

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P181693

Luminaire Tested: **ICS-F02-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181693
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F02-LED-E1-T4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4101.7 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
Input Voltage (V): NR
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

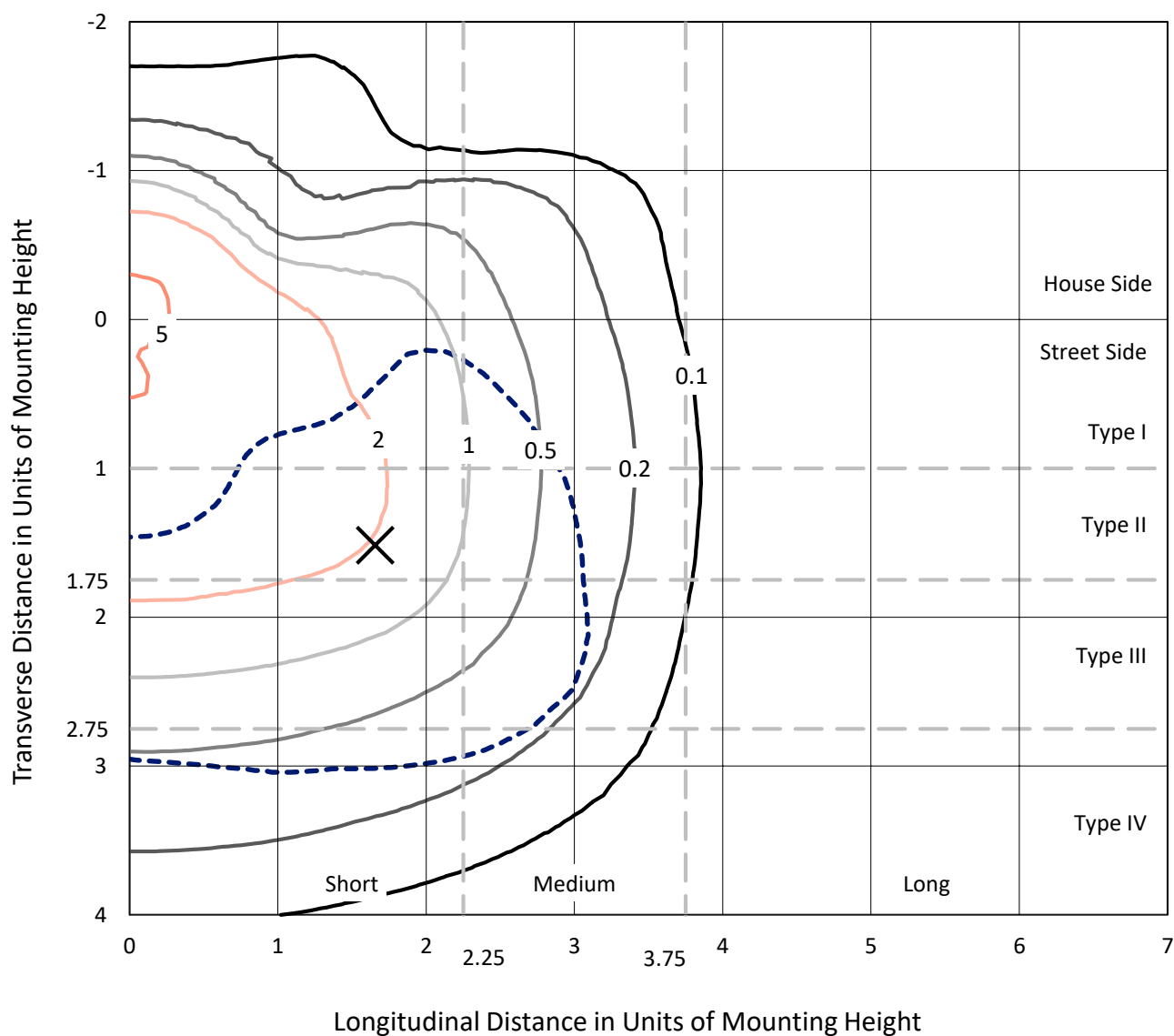


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

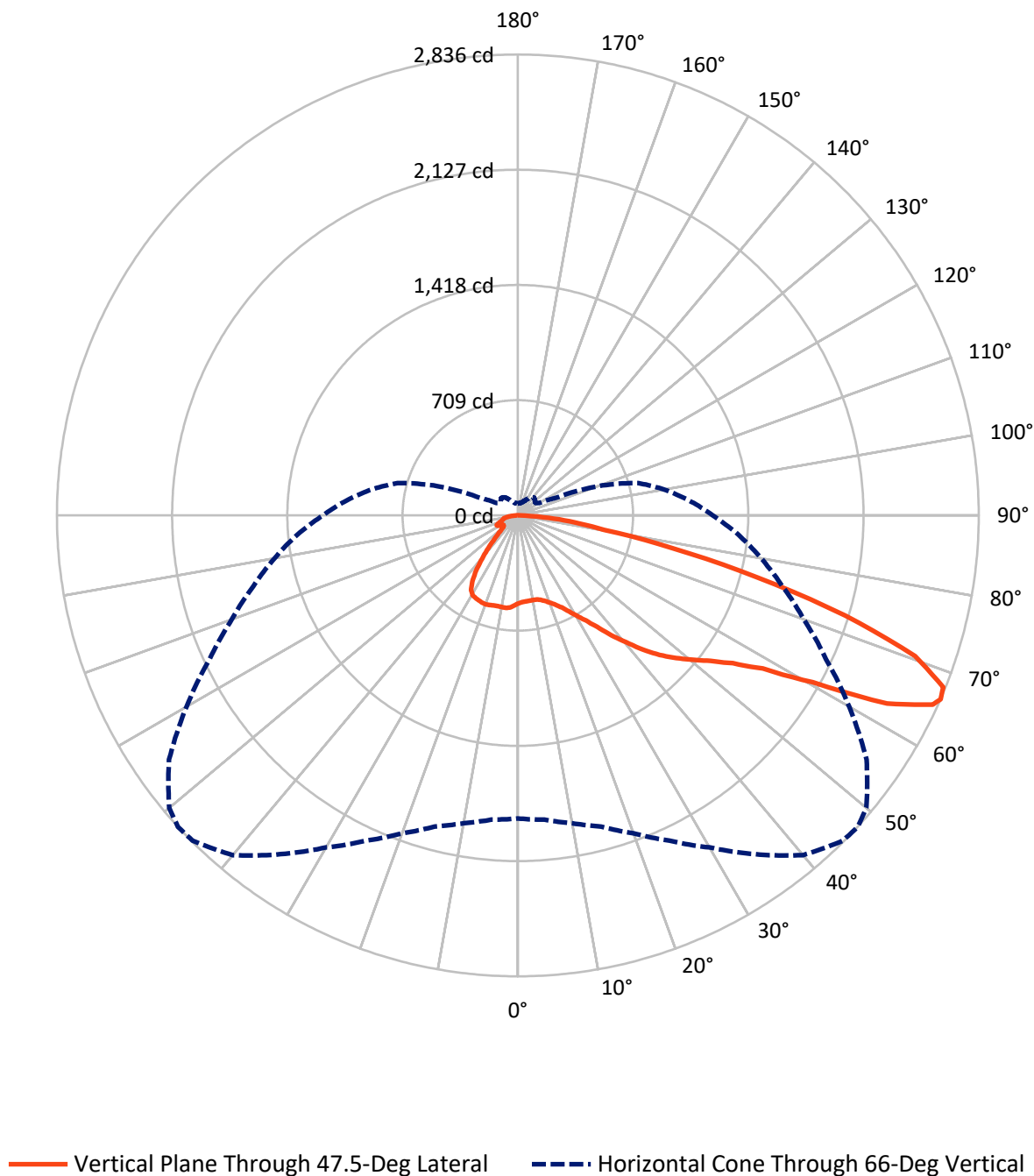


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	875.2	0.0	875.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3226.5	0.0	3226.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	4101.7	0.0	4101.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.3
10°-20°	159.4	3.9
20°-30°	274.6	6.7
30°-40°	415.4	10.1
40°-50°	538.4	13.1
50°-60°	742.3	18.1
60°-70°	1153.2	28.1
70°-80°	670.6	16.3
80°-90°	95.4	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4101.7	100.0
0°-180°	4101.7	100.0

Coefficient of Utilization



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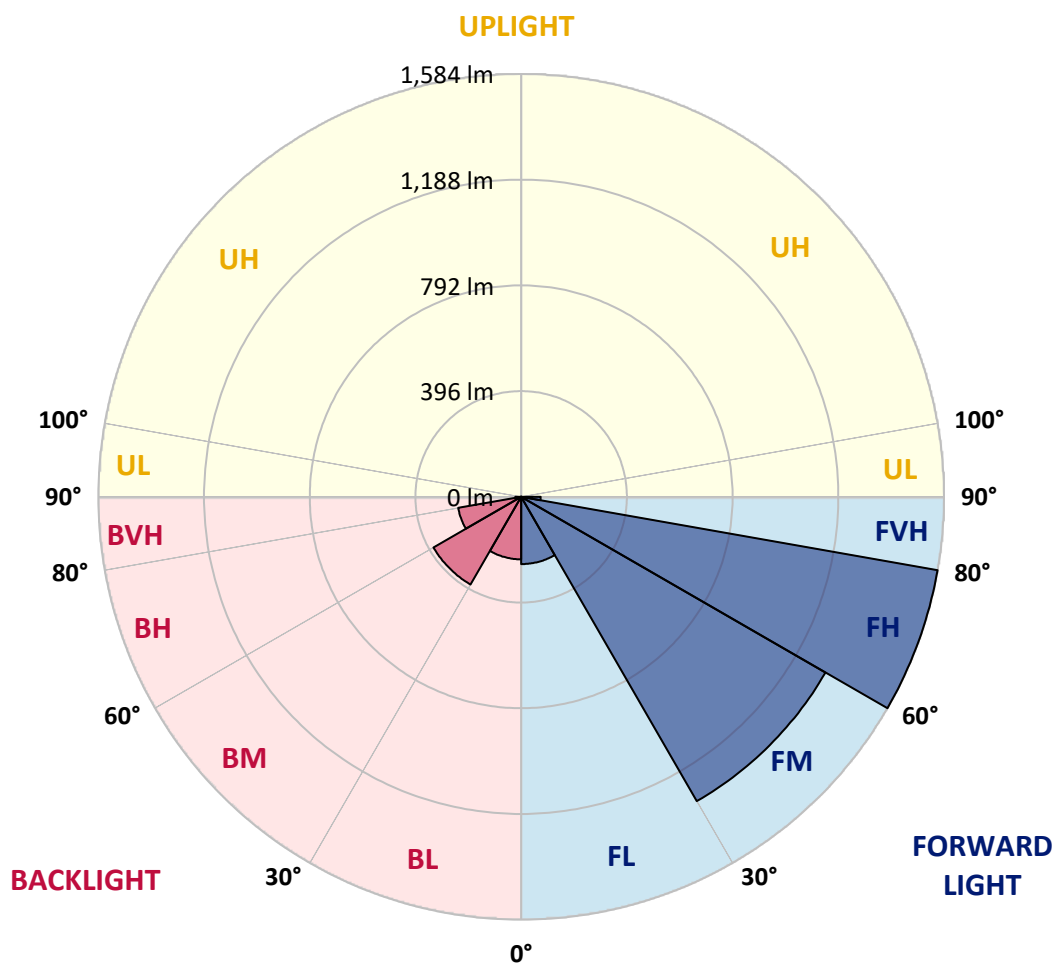
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.2	6.1			
FM	(30°-60°)	1316.6	32.1			
FH	(60°-80°)	1584.5	38.6			G1/1800
FVH	(80°-90°)	73.2	1.8			G1/100
BL	(0°-30°)	234.3	5.7	B1/500		
BM	(30°-60°)	379.4	9.2	B1/1000		
BH	(60°-80°)	239.4	5.8	B1/500		G1/500
BVH	(80°-90°)	22.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6
2.5°	530.7	532.5	531.1	531.6	531.6	532.0	532.0	532.5	532.0	533.4	534.3
