

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: P677254

Luminaire Tested: **CCW-SA-1F-727-U-SLL-HSS**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P677254
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-727-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4549.4 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

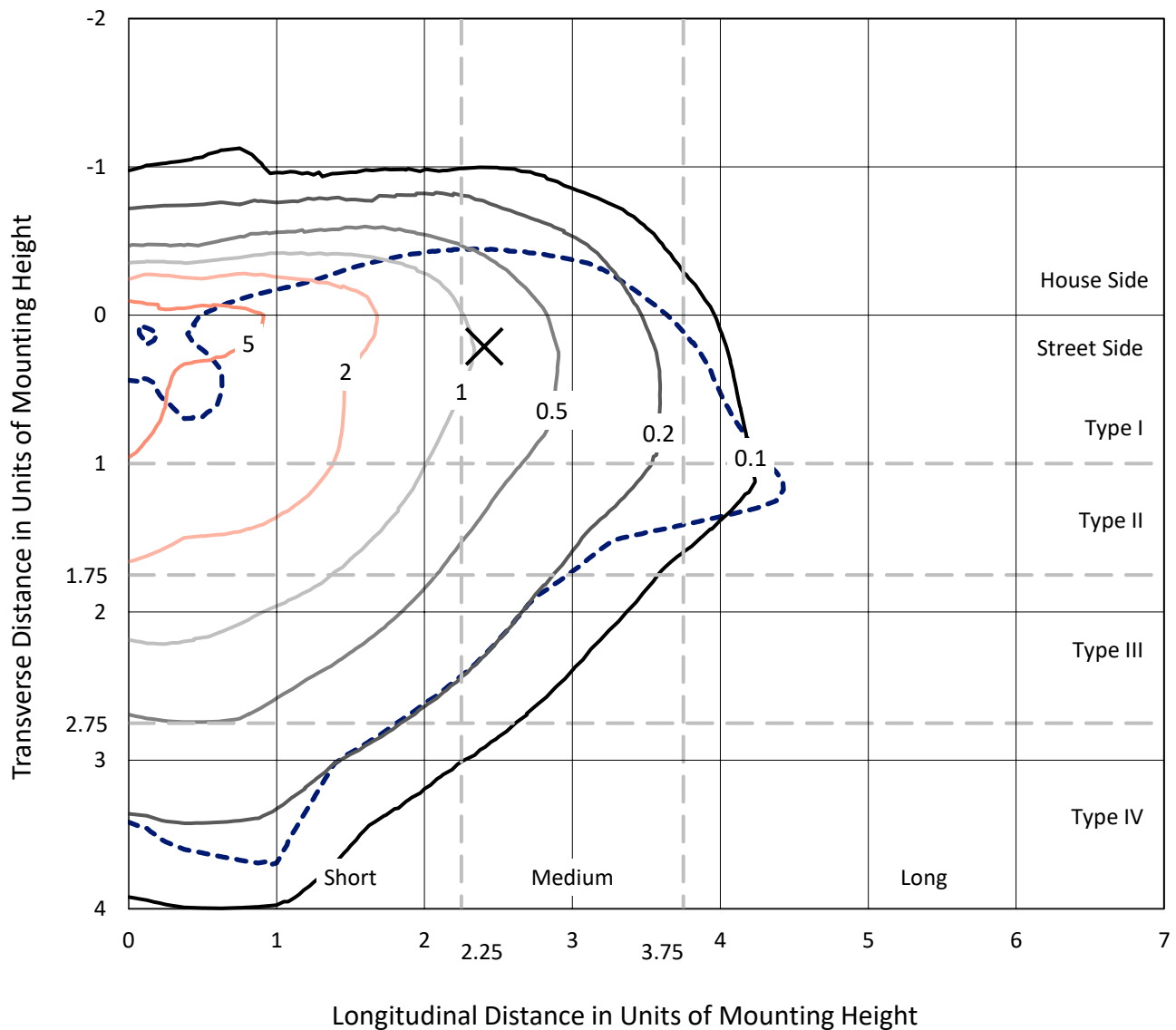
Input Watts (W): 67
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

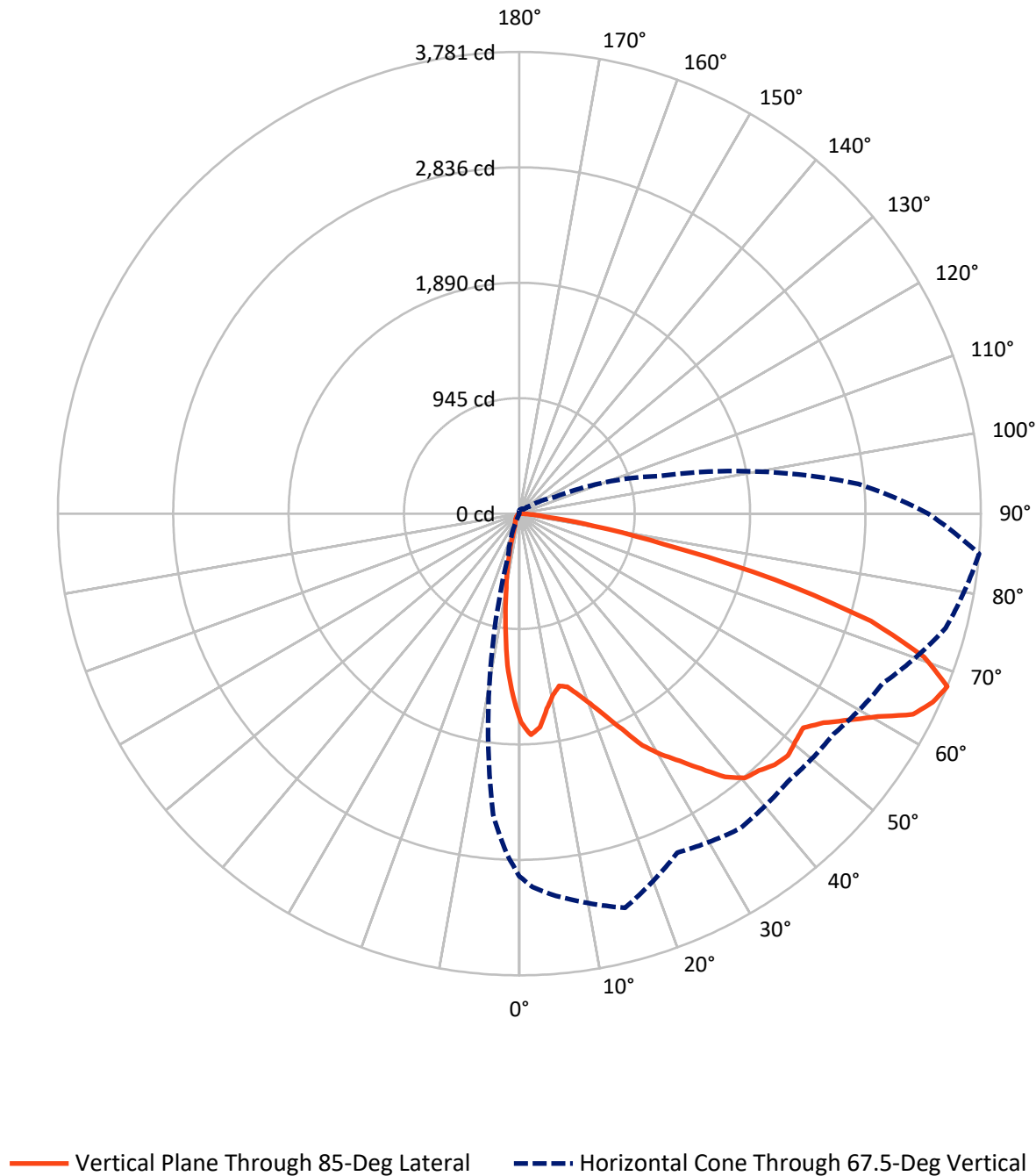
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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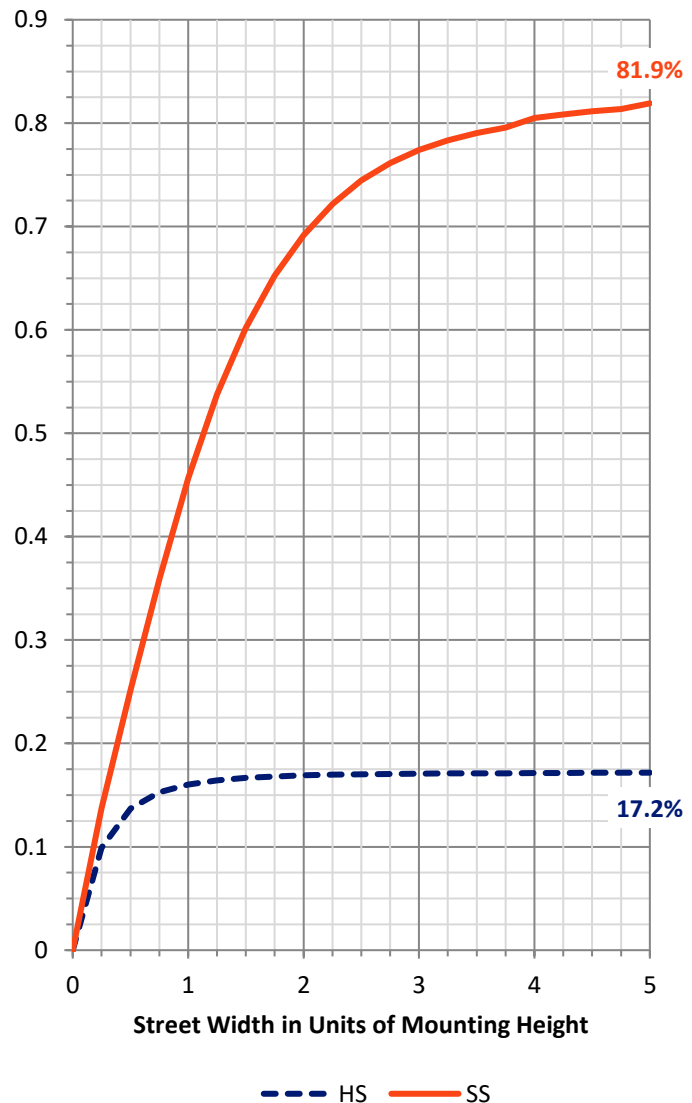
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	789.9	0.0	789.9
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3759.4	0.0	3759.4
	% Fixture	82.6	0.0	82.6
Total	Lumens	4549.4	0.0	4549.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	2.9
10°-20°	254.8	5.6
20°-30°	352.6	7.8
30°-40°	498.4	11.0
40°-50°	678.5	14.9
50°-60°	898.7	19.8
60°-70°	1043.4	22.9
70°-80°	590.9	13.0
80°-90°	102.1	2.2
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°	4549.4	100.0
0°-180°	4549.4	100.0

Coefficient of Utilization



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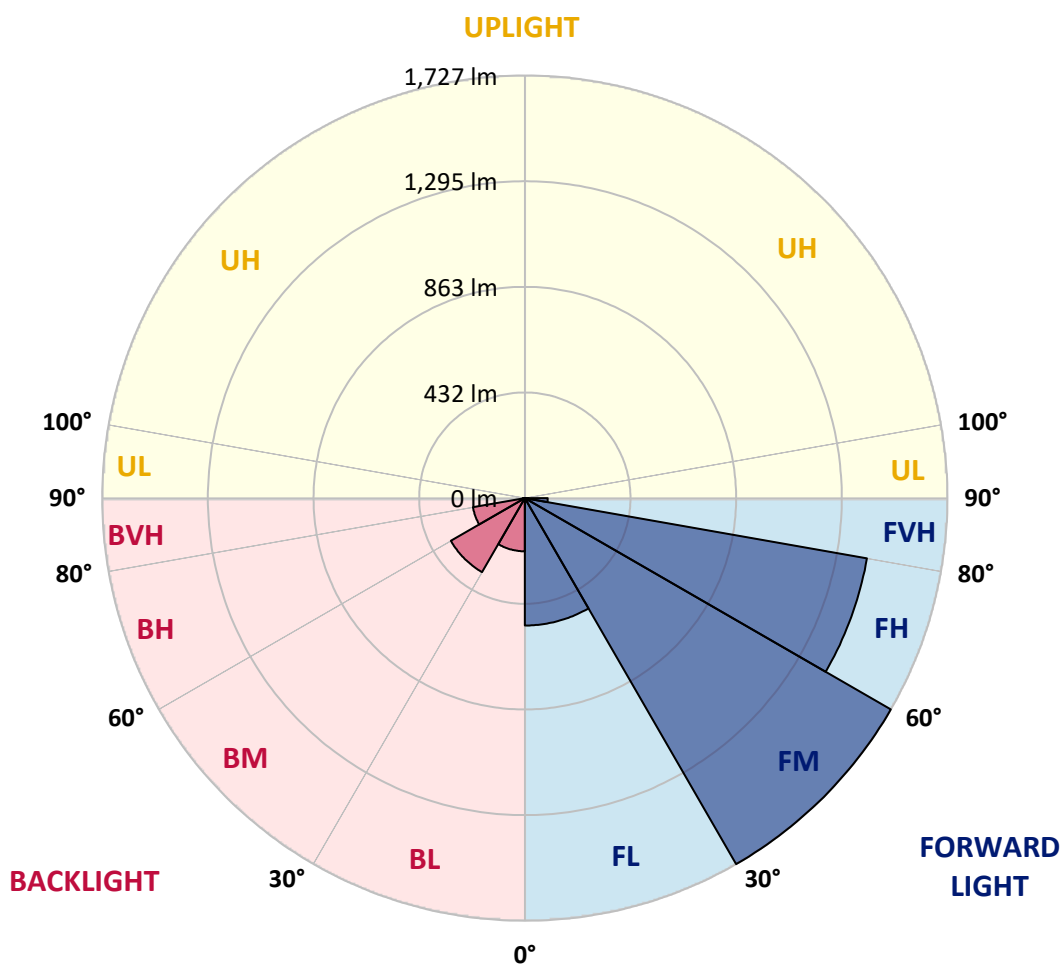
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	520.2	11.4			
FM	(30°-60°)	1726.5	38.0			
FH	(60°-80°)	1419.2	31.2			G1/1800
FVH	(80°-90°)	93.5	2.1			G1/100
