

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: P628205

Luminaire Tested: **IFLD-L-SA8B-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628205
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	35029.2 lumens	Max Intensity:	11418.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	109.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

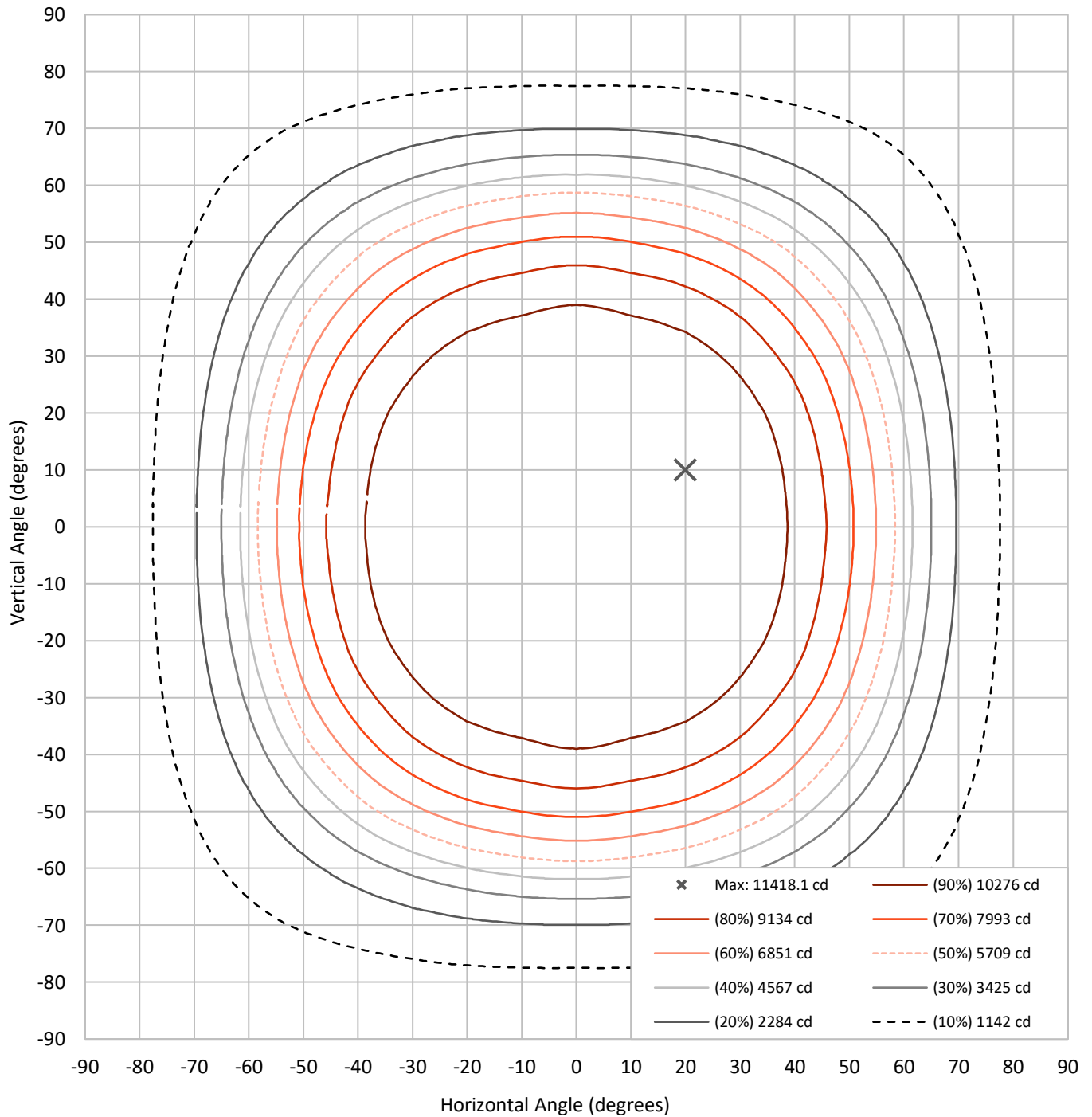
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21494.6 lumens	Field Lumens:	25768.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 320
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



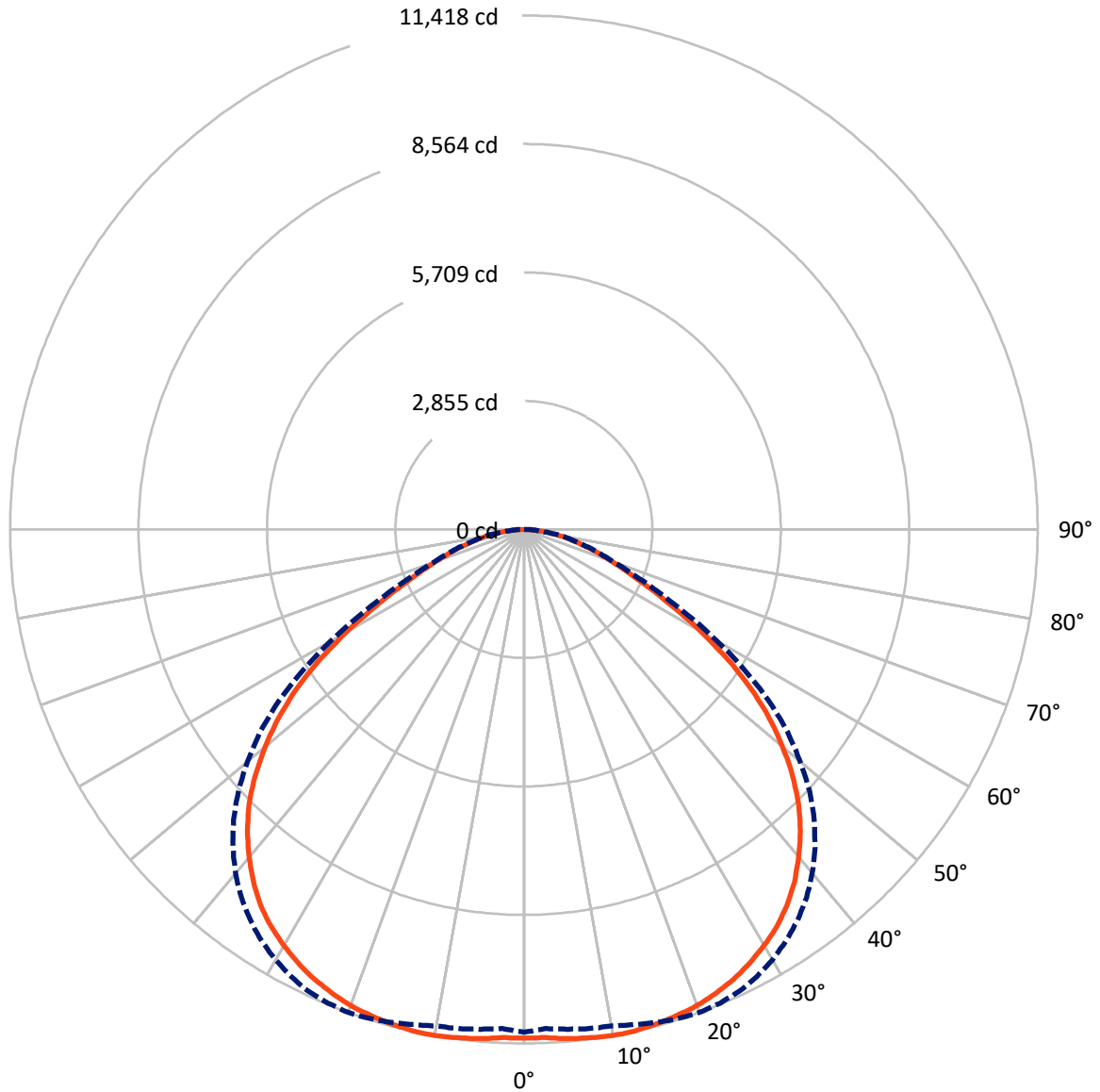
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Iso-Candela Plot



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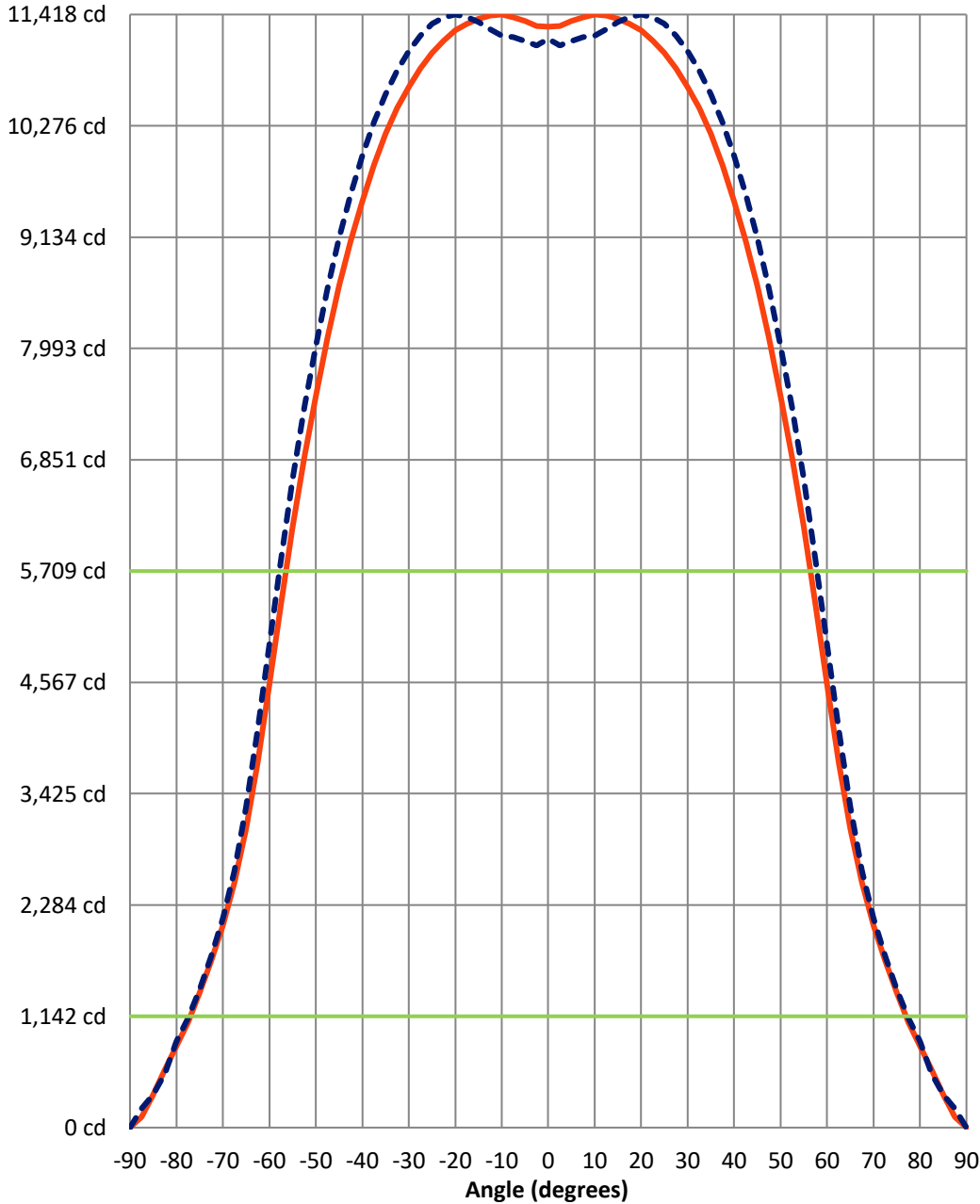
Luminous Intensity Polar Plot



— 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: 21494.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 25768.4
 Efficiency: 73.6%

Spill:
 Lumens: 9260.8
 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°	92.1	99.5	103.2	106.9	110.6	114.3	117.9	114.3	110.6	110.6	106.9
85°	246.9	254.3	258.0	283.8	309.6	324.3	342.8	339.1	339.1	335.4	331.7
82.5°	493.9	516.0	534.4	560.2	575.0	597.1	611.8	600.8	593.4	578.6	567.6
80°	877.2	884.6	888.2	891.9	873.5	869.8	862.4	851.4	836.6	818.2	799.8
77.5°	1116.7	1124.1	1131.5	1124.1	1120.4	1116.7	1105.7	1094.6	1079.9	1065.1	1043.0
75°	1477.9	1477.9	1477.9	1466.9	1459.5	1448.5	1430.0	1411.6	1385.8	1356.3	1323.1
72.5°	1861.2	1857.6	1853.9	1831.8	1813.3	1791.2	1765.4	1743.3	1713.8	1680.7	1636.4