5°	521.2	522.1	521.6	522.5	523.5	525.3	524.8	527.1	527.5	528.9	531.1
7.5°	517.6	516.7	517.1	518.5	519.4	520.3	521.2	523.0	524.4	527.5	529.3
10°	521.2	520.7	521.2	522.1	522.1	522.5	521.6	523.5	524.4	527.1	528.9
12.5°	536.1	536.1	535.2	535.2	534.3	533.4	531.1	529.8	529.3	529.8	530.7
15°	560.1	559.2	557.4	556.0	554.2	551.0	547.9	545.2	543.4	540.6	539.7
17.5°	583.6	582.3	580.5	578.6	576.4	573.2	568.2	565.1	560.1	556.9	555.1
20°	610.8	608.1	605.8	603.5	599.0	598.1	593.1	587.7	581.8	574.6	573.7
22.5°	646.1	641.5	638.8	637.5	632.9	631.6	623.4	615.7	608.5	599.0	596.7
25°	681.8	677.3	675.9	674.1	670.9	669.1	661.4	652.8	643.3	630.2	627.5
27.5°	716.6	717.1	713.5	714.8	713.9	710.8	703.1	694.5	687.2	671.8	668.7
30°	760.1	757.4	755.5	758.3	755.1	755.5	748.8	744.2	732.5	723.4	717.1
32.5°	805.3	804.9	807.6	809.4	808.9	808.0	802.6	798.1	787.7	774.5	771.8
35°	867.3	870.0	872.3	880.4	880.4	886.3	880.9	875.4	863.2	847.4	842.0
37.5°	909.4	910.3	919.3	930.2	943.7	956.4	960.0	961.4	956.4	944.7	936.5
40°	947.8	949.6	964.1	980.8	1000.8	1025.6	1040.6	1047.4	1048.7	1043.3	1025.6
42.5°	986.3	989.0	1003.9	1028.4	1055.9	1087.6	1113.9	1130.6	1140.1	1140.1	1129.7
45°	1031.1	1034.7	1051.0	1077.7	1109.8	1149.6	1185.8	1217.9	1233.3	1234.2	1224.3
47.5°	1084.0	1087.2	1106.2	1133.3	1166.3	1206.6	1252.3	1288.9	1317.4	1319.3	1311.1
50°	1152.3	1156.8	1172.7	1197.1	1231.0	1271.8	1317.4	1368.6	1398.4	1405.7	1397.1
52.5°	1242.8	1243.7	1256.8	1279.4	1312.5	1351.4	1399.8	1455.4	1494.8	1500.7	1486.7