BL	(0°-30°)	217.2	4.8	B1/500		
BM	(30°-60°)	349.0	7.7	B1/1000		
BH	(60°-80°)	215.1	4.7	B1/500		G1/500
BVH	(80°-90°)	8.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5
2.5°	1777.3	1815.0	1816.2	1833.2	1850.2	1850.2	1890.3	1880.6	1845.4	1839.3	1813.8
5°	1790.7	1804.1	1813.8	1900.0	1972.9	1965.6	1987.5	1972.9	1904.9	1817.4	1757.9
7.5°	1675.3	1689.9	1728.7	1875.7	1974.2	2007.0	2048.3	1957.1	1885.5	1727.5	1613.3
10°	1522.2	1550.2	1621.8	1789.5	1911.0	2015.5	2015.5	1942.6	1804.1	1649.8	1510.1
12.5°	1437.2	1493.1	1531.9	1702.0	1860.0	1931.6	1929.2	1890.3	1800.4	1606.0	1448.1
15°	1451.8	1467.6	1550.2	1682.6	1787.1	1783.4	1827.2	1815.0	1751.8	1644.9	1471.2
17.5°	1518.6	1542.9	1614.6	1682.6	1732.4	1717.8	1716.6	1774.9	1778.6	1710.5	1557.5
20°	1627.9	1699.6	1733.6	1754.3	1693.5	1631.6	1624.3	1705.7	1768.8	1794.4	1660.7
22.5°	1802.9	1850.2	1919.5	1813.8	1655.9	1578.1	1563.5	1653.4	1781.0	1894.0	1794.4
25°	1974.2	2010.6	2077.4	1941.4	1698.4	1567.2	1541.7	1619.4	1827.2	2032.5	1955.9
27.5°	2155.2	2186.8	2194.0	2034.9	1721.5	1545.3	1514.9	1619.4	1866.0	2105.4	2149.1
30°	2265.7	2303.4	2310.7	2117.5	1759.1	1563.5	1548.9	1626.7	1892.8	2167.3	2287.6
32.5°	2389.6	2399.4	2393.3	2132.1	1800.4	1617.0	1556.2	1675.3	1923.1	2241.4	2413.9
35°	2537.8	2554.9	2492.9	2198.9	1892.8	1651.0	1629.1	1734.8	1975.4	2275.4	2567.0
37.5°	2650.8	2704.3	2564.6	2224.4	1911.0	1722.7	1726.3	1858.7	2011.8	2316.7	2735.9
