

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: P624608

Luminaire Tested: **IFLD-L-SA8B-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624608
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

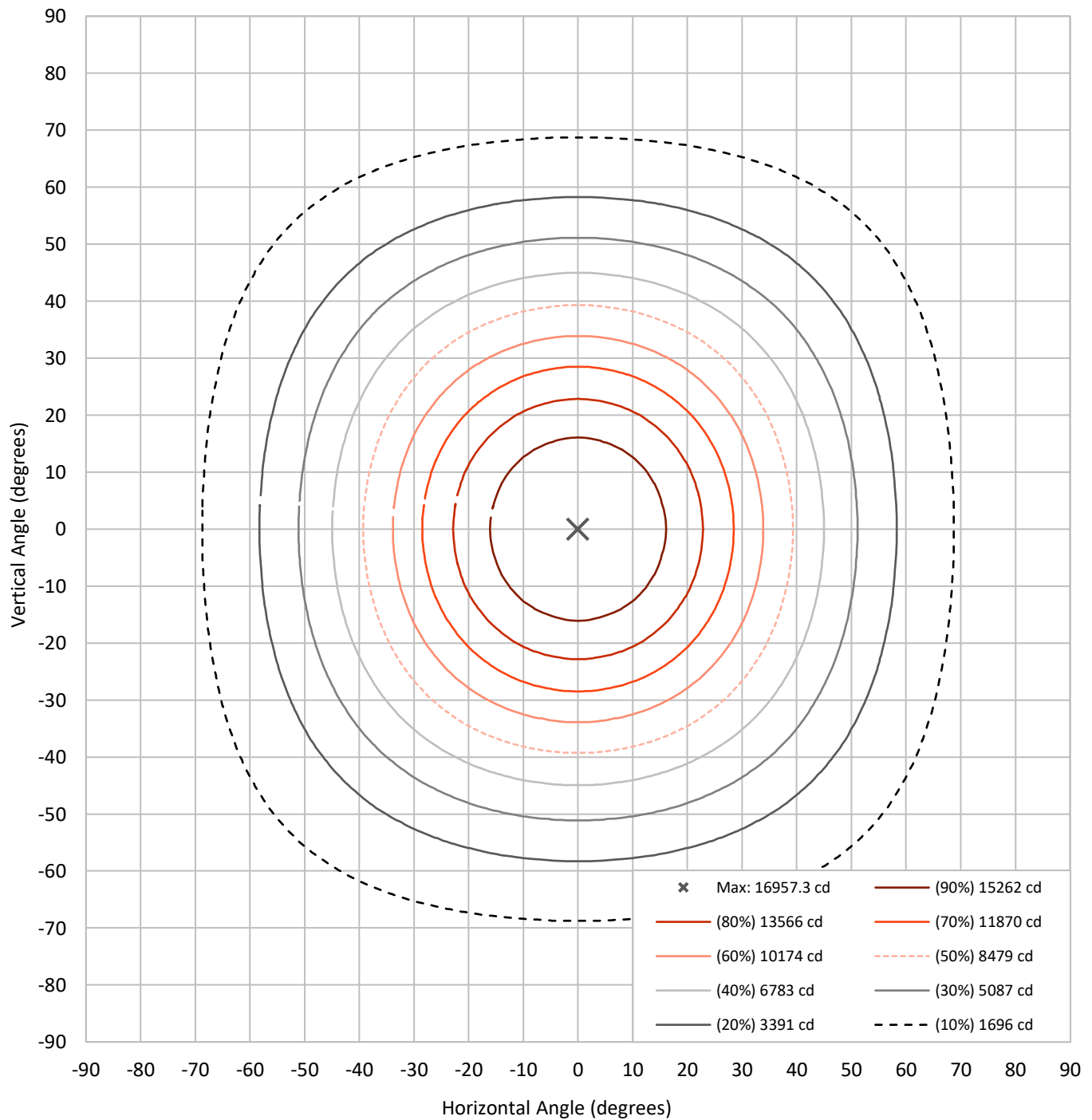
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30532 lumens	Max Intensity:	16957.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	13210.9 lumens	Field Lumens:	21632.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

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



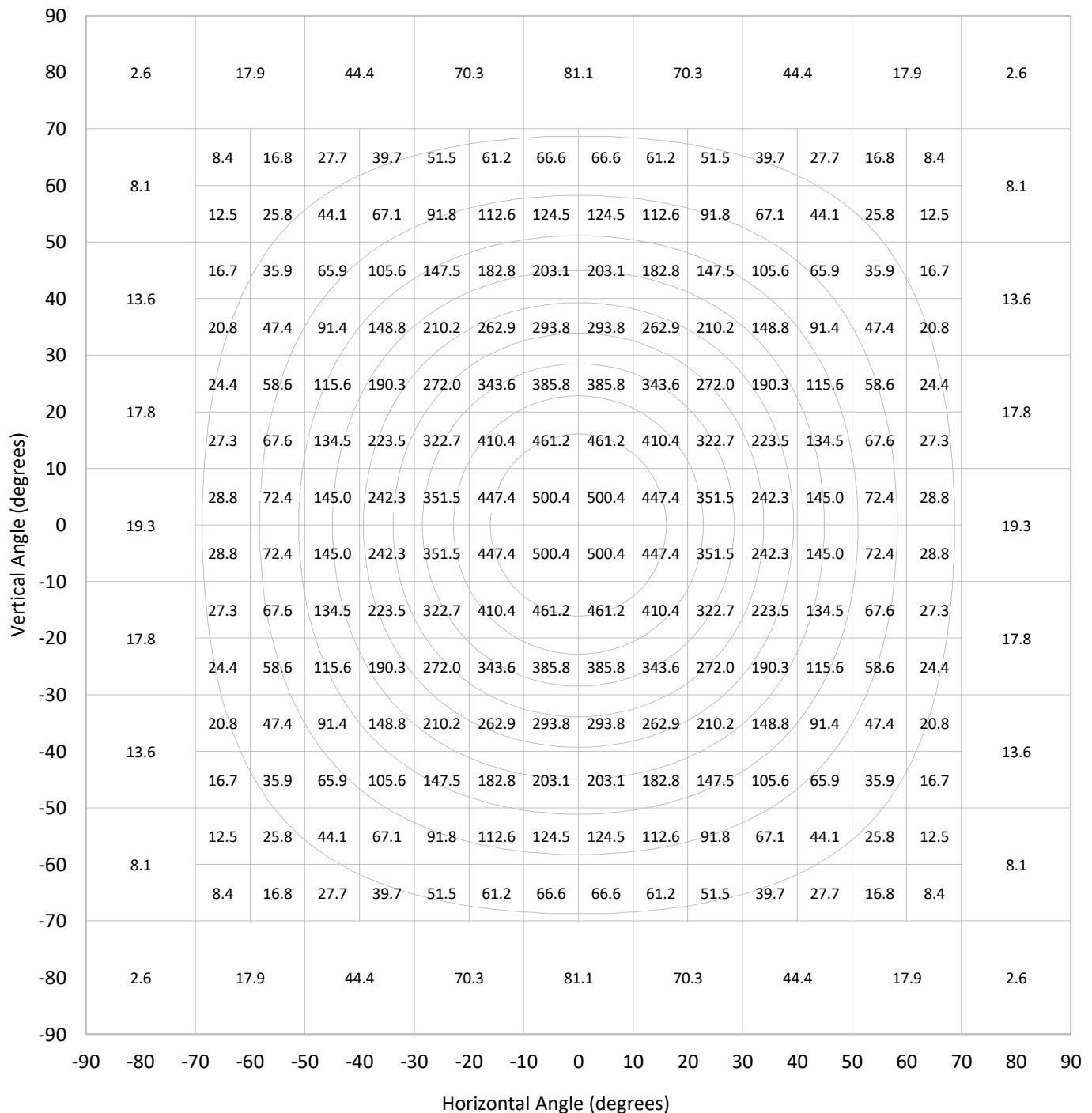
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Iso-Candela Plot



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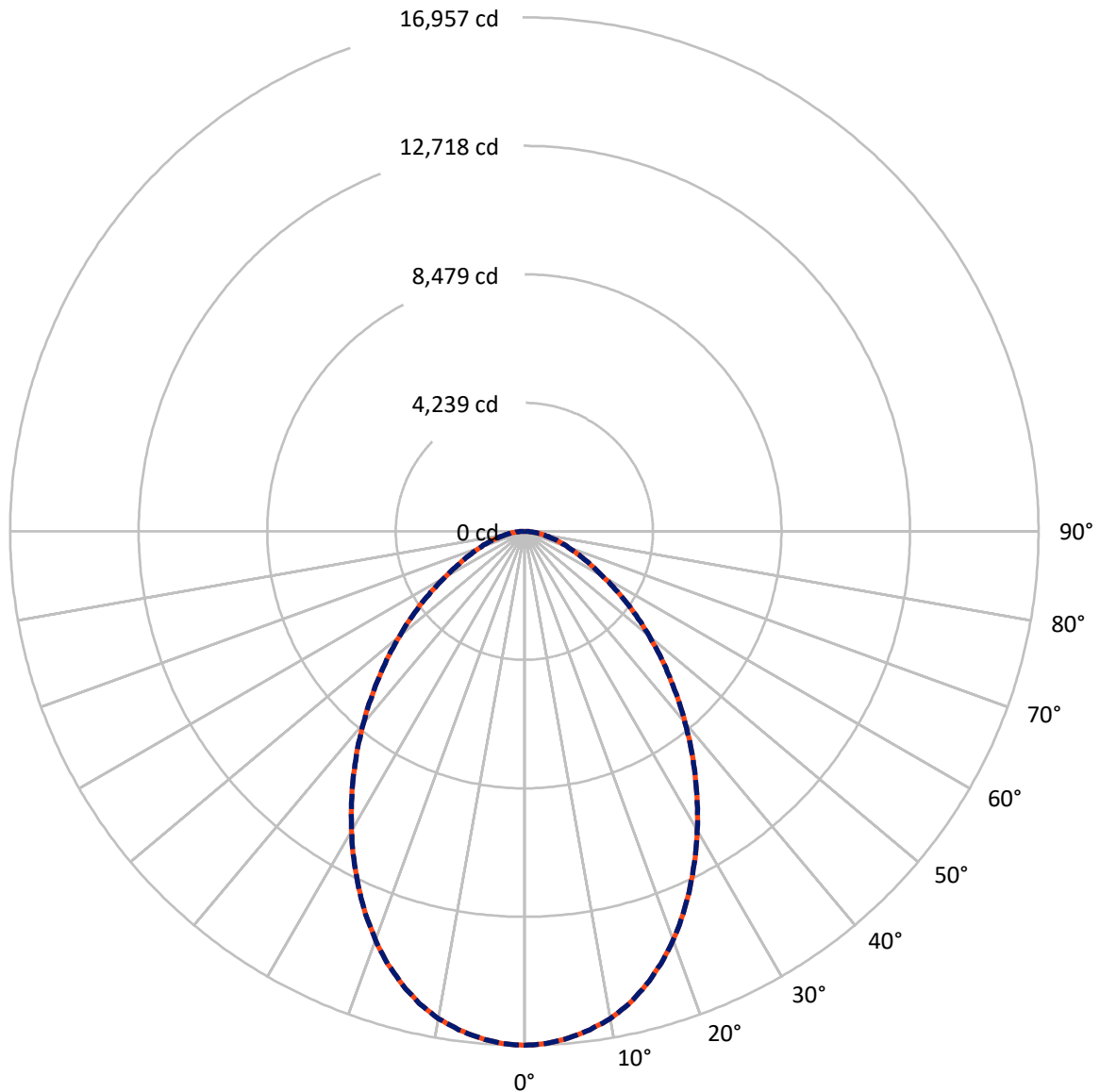
Lumen Table



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Luminous Intensity Polar Plot



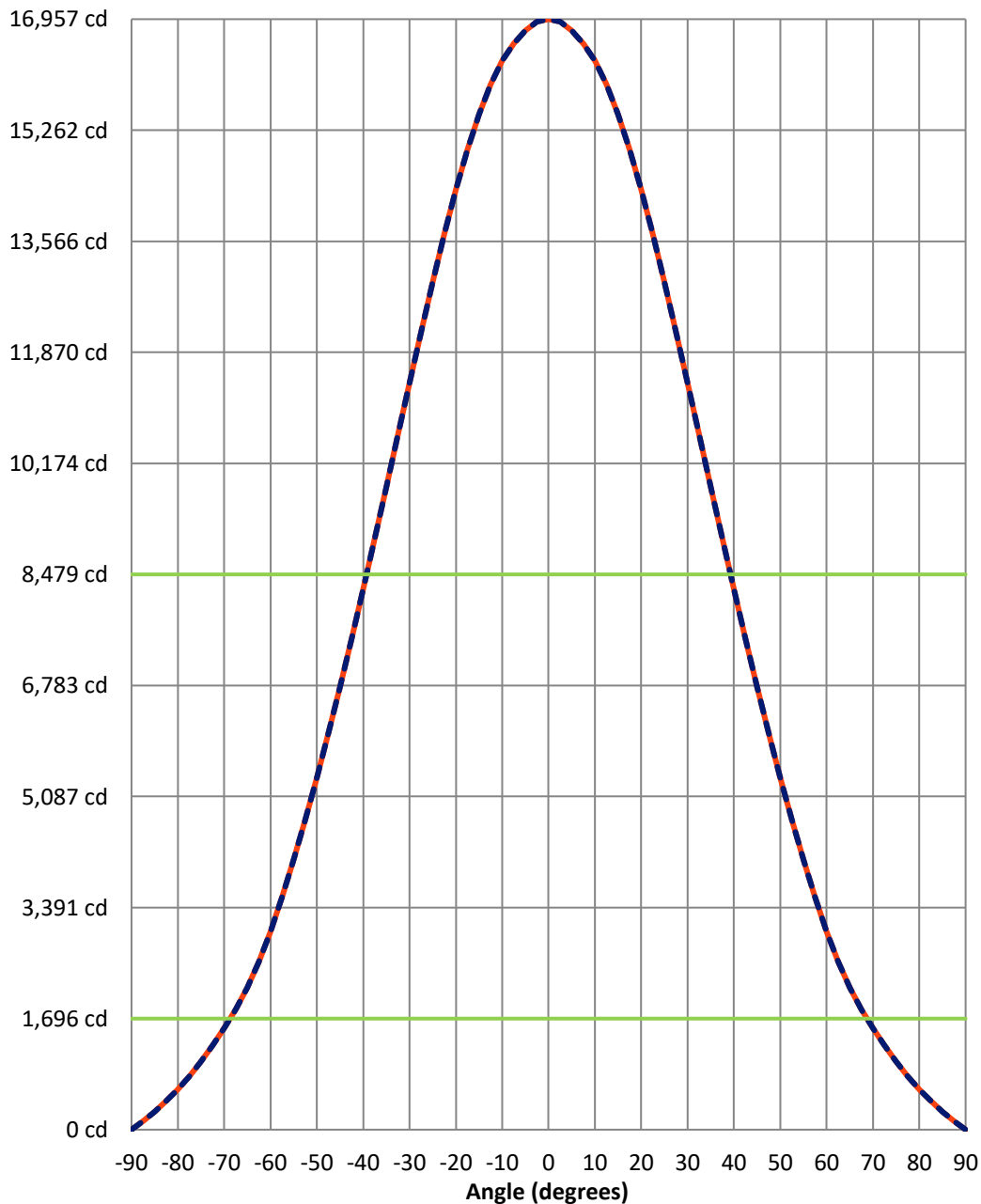
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 13210.9
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 21632.4
Efficiency: 70.9%

Spill:

Lumens: 8899.6
Efficiency: 29.1%

— 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°	130.5	130.5	130.5	130.5	130.5	130.5	130.5	124.1	124.1	121.0	117.8
85°	273.8	273.8	273.8	273.8	273.8	267.4	264.2	261.0	257.8	251.5	248.3
82.5°	439.3	439.3	439.3	439.3	432.9	426.6	423.4	417.0	410.6	401.1	391.5
