

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: P939748

Luminaire Tested: **GALN-SB2C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10518 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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

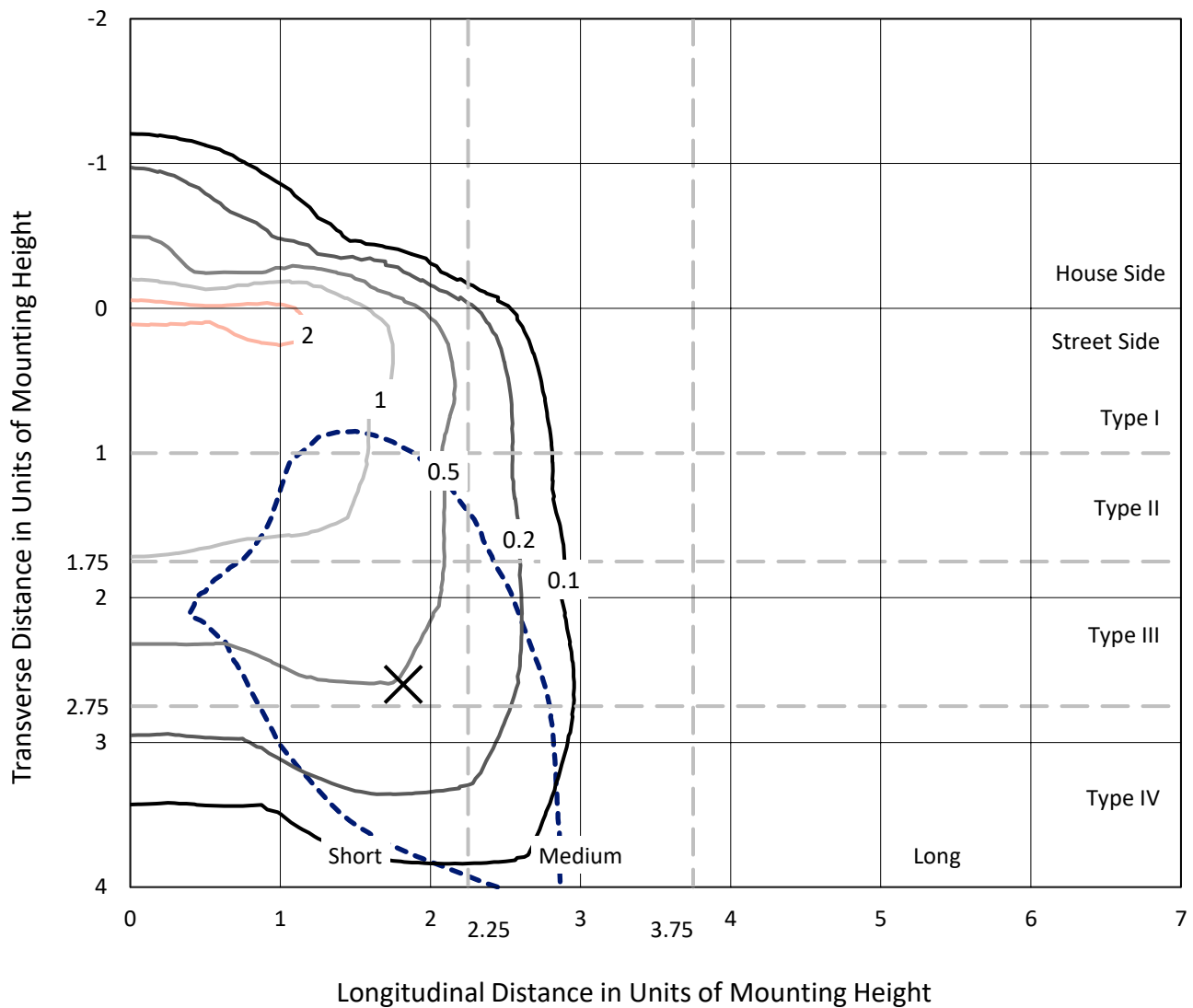


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Iso-Footcandle Lines of Horizontal Illumination

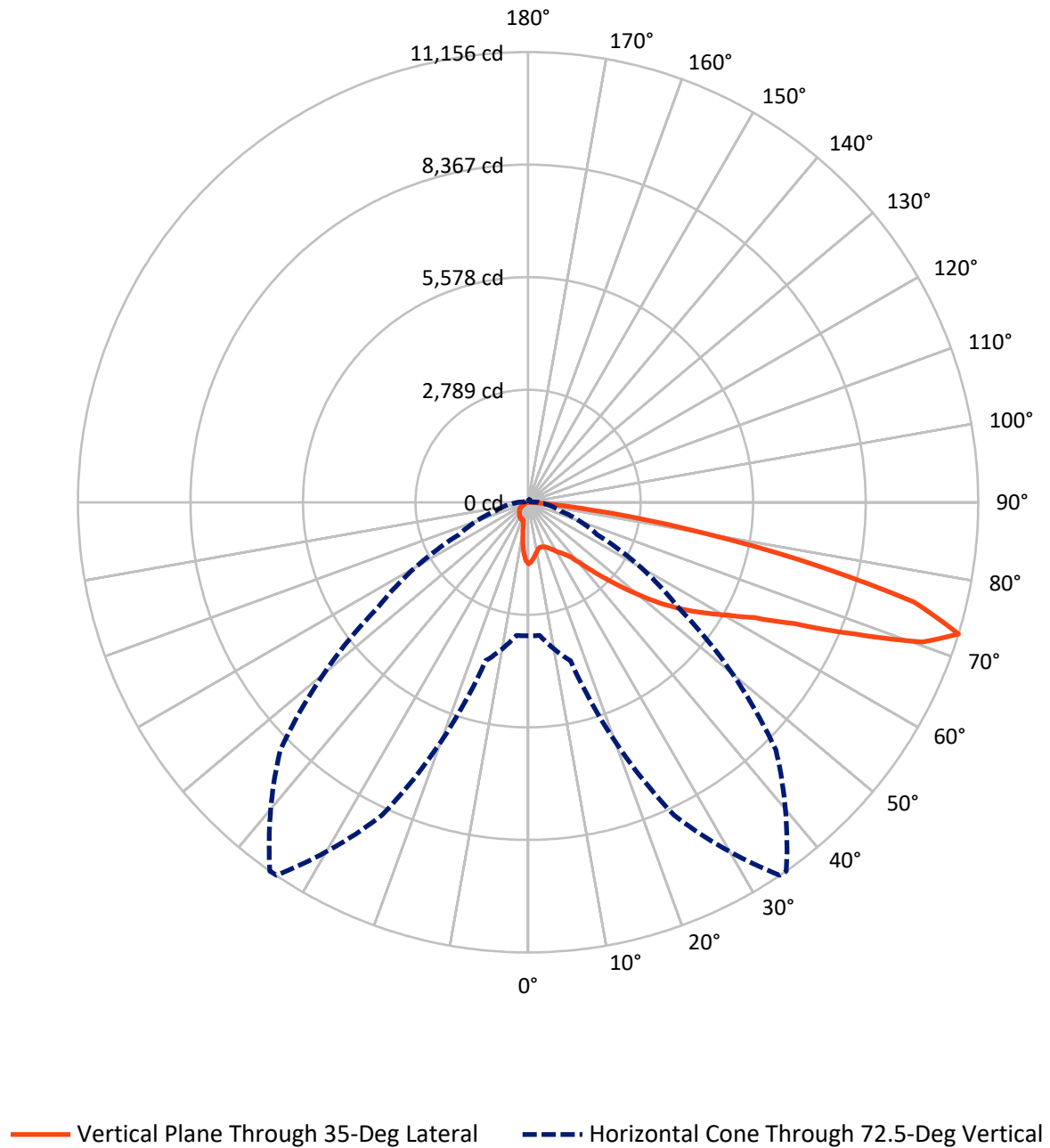
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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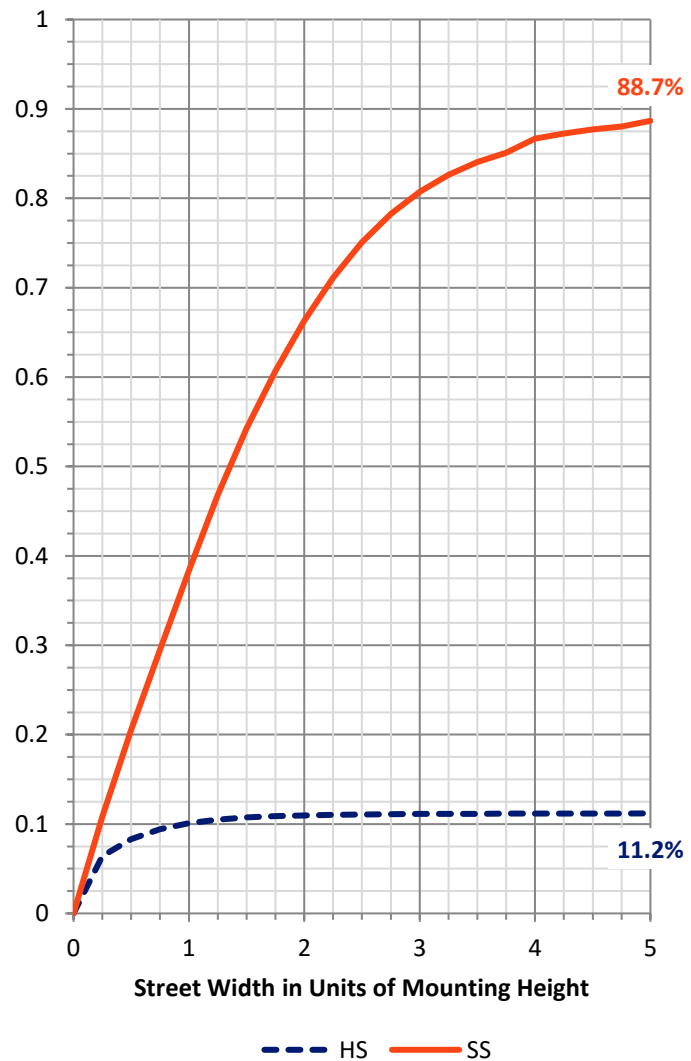
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1183.8	0.0	1183.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9334.2	0.0	9334.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	10518.0	0.0	10518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.2
10°-20°	293.0	2.8
20°-30°	476.0	4.5
30°-40°	794.3	7.6
40°-50°	1502.8	14.3
50°-60°	2387.9	22.7
60°-70°	2954.0	28.1
70°-80°	1836.2	17.5
80°-90°	148.4	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°	10518.0	100.0
0°-180°	10518.0	100.0

Coefficient of Utilization



