

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: P628595

Luminaire Tested: **EPH-VN-07-E-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628595
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-935-U-LAM
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
LAMBERTIAN distribution lens
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

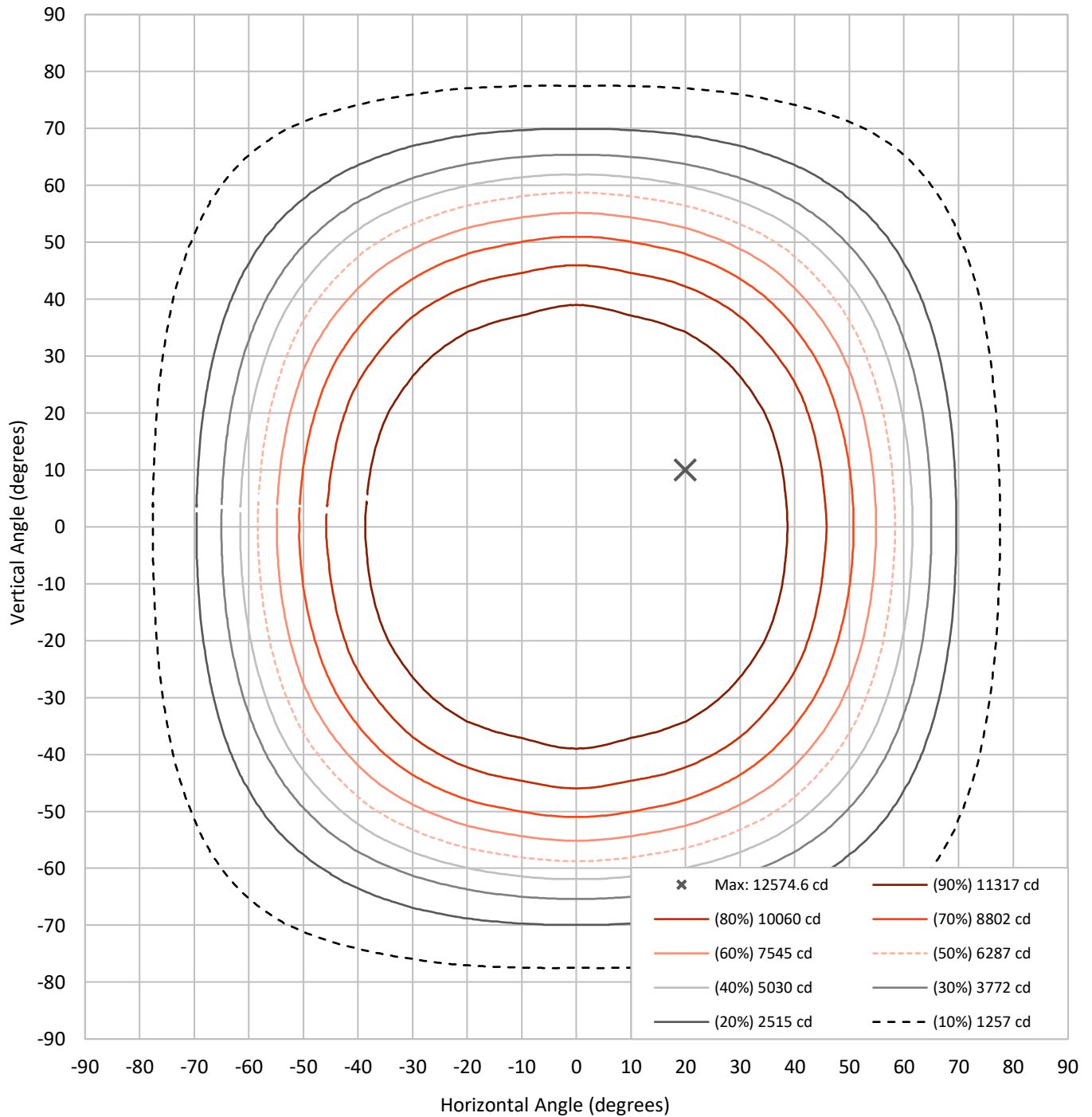
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	38577.2 lumens	Max Intensity:	12574.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	72.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	23671.8 lumens	Field Lumens:	28378.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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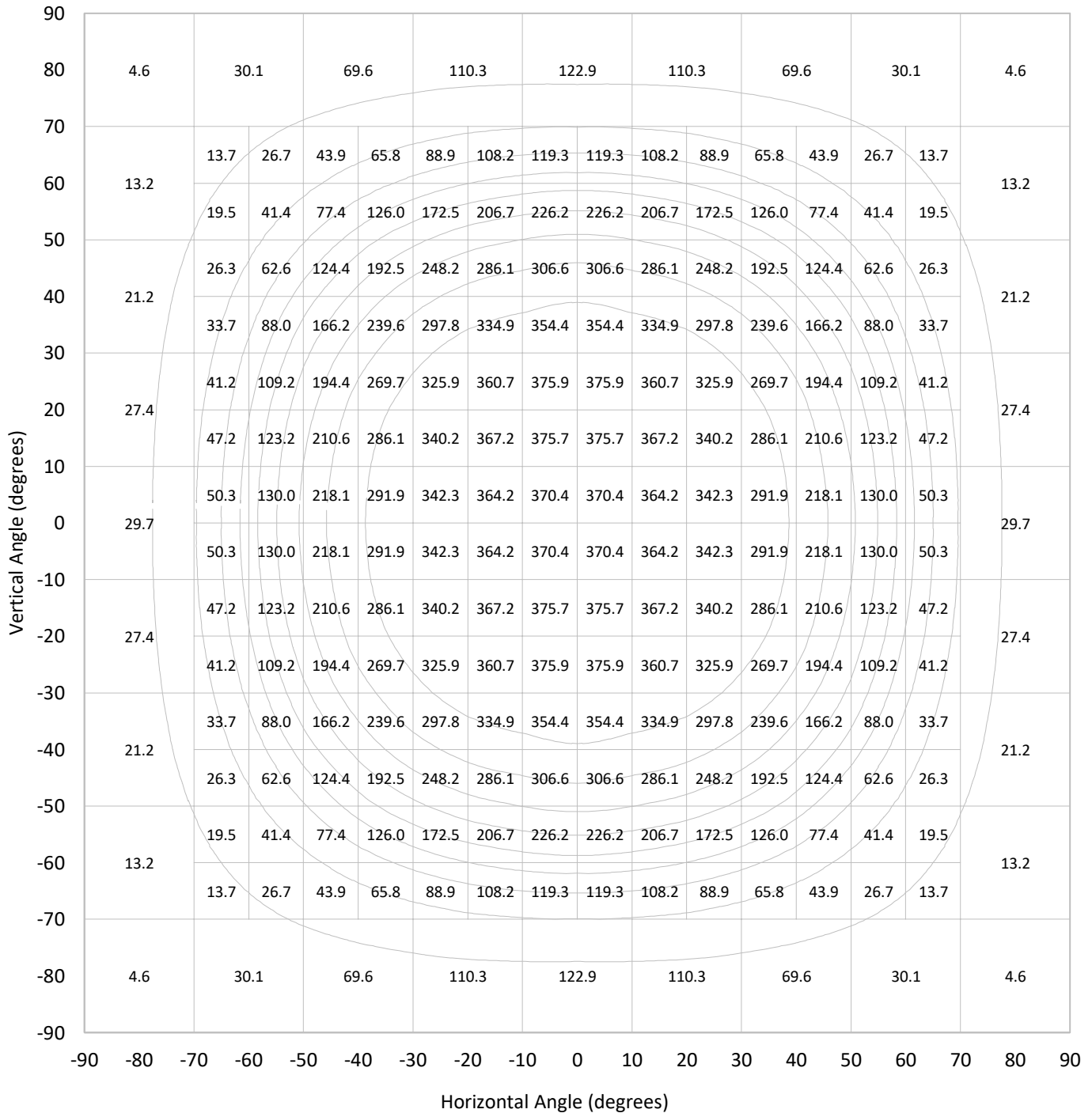
Iso-Candela Plot





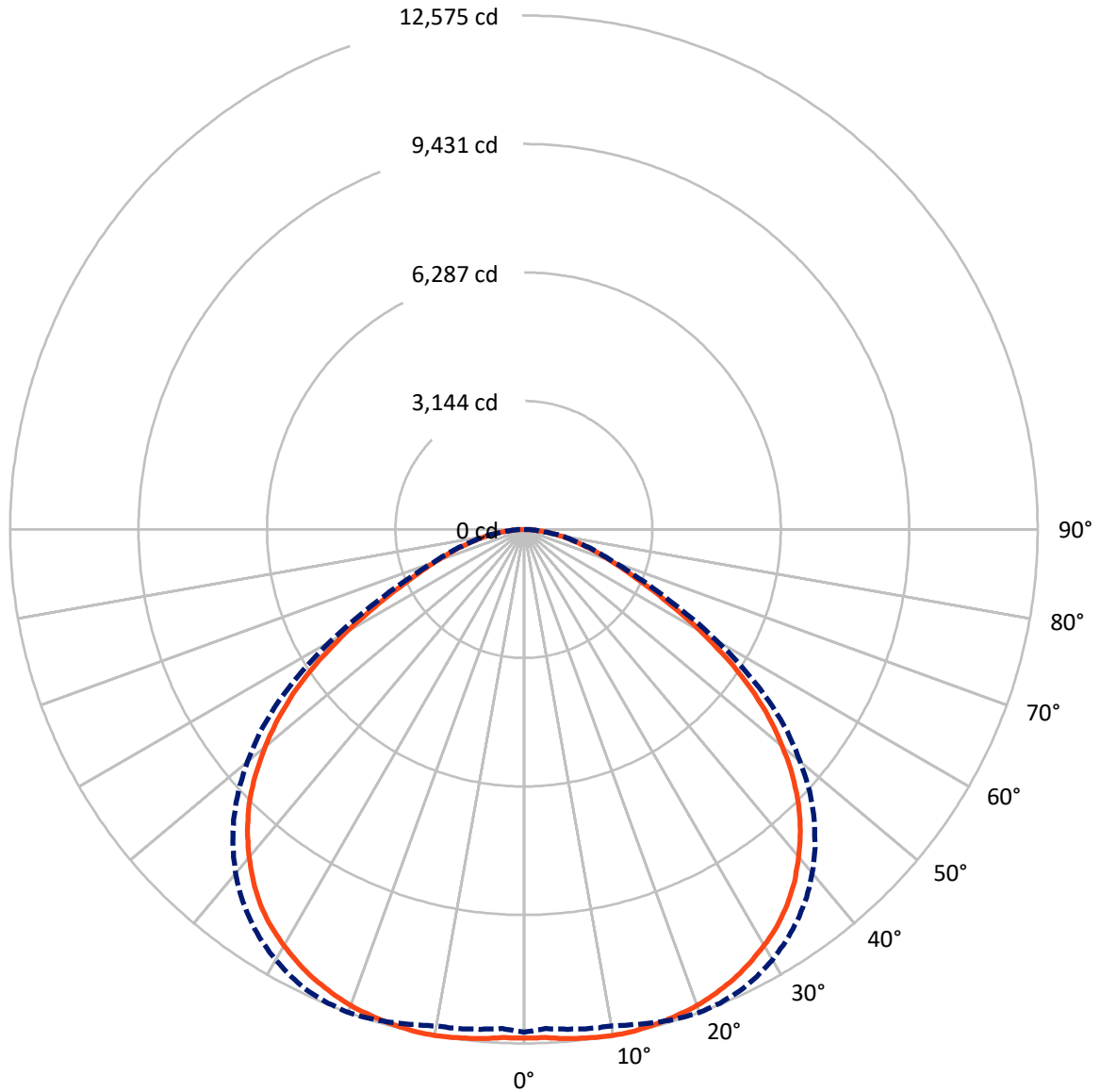
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Lumen Table



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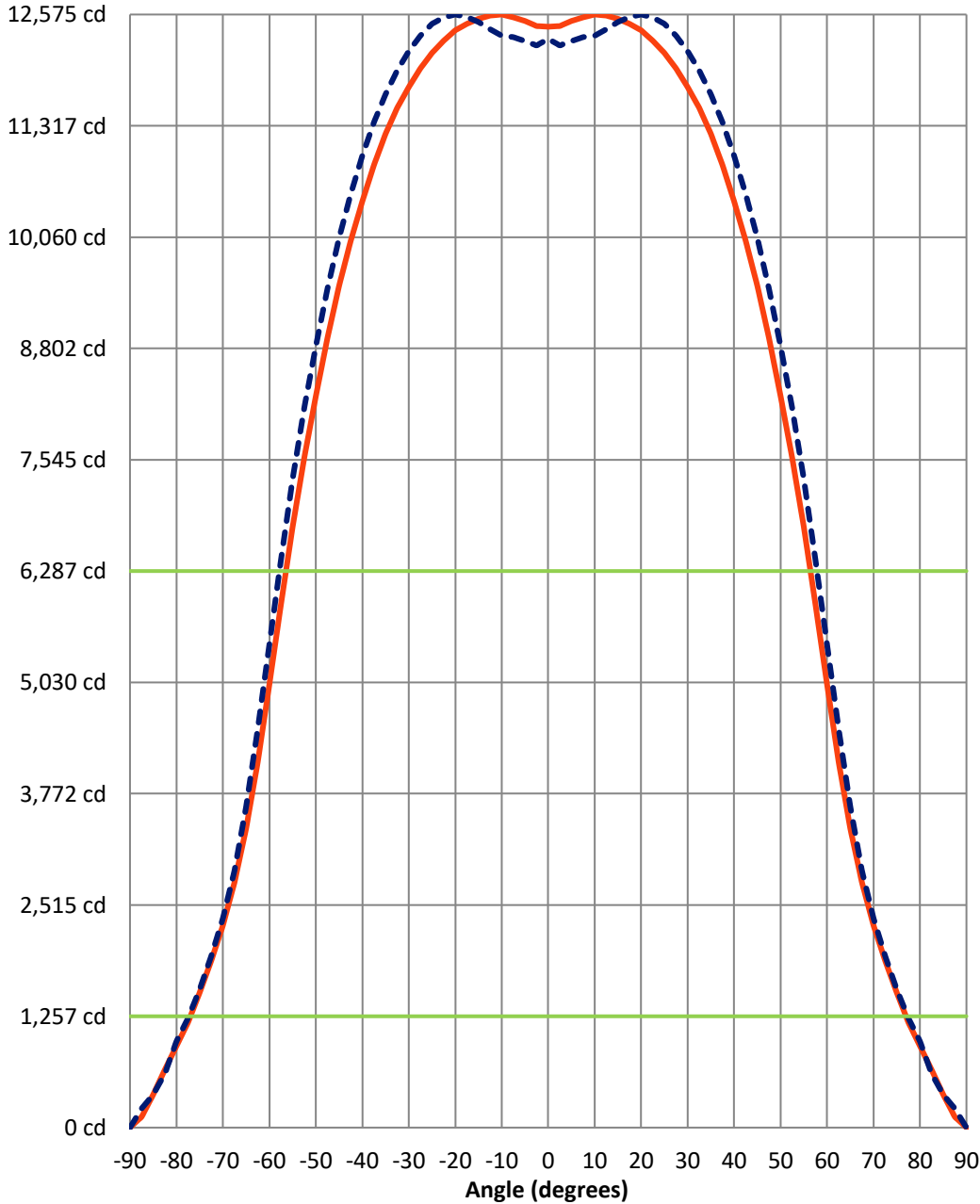
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 23671.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 28378.4
 Efficiency: 73.6%

Spill:
 Lumens: 10198.8
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-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°	101.5	109.6	113.7	117.7	121.8	125.8	129.9	125.8	121.8	121.8	117.7
85°	271.9	280.1	284.1	312.5	341.0	357.2	377.5	373.4	373.4	369.4	365.3
