.1	55312.6	47480.4	38485.6	30297.2	23090.1	16895.7	12213.9	9026.0	6763.3
12.5°	96936.0	93523.2	83659.5	68276.5	53937.4	40479.6	30297.2	21971.3	15545.5	10895.0	7775.9
10°	154780.1	147729.3	127733.3	97467.4	74446.0	53937.4	38485.6	27134.3	18714.6	12945.2	9057.3
7.5°	248540.8	233407.9	192059.4	141097.3	97467.4	68276.5	47480.4	32747.5	22290.0	15039.2	10213.7
5°	377861.8	347408.3	270962.1	192059.4	127733.3	83659.5	55312.6	37291.8	24940.3	16589.4	11070.0
2.5°	504651.3	452164.0	347408.3	233407.9	147729.3	93523.2	60238.1	40110.8	26578.0	17539.5	11588.8
0°	559088.7	504651.3	377861.8	248540.8	154780.1	96936.0	61925.8	41073.4	27134.3	17858.3	11763.8



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.8	43.8	43.8	43.8	37.5	37.5	37.5	37.5	31.3	31.3	31.3
85°	100.0	93.8	93.8	87.5	87.5	81.3	81.3	75.0	75.0	68.8	62.5
82.5°	162.5	156.3	150.0	143.8	143.8	137.5	131.3	118.8	112.5	106.3	100.0
80°	243.8	231.3	225.0	212.5	206.3	193.8	181.3	175.0	162.5	156.3	143.8
77.5°	331.3	318.8	312.5	293.8	281.3	268.8	256.3	237.5	225.0	206.3	187.5
75°	431.3	418.8	400.0	381.3	368.8	350.0	331.3	312.5	287.5	268.8	250.0
72.5°	543.8	525.1	506.3	481.3	456.3	437.5	406.3	381.3	362.5	337.5	312.5
70°	656.3	637.6	612.6	587.6	556.3	531.3	500.1	468.8	437.5	406.3	375.0
67.5°	768.8	743.8	718.8	687.6	656.3	625.1	593.8	556.3	518.8	481.3	443.8
65°	875.1	850.1	818.8	787.6	756.3	718.8	681.3	643.8	600.1	556.3	518.8
62.5°	981.4	950.1	918.9	887.6	850.1	812.6	775.1	725.1	681.3	637.6	587.6
60°	1081.4	1050.1	1018.9	981.4	943.9	900.1	856.3	812.6	762.6	712.6	662.6
57.5°	1175.1	1143.9	1112.6	1068.9	1031.4	987.6	937.6	893.9	837.6	787.6	731.3
55°	1262.6	1231.4	1193.9	1156.4	1118.9	1068.9	1018.9	968.9	912.6	856.3	793.8
52.5°	1350.2	1312.6	1275.1	1237.6	1193.9	1150.1	1100.1	1043.9	987.6	925.1	862.6
50°	1450.2	1406.4	1356.4	1312.6	1262.6	1218.9	1168.9	1112.6	1056.4	987.6	925.1
47.5°	1543.9	1500.2	1450.2	1393.9	1343.9	1287.6	1231.4	1181.4	1118.9	1056.4	987.6
45°	1650.2	1587.7	1537.7	1481.4	1418.9	1356.4	1300.1	1237.6	1181.4	1112.6	1043.9
42.5°	1762.7	1693.9	1625.2	1556.4	1500.2	1431.4	1362.7	1300.1	1231.4	1168.9	1100.1
40°	1894.0	1812.7	1725.2	1650.2	1575.2	1506.4	1431.4	1356.4	1287.6	1218.9	1150.1
37.5°	2062.7	1950.2	1837.7	1743.9	1656.4	1575.2	1500.2	1418.9	1343.9	1262.6	1193.9
35°	2262.8	2106.5	1975.2	1844.0	1743.9	1650.2	1556.4	1481.4	1393.9	1312.6	1237.6