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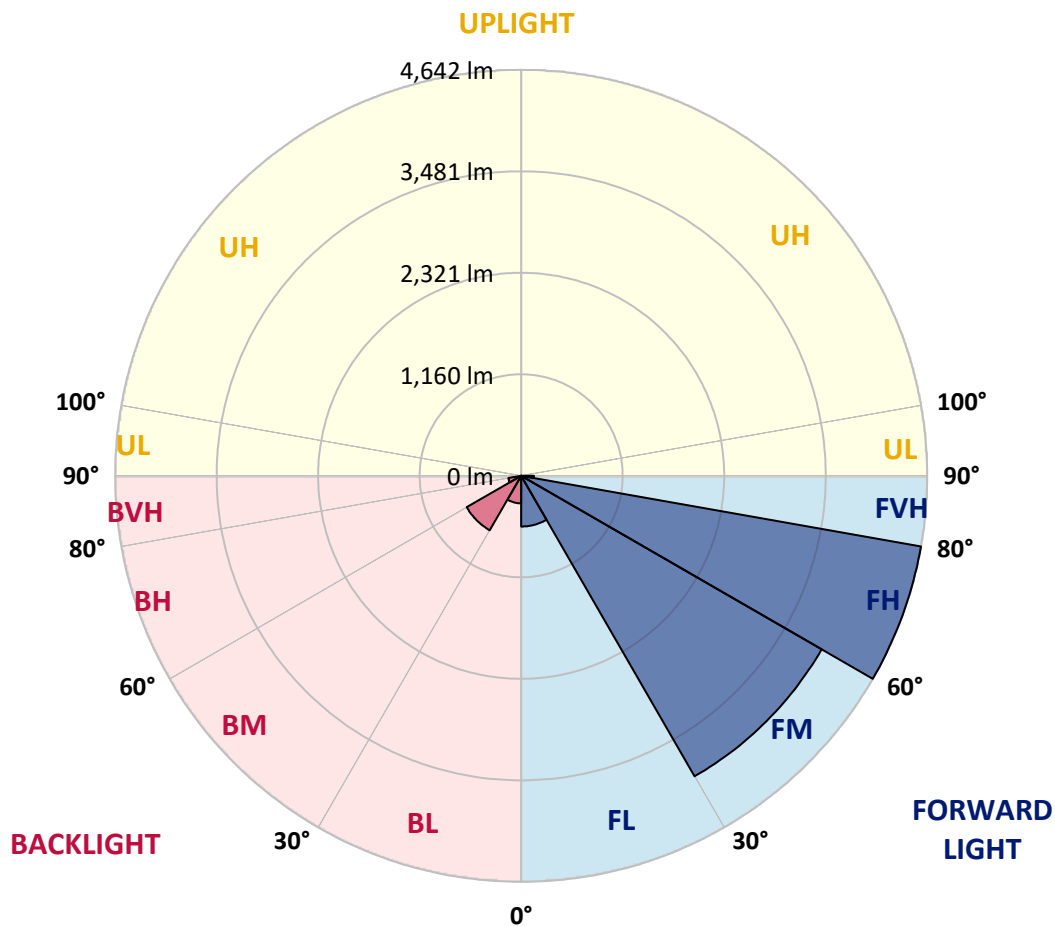
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	579.8	5.5			
FM	(30°-60°)	3966.3	37.7			
FH	(60°-80°)	4641.7	44.1			G2/5000
FVH	(80°-90°)	146.4	1.4			G2/225
BL	(0°-30°)	314.5	3.0	B1/500		
BM	(30°-60°)	718.6	6.8	B1/1000		
BH	(60°-80°)	148.5	1.4	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4
2.5°	1456.6	1468.9	1471.2	1475.1	1475.1	1479.7	1487.4	1498.2	1515.9	1525.2	1531.3
5°	1342.5	1351.8	1363.3	1372.6	1390.3	1392.6	1422.7	1452.0	1492.8	1523.6	1545.2
7.5°	1227.7	1238.5	1253.9	1276.3	1299.4	1306.3	1351.8	1401.1	1465.8	1523.6	1559.9
10°	1146.8	1147.5	1161.4	1183.8	1220.8	1229.2	1284.7	1354.9	1435.8	1514.4	1573.7
12.5°	1101.3	1106.7	1112.9	1129.8	1165.3	1170.7	1230.0	1312.5	1405.7	1509.0	1589.9
15°	1101.3	1105.2	1109.0	1117.5	1146.0	1150.6	1203.0	1285.5	1390.3	1511.3	1616.1
17.5°	1112.9	1119.0	1115.9	1126.0	1156.0	1159.1	1205.3	1277.8	1389.5	1526.0	1656.2
20°	1140.6	1145.2	1139.1	1145.2	1175.3	1181.5	1229.2	1292.4	1402.6	1551.4	1706.3
22.5°	1184.5	1186.9	1172.2	1176.8	1207.7	1215.4	1270.9	1334.1	1434.2	1592.2	1773.3
25°	1240.0	1244.7	1222.3	1227.7	1257.0	1266.2	1330.2	1396.5	1484.3	1648.5	1858.9
