

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: P624594

Luminaire Tested: **IFLD-S-SA6C-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624594
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31172.1 lumens	Max Intensity:	17312.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	97.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	13487.8 lumens	Field Lumens:	22085.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

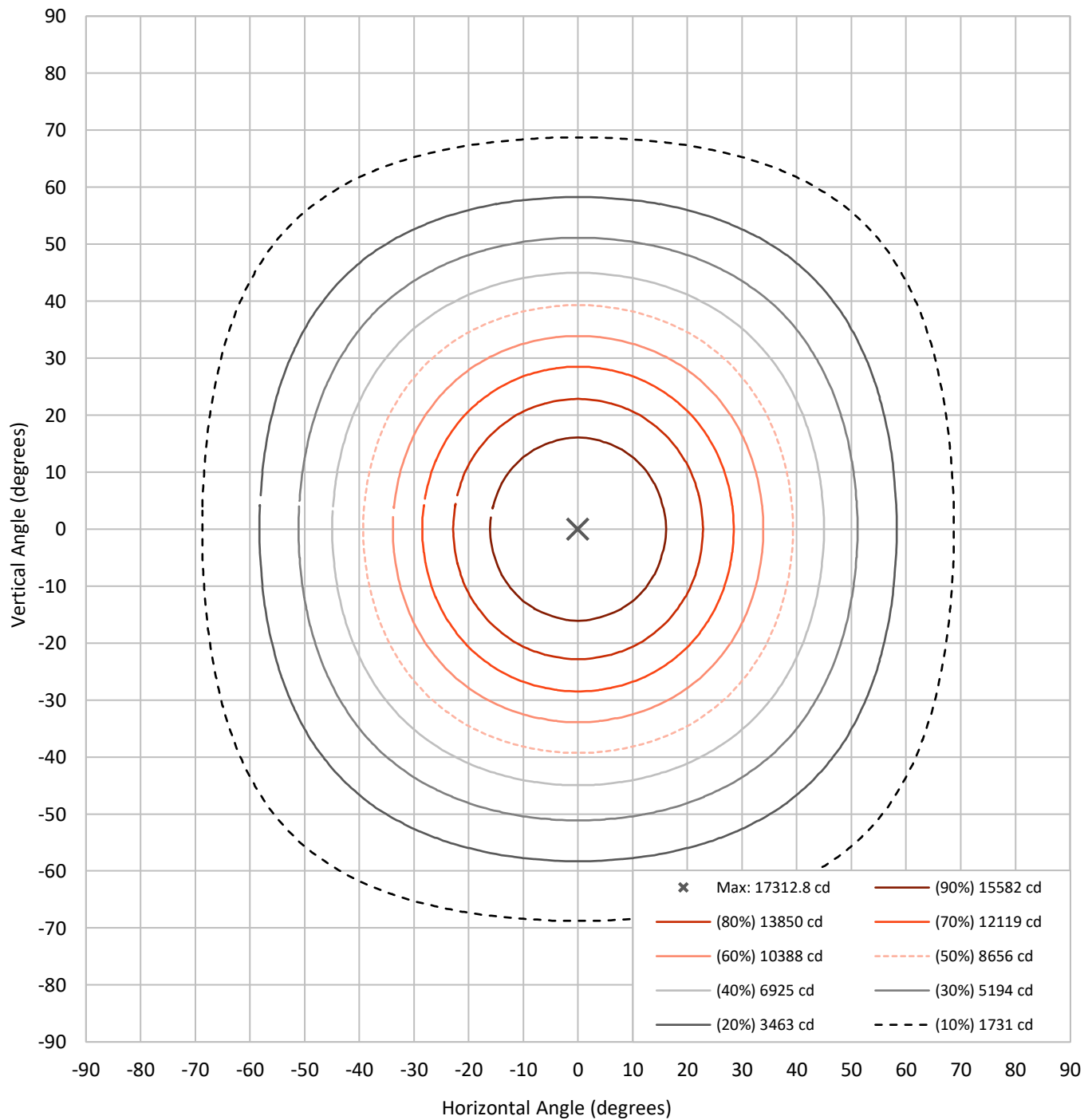
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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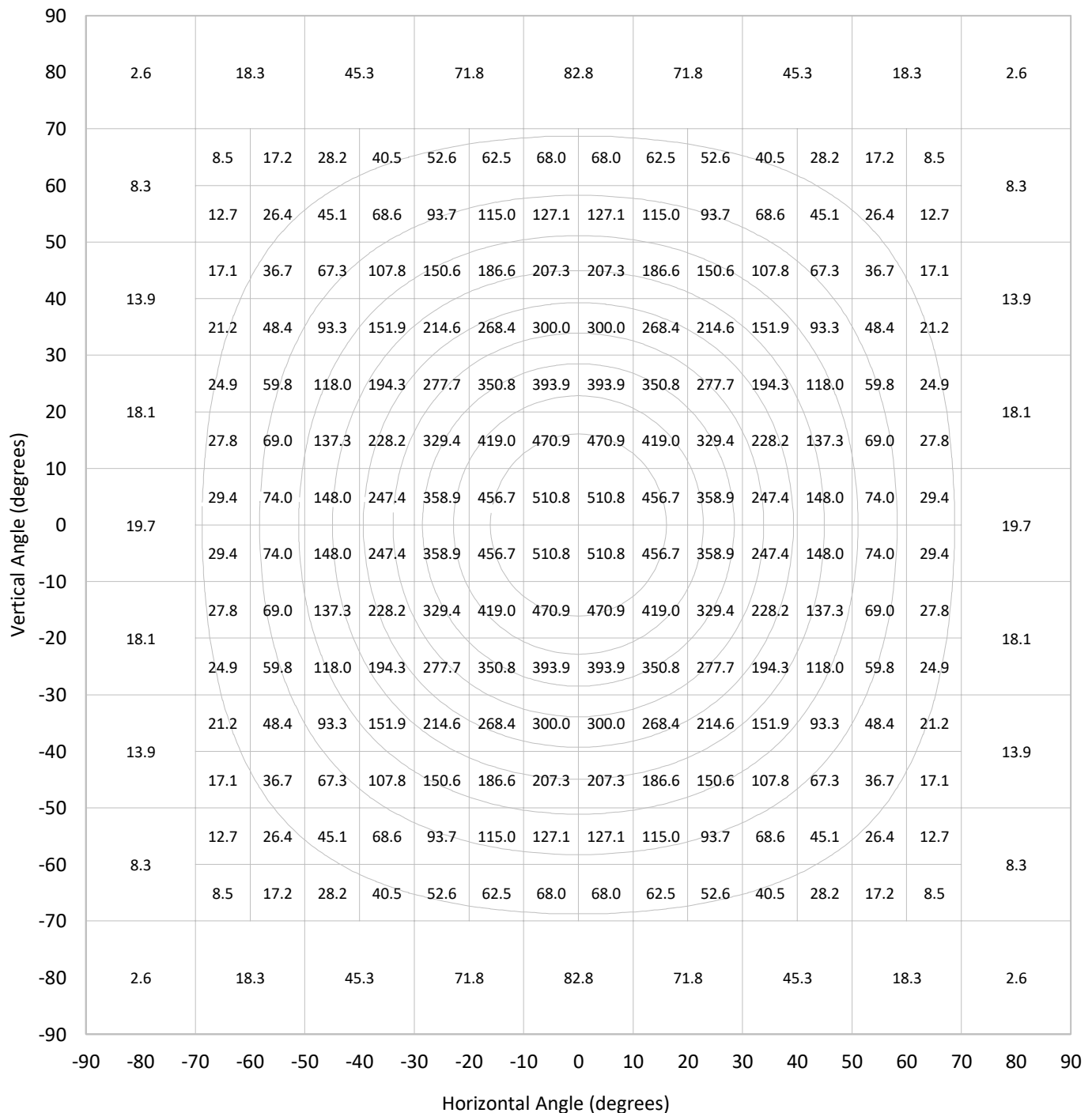
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Iso-Candela Plot



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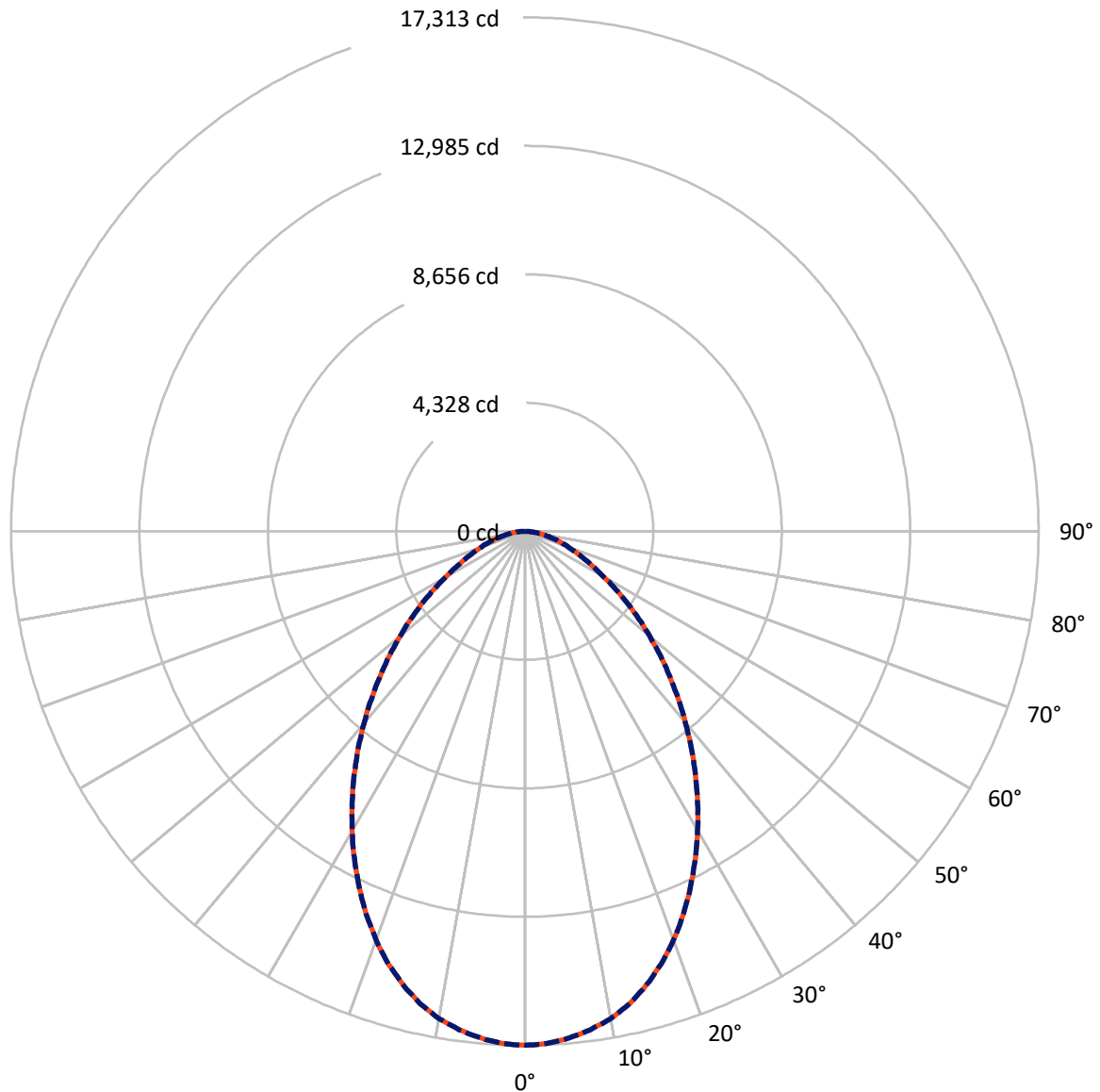
Lumen Table



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Luminous Intensity Polar Plot



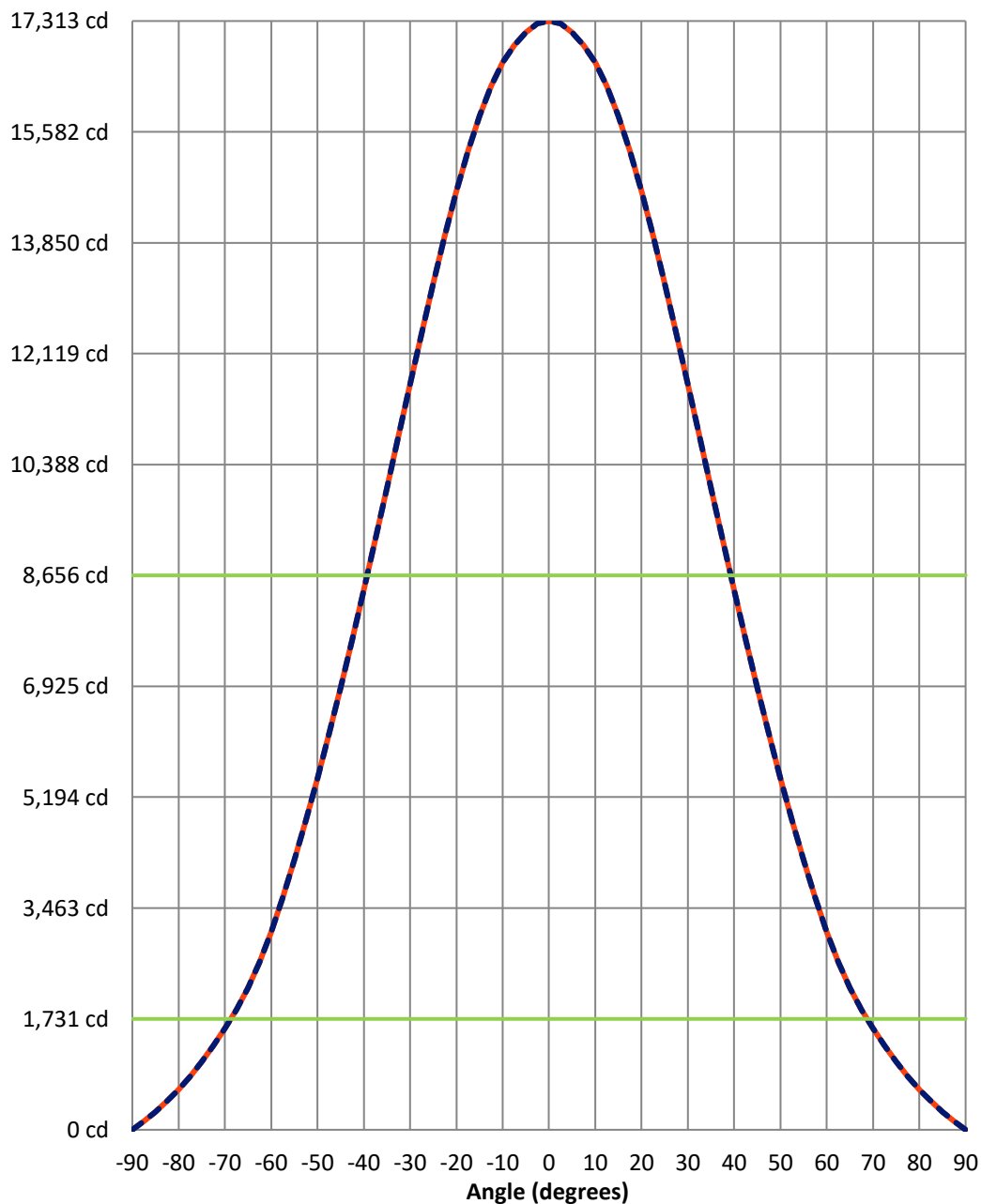
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 13487.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 22085.9
Efficiency: 70.9%

Spill:

Lumens: 9086.2
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°	133.3	133.3	133.3	133.3	133.3	133.3	133.3	126.8	126.8	123.5	120.3
85°	279.5	279.5	279.5	279.5	279.5	273.0	269.8	266.5	263.3	256.8	253.5
82.5°	448.5	448.5	448.5	448.5	442.0	435.5	432.3	425.8	419.3	409.5	399.8