82.5°	543.9	568.3	588.5	617.0	633.2	657.5	673.8	661.6	653.5	637.3	625.1
80°	966.0	974.1	978.2	982.3	962.0	957.9	949.8	937.6	921.4	901.1	880.8
77.5°	1229.9	1238.0	1246.1	1238.0	1233.9	1229.9	1217.7	1205.5	1189.3	1173.0	1148.7
75°	1627.6	1627.6	1627.6	1615.5	1607.3	1595.2	1574.9	1554.6	1526.2	1493.7	1457.2
72.5°	2049.8	2045.7	2041.6	2017.3	1997.0	1972.6	1944.2	1919.9	1887.4	1850.9	1802.2
70°	2492.2	2500.3	2504.4	2471.9	2447.5	2415.1	2378.5	2333.9	2285.2	2232.4	2163.4
67.5°	3101.0	3092.9	3084.8	3040.1	3007.7	2963.0	2910.3	2845.3	2772.3	2691.1	2593.7
65°	3856.0	3868.2	3843.8	3799.2	3738.3	3665.2	3584.0	3490.7	3381.1	3259.3	3121.3
62.5°	4769.3	4789.6	4761.1	4704.3	4627.2	4529.8	4416.1	4282.2	4132.0	3961.5	3791.1
60°	5808.4	5804.3	5751.5	5674.4	5572.9	5451.2	5325.3	5179.2	5008.7	4809.8	4602.8
57.5°	6762.2	6754.1	6689.1	6612.0	6510.5	6380.7	6246.7	6092.5	5913.9	5702.8	5463.3
55°	7618.6	7610.5	7545.6	7464.4	7358.9	7229.0	7107.2	6961.1	6786.6	6563.3	6307.6
52.5°	8377.7	8381.7	8324.9	8235.6	8121.9	7996.1	7878.4	7732.3	7565.9	7342.6	7095.0
50°	9075.8	9071.7	9010.9	8929.7	8824.1	8702.4	8584.7	8438.5	8264.0	8048.9	7809.4
47.5°	9725.2	9717.1	9648.1	9558.8	9449.2	9343.7	9234.1	9104.2	8921.6	8706.4	8467.0
45°	10269.1	10252.9	10183.9	10098.7	9993.1	9899.8	9802.4	9704.9	9510.1	9311.2	9083.9
42.5°	10735.9	10731.9	10662.8	10577.6	10472.1	10390.9	10301.6	10179.8	10017.5	9834.8	9611.6
40°	11182.4	11149.9	11080.9	10999.7	10902.3	10833.3	10744.0	10622.3	10464.0	10285.4	10070.2