27.5°	1304.0	1306.3	1287.0	1286.3	1324.0	1337.1	1401.9	1473.5	1551.4	1719.4	1966.8
30°	1377.2	1384.1	1365.7	1362.6	1410.3	1421.1	1485.1	1568.3	1650.0	1825.7	2120.1
32.5°	1435.0	1440.4	1429.6	1437.3	1485.9	1494.4	1586.1	1702.4	1804.9	1976.8	2329.0
35°	1518.2	1521.3	1496.7	1510.5	1566.0	1587.6	1724.0	1890.5	1999.9	2166.4	2601.8
37.5°	1819.6	1819.6	1714.8	1646.2	1699.4	1718.6	1912.8	2127.1	2240.4	2420.7	2945.6
40°	2236.5	2229.6	2076.2	1936.0	1929.0	1966.8	2181.8	2425.3	2551.0	2725.9	3332.4
42.5°	2681.2	2670.4	2461.6	2322.8	2299.7	2312.8	2492.4	2793.0	2920.9	3098.1	3748.6
45°	3075.8	3072.7	2881.6	2695.1	2653.5	2695.1	2880.0	3223.0	3314.7	3501.2	4164.0
47.5°	3406.4	3406.4	3266.9	3145.2	3123.6	3148.2	3404.9	3700.0	3691.6	3930.5	4568.6
50°	3787.1	3784.1	3651.5	3599.1	3621.4	3656.1	4009.1	4202.5	4081.5	4352.0	4930.1
52.5°	4053.8	4072.3	4026.8	4018.3	4132.4	4192.5	4622.6	4694.2	4430.7	4752.0	5200.6
55°	4265.0	4286.5	4338.9	4398.3	4617.9	4696.5	5216.8	5160.5	4722.7	5098.8	5356.2
57.5°	4564.0	4533.2	4614.1	4731.2	5086.5	5181.3	5792.5	5600.6	4957.8	5380.1	5373.2
60°	4927.0	4931.6	4945.5	5093.4	5554.3	5676.1	6359.7	6016.7	5108.9	5552.8	5185.2