80°	627.3	627.3	627.3	627.3	617.5	611.0	601.3	594.8	585.0	572.0	559.0
77.5°	832.0	832.0	832.0	822.3	815.8	806.0	796.3	783.3	770.3	754.0	734.5
75°	1062.8	1062.8	1062.8	1049.8	1040.0	1030.3	1014.0	997.8	978.3	955.5	929.5
72.5°	1313.0	1313.0	1313.0	1296.8	1287.0	1270.8	1251.3	1228.5	1205.8	1176.5	1144.0
70°	1582.8	1582.8	1582.8	1563.3	1547.0	1530.8	1504.8	1478.8	1446.3	1413.8	1374.8
67.5°	1875.3	1875.3	1875.3	1852.5	1833.0	1810.3	1781.0	1748.5	1709.5	1664.0	1618.5
65°	2216.5	2216.5	2203.5	2184.0	2161.3	2128.8	2093.0	2047.5	1998.8	1940.3	1878.5
62.5°	2619.5	2619.5	2600.0	2577.3	2548.0	2505.8	2457.0	2398.5	2330.3	2255.5	2180.8
60°	3087.5	3087.5	3064.8	3035.5	2993.3	2941.3	2876.3	2801.5	2717.0	2622.8	2531.8
57.5°	3627.0	3627.0	3597.8	3558.8	3506.8	3441.8	3360.5	3266.3	3159.0	3042.0	2928.3
55°	4212.0	4212.0	4176.3	4130.8	4069.0	3991.0	3893.5	3783.0	3653.0	3519.8	3373.5
52.5°	4832.8	4832.8	4790.5	4738.5	4667.0	4576.0	4465.5	4335.5	4186.0	4030.0	3857.8
50°	5486.0	5486.0	5437.3	5378.8	5297.5	5190.3	5063.5	4914.0	4748.3	4566.3	4368.0
47.5°	6184.8	6184.8	6129.5	6061.3	5963.8	5840.3	5690.8	5518.5	5330.0	5125.3	4901.0
45°	6903.0	6903.0	6841.3	6763.3	6656.0	6516.3	6350.5	6184.8	5944.3	5707.0	5447.0
42.5°	7650.5	7650.5	7579.0	7491.3	7367.8	7215.0	7026.5	6812.0	6574.8	6308.3	6025.5
40°	8427.3	8427.3	8346.0	8245.3	8108.8	7933.3	7722.0	7481.5	7215.0	6919.3	6607.3