40°	2863.4	2773.5	2686.1	2311.9	1980.2	1844.2	1824.7	1986.3	2134.5	2343.5	2846.4
42.5°	2980.1	2932.7	2733.4	2320.4	2087.1	2011.8	2016.7	2130.9	2198.9	2418.8	2876.8
45°	3009.2	2959.4	2797.8	2326.5	2192.8	2209.8	2293.7	2315.5	2293.7	2468.6	2933.9
47.5°	3083.3	2975.2	2790.5	2407.9	2364.1	2429.7	2536.6	2584.0	2422.4	2450.4	2960.6
50°	3068.7	3006.8	2774.7	2441.9	2573.1	2746.8	2818.5	2799.0	2565.8	2412.7	2931.5
52.5°	3008.0	2941.2	2823.3	2534.2	2768.7	2978.8	3078.5	3029.9	2693.4	2497.8	2912.0
55°	3096.7	3045.7	2886.5	2659.3	2915.7	3182.9	3253.4	3217.0	2850.1	2576.7	3022.6
57.5°	3192.7	3181.7	3057.8	2806.3	3089.4	3393.1	3393.1	3348.2	2986.1	2690.9	3186.6
60°	3331.2	3355.5	3184.2	2903.5	3148.9	3381.0	3557.1	3504.9	3123.4	2891.4	3372.5
62.5°	3286.2	3364.0	3346.9	3112.5	3217.0	3440.5	3536.5	3575.3	3293.5	3135.6	3620.3
65°	3141.6	3224.2	3345.7	3249.8	3165.9	3295.9	3344.5	3462.4	3378.5	3365.2	3722.3
67.5°	2969.1	3059.0	3134.3	3342.1	3062.7	3148.9	3106.4	3144.1	3286.2	3616.6	3780.7
70°	2592.5	2678.8	2797.8	3136.8	2789.3	2711.6	2700.6	2682.4	2903.5	3526.7	3515.8
72.5°	2132.1	2172.2	2369.0	2550.0	2064.1	2049.5	2066.5	2045.8	2302.2	3192.7	3011.6
75°	1596.3	1636.4	1748.2	1958.4	1405.6	1321.8	1419.0	1514.9	1757.9	2478.3	2163.7
77.5°	1200.3	1251.3	1321.8	1465.1	1031.4	900.2	913.6	1004.7	1270.7	1985.1	1212.4
80°	778.7	772.7	908.7	1008.3	776.3	800.6	766.6	833.4	920.9	1061.8	619.6
82.5°	449.5	455.6	512.7	578.3	540.6	618.4	445.9	744.7	657.2	432.5	230.8