32.5°	2462.8	2294.0	2125.2	1975.2	1837.7	1725.2	1625.2	1537.7	1450.2	1356.4	1275.1
30°	2669.1	2481.5	2294.0	2106.5	1950.2	1812.7	1693.9	1587.7	1500.2	1406.4	1312.6
27.5°	2931.6	2669.1	2462.8	2262.8	2062.7	1894.0	1762.7	1650.2	1543.9	1450.2	1350.2
25°	3256.6	2900.3	2619.0	2406.5	2194.0	2000.2	1831.5	1706.4	1587.7	1493.9	1387.7
22.5°	3612.9	3175.4	2819.1	2544.0	2319.0	2094.0	1906.5	1762.7	1637.7	1525.2	1425.2
20°	4100.5	3475.4	3025.3	2687.8	2437.8	2200.3	1987.7	1812.7	1681.4	1562.7	1456.4
17.5°	4600.5	3831.7	3269.1	2850.3	2544.0	2294.0	2062.7	1869.0	1718.9	1593.9	1487.7
15°	5231.8	4206.7	3500.4	2994.1	2644.1	2381.5	2131.5	1919.0	1756.5	1625.2	1506.4
12.5°	5788.2	4569.3	3744.2	3162.9	2756.6	2456.5	2200.3	1969.0	1794.0	1650.2	1531.4
10°	6563.2	5000.6	3994.2	3319.1	2850.3	2525.3	2256.5	2012.7	1819.0	1675.2	1543.9
7.5°	7188.3	5338.1	4194.2	3437.9	2925.3	2575.3	2300.3	2044.0	1844.0	1687.7	1556.4
5°	7644.6	5588.1	4331.7	3531.7	2981.6	2606.5	2331.5	2069.0	1856.5	1700.2	1568.9
2.5°	7919.7	5788.2	4450.5	3600.4	3025.3	2637.8	2356.5	2087.7	1869.0	1712.7	1575.2
0°	8013.4	5788.2	4450.5	3600.4	3025.3	2637.8	2356.5	2087.7	1869.0	1712.7	1575.2





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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.3	25.0	25.0	25.0	18.8	18.8	18.8	12.5	12.5	12.5	6.3
85°	56.3	56.3	50.0	43.8	43.8	37.5	31.3	31.3	25.0	18.8	18.8
82.5°	93.8	87.5	81.3	75.0	68.8	56.3	50.0	43.8	37.5	31.3	25.0
80°	131.3	125.0	112.5	100.0	93.8	81.3	75.0	62.5	50.0	43.8	37.5
77.5°	175.0	162.5	150.0	137.5	118.8	106.3	93.8	81.3	68.8	56.3	43.8
75°	231.3	206.3	187.5	168.8	150.0	131.3	112.5	100.0	81.3	68.8	50.0
72.5°	287.5	262.5	231.3	206.3	181.3	162.5	137.5	118.8	100.0	81.3	62.5
70°	343.8	312.5	281.3	250.0	218.8	187.5	162.5	137.5	112.5	93.8	75.0
67.5°	400.0	368.8	331.3	293.8	262.5	225.0	187.5	162.5	131.3	106.3	81.3
65°	468.8	425.0	381.3	343.8	300.0	262.5	218.8	181.3	150.0	118.8	93.8
62.5°	537.6	487.6	437.5	387.5	343.8	293.8	250.0	206.3	168.8	137.5	100.0
60°	606.3	550.1	493.8	437.5	381.3	331.3	281.3	231.3	187.5	150.0	112.5
57.5°	675.1	612.6	550.1	487.6	425.0	368.8	312.5	262.5	206.3	162.5	125.0
55°	737.6	675.1	606.3	537.6	468.8	400.0	343.8	287.5	231.3	175.0	131.3
52.5°	793.8	731.3	662.6	587.6	518.8	443.8	375.0	312.5	250.0	187.5	143.8
50°	856.3	787.6	712.6	637.6	556.3	481.3	406.3	337.5	268.8	206.3	156.3
47.5°	912.6	837.6	762.6	681.3	600.1	518.8	437.5	362.5	287.5	225.0	162.5