55°	1367.7	1366.3	1374.9	1399.3	1424.2	1454.5	1504.8	1567.2	1611.1	1620.1	1605.6
57.5°	1537.3	1536.0	1543.2	1549.1	1595.7	1625.1	1674.4	1734.1	1776.7	1802.9	1778.0
60°	1800.2	1798.8	1810.6	1845.0	1879.8	1922.8	1970.7	2042.2	2101.9	2109.6	2085.2
62.5°	1990.7	1997.4	2023.2	2063.5	2134.1	2218.2	2306.0	2400.1	2522.7	2561.6	2549.8
65°	1924.1	1937.7	1973.5	2034.5	2128.6	2244.9	2382.4	2553.0	2717.2	2809.1	2806.4
66°	1864.4	1879.4	1923.2	1982.1	2081.6	2208.7	2358.9	2544.9	2728.5	2829.9	2836.2
67.5°	1755.8	1772.6	1815.6	1885.2	1982.1	2117.3	2278.8	2481.1	2688.7	2806.8	2823.6
70°	1544.6	1563.6	1594.8	1652.2	1747.7	1868.5	2038.6	2219.6	2437.2	2572.5	2592.8
72.5°	1291.2	1307.9	1342.8	1389.8	1468.1	1544.1	1677.6	1811.0	1966.7	2120.9	2106.0
75°	927.0	934.2	955.1	1006.2	1048.3	1116.6	1223.8	1333.3	1439.6	1510.2	1520.1
77.5°	481.8	500.8	530.2	586.8	632.5	694.0	763.7	846.0	923.8	988.5	970.9
80°	315.3	323.5	349.7	378.7	412.2	451.5	498.1	528.9	538.8	534.8	538.8
82.5°	181.9	196.8	231.6	253.8	278.7	292.3	329.4	364.7	384.6	359.7	350.6
85°	23.1	29.9	94.1	118.5	135.7	156.1	167.4	188.7	176.0	157.4	191.8
87.5°	5.0	4.5	6.3	13.6	14.0	11.8	22.2	23.5	14.5	7.2	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6
2.5°	535.2	535.7	536.6	537.9	538.8	539.7	540.6	542.0	542.9	543.8	545.6
5°	533.0	534.8	536.6	538.4	540.6	544.3	546.5	548.3	550.1	553.8	555.1
7.5°	531.6	534.8	537.5	540.6	544.3	547.4	551.5	553.8	556.5	558.7	561.5
10°	530.7	535.2	537.9	542.5	546.5	549.7	554.2	556.9	560.1	562.8	564.2
12.5°	532.5	534.8	537.5	542.0	547.0	551.5	556.5	558.7	561.5	563.7	564.2
