

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: STREETWORKS

Report Number: P628313

Luminaire Tested: **IFLD-M-SA4D-750-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628313  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-750-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32933.8 lumens	Max Intensity:	10735.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	131.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

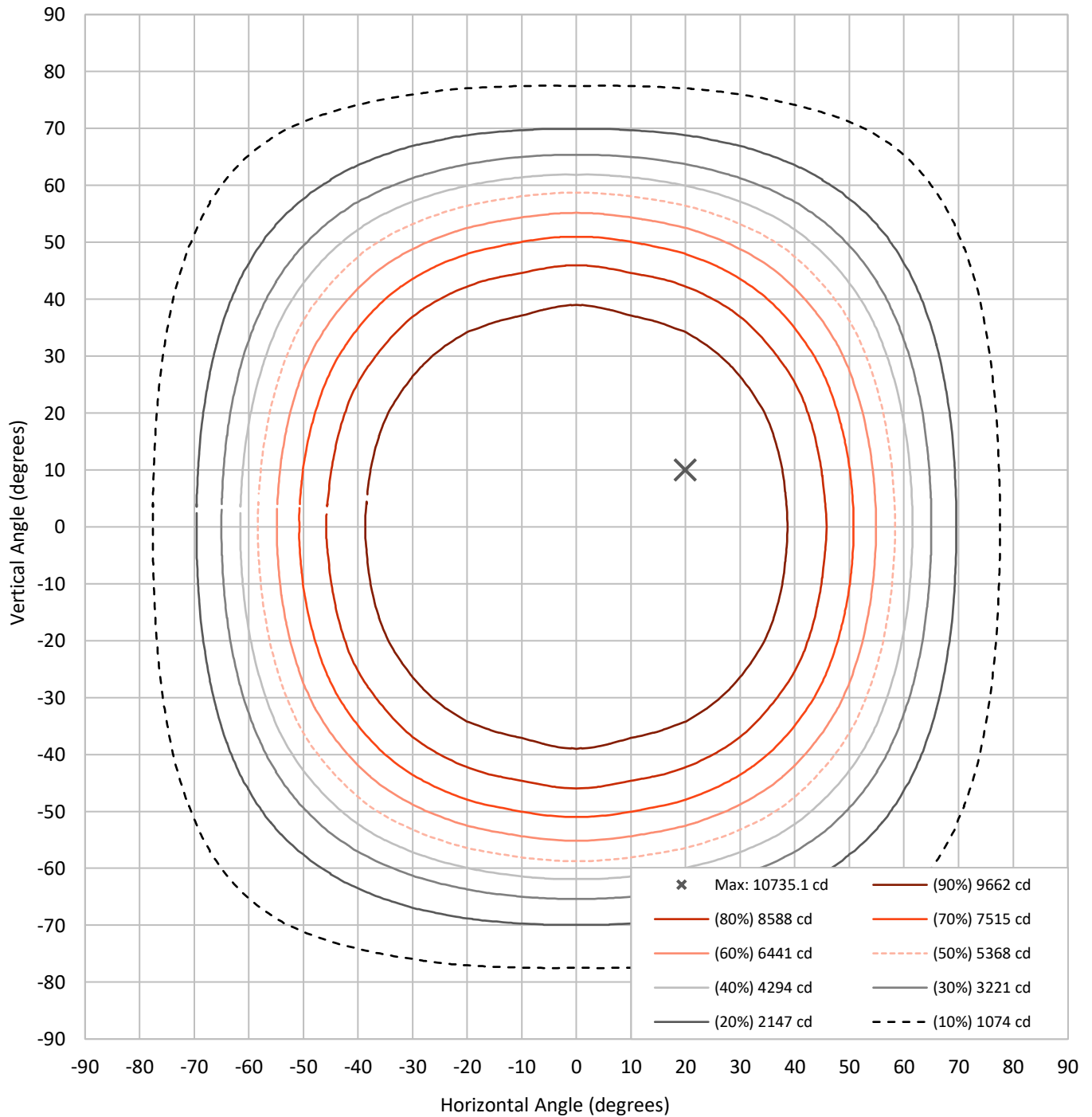
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20208.9 lumens	Field Lumens:	24227 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 249.7  
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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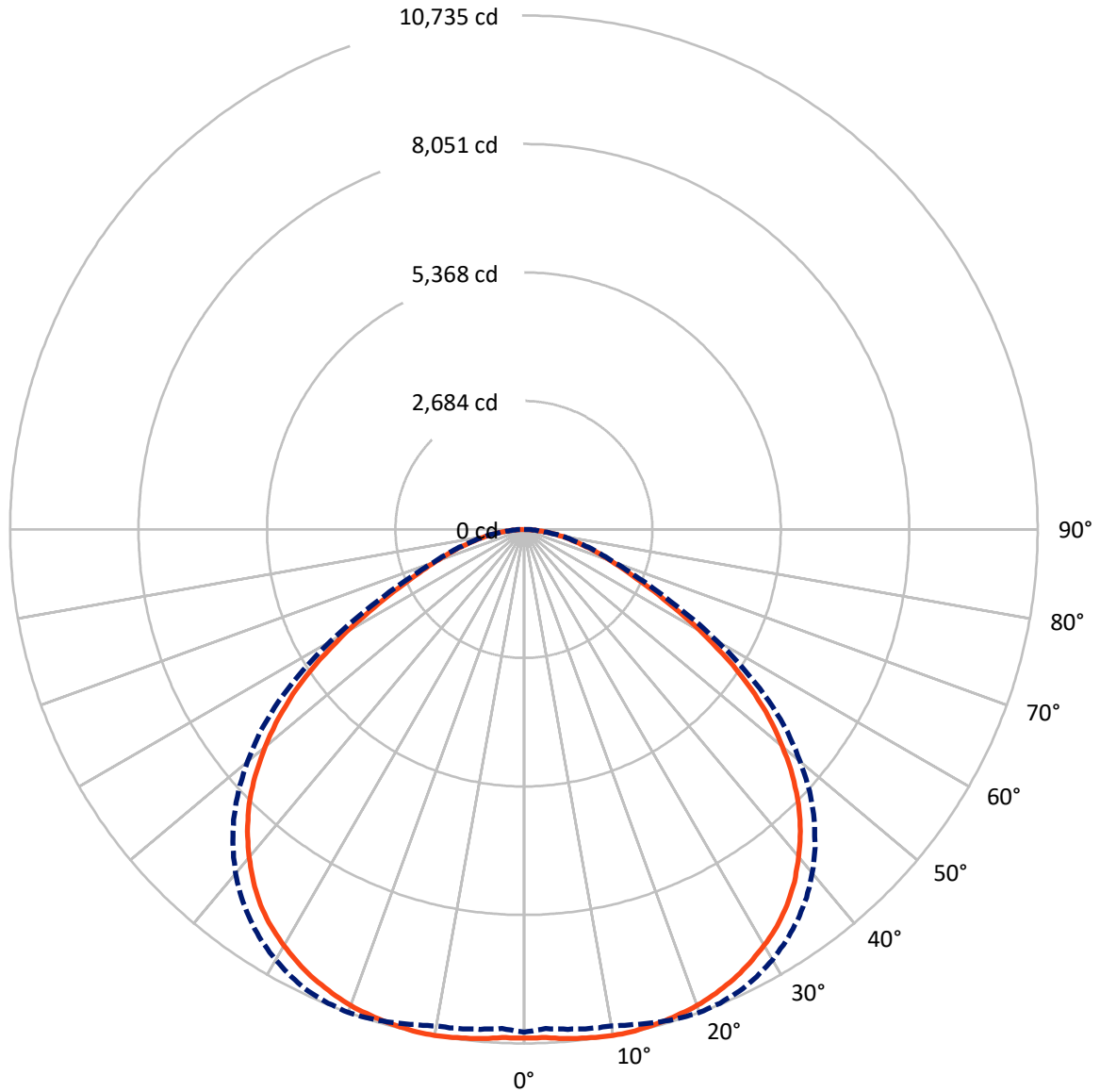
### Iso-Candela Plot





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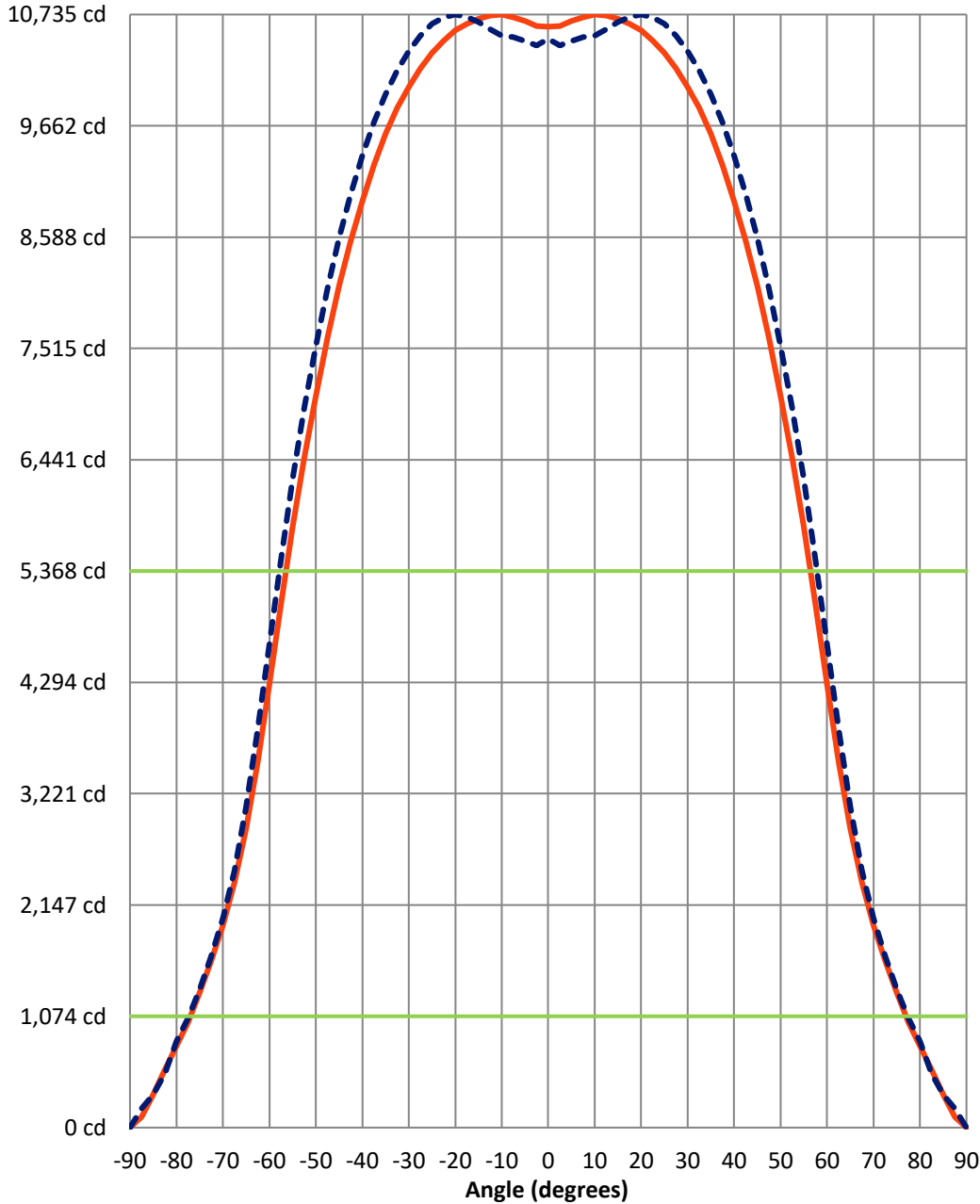
### Luminous Intensity Polar Plot



— 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: 20208.9  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 24227  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 8706.8  
 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°	86.6	93.6	97.0	100.5	104.0	107.4	110.9	107.4	104.0	104.0	100.5
85°	232.2	239.1	242.6	266.8	291.1	304.9	322.3	318.8	318.8	315.3	311.9
82.5°	464.3	485.1	502.4	526.7	540.6	561.4	575.2	564.8	557.9	544.0	533.6
80°	824.7	831.6	835.1	838.6	821.2	817.8	810.8	800.5	786.6	769.3	751.9
77.5°	1049.9	1056.9	1063.8	1056.9	1053.4	1049.9	1039.6	1029.2	1015.3	1001.4	980.6
75°	1389.5	1389.5	1389.5	1379.1	1372.2	1361.8	1344.5	1327.2	1302.9	1275.2	1244.0
