Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: McGRAW-EDISON

Report Number: P949403

Luminaire Tested: **GALN-SB4A-930-U-T2U**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P949403
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB4A-930-U-T2U
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12674 lumens
Efficiency:	N/A
Efficacy:	111.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3
Input Watts (W):	114
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:	24 FT

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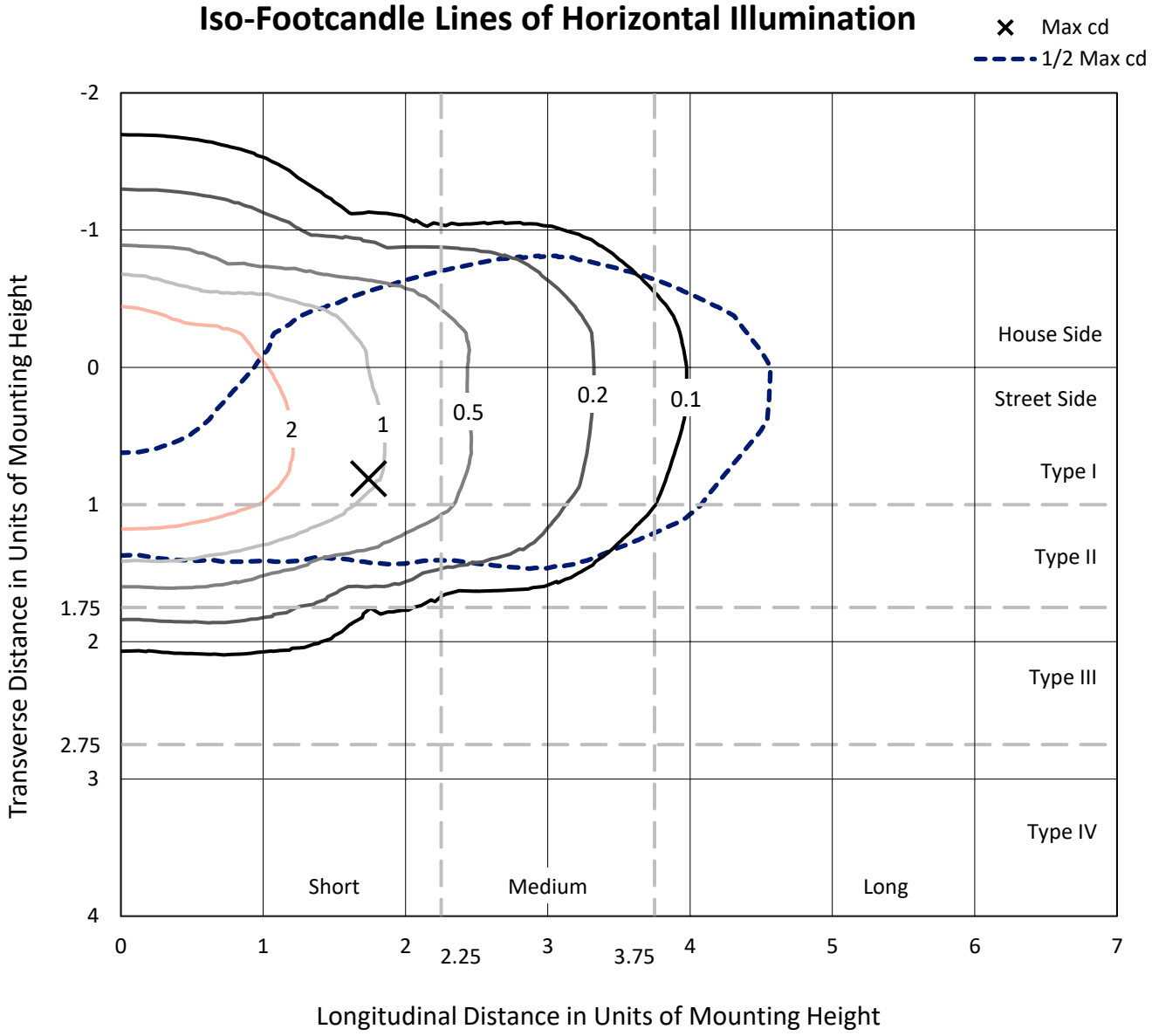
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Short - N/A

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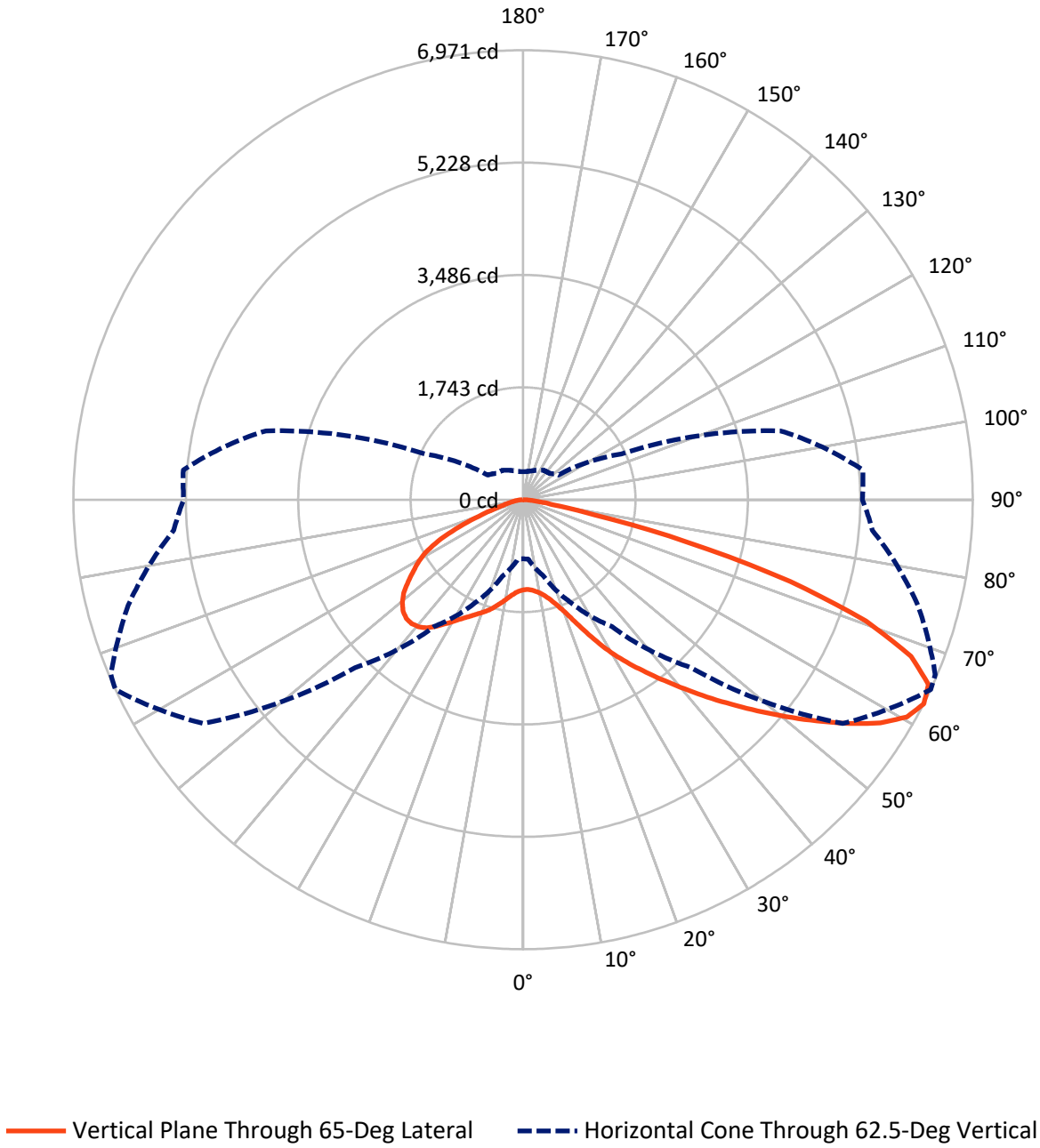
Luminous Intensity Polar Plot



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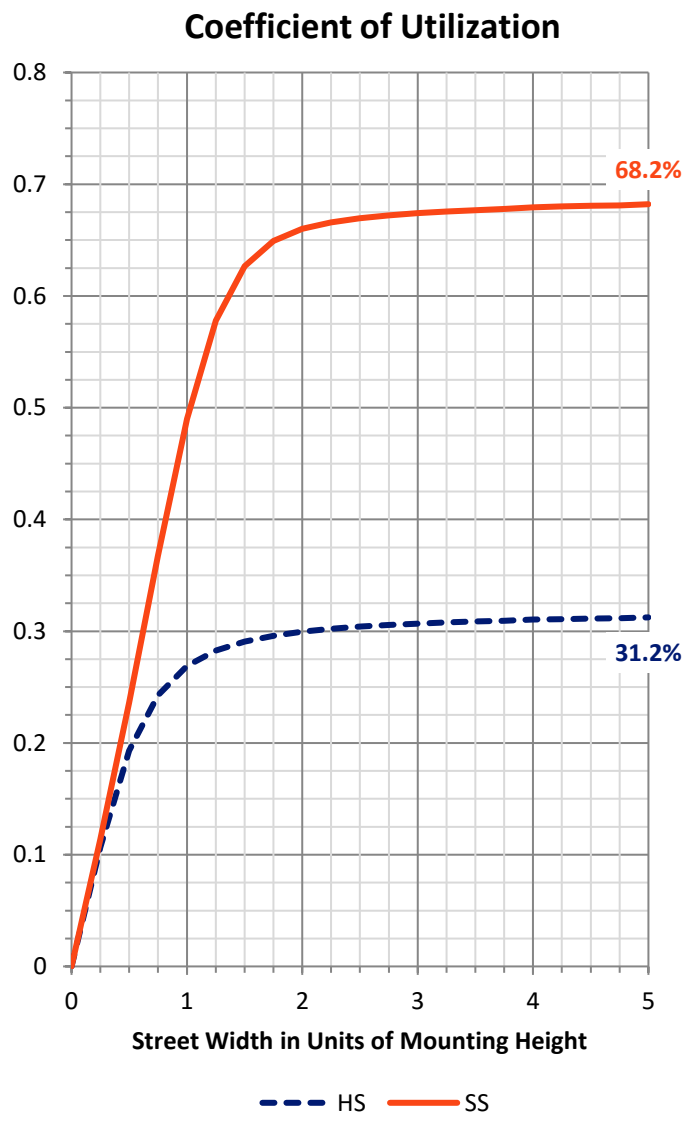
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3999.4	0.0	3999.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8674.6	0.0	8674.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	12674.0	0.0	12674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	1.1
10°-20°	472.2	3.7
20°-30°	957.4	7.6
30°-40°	1656.8	13.1
40°-50°	2507.2	19.8
50°-60°	2939.5	23.2
60°-70°	2464.4	19.4
70°-80°	1360.6	10.7
80°-90°	176.7	1.4