80°	614.4	614.4	614.4	614.4	604.8	598.5	588.9	582.5	573.0	560.3	547.5
77.5°	814.9	814.9	814.9	805.4	799.0	789.5	779.9	767.2	754.4	738.5	719.4
75°	1040.9	1040.9	1040.9	1028.2	1018.6	1009.1	993.2	977.3	958.2	935.9	910.4
72.5°	1286.0	1286.0	1286.0	1270.1	1260.6	1244.7	1225.6	1203.3	1181.0	1152.3	1120.5
70°	1550.3	1550.3	1550.3	1531.2	1515.2	1499.3	1473.9	1448.4	1416.6	1384.7	1346.5
67.5°	1836.7	1836.7	1836.7	1814.5	1795.4	1773.1	1744.4	1712.6	1674.4	1629.8	1585.3
65°	2171.0	2171.0	2158.3	2139.2	2116.9	2085.0	2050.0	2005.5	1957.7	1900.4	1839.9
62.5°	2565.7	2565.7	2546.6	2524.3	2495.7	2454.3	2406.6	2349.3	2282.4	2209.2	2136.0
60°	3024.1	3024.1	3001.8	2973.2	2931.8	2880.9	2817.2	2744.0	2661.2	2568.9	2479.8
57.5°	3552.5	3552.5	3523.9	3485.7	3434.8	3371.1	3291.5	3199.2	3094.1	2979.5	2868.1
55°	4125.5	4125.5	4090.5	4045.9	3985.5	3909.1	3813.6	3705.3	3578.0	3447.5	3304.2
52.5°	4733.5	4733.5	4692.1	4641.2	4571.2	4482.0	4373.8	4246.5	4100.1	3947.3	3778.5
50°	5373.4	5373.4	5325.6	5268.3	5188.7	5083.7	4959.5	4813.1	4650.8	4472.5	4278.3
47.5°	6057.8	6057.8	6003.7	5936.8	5841.3	5720.3	5573.9	5405.2	5220.6	5020.0	4800.4
45°	6761.3	6761.3	6700.8	6624.4	6519.3	6382.5	6220.1	6057.8	5822.2	5589.8	5335.2
42.5°	7493.4	7493.4	7423.4	7337.4	7216.5	7066.9	6882.2	6672.1	6439.8	6178.7	5901.8
40°	8254.2	8254.2	8174.6	8076.0	7942.3	7770.4	7563.5	7327.9	7066.9	6777.2	6471.6