37.5°	11515.2	11519.3	11446.2	11356.9	11271.7	11206.7	11125.6	11011.9	10873.9	10699.4	10484.3
35°	11831.8	11811.5	11750.6	11673.5	11596.4	11523.3	11438.1	11340.7	11227.0	11064.7	10861.7
32.5°	12038.8	12067.2	11994.2	11913.0	11868.4	11811.5	11722.2	11620.8	11519.3	11356.9	11174.3
30°	12266.1	12241.8	12185.0	12116.0	12083.5	12046.9	11969.8	11872.4	11754.7	11608.6	11438.1
27.5°	12424.4	12412.3	12343.3	12278.3	12262.1	12229.6	12168.7	12083.5	11965.8	11823.7	11665.4
25°	12493.4	12501.6	12436.6	12400.1	12400.1	12379.8	12331.1	12258.0	12140.3	12010.4	11856.2
22.5°	12525.9	12517.8	12473.1	12465.0	12485.3	12469.1	12448.8	12383.8	12278.3	12172.8	12042.9
20°	12546.2	12489.4	12448.8	12481.3	12505.6	12501.6	12485.3	12444.7	12396.0	12306.7	12193.1
17.5°	12501.6	12465.0	12416.3	12465.0	12517.8	12521.8	12505.6	12481.3	12469.1	12412.3	12310.8
15°	12392.0	12363.5	12371.7	12420.4	12481.3	12501.6	12513.7	12542.1	12525.9	12481.3	12392.0
12.5°	12318.9	12282.4	12318.9	12367.6	12400.1	12412.3	12509.7	12562.4	12562.4	12521.8	12465.0
10°	12298.6	12225.5	12274.3	12318.9	12335.1	12408.2	12489.4	12546.2	12574.6	12542.1	12469.1
7.5°	12258.0	12209.3	12229.6	12249.9	12343.3	12396.0	12440.7	12501.6	12542.1	12538.1	12473.1
5°	12237.7	12176.8	12185.0	12270.2	12335.1	12371.7	12387.9	12440.7	12501.6	12513.7	12465.0
2.5°	12185.0	12156.5	12217.4	12225.5	12274.3	12302.7	12318.9	12367.6	12444.7	12473.1	12452.8