72.5°	1749.9	1746.4	1743.0	1722.2	1704.9	1684.1	1659.8	1639.0	1611.3	1580.1	1538.5
70°	2127.6	2134.5	2138.0	2110.3	2089.5	2061.8	2030.6	1992.5	1950.9	1905.8	1846.9
67.5°	2647.4	2640.5	2633.5	2595.4	2567.7	2529.6	2484.5	2429.1	2366.7	2297.4	2214.2
65°	3291.9	3302.3	3281.5	3243.4	3191.4	3129.0	3059.7	2980.0	2886.5	2782.5	2664.7
62.5°	4071.6	4088.9	4064.6	4016.1	3950.3	3867.1	3770.1	3655.8	3527.5	3382.0	3236.5
60°	4958.7	4955.2	4910.1	4844.3	4757.7	4653.7	4546.3	4421.6	4276.0	4106.2	3929.5
57.5°	5773.0	5766.0	5710.6	5644.8	5558.1	5447.2	5332.9	5201.2	5048.8	4868.6	4664.1
55°	6504.1	6497.2	6441.8	6372.4	6282.4	6171.5	6067.5	5942.8	5793.8	5603.2	5384.9
52.5°	7152.1	7155.6	7107.1	7030.8	6933.8	6826.4	6725.9	6601.1	6459.1	6268.5	6057.1
50°	7748.1	7744.7	7692.7	7623.4	7533.3	7429.3	7328.8	7204.1	7055.1	6871.4	6667.0
47.5°	8302.5	8295.6	8236.7	8160.5	8066.9	7976.8	7883.3	7772.4	7616.4	7432.8	7228.3
45°	8766.9	8753.0	8694.1	8621.3	8531.2	8451.5	8368.4	8285.2	8118.9	7949.1	7755.1
42.5°	9165.4	9161.9	9103.0	9030.2	8940.1	8870.8	8794.6	8690.6	8552.0	8396.1	8205.5
40°	9546.5	9518.8	9459.9	9390.6	9307.4	9248.5	9172.3	9068.3	8933.2	8780.7	8597.1
37.5°	9830.7	9834.2	9771.8	9695.5	9622.8	9567.3	9498.0	9401.0	9283.2	9134.2	8950.5
35°	10101.0	10083.6	10031.7	9965.8	9900.0	9837.6	9764.8	9681.7	9584.7	9446.1	9272.8
32.5°	10277.7	10302.0	10239.6	10170.3	10132.2	10083.6	10007.4	9920.8	9834.2	9695.5	9539.6
30°	10471.7	10451.0	10402.4	10343.5	10315.8	10284.6	10218.8	10135.6	10035.1	9910.4	9764.8
27.5°	10606.9	10596.5	10537.6	10482.1	10468.3	10440.6	10388.6	10315.8	10215.3	10094.0	9958.9
