

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: P945211

Luminaire Tested: **GALN-SB1B-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

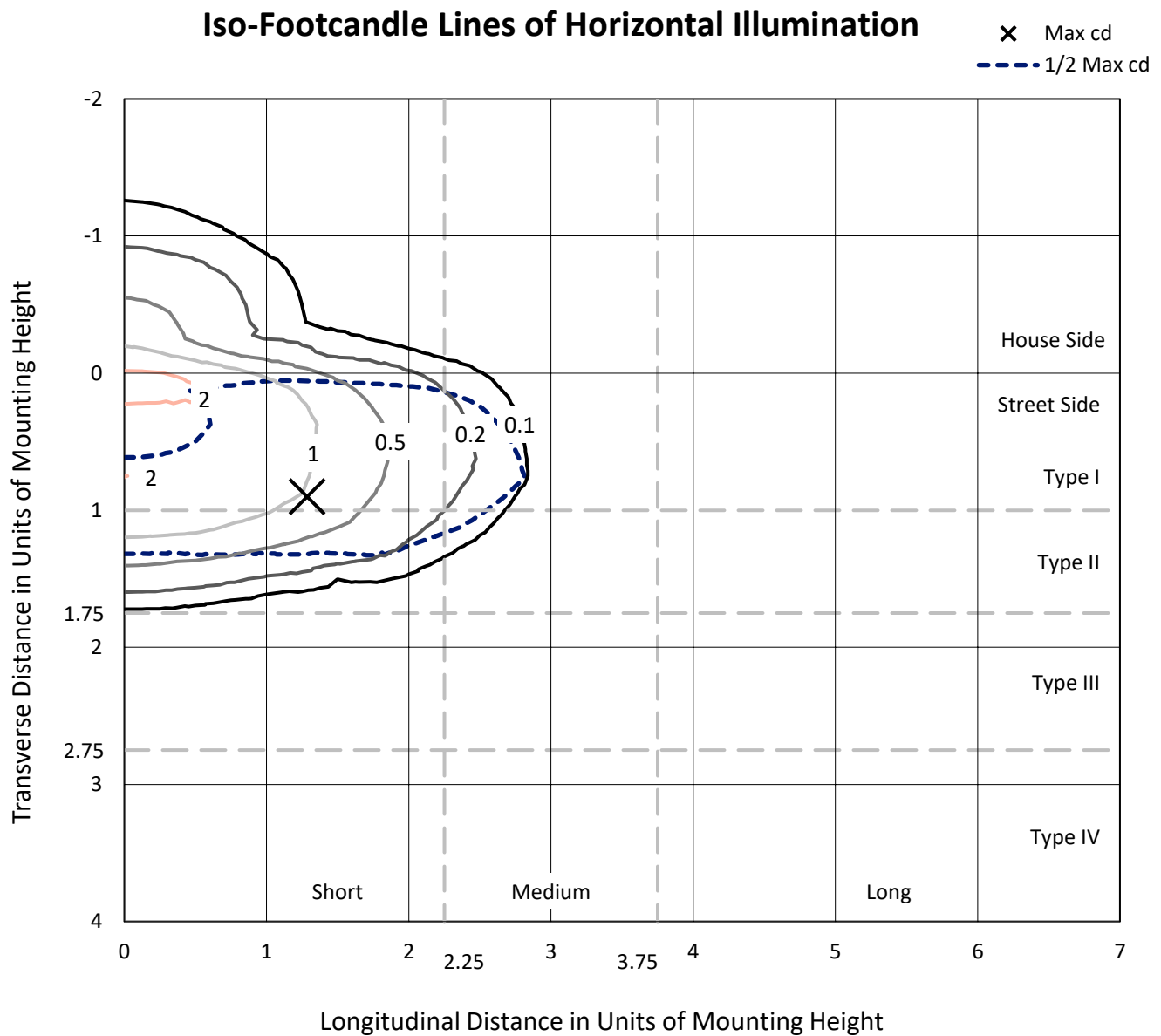
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5314 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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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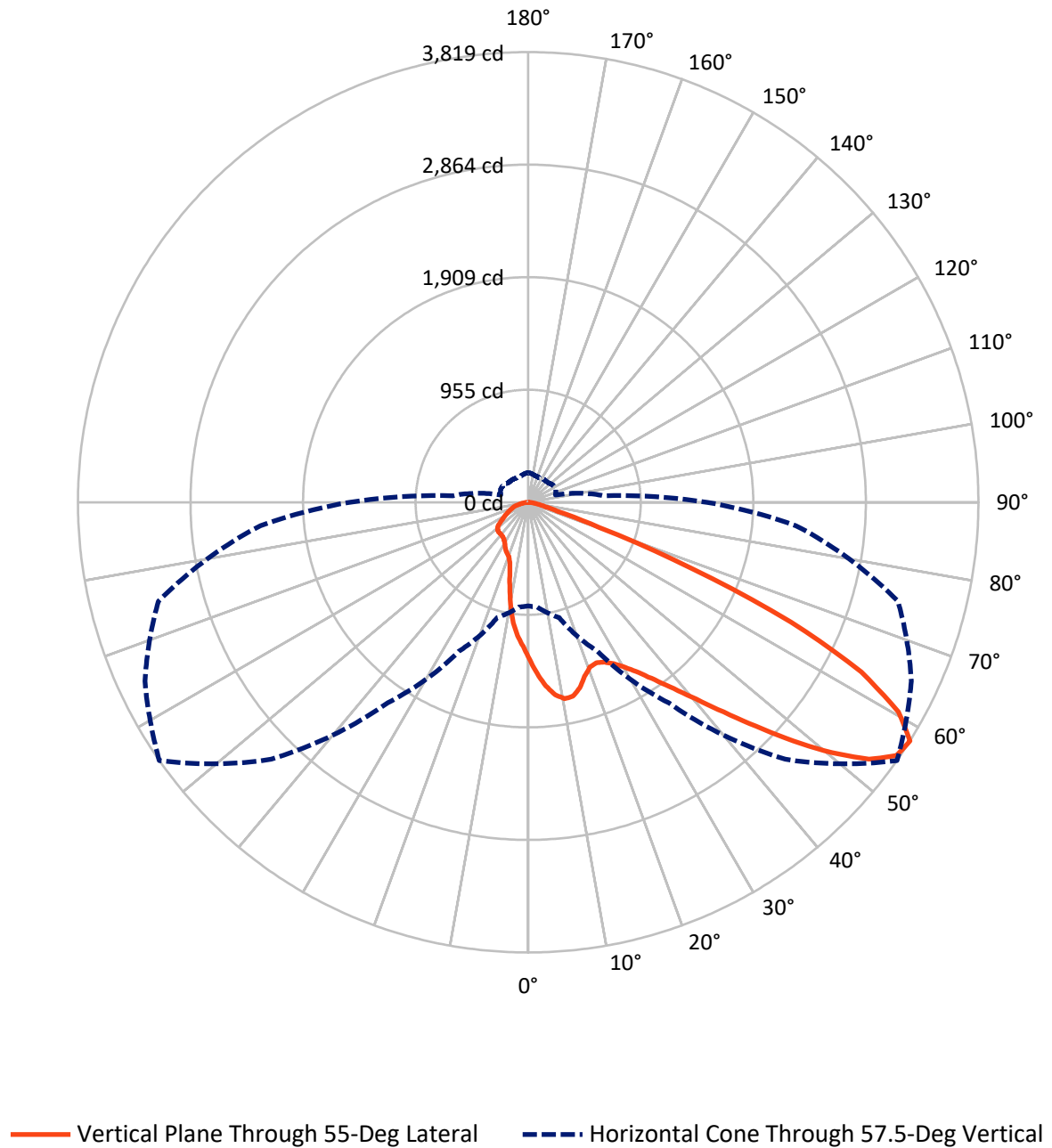


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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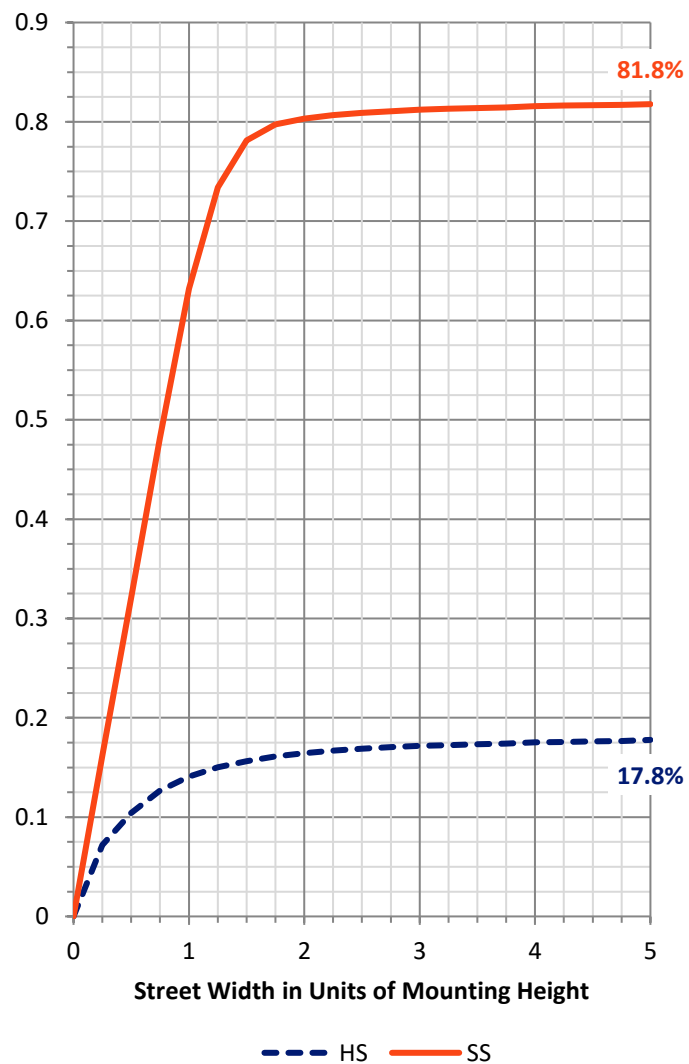
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	961.5	0.0	961.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4352.5	0.0	4352.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	5314.0	0.0	5314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	2.3
10°-20°	311.9	5.9
20°-30°	497.6	9.4
30°-40°	787.9	14.8
40°-50°	1205.9	22.7
50°-60°	1291.7	24.3
60°-70°	812.6	15.3
70°-80°	240.3	4.5
80°-90°	42.5	0.8
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°	5314.0	100.0
0°-180°	5314.0	100.0