15°	540.2	540.2	540.6	544.3	549.2	552.9	556.9	559.2	560.5	561.9	561.9
17.5°	554.2	551.0	548.8	549.2	552.4	554.7	556.9	556.9	556.0	555.6	554.7
20°	570.5	566.4	561.9	558.7	557.8	556.0	554.7	550.1	546.5	543.4	541.1
22.5°	594.0	587.7	581.4	575.5	570.1	563.3	555.6	546.5	537.9	532.0	528.4
25°	623.0	618.0	610.3	601.3	594.5	581.8	571.9	558.7	547.9	540.2	533.9
27.5°	664.2	658.3	651.0	642.9	632.9	618.9	606.7	591.3	578.2	566.9	558.7
30°	715.3	707.6	702.2	692.2	685.4	669.6	657.4	638.4	613.0	594.9	583.6
32.5°	767.8	759.2	754.6	746.9	739.3	729.8	711.2	681.8	649.2	619.8	600.4
35°	837.9	828.8	820.7	813.9	802.6	784.9	768.7	733.4	688.6	647.4	614.8
37.5°	926.1	911.2	890.8	873.6	853.7	828.4	803.5	767.3	716.2	662.8	619.4
40°	1020.2	994.0	965.0	932.9	898.5	861.9	833.4	796.7	739.3	675.9	616.2
42.5°	1118.4	1076.8	1036.5	991.3	943.3	899.9	862.8	822.5	756.4	679.5	603.5
45°	1215.7	1169.1	1108.0	1048.7	988.1	934.2	892.6	847.4	772.3	680.9	586.8
47.5°	1296.2	1248.2	1178.6	1104.4	1032.4	971.3	922.5	873.6	793.5	690.4	582.7
50°	1381.2	1322.9	1245.5	1157.7	1076.3	1008.0	956.0	905.3	823.4	714.8	595.8
52.5°	1474.0	1407.0	1316.5	1218.4	1129.2	1052.8	996.2	944.2	861.4	749.2	620.7
55°	1587.1	1505.2	1407.0	1296.2	1200.7	1116.1	1053.7	992.2	906.7	789.9	651.9
57.5°	1759.9	1659.5	1549.1	1422.9	1317.0	1217.0	1142.4	1071.3	976.8	850.6	694.5
60°	2072.5	1965.3	1821.9	1669.0	1544.6	1427.8	1318.4	1230.1	1113.9	970.0	788.6
62.5°	2520.4	2377.9	2186.5	1972.6	1809.7	1641.4	1517.9	1386.7	1242.3	1087.2	899.4
65°	2769.3	2596.4	2340.4	2092.0	1882.5	1699.7	1542.8	1390.7	1230.6	1082.2	925.2