25°	10665.8	10672.7	10617.3	10586.1	10586.1	10568.8	10527.2	10464.8	10364.3	10253.4	10121.8
22.5°	10693.5	10686.6	10648.5	10641.5	10658.9	10645.0	10627.7	10572.2	10482.1	10392.0	10281.2
20°	10710.8	10662.3	10627.7	10655.4	10676.2	10672.7	10658.9	10624.2	10582.6	10506.4	10409.4
17.5°	10672.7	10641.5	10600.0	10641.5	10686.6	10690.0	10676.2	10655.4	10645.0	10596.5	10509.9
15°	10579.2	10554.9	10561.8	10603.4	10655.4	10672.7	10683.1	10707.4	10693.5	10655.4	10579.2
12.5°	10516.8	10485.6	10516.8	10558.4	10586.1	10596.5	10679.7	10724.7	10724.7	10690.0	10641.5
10°	10499.5	10437.1	10478.7	10516.8	10530.7	10593.0	10662.3	10710.8	10735.1	10707.4	10645.0
7.5°	10464.8	10423.2	10440.6	10457.9	10537.6	10582.6	10620.7	10672.7	10707.4	10703.9	10648.5
5°	10447.5	10395.5	10402.4	10475.2	10530.7	10561.8	10575.7	10620.7	10672.7	10683.1	10641.5
2.5°	10402.4	10378.2	10430.2	10437.1	10478.7	10502.9	10516.8	10558.4	10624.2	10648.5	10631.1
0°	10378.2	10343.5	10308.9	10336.6	10405.9	10457.9	10478.7	10541.0	10617.3	10641.5	10603.4



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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°	97.0	93.6	90.1	86.6	90.1	90.1	90.1	86.6	90.1	86.6	86.6
85°	301.5	287.6	277.2	263.4	249.5	239.1	225.2	211.4	207.9	204.4	197.5
82.5°	519.8	502.4	485.1	464.3	443.5	419.3	395.0	367.3	360.4	353.4	343.1
80°	731.2	706.9	682.6	658.4	637.6	613.3	585.6	554.4	533.6	516.3	495.5
77.5°	952.9	918.3	883.6	842.0	817.8	793.5	765.8	734.6	703.4	675.7	644.5
75°	1205.9	1167.8	1133.1	1091.5	1046.5	1001.4	956.4	914.8	869.8	828.2	786.6
72.5°	1486.6	1431.1	1375.7	1323.7	1268.3	1212.8	1153.9	1098.5	1043.0	987.6	928.7