37.5°	9030.9	9030.9	8941.8	8833.6	8684.0	8493.0	8260.6	7999.6	7706.7	7385.2	7047.8
35°	9814.0	9814.0	9715.4	9597.6	9432.0	9221.9	8970.5	8680.8	8356.1	8005.9	7627.1
32.5°	10613.0	10613.0	10504.8	10371.1	10183.3	9950.9	9674.0	9358.8	9030.9	8623.5	8209.7
30°	11402.5	11402.5	11284.7	11138.3	10937.7	10683.1	10380.7	10033.7	9648.5	9231.5	8785.8
27.5°	12179.2	12147.4	12048.7	11892.7	11673.1	11402.5	11074.6	10699.0	10282.0	9823.6	9346.1
25°	12943.2	12908.2	12799.9	12628.0	12392.5	12096.4	11743.1	11342.0	10893.2	10409.3	9887.2
22.5°	13675.3	13637.1	13522.5	13337.9	13086.4	12764.9	12386.1	11956.4	11478.9	10960.0	10409.3
20°	14353.4	14312.0	14194.2	14000.0	13739.0	13398.4	12997.3	12535.7	12026.4	11478.9	10893.2
17.5°	14964.6	14923.2	14799.0	14598.5	14353.4	13974.6	13560.7	13073.7	12535.7	11956.4	11342.0
15°	15502.5	15458.0	15330.6	15130.1	14850.0	14493.4	14057.3	13560.7	12997.3	12386.1	11743.1
12.5°	15960.9	15916.4	15785.9	15585.3	15295.6	14939.1	14493.4	13974.6	13398.4	12764.9	12096.4
10°	16323.8	16279.3	16155.1	15964.1	15664.9	15295.6	14850.0	14353.4	13739.0	13086.4	12392.5
7.5°	16584.9	16543.5	16428.9	16237.9	15964.1	15585.3	15130.1	14598.5	14000.0	13337.9	12628.0
5°	16782.2	16734.5	16619.9	16428.9	16155.1	15785.9	15330.6	14799.0	14194.2	13522.5	12799.9
2.5°	16919.1	16861.8	16734.5	16543.5	16279.3	15916.4	15458.0	14923.2	14312.0	13637.1	12908.2