66°	2800.0	2620.0	2353.9	2092.4	1872.6	1684.8	1519.7	1362.2	1198.5	1056.9	914.3
67.5°	2787.4	2603.2	2329.1	2053.1	1829.6	1627.8	1457.2	1293.9	1130.6	998.5	878.1
70°	2579.7	2405.1	2135.9	1868.5	1656.3	1457.2	1294.4	1133.8	984.0	870.9	782.2
72.5°	2142.2	1992.9	1759.0	1549.1	1382.6	1218.4	1080.4	927.0	800.3	716.6	664.2
75°	1546.4	1455.9	1242.8	1122.5	976.3	867.3	733.4	642.4	551.5	510.8	501.7
77.5°	976.8	855.1	719.8	592.7	487.3	404.0	314.4	266.9	222.6	218.1	263.3
80°	494.5	445.2	342.9	273.3	229.8	185.9	147.0	111.3	77.8	93.7	112.2
82.5°	323.9	270.1	211.7	174.2	151.6	125.8	97.7	67.9	49.8	56.1	76.9
85°	175.1	149.3	120.3	95.0	76.9	68.8	46.1	32.6	32.1	34.4	43.9
87.5°	12.7	12.7	10.0	9.0	10.9	9.0	8.1	8.1	7.7	8.1	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6	540.6
2.5°	546.5	547.9	548.3	550.6	552.0	552.9	553.8	553.8	554.2	555.6	556.0
5°	556.9	559.2	561.9	563.7	564.6	567.3	568.2	568.2	569.1	571.0	572.3
7.5°	563.3	566.4	569.1	570.1	571.9	572.8	574.1	575.0	575.0	576.8	577.7
10°	565.5	567.3	570.1	570.1	571.9	571.9	573.2	573.7	573.7	575.5	576.8
12.5°	565.5	566.4	568.7	568.7	570.1	570.5	572.3	573.7	574.1	576.4	578.2
15°	562.8	563.7	565.5	566.0	569.1	571.0	575.0	577.7	577.7	580.0	580.9
17.5°	555.1	557.4	561.0	564.6	570.5	574.6	579.6	581.8	580.0	578.6	577.3
20°	542.5	546.5	555.1	564.2	574.6	580.0	582.7	580.5	574.1	567.8	563.7
22.5°	529.8	537.9	552.4	566.0	577.7	581.4	580.0	571.9	561.5	553.8	548.3
25°	535.7	545.2	559.2	571.4	579.1	578.2	572.8	561.5	550.1	540.2	531.1
27.5°	560.1	570.5	578.2	582.3	581.4	575.0	566.4	553.8	540.2	527.1	514.4