70°	1781.1	1711.8	1642.5	1573.2	1500.4	1427.7	1358.3	1289.0	1219.7	1147.0	1081.1
67.5°	2127.6	2047.9	1957.8	1860.8	1753.4	1659.8	1569.7	1486.6	1403.4	1320.2	1237.1
65°	2560.8	2449.9	2328.6	2196.9	2072.2	1947.4	1815.7	1691.0	1594.0	1497.0	1403.4
62.5°	3094.4	2938.5	2768.7	2598.9	2446.4	2283.5	2131.1	1968.2	1815.7	1677.1	1562.8
60°	3732.0	3520.6	3312.7	3094.4	2883.0	2661.3	2467.2	2266.2	2075.6	1905.8	1739.5
57.5°	4435.4	4189.4	3939.9	3673.1	3385.5	3125.6	2862.2	2598.9	2373.6	2148.4	1961.3
55°	5149.2	4889.4	4608.7	4307.2	3991.9	3659.2	3302.3	3007.8	2699.4	2436.0	2193.5
52.5°	5828.4	5558.1	5267.1	4989.8	4612.1	4231.0	3839.4	3451.3	3090.9	2754.8	2460.3
50°	6434.8	6171.5	5890.8	5568.5	5218.5	4813.1	4376.5	3939.9	3513.7	3118.7	2751.3
47.5°	6989.2	6732.8	6452.1	6129.9	5811.1	5360.6	4920.5	4438.9	3964.2	3510.2	3080.5
45°	7509.0	7249.1	6958.1	6649.7	6282.4	5880.4	5426.5	4941.3	4432.0	3922.6	3427.1
42.5°	7980.3	7720.4	7425.9	7107.1	6743.2	6344.7	5904.6	5416.1	4903.2	4348.8	3804.8
40°	8392.6	8139.7	7855.5	7522.9	7183.3	6764.0	6330.9	5866.5	5336.4	4778.5	4179.0
37.5°	8753.0	8517.4	8236.7	7907.5	7547.1	7172.9	6725.9	6261.6	5783.4	5177.0	4563.6
35°	9071.8	8853.5	8565.9	8254.0	7900.6	7505.6	7086.3	6632.3	6116.0	5547.7	4951.7
32.5°	9349.0	9127.3	8863.9	8552.0	8209.0	7838.2	7408.5	6951.1	6462.5	5883.9	5235.9
30°	9584.7	9369.8	9120.3	8825.8	8496.6	8129.3	7710.0	7249.1	6750.2	6174.9	5533.9
27.5°	9789.1	9584.7	9342.1	9068.3	8753.0	8399.6	7976.8	7512.5	7003.1	6448.7	5807.6
25°	9965.8	9768.3	9543.1	9283.2	8971.3	8624.8	8226.3	7741.2	7231.8	6673.9	6039.8