0°	12156.5	12116.0	12075.4	12107.8	12189.0	12249.9	12274.3	12347.3	12436.6	12465.0	12420.4



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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°	113.7	109.6	105.5	101.5	105.5	105.5	105.5	101.5	105.5	101.5	101.5
85°	353.1	336.9	324.7	308.5	292.2	280.1	263.8	247.6	243.5	239.5	231.4
82.5°	608.8	588.5	568.3	543.9	519.5	491.1	462.7	430.2	422.1	414.0	401.8
80°	856.4	828.0	799.6	771.2	746.8	718.4	686.0	649.4	625.1	604.8	580.4
77.5°	1116.2	1075.6	1035.0	986.3	957.9	929.5	897.0	860.5	824.0	791.5	755.0
75°	1412.5	1367.9	1327.3	1278.6	1225.8	1173.0	1120.3	1071.6	1018.8	970.1	921.4
72.5°	1741.3	1676.3	1611.4	1550.5	1485.6	1420.6	1351.6	1286.7	1221.7	1156.8	1087.8
70°	2086.3	2005.1	1923.9	1842.8	1757.5	1672.3	1591.1	1509.9	1428.7	1343.5	1266.4
67.5°	2492.2	2398.8	2293.3	2179.7	2053.8	1944.2	1838.7	1741.3	1643.9	1546.5	1449.0
65°	2999.6	2869.7	2727.6	2573.4	2427.2	2281.1	2126.9	1980.8	1867.1	1753.5	1643.9
62.5°	3624.6	3442.0	3243.1	3044.2	2865.6	2674.8	2496.3	2305.5	2126.9	1964.5	1830.6
60°	4371.5	4123.9	3880.4	3624.6	3377.0	3117.3	2890.0	2654.6	2431.3	2232.4	2037.6
57.5°	5195.4	4907.3	4615.0	4302.5	3965.6	3661.2	3352.7	3044.2	2780.4	2516.5	2297.4
55°	6031.6	5727.2	5398.4	5045.3	4675.9	4286.2	3868.2	3523.2	3161.9	2853.4	2569.3
52.5°	6827.1	6510.5	6169.6	5844.9	5402.5	4956.0	4497.3	4042.7	3620.6	3226.9	2881.9
50°	7537.5	7229.0	6900.2	6522.7	6112.8	5637.9	5126.4	4615.0	4115.8	3653.1	3222.8