Coefficient of Utilization



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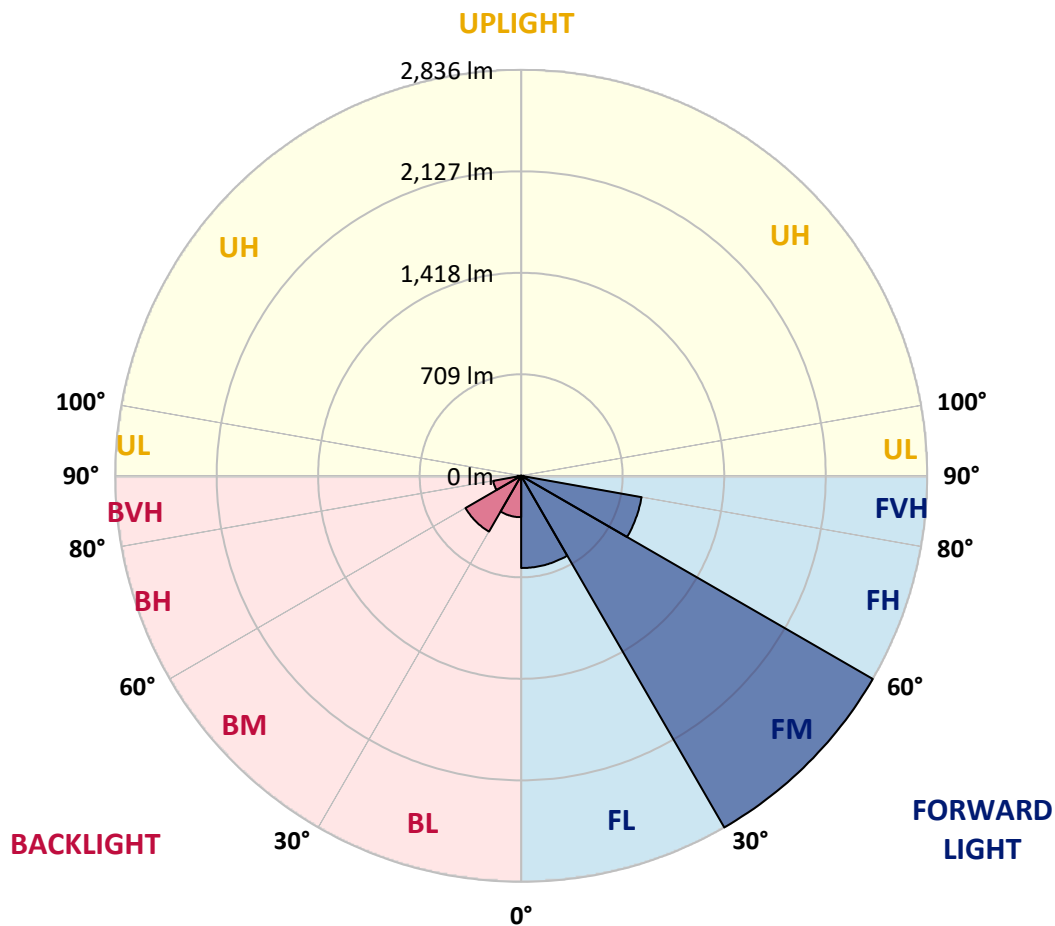
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	644.1	12.1			
FM	(30°-60°)	2836.1	53.4			
FH	(60°-80°)	854.3	16.1			G1/1800
FVH	(80°-90°)	17.9	0.3			G1/100
BL	(0°-30°)	289.0	5.4	B1/500		
BM	(30°-60°)	449.4	8.5	B1/1000		
BH	(60°-80°)	198.6	3.7	B1/500		G1/500
BVH	(80°-90°)	24.5	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5
2.5°	1527.7	1526.6	1532.6	1512.0	1498.0	1479.0	1454.0	1422.2	1387.8	1351.6	1335.9
5°	1665.3	1655.7	1662.0	1646.6	1631.2	1602.7	1565.6	1513.6	1450.2	1377.9	1339.5
7.5°	1643.6	1637.0	1653.2	1666.9	1678.5	1674.9	1647.7	1593.3	1511.5	1406.5	1350.7
10°	1468.6	1461.2	1484.0	1531.5	1601.3	1662.0	1695.0	1661.2	1574.1	1437.8	1361.7
12.5°	1314.2	1310.6	1325.7	1364.2	1441.7	1558.2	1688.9	1720.5	1639.2	1474.9	1376.6
15°	1248.3	1243.9	1253.5	1273.0	1322.5	1431.0	1634.0	1761.2	1703.2	1517.8	1400.2
17.5°	1233.7	1228.8	1232.9	1243.1	1274.9	1357.6	1551.0	1781.2	1770.0	1565.6	1420.0
20°	1260.6	1256.5	1257.1	1256.5	1278.8	1344.4	1493.3	1773.5	1828.2	1609.5	1439.2