85°	252.7	263.6	315.9	400.9	338.9	227.2	185.9	369.3	413.1	177.4	111.8
87.5°	25.5	21.9	42.5	151.9	92.3	37.7	55.9	88.7	99.6	66.8	32.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5
2.5°	1777.3	1777.3	1747.0	1695.9	1675.3	1638.8	1589.0	1604.8	1587.8	1525.9	1510.1
5°	1704.5	1646.1	1583.0	1505.2	1460.3	1367.9	1338.8	1286.5	1295.0	1242.8	1245.2
7.5°	1552.6	1506.4	1399.5	1297.5	1208.8	1128.6	1015.6	973.1	931.8	911.1	935.4
10°	1463.9	1377.7	1231.9	1098.2	980.4	908.7	833.4	775.1	721.6	681.5	673.0
12.5°	1399.5	1323.0	1146.8	984.0	891.7	833.4	764.1	684.0	631.7	562.5	541.8
15°	1380.1	1286.5	1100.7	939.1	849.2	753.2	674.2	595.3	527.3	454.4	428.8
17.5°	1446.9	1338.8	1099.5	902.6	776.3	673.0	563.7	475.0	405.8	338.9	323.2
20°	1559.9	1394.7	1134.7	880.8	707.0	568.6	444.6	356.0	278.2	234.5	223.5
22.5°	1688.7	1489.4	1138.3	822.5	637.8	464.1	324.4	234.5	190.7	170.1	164.0
25°	1846.6	1641.3	1182.1	775.1	556.4	352.3	230.8	179.8	154.3	142.1	139.7
27.5°	1976.6	1747.0	1229.4	725.3	476.2	261.2	181.0	147.0	133.6	121.5	120.3
30°	2111.4	1868.5	1242.8	694.9	407.0	215.0	155.5	130.0	115.4	109.3	108.1
32.5°	2229.3	2000.9	1285.3	645.1	341.4	189.5	140.9	116.6	106.9	97.2	96.0
35°	2381.1	2077.4	1306.0	618.4	317.1	171.3	128.8	106.9	92.3	86.3	83.8
37.5°	2543.9	2151.5	1319.3	597.7	296.4	160.4	121.5	100.8	87.5	79.0	76.5
40°	2695.8	2256.0	1299.9	572.2	280.6	147.0	116.6	93.5	81.4	72.9	69.2