0°	16957.3	16919.1	16782.2	16584.9	16323.8	15960.9	15502.5	14964.6	14353.4	13675.3	12943.2

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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°	114.6	114.6	111.4	108.2	105.0	98.7	95.5	92.3	89.1	82.8	79.6
85°	241.9	235.6	229.2	222.8	213.3	206.9	197.4	191.0	181.4	171.9	162.3
82.5°	382.0	372.4	359.7	350.2	337.4	321.5	308.8	292.9	276.9	264.2	248.3
80°	534.8	518.9	503.0	487.0	467.9	448.8	429.7	410.6	388.4	366.1	343.8
77.5°	700.3	678.0	655.8	630.3	608.0	582.5	557.1	531.6	503.0	474.3	445.7
75°	885.0	856.3	824.5	792.6	764.0	729.0	694.0	658.9	620.7	585.7	547.5
72.5°	1085.5	1050.5	1012.3	974.1	932.7	888.1	843.6	795.8	751.3	706.7	658.9
70°	1302.0	1260.6	1212.8	1165.1	1114.1	1060.0	1005.9	948.6	891.3	834.0	776.7
67.5°	1534.3	1483.4	1426.1	1368.8	1305.1	1241.5	1177.8	1111.0	1040.9	970.9	904.0
65°	1782.6	1719.0	1652.1	1578.9	1505.7	1432.5	1356.1	1276.5	1196.9	1114.1	1040.9
62.5°	2059.6	1980.0	1894.0	1804.9	1722.2	1633.0	1550.3	1451.6	1356.1	1263.8	1171.4
60°	2381.1	2276.0	2171.0	2059.6	1954.5	1839.9	1738.1	1629.8	1521.6	1416.6	1308.3
57.5°	2740.8	2607.1	2479.8	2346.1	2206.0	2078.7	1948.2	1817.6	1696.7	1572.5	1454.8
55°	3148.3	2985.9	2826.7	2661.2	2498.9	2339.7	2174.2	2027.7	1878.1	1738.1	1601.2
52.5°	3593.9	3409.3	3211.9	3024.1	2817.2	2619.8	2435.2	2250.6	2075.5	1906.8	1750.8
50°	4071.4	3854.9	3628.9	3399.7	3164.2	2931.8	2709.0	2492.5	2288.8	2091.4	1906.8