70°	2263.0	2270.4	2274.0	2244.6	2222.4	2193.0	2159.8	2119.2	2075.0	2027.1	1964.4
67.5°	2815.8	2808.5	2801.1	2760.5	2731.1	2690.5	2642.6	2583.6	2517.3	2443.6	2355.1
65°	3501.4	3512.4	3490.3	3449.8	3394.5	3328.1	3254.4	3169.6	3070.1	2959.6	2834.3
62.5°	4330.6	4349.1	4323.3	4271.7	4201.6	4113.2	4010.0	3888.3	3752.0	3597.2	3442.4
60°	5274.1	5270.5	5222.5	5152.5	5060.4	4949.8	4835.6	4702.9	4548.1	4367.5	4179.5
57.5°	6140.3	6132.9	6073.9	6003.9	5911.8	5793.8	5672.2	5532.1	5370.0	5178.3	4960.9
55°	6917.9	6910.6	6851.6	6777.9	6682.1	6564.1	6453.6	6320.9	6162.4	5959.7	5727.5
52.5°	7607.2	7610.8	7559.2	7478.2	7375.0	7260.7	7153.8	7021.1	6870.0	6667.3	6442.5
50°	8241.1	8237.4	8182.1	8108.4	8012.6	7902.0	7795.1	7662.4	7504.0	7308.6	7091.2
47.5°	8830.8	8823.4	8760.8	8679.7	8580.2	8484.3	8384.8	8266.9	8101.0	7905.7	7688.2
45°	9324.7	9309.9	9247.3	9169.9	9074.0	8989.3	8900.8	8812.4	8635.4	8454.9	8248.5
42.5°	9748.5	9744.8	9682.2	9604.8	9508.9	9435.2	9354.1	9243.6	9096.2	8930.3	8727.6
40°	10153.9	10124.4	10061.8	9988.1	9899.6	9837.0	9755.9	9645.3	9501.6	9339.4	9144.1
37.5°	10456.2	10459.8	10393.5	10312.4	10235.0	10176.0	10102.3	9999.1	9873.8	9715.3	9520.0
35°	10743.6	10725.2	10669.9	10599.9	10529.9	10463.5	10386.1	10297.7	10194.5	10047.0	9862.8
32.5°	10931.6	10957.4	10891.1	10817.3	10776.8	10725.2	10644.1	10552.0	10459.8	10312.4	10146.6
30°	11138.0	11115.9	11064.3	11001.6	10972.1	10939.0	10868.9	10780.5	10673.6	10540.9	10386.1
27.5°	11281.7	11270.7	11208.0	11149.1	11134.3	11104.8	11049.5	10972.1	10865.3	10736.3	10592.5
25°	11344.4	11351.8	11292.8	11259.6	11259.6	11241.2	11197.0	11130.6	11023.7	10905.8	10765.7
