

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: P947726

Luminaire Tested: **GALN-SB3A-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9616 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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



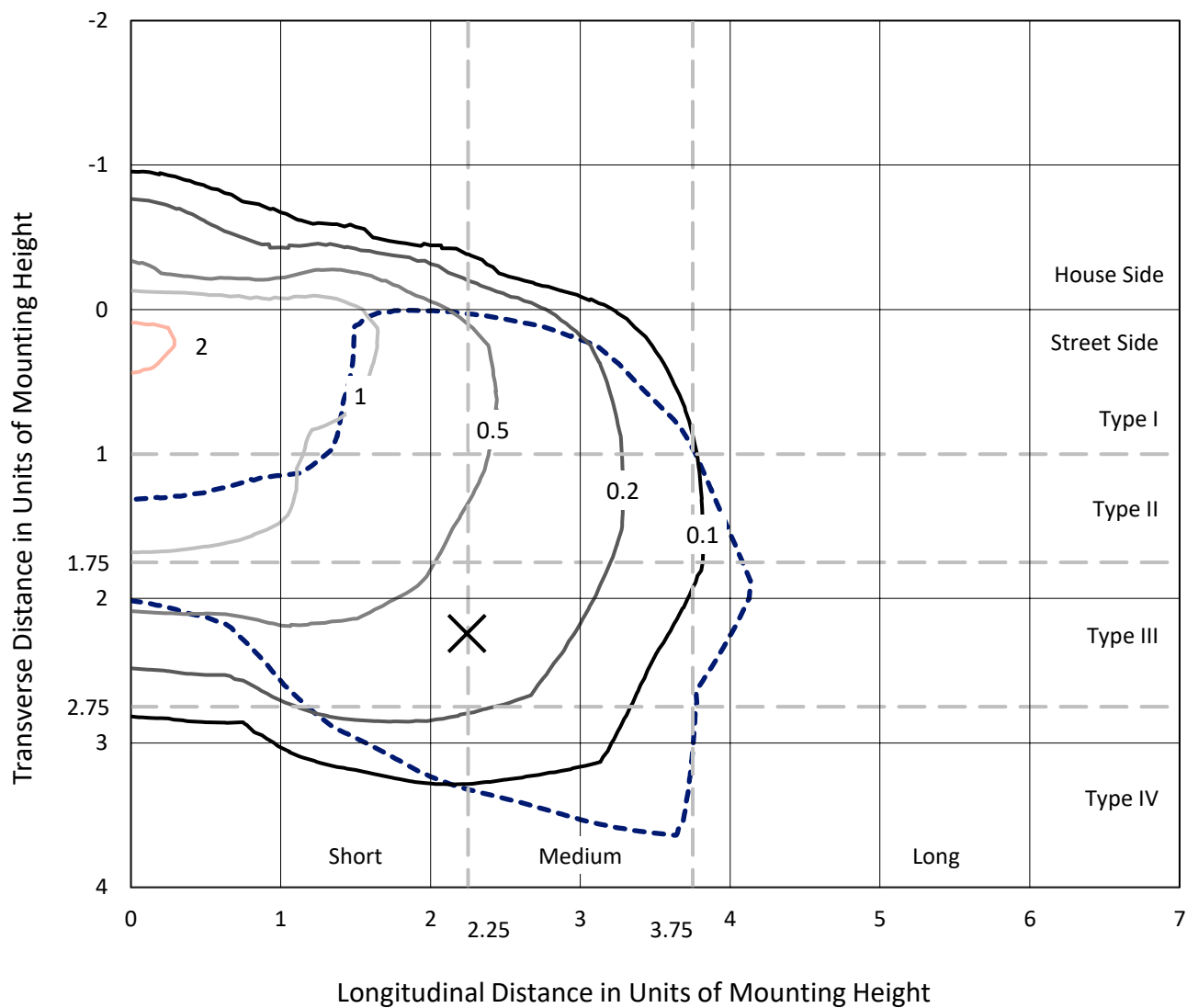
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

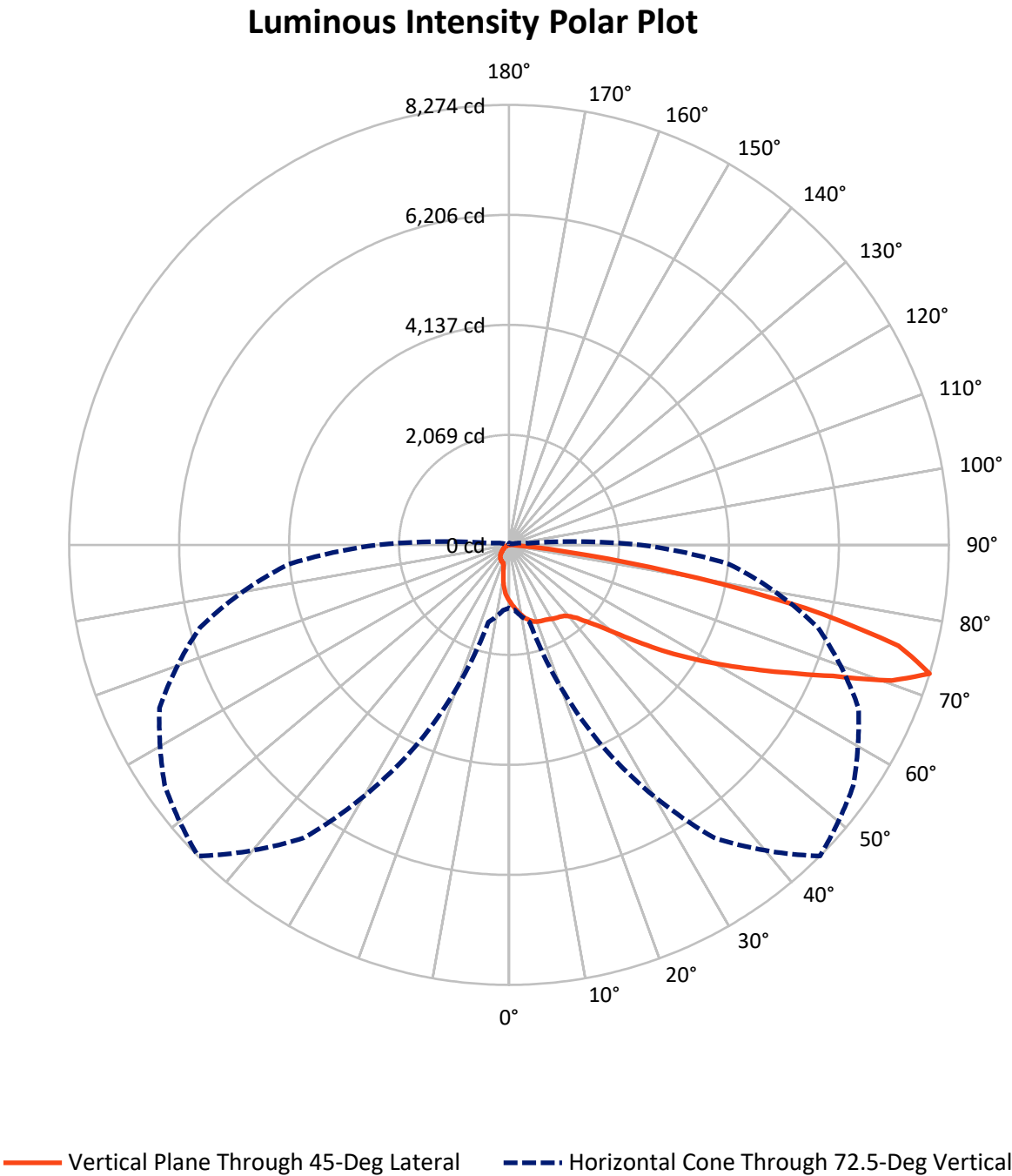
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type IV - Short - N/A

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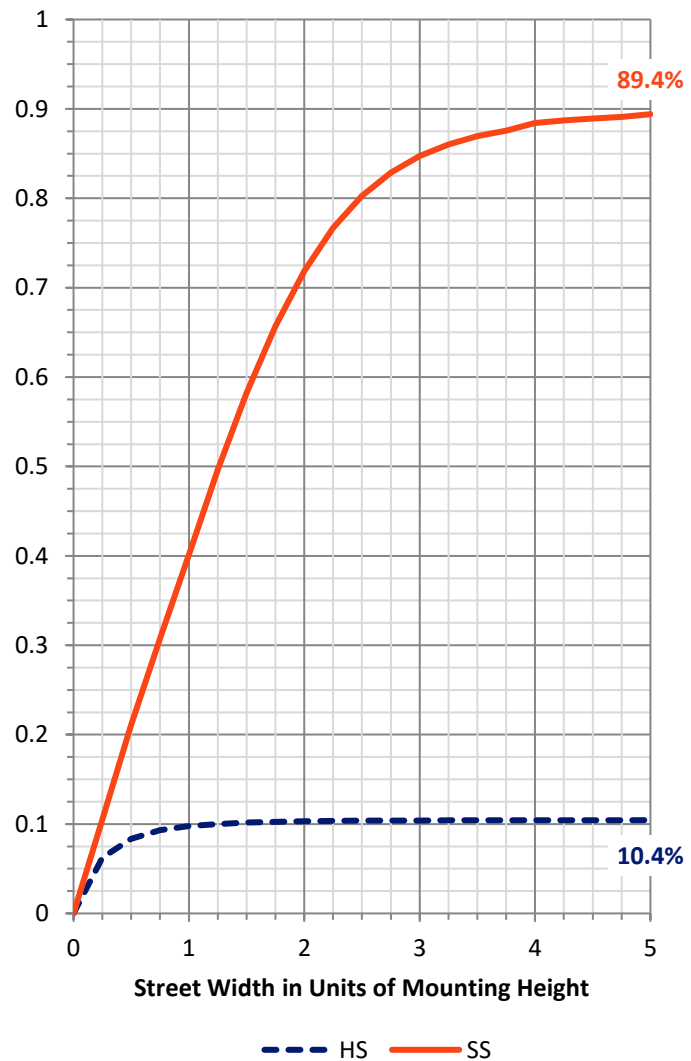
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1010.4	0.0	1010.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8605.6	0.0	8605.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	9616.0	0.0	9616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.0
10°-20°	290.1	3.0
20°-30°	476.4	5.0
30°-40°	675.6	7.0