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°	12674.0	100.0
0°-180°	12674.0	100.0



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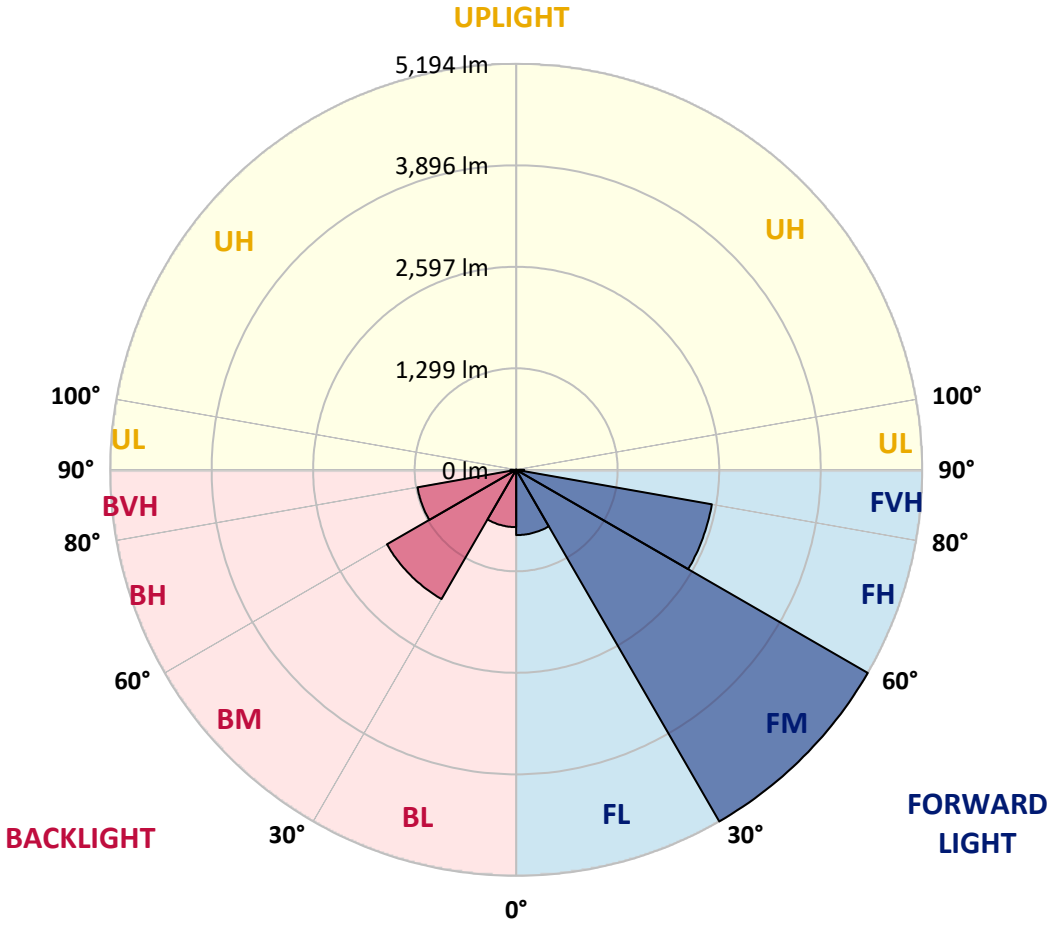
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	835.4	6.6			
FM	(30°-60°)	5194.2	41.0			
FH	(60°-80°)	2542.0	20.1			G2/5000
FVH	(80°-90°)	103.0	0.8			G2/225
BL	(0°-30°)	733.4	5.8	B2/1000		
BM	(30°-60°)	1909.2	15.1	B2/2500		
BH	(60°-80°)	1283.0	10.1	B3/2500		G3/2500
BVH	(80°-90°)	73.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	*1396.6*	1396.6	1396.6
2.5°	1387.4	1383.5	1386.8	1386.8	1388.1	1387.4	1392.0	*1393.3*	1395.3	1399.3
5°	1373.6	1372.9	1378.9	1384.1	1389.4	1394.0	1399.9	*1408.5*	1409.8	1414.4
7.5°	1369.0	1365.1	1374.3	1380.8	1393.3	1404.5	1420.3	*1434.8*	1440.7	1442.6
10°	1404.5	1397.9	1406.5	1410.4	1420.9	1432.1	1450.5	*1473.6*	1480.1	1488.0
12.5°	1465.0	1457.8	1470.3	1476.2	1486.0	1495.9	1508.4	*1530.8*	1534.0	1548.5
15°	1547.9	1539.3	1547.2	1554.4	1570.9	1580.1	1592.6	*1614.3*	1614.3	1625.4
17.5°	1660.3	1649.1	1655.0	1657.7	1668.2	1682.0	1703.0	*1722.1*	1732.0	1728.0
20°	1828.0	1814.2	1814.2	1801.0	1797.1	1808.2	1835.9	*1862.2*	1872.7	1852.3
22.5°	2079.8	2060.1	2048.9	2004.2	1986.4	1987.8	2015.4	*2047.6*	2056.1	2020.0
25°	2400.0	2369.1	2354.0	2288.2	2248.1	2213.3	2235.0	*2276.4*	2288.2	2243.5