22.5°	11373.9	11366.5	11326.0	11318.6	11337.0	11322.3	11303.8	11244.9	11149.1	11053.2	10935.3
20°	11392.3	11340.7	11303.8	11333.3	11355.4	11351.8	11337.0	11300.2	11255.9	11174.9	11071.7
17.5°	11351.8	11318.6	11274.4	11318.6	11366.5	11370.2	11355.4	11333.3	11322.3	11270.7	11178.5
15°	11252.2	11226.5	11233.8	11278.0	11333.3	11351.8	11362.8	11388.6	11373.9	11333.3	11252.2
12.5°	11185.9	11152.7	11185.9	11230.1	11259.6	11270.7	11359.1	11407.0	11407.0	11370.2	11318.6
10°	11167.5	11101.1	11145.4	11185.9	11200.7	11267.0	11340.7	11392.3	11418.1	11388.6	11322.3
7.5°	11130.6	11086.4	11104.8	11123.3	11208.0	11255.9	11296.5	11351.8	11388.6	11384.9	11326.0
5°	11112.2	11056.9	11064.3	11141.7	11200.7	11233.8	11248.6	11296.5	11351.8	11362.8	11318.6
2.5°	11064.3	11038.5	11093.8	11101.1	11145.4	11171.2	11185.9	11230.1	11300.2	11326.0	11307.5
0°	11038.5	11001.6	10964.8	10994.3	11068.0	11123.3	11145.4	11211.7	11292.8	11318.6	11278.0



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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°	103.2	99.5	95.8	92.1	95.8	95.8	95.8	92.1	95.8	92.1	92.1
85°	320.7	305.9	294.9	280.1	265.4	254.3	239.6	224.8	221.1	217.5	210.1
82.5°	552.8	534.4	516.0	493.9	471.8	446.0	420.2	390.7	383.3	375.9	364.9
80°	777.7	751.9	726.1	700.3	678.2	652.4	622.9	589.7	567.6	549.2	527.0
77.5°	1013.6	976.7	939.8	895.6	869.8	844.0	814.5	781.4	748.2	718.7	685.5
75°	1282.6	1242.1	1205.2	1161.0	1113.1	1065.1	1017.2	973.0	925.1	880.9	836.6
72.5°	1581.1	1522.2	1463.2	1407.9	1348.9	1290.0	1227.3	1168.3	1109.4	1050.4	987.8