47.5°	8186.9	7886.5	7557.8	7180.3	6806.9	6279.2	5763.7	5199.5	4643.4	4111.7	3608.4
45°	8795.7	8491.3	8150.4	7789.1	7358.9	6888.0	6356.3	5788.1	5191.4	4594.7	4014.3
42.5°	9347.8	9043.3	8698.3	8324.9	7898.7	7431.9	6916.4	6344.1	5743.4	5094.0	4456.7
40°	9830.8	9534.5	9201.6	8812.0	8414.2	7923.1	7415.7	6871.8	6250.8	5597.3	4895.1
37.5°	10252.9	9976.9	9648.1	9262.5	8840.4	8402.0	7878.4	7334.5	6774.4	6064.1	5345.6
35°	10626.3	10370.6	10033.7	9668.4	9254.4	8791.7	8300.5	7768.8	7164.0	6498.4	5800.2
32.5°	10951.0	10691.3	10382.8	10017.5	9615.6	9181.3	8678.0	8142.2	7569.9	6892.1	6133.1
30°	11227.0	10975.4	10683.1	10338.1	9952.5	9522.3	9031.2	8491.3	7906.8	7233.0	6482.1
27.5°	11466.5	11227.0	10942.9	10622.3	10252.9	9838.9	9343.7	8799.8	8203.1	7553.7	6802.8
25°	11673.5	11442.2	11178.3	10873.9	10508.6	10102.7	9635.9	9067.7	8471.0	7817.5	7074.7
22.5°	11860.2	11637.0	11373.2	11076.9	10744.0	10338.1	9867.3	9303.1	8698.3	8052.9	7322.3
20°	12026.7	11819.6	11559.9	11255.5	10922.6	10512.7	10045.9	9510.1	8901.3	8268.1	7545.6
17.5°	12160.6	11977.9	11718.2	11397.5	11064.7	10666.9	10212.3	9721.2	9075.8	8450.7	7732.3
15°	12254.0	12075.4	11839.9	11515.2	11190.5	10796.8	10342.2	9834.8	9234.1	8596.8	7886.5
12.5°	12318.9	12128.1	11908.9	11608.6	11283.9	10894.2	10451.8	9952.5	9368.0	8726.7	8020.5
10°	12335.1	12160.6	11941.4	11673.5	11356.9	10979.4	10545.1	10049.9	9477.6	8828.2	8130.1
7.5°	12343.3	12176.8	11977.9	11722.2	11409.7	11044.4	10614.1	10127.1	9558.8	8913.4	8211.2