27.5°	2720.3	2722.2	2707.8	2628.9	2562.4	2498.7	2487.5	*2530.9*	2543.4	2492.7
30°	3169.4	3122.7	3095.1	3000.4	2905.7	2816.3	2770.2	*2788.0*	2791.3	2730.8
32.5°	3556.6	3544.8	3485.6	3402.8	3281.1	3141.1	3064.1	*3035.9*	3030.6	2944.5
35°	3997.9	3991.3	3928.8	3830.2	3698.7	3504.0	3365.3	*3284.4*	3277.8	3156.9
37.5°	4446.3	4446.3	4385.1	4277.3	4141.2	3897.9	3686.8	*3558.6*	3537.6	3379.8
40°	4804.0	4782.3	4793.5	4748.1	4592.3	4333.9	4043.9	*3857.8*	3829.5	3640.2
42.5°	5007.2	5000.0	5067.0	5117.7	5053.9	4847.4	4437.1	*4182.0*	4142.5	3926.8
45°	5052.6	5044.7	5164.3	5349.8	5439.2	5354.4	4864.5	*4523.2*	4475.2	4226.7
47.5°	4948.0	4932.2	5107.8	5400.4	5687.1	5836.3	5327.4	*4893.4*	4823.7	4518.6
50°	4633.7	4618.6	4884.2	5272.8	5770.6	6163.8	5829.8	*5286.0*	5179.5	4831.6
52.5°	3950.5	3957.7	4374.0	4907.9	5660.8	6367.6	6262.4	*5699.6*	5571.4	5151.8
55°	3077.3	3093.1	3604.6	4192.5	5221.5	6336.7	6557.7	*6125.7*	5998.1	5453.0
57.5°	2203.4	2273.1	2752.5	3334.4	4377.9	5846.9	6622.1	*6530.7*	6407.1	5781.8
60°	1428.2	1440.7	1933.8	2520.4	3333.7	4976.3	6491.3	*6837.8*	6741.1	6117.1
62.5°	*915.3*	*923.8*	*1224.3*	*1762.9*	*2399.4*	*3681.6*	*6050.7*	*6971.3*	*6941.7*	*6338.7*
65°	672.7	666.1	822.6	1165.2	1616.2	2270.5	5195.2	*6906.8*	6965.3	6477.4