47.5°	4568.0	4322.9	4065.0	3804.0	3552.5	3269.2	3001.8	2756.7	2511.6	2288.8	2075.5
45°	5077.3	4800.4	4517.1	4221.0	3925.0	3619.4	3323.3	3024.1	2756.7	2492.5	2250.6
42.5°	5602.6	5290.6	4975.5	4647.6	4319.7	3985.5	3651.2	3323.3	3001.8	2709.0	2435.2
40°	6143.7	5799.9	5440.2	5083.7	4733.5	4351.5	3985.5	3619.4	3269.2	2931.8	2619.8
37.5°	6684.9	6309.2	5920.9	5519.8	5118.7	4733.5	4319.7	3925.0	3552.5	3164.2	2817.2
35°	7229.2	6815.4	6395.2	5959.1	5519.8	5083.7	4647.6	4221.0	3804.0	3399.7	3024.1
32.5°	7776.7	7324.7	6860.0	6395.2	5920.9	5440.2	4975.5	4517.1	4065.0	3628.9	3211.9
30°	8314.7	7824.5	7324.7	6815.4	6309.2	5799.9	5290.6	4800.4	4322.9	3854.9	3409.3
27.5°	8840.0	8314.7	7776.7	7229.2	6684.9	6143.7	5602.6	5077.3	4568.0	4071.4	3593.9
25°	9346.1	8785.8	8209.7	7627.1	7047.8	6471.6	5901.8	5335.2	4800.4	4278.3	3778.5
22.5°	9823.6	9231.5	8623.5	8005.9	7385.2	6777.2	6178.7	5589.8	5020.0	4472.5	3947.3
20°	10282.0	9648.5	9030.9	8356.1	7706.7	7066.9	6439.8	5822.2	5220.6	4650.8	4100.1
17.5°	10699.0	10033.7	9358.8	8680.8	7999.6	7327.9	6672.1	6057.8	5405.2	4813.1	4246.5
15°	11074.6	10380.7	9674.0	8970.5	8260.6	7563.5	6882.2	6220.1	5573.9	4959.5	4373.8
12.5°	11402.5	10683.1	9950.9	9221.9	8493.0	7770.4	7066.9	6382.5	5720.3	5083.7	4482.0
10°	11673.1	10937.7	10183.3	9432.0	8684.0	7942.3	7216.5	6519.3	5841.3	5188.7	4571.2