40°-50°	1116.7	11.6
50°-60°	2006.0	20.9
60°-70°	2785.5	29.0
70°-80°	2020.5	21.0
80°-90°	146.1	1.5
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°	9616.0	100.0
0°-180°	9616.0	100.0

Coefficient of Utilization



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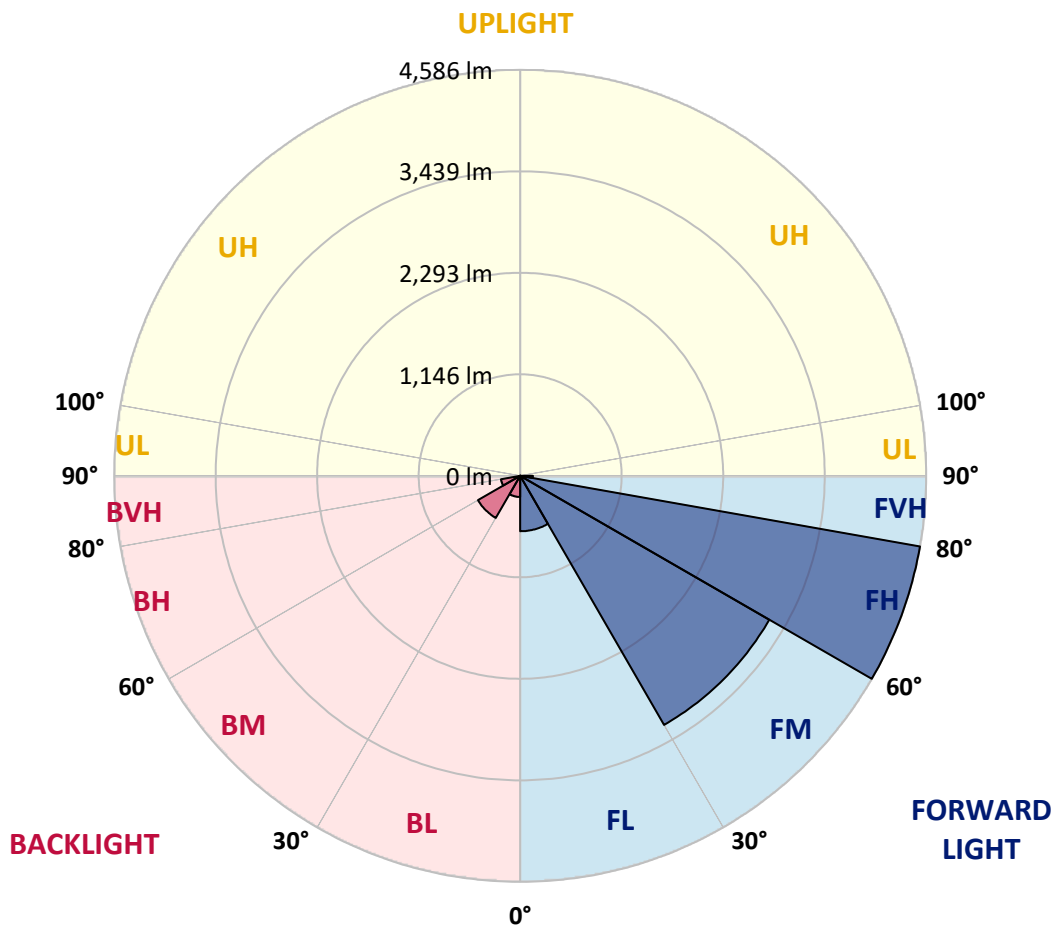
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.4	6.5			
FM	(30°-60°)	3248.8	33.8			
FH	(60°-80°)	4585.6	47.7			G2/5000
FVH	(80°-90°)	144.8	1.5			G2/225
BL	(0°-30°)	239.3	2.5	B1/500		
BM	(30°-60°)	549.5	5.7	B1/1000		
BH	(60°-80°)	220.3	2.3	B1/500		G1/500
BVH	(80°-90°)	1.2	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°	35°	45°	46°	55°	65°	75°	85°
0°	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5
2.5°	1150.6	1152.6	1151.3	1143.4	1130.2	1123.0	1119.1	1106.0	1097.4	1082.3	1066.6
5°	1256.3	1264.1	1259.5	1243.8	1218.9	1201.1	1195.9	1169.0	1144.7	1116.5	1083.6