5°	12339.2	12180.9	12002.3	11754.7	11442.2	11080.9	10658.8	10179.8	9615.6	8970.3	8272.1
2.5°	12327.0	12185.0	12018.5	11779.1	11478.7	11121.5	10703.4	10240.7	9676.5	9019.0	8320.8
0°	12359.5	12237.7	12026.7	11770.9	11486.8	11121.5	10699.4	10248.8	9684.6	9014.9	8316.8



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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°	101.5	97.4	97.4	93.4	89.3	85.2	77.1	73.1	64.9	52.8	40.6
85°	219.2	207.0	194.8	186.7	178.6	170.5	158.3	146.1	129.9	105.5	81.2
82.5°	385.6	361.2	336.9	308.5	284.1	259.8	239.5	219.2	194.8	158.3	121.8
80°	552.0	515.5	479.0	438.4	401.8	361.2	324.7	292.2	259.8	211.1	162.4
77.5°	718.4	669.7	617.0	568.3	515.5	462.7	410.0	365.3	316.6	259.8	202.9
75°	872.7	815.8	767.1	698.1	633.2	564.2	495.2	434.3	373.4	304.4	243.5
72.5°	1026.9	953.9	884.9	819.9	746.8	661.6	584.5	507.4	430.2	349.1	276.0
70°	1181.2	1091.9	1006.6	929.5	848.3	763.1	669.7	580.4	487.1	389.7	304.4
67.5°	1339.5	1238.0	1140.6	1043.1	949.8	852.4	755.0	653.5	543.9	430.2	336.9
65°	1514.0	1388.2	1270.4	1160.9	1051.3	945.7	836.1	726.6	604.8	474.9	365.3
62.5°	1688.5	1550.5	1412.5	1274.5	1152.7	1035.0	917.3	795.6	661.6	523.6	393.7
60°	1875.2	1716.9	1558.6	1404.4	1254.2	1124.3	994.4	864.6	722.5	568.3	422.1
57.5°	2082.2	1891.5	1712.9	1538.3	1367.9	1213.6	1071.6	933.6	775.3	612.9	454.6
55°	2317.7	2082.2	1871.2	1676.3	1489.6	1302.9	1148.7	1006.6	836.1	657.5	491.1