70°	1894.4	1820.7	1747.0	1673.3	1595.9	1518.5	1444.8	1371.1	1297.3	1219.9	1149.9
67.5°	2263.0	2178.2	2082.4	1979.2	1864.9	1765.4	1669.6	1581.1	1492.7	1404.2	1315.8
65°	2723.7	2605.7	2476.7	2336.7	2204.0	2071.3	1931.3	1798.6	1695.4	1592.2	1492.7
62.5°	3291.3	3125.4	2944.8	2764.2	2602.1	2428.8	2266.7	2093.4	1931.3	1783.8	1662.2
60°	3969.4	3744.6	3523.5	3291.3	3066.4	2830.6	2624.2	2410.4	2207.7	2027.1	1850.2
57.5°	4717.6	4455.9	4190.6	3906.8	3600.9	3324.4	3044.3	2764.2	2524.7	2285.1	2086.1
55°	5476.9	5200.4	4901.9	4581.2	4245.9	3892.0	3512.4	3199.1	2871.1	2591.0	2333.0
52.5°	6199.2	5911.8	5602.2	5307.3	4905.6	4500.2	4083.7	3670.9	3287.6	2930.1	2616.8
50°	6844.2	6564.1	6265.6	5922.8	5550.6	5119.3	4655.0	4190.6	3737.2	3317.1	2926.4
47.5°	7433.9	7161.2	6862.7	6519.9	6180.8	5701.7	5233.6	4721.3	4216.4	3733.6	3276.5
45°	7986.8	7710.4	7400.8	7072.7	6682.1	6254.5	5771.7	5255.7	4713.9	4172.1	3645.1
42.5°	8488.0	8211.6	7898.3	7559.2	7172.2	6748.4	6280.3	5760.7	5215.2	4625.5	4046.8
40°	8926.6	8657.6	8355.3	8001.5	7640.3	7194.4	6733.7	6239.8	5675.9	5082.5	4444.9
37.5°	9309.9	9059.3	8760.8	8410.6	8027.3	7629.3	7153.8	6659.9	6151.3	5506.3	4854.0
35°	9649.0	9416.8	9110.9	8779.2	8403.3	7983.1	7537.1	7054.3	6505.1	5900.7	5266.8
32.5°	9943.8	9708.0	9427.9	9096.2	8731.3	8336.9	7879.9	7393.4	6873.7	6258.2	5569.0
30°	10194.5	9966.0	9700.6	9387.3	9037.2	8646.5	8200.5	7710.4	7179.6	6567.8	5886.0
27.5°	10411.9	10194.5	9936.5	9645.3	9309.9	8934.0	8484.3	7990.5	7448.7	6859.0	6177.1
25°	10599.9	10389.8	10150.2	9873.8	9542.1	9173.6	8749.7	8233.7	7691.9	7098.5	6424.1
22.5°	10769.4	10566.7	10327.2	10058.1	9755.9	9387.3	8959.8	8447.5	7898.3	7312.3	6648.9