22.5°	10125.2	9934.6	9709.4	9456.4	9172.3	8825.8	8423.8	7942.2	7425.9	6874.9	6251.2
20°	10267.3	10090.6	9868.8	9608.9	9324.8	8974.8	8576.3	8118.9	7599.1	7058.6	6441.8
17.5°	10381.6	10225.7	10003.9	9730.2	9446.1	9106.5	8718.4	8299.1	7748.1	7214.5	6601.1
15°	10461.3	10308.9	10107.9	9830.7	9553.5	9217.4	8829.3	8396.1	7883.3	7339.2	6732.8
12.5°	10516.8	10353.9	10166.8	9910.4	9633.2	9300.5	8922.8	8496.6	7997.6	7450.1	6847.2
10°	10530.7	10381.6	10194.5	9965.8	9695.5	9373.3	9002.5	8579.8	8091.2	7536.7	6940.7
7.5°	10537.6	10395.5	10225.7	10007.4	9740.6	9428.7	9061.4	8645.6	8160.5	7609.5	7010.0
5°	10534.1	10399.0	10246.5	10035.1	9768.3	9459.9	9099.5	8690.6	8209.0	7658.0	7062.0
2.5°	10523.7	10402.4	10260.4	10055.9	9799.5	9494.6	9137.7	8742.6	8261.0	7699.6	7103.6
0°	10551.4	10447.5	10267.3	10049.0	9806.4	9494.6	9134.2	8749.6	8267.9	7696.1	7100.1





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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°	86.6	83.2	83.2	79.7	76.2	72.8	65.8	62.4	55.4	45.0	34.7
85°	187.1	176.7	166.3	159.4	152.5	145.5	135.1	124.7	110.9	90.1	69.3
82.5°	329.2	308.4	287.6	263.4	242.6	221.8	204.4	187.1	166.3	135.1	104.0
80°	471.3	440.1	408.9	374.2	343.1	308.4	277.2	249.5	221.8	180.2	138.6
77.5°	613.3	571.8	526.7	485.1	440.1	395.0	350.0	311.9	270.3	221.8	173.3
75°	745.0	696.5	654.9	596.0	540.6	481.7	422.8	370.8	318.8	259.9	207.9
72.5°	876.7	814.3	755.4	700.0	637.6	564.8	499.0	433.1	367.3	298.0	235.6
70°	1008.4	932.1	859.4	793.5	724.2	651.5	571.8	495.5	415.8	332.7	259.9
67.5°	1143.5	1056.9	973.7	890.5	810.8	727.7	644.5	557.9	464.3	367.3	287.6
65°	1292.5	1185.1	1084.6	991.0	897.5	807.4	713.8	620.3	516.3	405.4	311.9