30°	583.2	588.6	590.4	587.2	580.0	569.6	558.7	544.3	526.2	509.9	495.4
32.5°	593.6	588.1	579.6	571.0	559.2	550.1	535.2	519.4	496.8	477.3	462.8
35°	593.6	571.9	550.1	532.0	514.4	503.1	485.9	464.6	443.8	427.5	416.2
37.5°	580.5	538.8	503.1	473.7	451.5	439.3	413.5	394.5	376.9	371.4	364.2
40°	556.5	494.9	443.4	404.9	376.9	358.8	333.0	319.9	313.1	310.4	309.0
42.5°	524.4	446.1	377.3	329.8	299.5	279.1	262.0	253.8	253.4	252.9	252.9
45°	490.0	393.6	313.1	256.5	229.8	211.7	203.6	200.4	203.1	202.7	203.1
47.5°	468.7	353.8	254.3	194.1	173.7	162.0	157.9	159.3	161.5	160.6	160.6
50°	466.0	333.4	214.9	151.1	135.7	129.8	128.9	128.9	130.3	129.4	128.9
52.5°	475.9	330.3	194.5	129.8	117.6	112.7	111.7	111.3	110.8	108.1	105.9
55°	493.1	337.5	188.7	124.4	111.7	106.3	105.0	104.1	102.2	98.6	94.6
57.5°	527.5	360.1	194.1	127.1	113.6	109.0	107.7	107.7	104.1	98.2	92.3
60°	610.3	417.6	216.3	137.5	122.2	117.6	118.5	118.1	112.7	104.1	95.0
62.5°	717.1	492.7	245.2	152.0	133.0	132.1	136.6	135.7	126.7	113.6	100.4
65°	766.4	528.0	253.4	155.2	135.3	139.3	148.4	147.5	136.2	118.1	101.3
66°	767.3	528.0	249.7	152.5	132.1	137.1	146.1	145.7	134.4	116.3	99.5
67.5°	748.8	513.5	239.3	147.0	125.8	129.4	137.5	137.1	126.7	111.7	95.9
70°	679.1	459.7	212.6	137.5	117.2	115.4	118.1	116.3	109.5	99.1	88.2
72.5°	581.8	385.9	185.5	130.3	111.3	104.1	102.2	100.9	95.5	89.6	82.8
75°	458.3	305.4	162.9	124.9	105.9	96.4	93.2	91.4	87.8	83.7	78.3
77.5°	282.8	218.5	142.1	117.6	101.8	92.3	90.0	87.3	81.9	76.9	72.8
80°	126.2	135.3	116.7	102.7	90.9	82.3	78.7	74.6	69.2	66.1	63.8