20°	10920.5	10732.6	10496.7	10220.3	9918.0	9545.8	9122.0	8635.4	8082.6	7507.6	6851.6
17.5°	11042.2	10876.3	10640.4	10349.3	10047.0	9685.9	9273.1	8827.1	8241.1	7673.5	7021.1
15°	11126.9	10964.8	10751.0	10456.2	10161.3	9803.8	9391.0	8930.3	8384.8	7806.2	7161.2
12.5°	11185.9	11012.7	10813.7	10540.9	10246.1	9892.2	9490.5	9037.2	8506.4	7924.1	7282.8
10°	11200.7	11042.2	10843.1	10599.9	10312.4	9969.6	9575.3	9125.6	8606.0	8016.3	7382.3
7.5°	11208.0	11056.9	10876.3	10644.1	10360.3	10028.6	9637.9	9195.7	8679.7	8093.7	7456.0
5°	11204.3	11060.6	10898.4	10673.6	10389.8	10061.8	9678.5	9243.6	8731.3	8145.3	7511.3
2.5°	11193.3	11064.3	10913.2	10695.7	10423.0	10098.6	9719.0	9298.9	8786.6	8189.5	7555.6
0°	11222.8	11112.2	10920.5	10688.3	10430.4	10098.6	9715.3	9306.2	8793.9	8185.8	7551.9



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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°	92.1	88.5	88.5	84.8	81.1	77.4	70.0	66.3	59.0	47.9	36.9
85°	199.0	188.0	176.9	169.5	162.2	154.8	143.7	132.7	117.9	95.8	73.7
82.5°	350.1	328.0	305.9	280.1	258.0	235.9	217.5	199.0	176.9	143.7	110.6
80°	501.2	468.1	434.9	398.0	364.9	328.0	294.9	265.4	235.9	191.7	147.4
77.5°	652.4	608.1	560.2	516.0	468.1	420.2	372.2	331.7	287.5	235.9	184.3
75°	792.4	740.8	696.6	633.9	575.0	512.3	449.6	394.4	339.1	276.4	221.1
72.5°	932.5	866.1	803.5	744.5	678.2	600.8	530.7	460.7	390.7	317.0	250.6
70°	1072.5	991.4	914.0	844.0	770.3	692.9	608.1	527.0	442.3	353.8	276.4
67.5°	1216.3	1124.1	1035.7	947.2	862.4	774.0	685.5	593.4	493.9	390.7	305.9
65°	1374.7	1260.5	1153.6	1054.1	954.6	858.8	759.2	659.7	549.2	431.2	331.7