22.5°	1325.7	1318.9	1319.2	1304.6	1316.7	1367.5	1478.2	1752.9	1880.1	1648.0	1453.8
25°	1431.8	1419.4	1421.9	1384.8	1381.5	1419.1	1501.8	1737.0	1931.8	1678.7	1456.5
27.5°	1576.8	1562.8	1555.4	1500.2	1473.8	1492.5	1549.9	1742.5	1980.7	1705.4	1449.6
30°	1758.1	1741.1	1726.0	1647.7	1599.9	1593.0	1624.6	1778.7	2038.3	1733.4	1437.8
32.5°	1980.4	1960.6	1933.1	1829.3	1762.0	1726.0	1721.3	1843.3	2105.9	1769.1	1431.8
35°	2244.9	2219.1	2180.1	2045.8	1960.6	1887.0	1848.8	1936.4	2198.5	1823.0	1438.7
37.5°	2517.4	2488.3	2452.6	2292.7	2188.1	2079.5	2004.3	2062.8	2321.8	1896.0	1456.8
40°	2768.8	2736.1	2702.9	2560.6	2448.2	2317.4	2194.7	2222.7	2472.7	1983.4	1487.6
42.5°	2917.1	2893.0	2880.3	2803.4	2716.6	2583.9	2431.5	2412.2	2642.2	2083.9	1522.7
45°	2910.5	2900.7	2939.7	2971.5	2950.9	2877.3	2708.9	2621.8	2812.2	2171.0	1555.1
47.5°	2755.1	2761.7	2848.7	3027.8	3106.7	3145.1	3024.8	2827.6	2960.0	2236.1	1569.7
50°	2332.0	2337.5	2539.1	2925.4	3146.8	3363.5	3338.3	3028.4	3074.5	2276.0	1566.4
52.5°	1997.1	2000.7	2087.2	2621.6	3014.4	3473.4	3620.7	3217.7	3158.3	2287.0	1548.0