62.5°	5363.2	5370.1	5398.6	5626.0	6182.4	6297.3	6963.9	6357.4	5178.2	5504.2	4699.6
65°	5333.1	5362.4	5680.7	6458.3	7137.3	7250.6	7669.1	6596.3	5073.4	5060.3	3826.4
67.5°	4858.4	4906.2	5438.7	7452.5	8576.9	8703.3	8521.4	6643.3	4621.0	3935.1	2496.2
70°	4235.7	4252.6	4893.1	8346.5	10243.9	10371.9	9284.4	6126.2	3506.6	2194.9	1118.3
72.5°	3307.8	3311.6	4063.0	8553.8	11148.7	11155.6	8685.6	4547.8	1885.9	843.1	388.4
75°	2362.9	2339.8	2721.3	6936.9	9808.5	9887.1	6511.5	2133.3	720.6	398.4	193.4
77.5°	1267.0	1292.4	1539.8	4113.9	6775.8	6909.9	3552.8	615.0	366.8	271.3	127.9
80°	391.5	413.1	631.2	1883.5	3838.0	3918.9	1317.1	273.6	255.9	193.4	84.0
82.5°	123.3	127.9	294.4	791.5	1593.0	1630.0	381.5	154.9	174.9	127.9	49.3
85°	35.5	36.2	131.0	295.2	393.8	401.5	107.1	60.1	100.2	79.4	25.4
87.5°	3.9	12.3	49.3	49.3	34.7	33.9	11.6	13.1	28.5	10.0	4.6
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°	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4
2.5°	1527.5	1528.3	1518.2	1501.3	1482.8	1467.4	1448.1	1432.7	1421.9	1418.8	1424.2
5°	1538.3	1532.9	1504.4	1452.7	1391.1	1337.9	1278.6	1231.6	1200.7	1187.6	1192.2