7.5°	11892.7	11138.3	10371.1	9597.6	8833.6	8076.0	7337.4	6624.4	5936.8	5268.3	4641.2
5°	12048.7	11284.7	10504.8	9715.4	8941.8	8174.6	7423.4	6700.8	6003.7	5325.6	4692.1
2.5°	12147.4	11402.5	10613.0	9814.0	9030.9	8254.2	7493.4	6761.3	6057.8	5373.4	4733.5
0°	12179.2	11402.5	10613.0	9814.0	9030.9	8254.2	7493.4	6761.3	6057.8	5373.4	4733.5

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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°	76.4	70.0	63.7	60.5	54.1	50.9	44.6	38.2	35.0	28.6	22.3
85°	152.8	140.1	130.5	121.0	111.4	98.7	89.1	79.6	66.8	57.3	44.6
82.5°	232.4	216.5	200.5	184.6	168.7	152.8	133.7	117.8	101.9	85.9	66.8
80°	321.5	296.0	273.8	251.5	229.2	206.9	181.4	159.2	133.7	111.4	89.1
77.5°	413.8	385.2	353.3	321.5	289.7	261.0	229.2	200.5	171.9	140.1	111.4
75°	512.5	474.3	439.3	397.9	359.7	318.3	280.1	241.9	206.9	171.9	133.7
72.5°	614.4	566.6	518.9	474.3	426.6	378.8	334.2	286.5	241.9	200.5	159.2
70°	719.4	662.1	604.8	550.7	496.6	439.3	388.4	334.2	280.1	229.2	181.4
67.5°	830.8	764.0	697.1	627.1	566.6	503.0	439.3	378.8	318.3	261.0	206.9
65°	951.8	872.2	789.5	716.2	636.7	566.6	496.6	426.6	359.7	289.7	229.2
62.5°	1075.9	983.6	891.3	799.0	716.2	627.1	550.7	474.3	397.9	321.5	251.5
60°	1203.3	1098.2	993.2	891.3	789.5	697.1	604.8	518.9	439.3	353.3	273.8
57.5°	1333.8	1216.0	1098.2	983.6	872.2	764.0	662.1	566.6	474.3	385.2	296.0
55°	1467.5	1333.8	1203.3	1075.9	951.8	830.8	719.4	614.4	512.5	413.8	321.5