42.5°	2812.4	2358.0	1293.8	547.9	263.6	142.1	110.6	89.9	76.5	66.8	65.6
45°	2878.0	2427.3	1251.3	528.5	250.3	144.6	108.1	85.0	72.9	64.4	59.5
47.5°	2862.2	2480.7	1262.2	522.4	232.0	134.8	106.9	81.4	66.8	59.5	55.9
50°	2949.7	2588.9	1244.0	503.0	218.7	121.5	116.6	81.4	65.6	57.1	53.5
52.5°	2964.3	2687.3	1282.9	467.7	198.0	111.8	115.4	80.2	63.2	54.7	49.8
55°	3085.8	2801.5	1358.2	448.3	181.0	97.2	105.7	77.8	57.1	49.8	47.4
57.5°	3251.0	3038.4	1406.8	430.1	157.9	85.0	88.7	76.5	52.2	46.2	42.5
60°	3410.1	3133.1	1410.5	397.3	136.1	76.5	69.2	76.5	48.6	41.3	37.7
62.5°	3529.2	3133.1	1386.2	369.3	119.1	68.0	60.7	72.9	43.7	36.4	34.0
65°	3464.8	3049.3	1323.0	346.2	108.1	59.5	52.2	55.9	38.9	31.6	29.2
67.5°	3349.4	2788.1	1183.3	318.3	106.9	52.2	44.9	41.3	34.0	27.9	25.5
70°	3164.7	2435.8	985.3	286.7	104.5	47.4	40.1	35.2	30.4	24.3	21.9
72.5°	2550.0	2011.8	809.1	268.5	102.0	41.3	34.0	30.4	25.5	20.7	18.2
75°	1766.4	1285.3	623.2	229.6	99.6	37.7	31.6	26.7	21.9	17.0	15.8
77.5°	1059.4	858.9	402.1	172.5	65.6	30.4	26.7	20.7	18.2	14.6	13.4
80°	495.7	405.8	162.8	66.8	31.6	21.9	18.2	15.8	14.6	12.1	10.9
82.5°	194.4	171.3	79.0	38.9	25.5	17.0	14.6	13.4	12.1	9.7	8.5
85°	104.5	92.3	37.7	26.7	18.2	12.1	12.1	10.9	9.7	8.5	7.3
87.5°	23.1	17.0	15.8	15.8	13.4	9.7	9.7	8.5	7.3	6.1	4.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5
2.5°	1501.6	1519.8	1490.6	1508.9	1483.3	1502.8	1505.2	1487.0	1491.9	1516.1	1527.1
5°	1279.3	1267.1	1240.4	1231.9	1233.1	1217.3	1223.4	1231.9	1245.2	1252.5	1274.4