7.5°	1554.5	1539.1	1476.6	1374.9	1257.0	1152.2	1045.8	963.4	910.9	884.7	888.6
10°	1568.3	1537.5	1430.4	1262.4	1082.0	923.3	779.9	680.5	625.0	598.8	599.6
12.5°	1581.4	1536.7	1370.3	1129.1	884.7	690.5	557.2	507.9	492.5	487.1	485.5
15°	1606.1	1539.1	1294.7	976.5	688.2	521.8	473.2	472.4	475.5	474.0	473.2
17.5°	1640.0	1541.4	1209.2	814.6	531.0	460.1	457.8	464.7	469.3	467.0	466.3
20°	1683.9	1550.6	1118.3	654.3	456.2	444.7	450.1	456.2	460.1	456.2	455.5
22.5°	1745.6	1566.8	1018.8	525.6	432.4	435.4	440.1	447.0	450.8	445.5	444.7
25°	1821.1	1592.2	921.0	457.0	420.8	424.6	431.6	439.3	443.9	438.5	437.7
27.5°	1919.0	1633.1	830.8	441.6	409.2	411.5	421.6	433.1	439.3	432.4	432.4
30°	2060.8	1700.1	753.0	448.5	402.3	396.9	410.8	427.0	433.9	427.7	427.0
32.5°	2248.9	1794.9	705.2	459.3	399.2	379.9	393.0	413.9	425.4	421.6	421.6
35°	2495.5	1939.0	686.7	471.7	396.9	362.2	371.5	393.8	413.9	417.7	417.7
37.5°	2794.5	2139.4	692.1	477.1	390.0	347.6	352.2	371.5	397.7	410.0	413.1
40°	3134.4	2372.9	722.9	471.7	382.3	335.2	336.0	350.7	373.8	392.3	398.4
42.5°	3485.0	2645.8	779.9	451.6	375.3	324.5	322.1	332.2	347.6	360.7	366.1
45°	3818.7	2926.3	836.2	423.9	366.8	313.7	308.3	312.1	315.2	320.6	323.7