52.5°	2565.3	2293.3	2037.6	1818.4	1619.5	1408.5	1221.7	1063.4	897.0	702.2	523.6
50°	2853.4	2508.4	2224.3	1956.4	1733.2	1514.0	1298.9	1128.4	957.9	755.0	556.1
47.5°	3149.7	2768.2	2411.0	2118.8	1854.9	1615.5	1388.2	1185.2	1014.7	803.7	588.5
45°	3494.8	3015.8	2622.1	2277.1	1972.6	1721.0	1477.5	1246.1	1063.4	852.4	621.0
42.5°	3827.6	3308.0	2841.3	2451.6	2106.6	1822.5	1558.6	1311.0	1112.2	901.1	649.4
40°	4221.3	3600.3	3052.3	2618.0	2240.5	1919.9	1639.8	1380.0	1156.8	945.7	677.8
37.5°	4598.8	3896.6	3308.0	2800.7	2370.4	2017.3	1721.0	1445.0	1197.4	990.4	714.4
35°	4972.2	4225.4	3551.6	2971.1	2504.4	2126.9	1802.2	1505.9	1238.0	1026.9	746.8
32.5°	5329.4	4533.8	3799.2	3161.9	2650.5	2228.4	1875.2	1562.7	1278.6	1059.4	779.3
30°	5662.2	4826.1	4042.7	3356.7	2784.4	2321.7	1944.2	1619.5	1327.3	1087.8	811.8
27.5°	5966.6	5110.2	4286.2	3539.4	2910.3	2407.0	2017.3	1672.3	1367.9	1116.2	840.2
25°	6242.7	5365.9	4509.5	3705.8	3023.9	2500.3	2086.3	1725.1	1404.4	1140.6	864.6
22.5°	6502.4	5601.3	4712.4	3872.2	3161.9	2593.7	2151.2	1773.8	1440.9	1164.9	888.9
20°	6729.7	5816.5	4907.3	4038.7	3283.7	2678.9	2208.1	1818.4	1473.4	1181.2	913.3
17.5°	6912.4	6007.2	5081.8	4184.8	3389.2	2752.0	2256.8	1859.0	1501.8	1201.4	929.5
15°	7074.7	6169.6	5227.9	4310.6	3482.6	2812.8	2301.4	1891.5	1526.2	1213.6	949.8
12.5°	7212.7	6307.6	5353.7	4420.2	3563.8	2865.6	2338.0	1915.8	1546.5	1225.8	962.0
10°	7326.4	6417.2	5459.3	4505.4	3628.7	2906.2	2366.4	1940.2	1562.7	1238.0	974.1