7.5°	922.1	950.0	948.8	969.5	970.7	968.2	951.2	914.8	926.9	917.2	929.4
10°	659.7	671.8	694.9	708.3	732.6	719.2	680.3	665.7	658.5	657.2	669.4
12.5°	527.3	498.1	495.7	500.5	512.7	496.9	477.4	460.4	468.9	485.9	499.3
15°	408.2	383.9	352.3	347.5	349.9	342.6	321.9	300.1	306.1	323.2	332.9
17.5°	313.4	285.5	263.6	249.0	244.2	218.7	188.3	170.1	165.2	164.0	172.5
20°	211.4	206.5	202.9	184.7	184.7	148.2	122.7	109.3	109.3	111.8	113.0
22.5°	157.9	151.9	153.1	149.4	139.7	110.6	97.2	93.5	93.5	96.0	96.0
25°	137.3	128.8	126.3	125.1	115.4	94.8	85.0	81.4	81.4	83.8	83.8
27.5°	116.6	114.2	110.6	105.7	97.2	81.4	75.3	71.7	72.9	74.1	72.9
30°	106.9	100.8	96.0	96.0	86.3	72.9	68.0	65.6	63.2	65.6	66.8
32.5°	94.8	91.1	88.7	85.0	74.1	64.4	59.5	57.1	55.9	55.9	57.1
35°	81.4	81.4	79.0	74.1	64.4	58.3	52.2	49.8	48.6	49.8	49.8
37.5°	72.9	69.2	70.5	65.6	57.1	51.0	44.9	42.5	42.5	41.3	42.5
40°	68.0	62.0	58.3	55.9	51.0	43.7	38.9	36.4	35.2	35.2	35.2
42.5°	60.7	55.9	48.6	47.4	46.2	37.7	31.6	30.4	29.2	27.9	27.9
45°	57.1	49.8	43.7	37.7	37.7	31.6	26.7	24.3	23.1	21.9	23.1
47.5°	52.2	44.9	37.7	31.6	30.4	25.5	20.7	18.2	17.0	17.0	17.0
50°	49.8	40.1	32.8	26.7	23.1	20.7	15.8	13.4	12.1	12.1	12.1
52.5°	46.2	37.7	29.2	23.1	18.2	15.8	12.1	9.7	8.5	8.5	8.5
55°	41.3	34.0	25.5	19.4	15.8	12.1	8.5	6.1	4.9	4.9	4.9
57.5°	38.9	30.4	21.9	17.0	12.1	8.5	4.9	3.6	3.6	2.4	3.6
60°	35.2	26.7	18.2	13.4	9.7	6.1	3.6	1.2	1.2	1.2	1.2