67.5°	561.5	552.3	629.3	806.8	1190.8	1289.4	3844.0	*6488.0*	6702.3	6461.7
70°	511.6	503.7	550.4	599.0	929.1	863.4	1937.8	*5640.4*	5970.5	6282.2
72.5°	433.3	419.5	483.3	532.0	722.6	662.1	800.9	*4332.5*	4735.0	5706.8
75°	336.0	326.8	381.4	468.2	543.1	516.8	506.3	*2630.8*	3070.1	4413.4
77.5°	266.3	253.8	303.8	364.9	488.6	389.9	368.9	*1132.9*	1568.2	2817.6
80°	200.6	189.4	230.8	288.7	375.5	293.9	238.7	*462.3*	591.1	1427.5
82.5°	142.7	132.8	161.1	211.7	252.5	263.7	146.6	*259.1*	291.3	550.4
85°	91.4	85.5	107.8	132.8	160.4	169.6	89.4	*135.5*	148.6	226.9
87.5°	50.0	40.8	57.9	61.8	74.3	67.7	42.7	*49.3*	53.3	82.2
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1396.6	0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
1399.3	2.5°	1401.9	1403.9	1410.4	1412.4	1417.0	1422.9	1426.9	1430.8	1430.8	1434.8
1420.3	5°	1420.9	1425.6	1439.4	1446.6	1458.4	1470.3	1477.5	1486.0	1491.3	1493.9
1453.8	7.5°	1457.8	1465.0	1484.7	1497.2	1517.6	1534.0	1545.2	1557.1	1559.7	1566.9
1500.5	10°	1507.7	1516.3	1538.6	1562.3	1586.6	1607.0	1617.6	1626.1	1629.4	1630.7
1560.3	12.5°	1565.0	1577.4	1606.4	1635.3	1661.0	1678.7	1681.3	1679.4	1670.2	1662.3
1634.0	15°	1635.3	1646.5	1678.7	1710.3	1735.3	1738.5	1722.1	1711.6	1700.4	1698.4
1716.2	17.5°	1719.5	1725.4	1755.0	1785.9	1787.9	1776.7	1752.4	1742.5	1732.0	1724.7