37.5°	9220.3	9220.3	9129.3	9018.8	8866.0	8671.0	8433.8	8167.3	7868.3	7540.0	7195.5
35°	10019.8	10019.8	9919.0	9798.8	9629.8	9415.3	9158.5	8862.8	8531.3	8173.8	7787.0
32.5°	10835.5	10835.5	10725.0	10588.5	10396.8	10159.5	9876.8	9555.0	9220.3	8804.3	8381.8
30°	11641.5	11641.5	11521.3	11371.8	11167.0	10907.0	10598.3	10244.0	9850.8	9425.0	8970.0
27.5°	12434.5	12402.0	12301.3	12142.0	11917.8	11641.5	11306.8	10923.3	10497.5	10029.5	9542.0
25°	13214.5	13178.8	13068.3	12892.8	12652.3	12350.0	11989.3	11579.8	11121.5	10627.5	10094.5
22.5°	13962.0	13923.0	13806.0	13617.5	13360.8	13032.5	12645.8	12207.0	11719.5	11189.8	10627.5
20°	14654.3	14612.0	14491.8	14293.5	14027.0	13679.3	13269.8	12798.5	12278.5	11719.5	11121.5
17.5°	15278.3	15236.0	15109.3	14904.5	14654.3	14267.5	13845.0	13347.8	12798.5	12207.0	11579.8
15°	15827.5	15782.0	15652.0	15447.3	15161.3	14797.3	14352.0	13845.0	13269.8	12645.8	11989.3
12.5°	16295.5	16250.0	16116.8	15912.0	15616.3	15252.3	14797.3	14267.5	13679.3	13032.5	12350.0
10°	16666.0	16620.5	16493.8	16298.8	15993.3	15616.3	15161.3	14654.3	14027.0	13360.8	12652.3
7.5°	16932.5	16890.3	16773.3	16578.3	16298.8	15912.0	15447.3	14904.5	14293.5	13617.5	12892.8
5°	17134.0	17085.3	16968.3	16773.3	16493.8	16116.8	15652.0	15109.3	14491.8	13806.0	13068.3
2.5°	17273.8	17215.3	17085.3	16890.3	16620.5	16250.0	15782.0	15236.0	14612.0	13923.0	13178.8