47.5°	4110.1	3123.6	820.0	398.4	355.3	301.3	292.1	290.5	281.3	280.5	279.8
50°	4311.2	3166.7	728.3	373.0	338.3	287.5	272.8	263.6	247.4	239.7	240.5
52.5°	4375.2	2996.4	595.0	347.6	310.6	269.0	248.2	233.5	213.5	206.5	205.8
55°	4290.4	2662.7	475.5	316.8	272.1	244.3	221.2	201.9	185.7	177.3	177.3
57.5°	4083.1	2238.1	376.1	280.5	231.2	216.6	193.4	174.2	160.3	151.8	150.3
60°	3739.4	1777.2	297.5	237.4	197.3	186.5	162.6	150.3	138.0	127.9	125.6
62.5°	3217.6	1268.5	233.5	188.0	164.9	152.6	138.7	129.5	114.8	101.0	98.6
65°	2510.9	776.1	180.3	138.0	132.6	126.4	117.9	109.4	91.7	77.8	75.5
67.5°	1583.8	367.6	128.7	104.0	104.8	101.7	97.9	90.9	77.8	65.5	64.0
70°	697.5	178.0	84.8	79.4	77.8	77.8	80.9	78.6	66.3	54.7	52.4
72.5°	237.4	95.6	63.2	60.1	56.3	55.5	67.8	65.5	53.2	42.4	40.1
75°	124.1	64.0	46.2	43.2	33.9	40.8	53.9	50.9	37.8	27.7	25.4
77.5°	80.9	45.5	31.6	27.7	19.3	27.0	40.1	35.5	22.3	13.9	12.3
80°	50.9	30.1	18.5	13.1	9.2	14.6	21.6	15.4	8.5	3.1	2.3
82.5°	27.0	15.4	6.9	4.6	3.9	4.6	5.4	3.9	1.5	0.0	0.0
85°	10.8	5.4	2.3	1.5	0.8	0.0	1.5	0.8	0.0	0.0	0.0
87.5°	3.9	0.8	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

(END OF REPORT)