52.5°	1601.2	1454.8	1308.3	1171.4	1040.9	904.0	776.7	658.9	547.5	445.7	343.8
50°	1738.1	1572.5	1416.6	1263.8	1114.1	970.9	834.0	706.7	585.7	474.3	366.1
47.5°	1878.1	1696.7	1521.6	1356.1	1196.9	1040.9	891.3	751.3	620.7	503.0	388.4
45°	2027.7	1817.6	1629.8	1451.6	1276.5	1111.0	948.6	795.8	658.9	531.6	410.6
42.5°	2174.2	1948.2	1738.1	1550.3	1356.1	1177.8	1005.9	843.6	694.0	557.1	429.7
40°	2339.7	2078.7	1839.9	1633.0	1432.5	1241.5	1060.0	888.1	729.0	582.5	448.8
37.5°	2498.9	2206.0	1954.5	1722.2	1505.7	1305.1	1114.1	932.7	764.0	608.0	467.9
35°	2661.2	2346.1	2059.6	1804.9	1578.9	1368.8	1165.1	974.1	792.6	630.3	487.0
32.5°	2826.7	2479.8	2171.0	1894.0	1652.1	1426.1	1212.8	1012.3	824.5	655.8	503.0
30°	2985.9	2607.1	2276.0	1980.0	1719.0	1483.4	1260.6	1050.5	856.3	678.0	518.9
27.5°	3148.3	2740.8	2381.1	2059.6	1782.6	1534.3	1302.0	1085.5	885.0	700.3	534.8
25°	3304.2	2868.1	2479.8	2136.0	1839.9	1585.3	1346.5	1120.5	910.4	719.4	547.5
22.5°	3447.5	2979.5	2568.9	2209.2	1900.4	1629.8	1384.7	1152.3	935.9	738.5	560.3
20°	3578.0	3094.1	2661.2	2282.4	1957.7	1674.4	1416.6	1181.0	958.2	754.4	573.0
17.5°	3705.3	3199.2	2744.0	2349.3	2005.5	1712.6	1448.4	1203.3	977.3	767.2	582.5
15°	3813.6	3291.5	2817.2	2406.6	2050.0	1744.4	1473.9	1225.6	993.2	779.9	588.9
12.5°	3909.1	3371.1	2880.9	2454.3	2085.0	1773.1	1499.3	1244.7	1009.1	789.5	598.5