0°	17312.8	17273.8	17134.0	16932.5	16666.0	16295.5	15827.5	15278.3	14654.3	13962.0	13214.5

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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°	117.0	117.0	113.8	110.5	107.3	100.8	97.5	94.3	91.0	84.5	81.3
85°	247.0	240.5	234.0	227.5	217.8	211.3	201.5	195.0	185.3	175.5	165.8
82.5°	390.0	380.3	367.3	357.5	344.5	328.3	315.3	299.0	282.8	269.8	253.5
80°	546.0	529.8	513.5	497.3	477.8	458.3	438.8	419.3	396.5	373.8	351.0
77.5°	715.0	692.3	669.5	643.5	620.8	594.8	568.8	542.8	513.5	484.3	455.0
75°	903.5	874.3	841.8	809.3	780.0	744.3	708.5	672.8	633.8	598.0	559.0
72.5°	1108.3	1072.5	1033.5	994.5	952.3	906.8	861.3	812.5	767.0	721.5	672.8
70°	1329.3	1287.0	1238.3	1189.5	1137.5	1082.3	1027.0	968.5	910.0	851.5	793.0
67.5°	1566.5	1514.5	1456.0	1397.5	1332.5	1267.5	1202.5	1134.3	1062.8	991.3	923.0
65°	1820.0	1755.0	1686.8	1612.0	1537.3	1462.5	1384.5	1303.3	1222.0	1137.5	1062.8
62.5°	2102.8	2021.5	1933.8	1842.8	1758.3	1667.3	1582.8	1482.0	1384.5	1290.3	1196.0
60°	2431.0	2323.8	2216.5	2102.8	1995.5	1878.5	1774.5	1664.0	1553.5	1446.3	1335.8
57.5°	2798.3	2661.8	2531.8	2395.3	2252.3	2122.3	1989.0	1855.8	1732.3	1605.5	1485.3
55°	3214.3	3048.5	2886.0	2717.0	2551.3	2388.8	2219.8	2070.3	1917.5	1774.5	1634.8
52.5°	3669.3	3480.8	3279.3	3087.5	2876.3	2674.8	2486.3	2297.8	2119.0	1946.8	1787.5
50°	4156.8	3935.8	3705.0	3471.0	3230.5	2993.3	2765.8	2544.8	2336.8	2135.3	1946.8