7.5°	1368.5	1372.4	1363.9	1343.6	1310.1	1279.9	1275.3	1237.9	1199.2	1155.8	1111.2
10°	1465.6	1470.2	1457.1	1427.6	1389.5	1352.1	1345.5	1304.2	1258.2	1205.1	1148.0
12.5°	1547.0	1551.6	1534.6	1499.1	1457.1	1418.4	1411.8	1368.5	1318.0	1258.9	1188.0
15°	1608.7	1617.3	1594.3	1556.2	1510.9	1472.2	1468.9	1426.3	1377.0	1311.4	1235.9
17.5°	1644.8	1653.4	1631.7	1585.8	1547.0	1514.2	1510.3	1474.8	1428.9	1365.9	1282.5
20°	1650.7	1658.6	1635.6	1595.6	1563.4	1537.2	1535.2	1509.6	1476.1	1415.8	1333.1
22.5°	1633.0	1642.9	1621.9	1589.7	1567.4	1553.6	1551.0	1536.5	1517.5	1466.3	1380.3
25°	1614.6	1622.5	1606.8	1578.5	1566.7	1565.4	1567.4	1564.8	1560.8	1517.5	1435.5
27.5°	1613.3	1621.9	1604.1	1577.2	1570.7	1584.4	1586.4	1598.9	1602.2	1564.1	1488.6
30°	1624.5	1630.4	1613.3	1585.1	1581.8	1613.3	1614.0	1636.3	1641.5	1603.5	1541.1