10°	3985.5	3434.8	2931.8	2495.7	2116.9	1795.4	1515.2	1260.6	1018.6	799.0	604.8
7.5°	4045.9	3485.7	2973.2	2524.3	2139.2	1814.5	1531.2	1270.1	1028.2	805.4	614.4
5°	4090.5	3523.9	3001.8	2546.6	2158.3	1836.7	1550.3	1286.0	1040.9	814.9	614.4
2.5°	4125.5	3552.5	3024.1	2565.7	2171.0	1836.7	1550.3	1286.0	1040.9	814.9	614.4
0°	4125.5	3552.5	3024.1	2565.7	2171.0	1836.7	1550.3	1286.0	1040.9	814.9	614.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.9	12.7	6.4	0.0
85°	35.0	22.3	12.7	0.0
82.5°	50.9	35.0	15.9	0.0
80°	66.8	44.6	22.3	0.0
77.5°	85.9	57.3	28.6	0.0
75°	101.9	66.8	35.0	0.0
72.5°	117.8	79.6	38.2	0.0
70°	133.7	89.1	44.6	0.0
67.5°	152.8	98.7	50.9	0.0
65°	168.7	111.4	54.1	0.0
62.5°	184.6	121.0	60.5	0.0
60°	200.5	130.5	63.7	0.0
57.5°	216.5	140.1	70.0	0.0
55°	232.4	152.8	76.4	0.0
52.5°	248.3	162.3	79.6	0.0
50°	264.2	171.9	82.8	0.0
47.5°	276.9	181.4	89.1	0.0
45°	292.9	191.0	92.3	0.0
42.5°	308.8	197.4	95.5	0.0
40°	321.5	206.9	98.7	0.0
37.5°	337.4	213.3	105.0	0.0
35°	350.2	222.8	108.2	0.0
32.5°	359.7	229.2	111.4	0.0
30°	372.4	235.6	114.6	0.0
27.5°	382.0	241.9	114.6	0.0
25°	391.5	248.3	117.8	0.0
22.5°	401.1	251.5	121.0	0.0
20°	410.6	257.8	124.1	0.0
17.5°	417.0	261.0	124.1	0.0
15°	423.4	264.2	130.5	0.0
12.5°	426.6	267.4	130.5	0.0
10°	432.9	273.8	130.5	0.0
7.5°	439.3	273.8	130.5	0.0
5°	439.3	273.8	130.5	0.0
2.5°	439.3	273.8	130.5	0.0
0°	439.3	273.8	130.5	0.0

(END OF REPORT)