47.5°	4663.8	4413.5	4150.3	3883.8	3627.0	3337.8	3064.8	2814.5	2564.3	2336.8	2119.0
45°	5183.8	4901.0	4611.8	4309.5	4007.3	3695.3	3393.0	3087.5	2814.5	2544.8	2297.8
42.5°	5720.0	5401.5	5079.8	4745.0	4410.3	4069.0	3727.8	3393.0	3064.8	2765.8	2486.3
40°	6272.5	5921.5	5554.3	5190.3	4832.8	4442.8	4069.0	3695.3	3337.8	2993.3	2674.8
37.5°	6825.0	6441.5	6045.0	5635.5	5226.0	4832.8	4410.3	4007.3	3627.0	3230.5	2876.3
35°	7380.8	6958.3	6529.3	6084.0	5635.5	5190.3	4745.0	4309.5	3883.8	3471.0	3087.5
32.5°	7939.8	7478.3	7003.8	6529.3	6045.0	5554.3	5079.8	4611.8	4150.3	3705.0	3279.3
30°	8489.0	7988.5	7478.3	6958.3	6441.5	5921.5	5401.5	4901.0	4413.5	3935.8	3480.8
27.5°	9025.3	8489.0	7939.8	7380.8	6825.0	6272.5	5720.0	5183.8	4663.8	4156.8	3669.3
25°	9542.0	8970.0	8381.8	7787.0	7195.5	6607.3	6025.5	5447.0	4901.0	4368.0	3857.8
22.5°	10029.5	9425.0	8804.3	8173.8	7540.0	6919.3	6308.3	5707.0	5125.3	4566.3	4030.0
20°	10497.5	9850.8	9220.3	8531.3	7868.3	7215.0	6574.8	5944.3	5330.0	4748.3	4186.0
17.5°	10923.3	10244.0	9555.0	8862.8	8167.3	7481.5	6812.0	6184.8	5518.5	4914.0	4335.5
15°	11306.8	10598.3	9876.8	9158.5	8433.8	7722.0	7026.5	6350.5	5690.8	5063.5	4465.5
12.5°	11641.5	10907.0	10159.5	9415.3	8671.0	7933.3	7215.0	6516.3	5840.3	5190.3	4576.0
10°	11917.8	11167.0	10396.8	9629.8	8866.0	8108.8	7367.8	6656.0	5963.8	5297.5	4667.0