7.5°	7411.6	6498.4	5536.4	4578.5	3681.5	2934.6	2390.7	1956.4	1578.9	1246.1	994.4
5°	7476.6	6567.4	5597.3	4627.2	3722.1	2975.2	2419.1	1976.7	1595.2	1254.2	994.4
2.5°	7525.3	6624.2	5646.0	4667.8	3754.5	2967.1	2419.1	1972.6	1595.2	1254.2	990.4
0°	7517.2	6628.3	5641.9	4667.8	3754.5	2959.0	2419.1	1968.6	1595.2	1254.2	990.4



REPORT NUMBER: P628595
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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	28.4	20.3	8.1	0.0
85°	60.9	40.6	20.3	0.0
82.5°	89.3	56.8	28.4	0.0
80°	117.7	77.1	36.5	0.0
77.5°	150.2	97.4	48.7	0.0
75°	178.6	113.7	56.8	0.0
72.5°	207.0	133.9	64.9	0.0
70°	231.4	150.2	73.1	0.0
67.5°	255.7	170.5	85.2	0.0
65°	276.0	186.7	93.4	0.0
62.5°	292.2	207.0	101.5	0.0
60°	312.5	223.2	109.6	0.0
57.5°	328.8	235.4	117.7	0.0
55°	345.0	243.5	125.8	0.0
52.5°	361.2	255.7	133.9	0.0
50°	377.5	267.9	142.1	0.0
47.5°	393.7	276.0	146.1	0.0
45°	418.1	288.2	154.2	0.0
42.5°	438.4	296.3	162.4	0.0
40°	458.7	304.4	166.4	0.0
37.5°	479.0	312.5	174.5	0.0
35°	499.3	320.7	178.6	0.0
32.5°	515.5	328.8	182.7	0.0
30°	531.7	336.9	186.7	0.0
27.5°	548.0	341.0	190.8	0.0
25°	560.1	349.1	194.8	0.0
22.5°	572.3	353.1	198.9	0.0
20°	580.4	357.2	202.9	0.0
17.5°	592.6	361.2	207.0	0.0
15°	596.7	365.3	215.1	0.0
12.5°	604.8	369.4	215.1	0.0
10°	608.8	373.4	215.1	0.0
7.5°	617.0	373.4	215.1	0.0
5°	612.9	373.4	215.1	0.0
2.5°	612.9	373.4	215.1	0.0
0°	608.8	373.4	215.1	0.0

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