62.5°	1533.2	1407.9	1282.6	1157.3	1046.7	939.8	833.0	722.4	600.8	475.4	357.5
60°	1702.8	1559.0	1415.3	1275.2	1138.9	1020.9	903.0	785.0	656.0	516.0	383.3
57.5°	1890.7	1717.5	1555.3	1396.9	1242.1	1102.0	973.0	847.7	704.0	556.5	412.8
55°	2104.5	1890.7	1699.1	1522.2	1352.6	1183.1	1043.0	914.0	759.2	597.1	446.0
52.5°	2329.3	2082.4	1850.2	1651.2	1470.6	1278.9	1109.4	965.6	814.5	637.6	475.4
50°	2591.0	2277.7	2019.7	1776.5	1573.8	1374.7	1179.4	1024.6	869.8	685.5	504.9
47.5°	2860.1	2513.6	2189.3	1923.9	1684.3	1466.9	1260.5	1076.2	921.4	729.8	534.4
45°	3173.3	2738.4	2380.9	2067.6	1791.2	1562.7	1341.6	1131.5	965.6	774.0	563.9
42.5°	3475.6	3003.8	2579.9	2226.1	1912.8	1654.9	1415.3	1190.5	1009.9	818.2	589.7
40°	3833.1	3269.2	2771.6	2377.2	2034.5	1743.3	1489.0	1253.1	1050.4	858.8	615.5
37.5°	4175.8	3538.2	3003.8	2543.1	2152.4	1831.8	1562.7	1312.1	1087.3	899.3	648.7
35°	4514.9	3836.7	3224.9	2697.9	2274.0	1931.3	1636.4	1367.4	1124.1	932.5	678.2
32.5°	4839.2	4116.9	3449.8	2871.1	2406.7	2023.4	1702.8	1419.0	1161.0	962.0	707.6
30°	5141.5	4382.2	3670.9	3048.0	2528.3	2108.2	1765.4	1470.6	1205.2	987.8	737.1
27.5°	5417.9	4640.2	3892.0	3213.9	2642.6	2185.6	1831.8	1518.5	1242.1	1013.6	762.9
25°	5668.5	4872.4	4094.7	3365.0	2745.8	2270.4	1894.4	1566.4	1275.2	1035.7	785.0
22.5°	5904.4	5086.2	4279.0	3516.1	2871.1	2355.1	1953.4	1610.6	1308.4	1057.8	807.2
20°	6110.8	5281.5	4455.9	3667.2	2981.7	2432.5	2005.0	1651.2	1337.9	1072.5	829.3
17.5°	6276.6	5454.7	4614.4	3799.9	3077.5	2498.9	2049.2	1688.0	1363.7	1090.9	844.0
15°	6424.1	5602.2	4747.1	3914.1	3162.3	2554.1	2089.8	1717.5	1385.8	1102.0	862.4