7.5°	12142.0	11371.8	10588.5	9798.8	9018.8	8245.3	7491.3	6763.3	6061.3	5378.8	4738.5
5°	12301.3	11521.3	10725.0	9919.0	9129.3	8346.0	7579.0	6841.3	6129.5	5437.3	4790.5
2.5°	12402.0	11641.5	10835.5	10019.8	9220.3	8427.3	7650.5	6903.0	6184.8	5486.0	4832.8
0°	12434.5	11641.5	10835.5	10019.8	9220.3	8427.3	7650.5	6903.0	6184.8	5486.0	4832.8

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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°	78.0	71.5	65.0	61.8	55.3	52.0	45.5	39.0	35.8	29.3	22.8
85°	156.0	143.0	133.3	123.5	113.8	100.8	91.0	81.3	68.3	58.5	45.5
82.5°	237.3	221.0	204.8	188.5	172.3	156.0	136.5	120.3	104.0	87.8	68.3
80°	328.3	302.3	279.5	256.8	234.0	211.3	185.3	162.5	136.5	113.8	91.0
77.5°	422.5	393.3	360.8	328.3	295.8	266.5	234.0	204.8	175.5	143.0	113.8
75°	523.3	484.3	448.5	406.3	367.3	325.0	286.0	247.0	211.3	175.5	136.5
72.5°	627.3	578.5	529.8	484.3	435.5	386.8	341.3	292.5	247.0	204.8	162.5
70°	734.5	676.0	617.5	562.3	507.0	448.5	396.5	341.3	286.0	234.0	185.3
67.5°	848.3	780.0	711.8	640.3	578.5	513.5	448.5	386.8	325.0	266.5	211.3
65°	971.8	890.5	806.0	731.3	650.0	578.5	507.0	435.5	367.3	295.8	234.0
62.5°	1098.5	1004.3	910.0	815.8	731.3	640.3	562.3	484.3	406.3	328.3	256.8
60°	1228.5	1121.3	1014.0	910.0	806.0	711.8	617.5	529.8	448.5	360.8	279.5
57.5°	1361.8	1241.5	1121.3	1004.3	890.5	780.0	676.0	578.5	484.3	393.3	302.3
55°	1498.3	1361.8	1228.5	1098.5	971.8	848.3	734.5	627.3	523.3	422.5	328.3