55°	1504.3	1516.7	1613.6	2056.7	2669.9	3386.3	3792.6	3412.7	3211.4	2288.1	1528.8
57.5°	878.8	892.3	1012.0	1396.1	2075.2	3082.8	3818.7	3585.8	3247.3	2279.3	1517.2
60°	430.5	436.2	488.4	733.7	1279.6	2497.9	3608.9	3669.6	3267.4	2274.6	1516.7
62.5°	290.1	289.3	291.5	362.1	630.5	1604.9	3171.5	3522.9	3256.7	2256.7	1511.2
65°	249.4	246.4	238.2	254.1	326.6	734.0	2450.4	3085.0	3175.1	2212.0	1473.5
67.5°	215.6	215.9	216.2	211.3	233.2	338.7	1497.4	2430.1	2882.2	1999.9	1328.5
70°	178.6	181.0	182.1	182.1	190.1	222.2	639.2	1665.6	2273.5	1568.0	1070.0
72.5°	162.6	157.4	158.0	155.2	155.2	169.2	257.4	944.2	1432.3	882.1	653.0
75°	132.7	136.0	136.5	134.6	128.3	129.1	152.7	396.1	612.9	365.9	322.8
77.5°	114.6	114.6	115.7	114.3	109.3	96.7	101.9	153.6	208.5	150.0	161.3
80°	92.0	91.8	96.4	99.2	91.5	71.4	65.1	84.9	92.6	65.9	83.8
82.5°	44.8	47.5	66.2	75.5	69.5	51.6	39.8	52.7	49.4	29.1	37.6
85°	26.1	24.7	29.7	42.0	39.8	28.6	19.2	27.5	25.8	14.8	15.1
87.5°	8.2	7.7	6.0	14.3	11.5	8.0	5.2	8.0	7.1	3.3	3.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5	1331.5
2.5°	1316.4	1284.0	1251.9	1222.5	1204.6	1193.1	1181.5	1168.6	1163.7	1156.3