62.5°	30.4	23.1	15.8	10.9	7.3	3.6	1.2	0.0	0.0	0.0	0.0
65°	25.5	18.2	12.1	8.5	4.9	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	21.9	15.8	9.7	6.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	19.4	13.4	7.3	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.8	10.9	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.4	8.5	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.9	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.5	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5
2.5°	1542.9	1535.6	1572.0	1631.6	1661.9	1721.5	1736.0	1773.7	1764.0	1777.3
5°	1276.8	1291.4	1344.9	1432.3	1463.9	1550.2	1631.6	1713.0	1765.2	1790.7
7.5°	947.6	996.2	1061.8	1142.0	1223.4	1336.3	1474.8	1569.6	1620.6	1675.3
10°	705.8	758.1	833.4	912.4	1044.8	1171.1	1309.6	1427.5	1471.2	1522.2
12.5°	555.2	636.6	724.1	809.1	888.1	1008.3	1179.6	1350.9	1398.3	1437.2
15°	386.3	485.9	611.1	721.6	832.2	936.7	1114.0	1321.8	1386.2	1451.8
17.5°	213.8	292.8	436.1	591.6	754.4	914.8	1135.9	1375.2	1472.4	1518.6
20°	123.9	155.5	257.6	442.2	657.2	867.4	1146.8	1476.1	1604.8	1627.9
22.5°	102.0	113.0	145.8	277.0	538.2	837.0	1202.7	1617.0	1748.2	1802.9
25°	87.5	96.0	113.0	166.4	407.0	772.7	1237.9	1793.1	1914.6	1974.2
27.5°	77.8	86.3	99.6	122.7	277.0	684.0	1296.3	1952.3	2073.8	2155.2
30°	68.0	75.3	88.7	104.5	191.9	584.3	1346.1	2068.9	2240.2	2265.7
32.5°	60.7	66.8	76.5	89.9	142.1	443.4	1386.2	2189.2	2333.8	2389.6