32.5°	1648.8	1655.3	1638.3	1596.9	1592.3	1636.3	1638.3	1667.8	1676.3	1645.5	1596.3
35°	1705.9	1713.7	1694.1	1629.7	1613.3	1658.0	1663.9	1698.7	1715.7	1690.1	1653.4
37.5°	1848.3	1825.3	1798.4	1696.0	1661.2	1692.1	1701.9	1742.6	1772.8	1743.3	1721.6
40°	2202.1	2129.9	2045.9	1808.9	1745.3	1764.9	1772.8	1813.5	1854.9	1826.0	1815.5
42.5°	2733.1	2647.7	2512.5	2068.8	1871.9	1881.8	1887.7	1923.1	1981.5	1958.6	1961.2
45°	3206.3	3175.5	3037.6	2512.5	2108.9	2060.3	2067.5	2085.9	2171.9	2163.4	2180.4
47.5°	3569.9	3552.2	3445.9	3021.9	2509.3	2278.9	2299.2	2307.8	2431.8	2462.0	2507.9
50°	3849.5	3843.0	3747.8	3474.8	3032.4	2601.1	2608.4	2590.0	2775.7	2850.6	2937.9
52.5°	4113.4	4135.7	4065.5	3895.5	3590.9	3023.2	3021.9	2935.2	3186.0	3298.9	3447.8
55°	4351.6	4359.5	4366.7	4324.7	4152.8	3503.6	3491.2	3349.4	3661.8	3778.6	3940.1
57.5°	4575.5	4578.7	4643.1	4729.1	4737.6	4019.5	3996.6	3826.6	4181.7	4265.0	4364.1