5°	1303.2	1240.6	1184.8	1136.7	1093.1	1058.7	1024.1	996.1	983.5	992.0
7.5°	1295.5	1204.9	1118.9	1030.7	945.8	878.0	818.9	777.4	758.7	763.4
10°	1288.7	1164.5	1033.5	894.2	772.2	688.1	627.7	596.1	584.3	586.8
12.5°	1282.3	1119.2	930.4	747.2	617.5	562.1	544.7	545.0	547.2	548.9
15°	1281.2	1064.5	815.3	618.6	534.0	530.5	549.1	561.0	567.3	569.2
17.5°	1279.6	999.1	698.0	531.0	513.7	537.9	555.2	562.9	567.8	568.1
20°	1273.0	916.2	589.8	489.3	509.3	530.2	540.9	546.9	551.1	552.4
22.5°	1252.7	823.9	505.5	470.6	491.7	508.5	521.1	528.0	530.5	532.1
25°	1216.1	720.6	447.2	452.7	467.3	488.4	498.6	500.0	499.1	501.6
27.5°	1168.3	609.9	411.0	428.5	447.2	465.4	470.9	470.0	468.4	471.1
30°	1110.6	510.4	387.9	401.4	426.9	443.4	448.3	446.4	443.1	446.1
32.5°	1049.7	429.1	368.9	382.4	410.1	426.3	431.3	429.4	426.9	429.4
35°	992.8	372.2	351.4	369.8	397.0	412.9	419.2	419.5	419.5	422.5
37.5°	940.6	339.0	336.8	361.8	387.9	402.2	411.2	411.8	400.0	400.8
40°	892.3	325.0	330.2	356.6	379.1	392.8	393.4	362.6	340.9	340.4
42.5°	852.7	322.2	332.1	356.0	372.8	373.3	334.6	310.7	304.7	304.9
45°	815.6	321.4	336.5	356.0	363.4	322.5	296.4	290.1	290.6	292.8