35°	52.2	59.5	65.6	76.5	108.1	334.1	1361.9	2282.7	2471.0	2537.8
37.5°	46.2	51.0	57.1	64.4	91.1	261.2	1312.1	2394.5	2588.9	2650.8
40°	38.9	42.5	49.8	57.1	82.6	201.7	1255.0	2529.3	2754.1	2863.4
42.5°	32.8	36.4	41.3	53.5	68.0	149.4	1139.5	2633.8	2887.7	2980.1
45°	25.5	30.4	37.7	53.5	54.7	110.6	1020.5	2711.6	2963.0	3009.2
47.5°	19.4	24.3	36.4	46.2	43.7	76.5	879.6	2800.3	3040.8	3083.3
50°	14.6	19.4	41.3	40.1	36.4	58.3	790.9	2862.2	3045.7	3068.7
52.5°	9.7	14.6	34.0	30.4	30.4	51.0	766.6	2859.8	3057.8	3008.0
55°	7.3	10.9	19.4	21.9	26.7	44.9	744.7	2950.9	3061.5	3096.7
57.5°	4.9	8.5	13.4	17.0	23.1	38.9	699.8	3060.2	3174.4	3192.7
60°	2.4	6.1	9.7	13.4	19.4	34.0	636.6	3140.4	3311.7	3331.2
62.5°	1.2	3.6	7.3	10.9	15.8	26.7	571.0	3012.9	3252.2	3286.2
65°	0.0	2.4	4.9	7.3	9.7	19.4	464.1	2720.1	3016.5	3141.6
67.5°	0.0	0.0	2.4	4.9	6.1	14.6	349.9	2474.7	2799.0	2969.1
70°	0.0	0.0	1.2	1.2	3.6	10.9	223.5	2049.5	2499.0	2592.5
72.5°	0.0	0.0	0.0	0.0	1.2	7.3	130.0	1522.2	1958.4	2132.1
75°	0.0	0.0	0.0	0.0	0.0	6.1	65.6	979.2	1363.1	1596.3
77.5°	0.0	0.0	0.0	0.0	0.0	4.9	35.2	631.7	1004.7	1200.3
80°	0.0	0.0	0.0	0.0	0.0	1.2	20.7	366.9	642.7	778.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.5	179.8	383.9	449.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	96.0	191.9	252.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	13.4	25.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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