62.5°	1441.5	1323.7	1205.9	1088.1	984.1	883.6	783.1	679.2	564.8	447.0	336.1
60°	1600.9	1465.8	1330.6	1198.9	1070.7	959.9	849.0	738.1	616.8	485.1	360.4
57.5°	1777.6	1614.8	1462.3	1313.3	1167.8	1036.1	914.8	797.0	661.8	523.2	388.1
55°	1978.6	1777.6	1597.4	1431.1	1271.7	1112.3	980.6	859.4	713.8	561.4	419.3
52.5°	2190.0	1957.8	1739.5	1552.4	1382.6	1202.4	1043.0	907.9	765.8	599.5	447.0
50°	2436.0	2141.5	1898.9	1670.2	1479.6	1292.5	1108.9	963.3	817.8	644.5	474.7
47.5°	2689.0	2363.2	2058.3	1808.8	1583.6	1379.1	1185.1	1011.8	866.3	686.1	502.4
45°	2983.5	2574.6	2238.5	1944.0	1684.1	1469.2	1261.3	1063.8	907.9	727.7	530.2
42.5°	3267.7	2824.1	2425.6	2093.0	1798.4	1555.9	1330.6	1119.2	949.5	769.3	554.4
40°	3603.8	3073.6	2605.8	2235.0	1912.8	1639.0	1399.9	1178.2	987.6	807.4	578.7
37.5°	3926.0	3326.6	2824.1	2391.0	2023.7	1722.2	1469.2	1233.6	1022.2	845.5	609.9
35°	4244.8	3607.2	3032.0	2536.5	2138.0	1815.7	1538.5	1285.6	1056.9	876.7	637.6
32.5°	4549.8	3870.6	3243.4	2699.4	2262.8	1902.4	1600.9	1334.1	1091.5	904.4	665.3
30°	4833.9	4120.1	3451.3	2865.7	2377.1	1982.1	1659.8	1382.6	1133.1	928.7	693.0
27.5°	5093.8	4362.6	3659.2	3021.6	2484.5	2054.8	1722.2	1427.7	1167.8	952.9	717.3
25°	5329.4	4581.0	3849.8	3163.7	2581.6	2134.5	1781.1	1472.7	1198.9	973.7	738.1
22.5°	5551.2	4781.9	4023.1	3305.8	2699.4	2214.2	1836.5	1514.3	1230.1	994.5	758.9
20°	5745.3	4965.6	4189.4	3447.8	2803.3	2287.0	1885.1	1552.4	1257.9	1008.4	779.7
17.5°	5901.2	5128.5	4338.4	3572.6	2893.4	2349.4	1926.6	1587.0	1282.1	1025.7	793.5
15°	6039.8	5267.1	4463.1	3680.0	2973.1	2401.4	1964.8	1614.8	1302.9	1036.1	810.8