47.5°	774.1	318.1	337.3	351.1	336.5	286.8	279.1	276.4	275.3	275.8
50°	728.8	306.3	326.9	341.2	290.4	271.4	261.8	261.0	262.3	263.2
52.5°	681.0	287.1	309.0	323.3	269.2	258.0	247.2	249.2	255.2	257.1
55°	649.7	264.5	285.4	287.6	254.4	245.3	236.2	240.6	251.9	255.5
57.5°	641.4	240.6	258.5	256.0	235.4	234.3	228.8	232.7	247.0	252.2
60°	639.0	219.2	232.1	230.2	217.0	222.2	220.9	222.8	227.7	229.4
62.5°	619.7	202.2	208.5	205.8	200.5	209.6	212.9	208.8	212.6	214.5
65°	570.8	188.5	185.4	183.5	185.7	193.9	200.5	192.3	195.9	201.4
67.5°	490.1	169.8	161.5	163.7	170.6	175.0	183.5	174.2	177.2	186.5
70°	396.4	146.1	138.7	145.0	151.6	160.7	162.1	155.8	162.9	173.3
72.5°	280.5	122.2	117.0	129.9	132.1	143.9	140.9	137.9	147.8	151.4
75°	194.5	98.6	95.6	105.5	113.5	123.6	121.4	125.0	145.9	147.5
77.5°	123.1	76.6	74.7	81.0	92.0	103.3	106.9	147.5	249.2	259.1
80°	71.4	57.1	54.9	59.9	69.5	79.9	103.0	181.0	164.3	162.4
82.5°	39.8	39.3	36.5	37.9	46.4	57.7	145.6	127.5	103.6	106.9
85°	18.7	23.1	19.8	19.0	26.1	67.6	97.2	72.8	48.3	47.2
87.5°	4.9	4.4	4.4	4.9	11.0	58.2	38.7	31.0	18.4	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)