52.5°	1634.8	1485.3	1335.8	1196.0	1062.8	923.0	793.0	672.8	559.0	455.0	351.0
50°	1774.5	1605.5	1446.3	1290.3	1137.5	991.3	851.5	721.5	598.0	484.3	373.8
47.5°	1917.5	1732.3	1553.5	1384.5	1222.0	1062.8	910.0	767.0	633.8	513.5	396.5
45°	2070.3	1855.8	1664.0	1482.0	1303.3	1134.3	968.5	812.5	672.8	542.8	419.3
42.5°	2219.8	1989.0	1774.5	1582.8	1384.5	1202.5	1027.0	861.3	708.5	568.8	438.8
40°	2388.8	2122.3	1878.5	1667.3	1462.5	1267.5	1082.3	906.8	744.3	594.8	458.3
37.5°	2551.3	2252.3	1995.5	1758.3	1537.3	1332.5	1137.5	952.3	780.0	620.8	477.8
35°	2717.0	2395.3	2102.8	1842.8	1612.0	1397.5	1189.5	994.5	809.3	643.5	497.3
32.5°	2886.0	2531.8	2216.5	1933.8	1686.8	1456.0	1238.3	1033.5	841.8	669.5	513.5
30°	3048.5	2661.8	2323.8	2021.5	1755.0	1514.5	1287.0	1072.5	874.3	692.3	529.8
27.5°	3214.3	2798.3	2431.0	2102.8	1820.0	1566.5	1329.3	1108.3	903.5	715.0	546.0
25°	3373.5	2928.3	2531.8	2180.8	1878.5	1618.5	1374.8	1144.0	929.5	734.5	559.0
22.5°	3519.8	3042.0	2622.8	2255.5	1940.3	1664.0	1413.8	1176.5	955.5	754.0	572.0
20°	3653.0	3159.0	2717.0	2330.3	1998.8	1709.5	1446.3	1205.8	978.3	770.3	585.0
17.5°	3783.0	3266.3	2801.5	2398.5	2047.5	1748.5	1478.8	1228.5	997.8	783.3	594.8
15°	3893.5	3360.5	2876.3	2457.0	2093.0	1781.0	1504.8	1251.3	1014.0	796.3	601.3
12.5°	3991.0	3441.8	2941.3	2505.8	2128.8	1810.3	1530.8	1270.8	1030.3	806.0	611.0