12.5°	6157.6	5384.9	4570.6	3773.6	3042.4	2446.4	1995.9	1635.6	1320.2	1046.5	821.2
10°	6254.6	5478.4	4660.7	3846.3	3097.9	2481.1	2020.2	1656.4	1334.1	1056.9	831.6
7.5°	6327.4	5547.7	4726.5	3908.7	3142.9	2505.3	2041.0	1670.2	1348.0	1063.8	849.0
5°	6382.8	5606.6	4778.5	3950.3	3177.6	2540.0	2065.2	1687.5	1361.8	1070.7	849.0
2.5°	6424.4	5655.2	4820.1	3984.9	3205.3	2533.0	2065.2	1684.1	1361.8	1070.7	845.5
0°	6417.5	5658.6	4816.6	3984.9	3205.3	2526.1	2065.2	1680.6	1361.8	1070.7	845.5



REPORT NUMBER: P628313  
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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.3	17.3	6.9	0.0
85°	52.0	34.7	17.3	0.0
82.5°	76.2	48.5	24.3	0.0
80°	100.5	65.8	31.2	0.0
77.5°	128.2	83.2	41.6	0.0
75°	152.5	97.0	48.5	0.0
72.5°	176.7	114.4	55.4	0.0
70°	197.5	128.2	62.4	0.0
67.5°	218.3	145.5	72.8	0.0
65°	235.6	159.4	79.7	0.0
62.5°	249.5	176.7	86.6	0.0
60°	266.8	190.6	93.6	0.0
57.5°	280.7	201.0	100.5	0.0
55°	294.5	207.9	107.4	0.0
52.5°	308.4	218.3	114.4	0.0
50°	322.3	228.7	121.3	0.0
47.5°	336.1	235.6	124.7	0.0
45°	356.9	246.0	131.7	0.0
42.5°	374.2	253.0	138.6	0.0
40°	391.6	259.9	142.1	0.0
37.5°	408.9	266.8	149.0	0.0
35°	426.2	273.7	152.5	0.0
32.5°	440.1	280.7	155.9	0.0
30°	453.9	287.6	159.4	0.0
27.5°	467.8	291.1	162.9	0.0
25°	478.2	298.0	166.3	0.0
22.5°	488.6	301.5	169.8	0.0
20°	495.5	304.9	173.3	0.0
17.5°	505.9	308.4	176.7	0.0
15°	509.4	311.9	183.7	0.0
12.5°	516.3	315.3	183.7	0.0
10°	519.8	318.8	183.7	0.0
7.5°	526.7	318.8	183.7	0.0
5°	523.2	318.8	183.7	0.0
2.5°	523.2	318.8	183.7	0.0
0°	519.8	318.8	183.7	0.0

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