45°	968.9	893.9	812.6	725.1	643.8	556.3	468.8	381.3	312.5	237.5	175.0
42.5°	1018.9	937.6	856.3	775.1	681.3	593.8	500.1	406.3	331.3	256.3	181.3
40°	1068.9	987.6	900.1	812.6	718.8	625.1	531.3	437.5	350.0	268.8	193.8
37.5°	1118.9	1031.4	943.9	850.1	756.3	656.3	556.3	456.3	368.8	281.3	206.3
35°	1156.4	1068.9	981.4	887.6	787.6	687.6	587.6	481.3	381.3	293.8	212.5
32.5°	1193.9	1112.6	1018.9	918.9	818.8	718.8	612.6	506.3	400.0	312.5	225.0
30°	1231.4	1143.9	1050.1	950.1	850.1	743.8	637.6	525.1	418.8	318.8	231.3
27.5°	1262.6	1175.1	1081.4	981.4	875.1	768.8	656.3	543.8	431.3	331.3	243.8
25°	1293.9	1206.4	1112.6	1006.4	900.1	787.6	675.1	562.6	450.1	343.8	250.0
22.5°	1325.2	1225.1	1137.6	1031.4	925.1	812.6	693.8	575.1	462.6	350.0	256.3
20°	1350.2	1250.1	1156.4	1050.1	943.9	831.3	712.6	593.8	475.1	362.5	262.5
17.5°	1375.2	1275.1	1175.1	1075.1	962.6	843.8	725.1	606.3	481.3	368.8	268.8
15°	1400.2	1293.9	1193.9	1087.6	975.1	862.6	737.6	618.8	493.8	375.0	275.0
12.5°	1418.9	1306.4	1206.4	1106.4	987.6	875.1	750.1	625.1	500.1	381.3	275.0
10°	1431.4	1318.9	1218.9	1118.9	1000.1	881.4	756.3	637.6	506.3	387.5	281.3
7.5°	1443.9	1331.4	1225.1	1125.1	1006.4	887.6	768.8	643.8	512.6	387.5	287.5
5°	1456.4	1337.7	1231.4	1131.4	1012.6	900.1	775.1	650.1	518.8	393.8	287.5
2.5°	1462.7	1343.9	1237.6	1137.6	1018.9	900.1	775.1	650.1	518.8	393.8	287.5
0°	1462.7	1343.9	1237.6	1137.6	1018.9	900.1	775.1	650.1	518.8	393.8	287.5



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.3	6.3	0.0	0.0
85°	12.5	6.3	6.3	0.0
82.5°	18.8	12.5	6.3	0.0
80°	25.0	18.8	6.3	0.0
77.5°	31.3	18.8	12.5	0.0
75°	37.5	25.0	12.5	0.0
72.5°	43.8	31.3	12.5	0.0
70°	50.0	31.3	18.8	0.0
67.5°	56.3	37.5	18.8	0.0
65°	68.8	43.8	18.8	0.0
62.5°	75.0	43.8	25.0	0.0
60°	81.3	50.0	25.0	0.0
57.5°	87.5	56.3	25.0	0.0
55°	93.8	56.3	31.3	0.0
52.5°	100.0	62.5	31.3	0.0
50°	106.3	68.8	31.3	0.0
47.5°	112.5	75.0	31.3	0.0
45°	118.8	75.0	37.5	0.0
42.5°	131.3	81.3	37.5	0.0
40°	137.5	81.3	37.5	0.0
37.5°	143.8	87.5	37.5	0.0
35°	143.8	87.5	43.8	0.0
32.5°	150.0	93.8	43.8	0.0
30°	156.3	93.8	43.8	0.0
27.5°	162.5	100.0	43.8	0.0
25°	168.8	100.0	43.8	0.0
22.5°	168.8	100.0	43.8	0.0
20°	175.0	106.3	50.0	0.0
17.5°	175.0	106.3	50.0	0.0
15°	181.3	106.3	50.0	0.0
12.5°	181.3	112.5	50.0	0.0
10°	181.3	112.5	50.0	0.0
7.5°	187.5	112.5	50.0	0.0
5°	187.5	112.5	50.0	0.0
2.5°	187.5	112.5	50.0	0.0
0°	187.5	112.5	50.0	0.0

(END OF REPORT)