1823.4	20°	1817.4	1815.5	1836.5	1849.7	1835.9	1801.7	1764.8	1748.4	1737.9	1729.3
1954.9	22.5°	1934.5	1919.4	1916.7	1913.4	1876.6	1805.0	1755.0	1733.9	1717.5	1705.7
2138.3	25°	2104.8	2046.9	2006.8	1984.5	1901.6	1787.2	1723.4	1676.7	1645.8	1625.4
2362.5	27.5°	2317.8	2220.5	2119.3	2064.7	1901.6	1751.0	1647.1	1571.5	1520.9	1499.9
2579.5	30°	2521.0	2419.1	2269.8	2161.3	1897.0	1691.9	1524.2	1419.0	1359.8	1338.8
2765.0	32.5°	2694.6	2583.5	2429.6	2267.2	1885.8	1595.9	1371.6	1255.2	1198.0	1173.1
2948.4	35°	2855.7	2737.3	2590.1	2383.6	1856.2	1455.1	1204.0	1115.2	1051.4	1011.3
3135.2	37.5°	3020.7	2880.0	2742.0	2488.8	1803.0	1290.8	1075.1	999.5	924.5	870.6
3333.7	40°	3200.3	3031.9	2904.4	2551.3	1715.5	1134.3	975.1	906.1	826.5	769.3
3562.6	42.5°	3410.0	3214.1	3085.2	2583.5	1595.9	1023.1	910.0	842.3	767.4	720.7
3807.8	45°	3629.0	3414.6	3250.2	2582.8	1462.4	971.2	889.0	821.9	739.1	690.4
4059.7	47.5°	3858.5	3624.4	3392.9	2540.7	1346.6	978.4	877.2	777.9	686.5	639.1
4314.1	50°	4088.6	3853.9	3531.0	2461.8	1297.3	962.6	833.1	716.1	608.2	565.5
4552.8	52.5°	4316.8	4097.8	3650.0	2349.4	1247.4	904.1	776.6	635.8	576.0	546.4
4799.4	55°	4546.2	4339.1	3779.6	2185.7	1122.4	835.7	681.9	605.6	550.4	523.4
5040.7	57.5°	4776.4	4617.9	3902.5	2021.9	965.3	751.6	629.9	568.8	524.7	501.7
5242.6	60°	5015.7	4936.8	4029.4	1871.4	810.1	643.7	591.8	539.2	494.5	468.8