82.5°	84.2	87.3	84.6	76.9	68.8	62.0	56.6	56.6	55.6	52.9	52.0
85°	53.8	54.3	52.5	47.5	44.3	40.3	38.0	38.5	40.3	39.8	39.4
87.5°	12.2	12.2	14.5	13.6	15.8	16.7	18.1	19.5	22.2	22.2	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	540.6	540.6	540.6	540.6	540.6
2.5°	556.5	557.4	558.3	556.9	557.4
5°	572.3	571.9	574.1	572.8	573.7
7.5°	577.3	577.7	579.6	579.6	580.0
10°	577.7	578.6	580.9	582.3	583.2
12.5°	580.0	581.8	585.4	586.3	586.3
15°	581.8	582.7	585.0	585.9	586.8
17.5°	575.5	573.7	574.6	575.0	574.6
20°	559.6	557.8	557.4	555.6	556.5
22.5°	542.5	537.5	534.3	530.7	530.7
25°	521.6	513.9	507.6	501.3	502.6
27.5°	502.2	492.2	485.9	481.8	480.9
30°	483.2	472.8	466.9	461.9	461.9
32.5°	451.5	444.3	436.6	433.4	433.0
35°	407.6	403.1	396.8	395.4	393.2
37.5°	358.3	357.0	351.5	351.1	348.8
40°	306.7	307.6	305.8	304.9	303.6
42.5°	255.2	259.7	258.8	258.3	257.4
45°	205.9	209.0	209.5	210.8	213.1
47.5°	162.0	162.9	163.8	163.3	163.8
50°	126.7	124.4	124.0	122.6	124.0
52.5°	102.2	98.6	96.8	95.0	94.1
55°	90.0	86.4	84.6	83.7	82.8
57.5°	86.9	83.2	80.5	78.7	78.3
60°	87.8	82.3	78.7	76.5	76.0
62.5°	90.0	82.8	77.8	75.6	75.1
65°	89.6	81.9	77.4	74.6	74.2
66°	88.2	81.0	76.5	74.2	73.7
67.5°	86.0	79.6	75.6	73.7	72.8
70°	81.9	77.8	74.6	72.4	71.5
72.5°	78.3	75.1	72.4	70.1	69.7
75°	74.2	71.5	68.8	67.0	66.5
77.5°	69.2	66.5	64.7	63.3	62.9
80°	61.1	59.3	57.5	55.6	55.6
82.5°	50.7	49.3	47.5	46.1	45.7
85°	38.9	38.9	37.6	36.2	35.7
87.5°	23.1	22.6	22.6	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

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