12.5°	6549.4	5727.5	4861.4	4013.7	3236.0	2602.1	2122.9	1739.6	1404.2	1113.1	873.5
10°	6652.6	5827.0	4957.2	4091.1	3295.0	2638.9	2148.7	1761.7	1419.0	1124.1	884.6
7.5°	6730.0	5900.7	5027.2	4157.4	3342.9	2664.7	2170.8	1776.5	1433.7	1131.5	903.0
5°	6788.9	5963.4	5082.5	4201.6	3379.7	2701.6	2196.6	1794.9	1448.5	1138.9	903.0
2.5°	6833.2	6015.0	5126.7	4238.5	3409.2	2694.2	2196.6	1791.2	1448.5	1138.9	899.3
0°	6825.8	6018.6	5123.0	4238.5	3409.2	2686.8	2196.6	1787.5	1448.5	1138.9	899.3



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 CATALOG NUMBER: IFLD-L-SA8B-727-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.8	18.4	7.4	0.0
85°	55.3	36.9	18.4	0.0
82.5°	81.1	51.6	25.8	0.0
80°	106.9	70.0	33.2	0.0
77.5°	136.4	88.5	44.2	0.0
75°	162.2	103.2	51.6	0.0
72.5°	188.0	121.6	59.0	0.0
70°	210.1	136.4	66.3	0.0
67.5°	232.2	154.8	77.4	0.0
65°	250.6	169.5	84.8	0.0
62.5°	265.4	188.0	92.1	0.0
60°	283.8	202.7	99.5	0.0
57.5°	298.5	213.8	106.9	0.0
55°	313.3	221.1	114.3	0.0
52.5°	328.0	232.2	121.6	0.0
50°	342.8	243.3	129.0	0.0
47.5°	357.5	250.6	132.7	0.0
45°	379.6	261.7	140.1	0.0
42.5°	398.0	269.1	147.4	0.0
40°	416.5	276.4	151.1	0.0
37.5°	434.9	283.8	158.5	0.0
35°	453.3	291.2	162.2	0.0
32.5°	468.1	298.5	165.9	0.0
30°	482.8	305.9	169.5	0.0
27.5°	497.6	309.6	173.2	0.0
25°	508.6	317.0	176.9	0.0
22.5°	519.7	320.7	180.6	0.0
20°	527.0	324.3	184.3	0.0
17.5°	538.1	328.0	188.0	0.0
15°	541.8	331.7	195.3	0.0
12.5°	549.2	335.4	195.3	0.0
10°	552.8	339.1	195.3	0.0
7.5°	560.2	339.1	195.3	0.0
5°	556.5	339.1	195.3	0.0
2.5°	556.5	339.1	195.3	0.0
0°	552.8	339.1	195.3	0.0

(END OF REPORT)