5436.6	62.5°	*5262.3*	*5288.0*	*4128.7*	*1677.4*	*667.4*	*578.0*	*557.6*	*503.7*	*460.3*	*436.0*
5597.0	65°	5510.9	5626.6	4193.8	1408.5	541.2	515.5	520.8	464.9	420.8	399.8
5714.7	67.5°	5698.3	5870.5	4175.4	1065.9	443.8	456.3	474.7	424.1	382.7	366.3
5695.6	70°	5719.3	5841.6	3993.9	729.9	371.5	398.5	423.5	384.0	341.3	329.4
5427.4	72.5°	5439.2	5447.1	3488.3	476.7	314.3	349.8	369.5	343.2	301.8	290.0
4748.1	75°	4704.7	4504.8	2561.1	314.3	263.0	300.5	318.9	300.5	260.4	263.0
3552.7	77.5°	3564.5	3190.4	1555.1	223.6	219.6	252.5	277.5	264.3	230.1	258.4
1786.5	80°	1836.5	1726.0	693.7	167.0	173.6	201.9	228.2	211.1	182.1	173.6
399.1	82.5°	420.8	489.2	273.5	119.7	125.6	145.3	174.2	158.5	130.9	110.5
166.4	85°	147.3	161.1	121.0	75.0	73.6	90.7	118.4	105.9	88.8	71.0
70.4	87.5°	46.7	61.2	45.4	30.2	31.6	40.8	54.6	50.0	41.4	27.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

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180°
1396.6
1434.8
1495.3
1564.3
1627.4
1662.3
1698.4
1725.4
1730.0
1709.6
1633.3
1510.4
1351.2
1185.5
1024.5
885.1
780.5
729.9
698.3
645.7
568.1
546.4
520.8
497.8
466.9
435.3
399.1
366.9
330.1
289.3
253.8
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158.5
109.2
75.0
28.3
0.0

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