10°	4069.0	3506.8	2993.3	2548.0	2161.3	1833.0	1547.0	1287.0	1040.0	815.8	617.5
7.5°	4130.8	3558.8	3035.5	2577.3	2184.0	1852.5	1563.3	1296.8	1049.8	822.3	627.3
5°	4176.3	3597.8	3064.8	2600.0	2203.5	1875.3	1582.8	1313.0	1062.8	832.0	627.3
2.5°	4212.0	3627.0	3087.5	2619.5	2216.5	1875.3	1582.8	1313.0	1062.8	832.0	627.3
0°	4212.0	3627.0	3087.5	2619.5	2216.5	1875.3	1582.8	1313.0	1062.8	832.0	627.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.3	13.0	6.5	0.0
85°	35.8	22.8	13.0	0.0
82.5°	52.0	35.8	16.3	0.0
80°	68.3	45.5	22.8	0.0
77.5°	87.8	58.5	29.3	0.0
75°	104.0	68.3	35.8	0.0
72.5°	120.3	81.3	39.0	0.0
70°	136.5	91.0	45.5	0.0
67.5°	156.0	100.8	52.0	0.0
65°	172.3	113.8	55.3	0.0
62.5°	188.5	123.5	61.8	0.0
60°	204.8	133.3	65.0	0.0
57.5°	221.0	143.0	71.5	0.0
55°	237.3	156.0	78.0	0.0
52.5°	253.5	165.8	81.3	0.0
50°	269.8	175.5	84.5	0.0
47.5°	282.8	185.3	91.0	0.0
45°	299.0	195.0	94.3	0.0
42.5°	315.3	201.5	97.5	0.0
40°	328.3	211.3	100.8	0.0
37.5°	344.5	217.8	107.3	0.0
35°	357.5	227.5	110.5	0.0
32.5°	367.3	234.0	113.8	0.0
30°	380.3	240.5	117.0	0.0
27.5°	390.0	247.0	117.0	0.0
25°	399.8	253.5	120.3	0.0
22.5°	409.5	256.8	123.5	0.0
20°	419.3	263.3	126.8	0.0
17.5°	425.8	266.5	126.8	0.0
15°	432.3	269.8	133.3	0.0
12.5°	435.5	273.0	133.3	0.0
10°	442.0	279.5	133.3	0.0
7.5°	448.5	279.5	133.3	0.0
5°	448.5	279.5	133.3	0.0
2.5°	448.5	279.5	133.3	0.0
0°	448.5	279.5	133.3	0.0

(END OF REPORT)