60°	4725.8	4740.9	4876.7	5115.6	5220.0	4551.8	4539.4	4366.1	4710.7	4749.4	4731.0
62.5°	4509.2	4601.1	4943.7	5417.6	5675.5	5141.9	5136.0	4973.2	5267.3	5235.8	5078.2
65°	3650.0	3805.6	4408.1	5621.7	6122.5	5800.9	5809.4	5636.1	5839.0	5736.6	5360.5
67.5°	2553.2	2717.3	3430.1	5638.1	6622.0	6574.7	6624.0	6352.2	6446.1	6216.4	5427.4
70°	1765.6	1850.3	2314.3	5285.0	7011.2	7640.7	7639.3	7231.7	7049.9	6434.9	5086.1
72.5°	1187.4	1231.3	1503.1	4192.8	6725.0	8274.0	8236.0	7903.9	7253.4	6018.1	4155.4
75°	500.8	533.0	695.7	2356.3	5320.4	7569.8	7466.7	6985.0	6444.8	4738.9	2592.6
77.5°	158.8	172.6	274.4	843.4	2930.6	5690.0	5581.0	4362.1	4319.5	2377.3	947.8
80°	75.5	88.0	154.2	338.7	1153.2	3094.7	3079.6	1978.9	1858.1	641.9	190.3
82.5°	32.8	38.7	85.3	181.2	515.9	1104.0	1126.3	673.4	557.2	243.5	58.4
85°	10.5	13.8	39.4	83.4	217.9	274.4	271.1	160.2	224.5	132.6	20.3
87.5°	0.0	0.0	13.1	19.0	22.3	15.8	17.7	13.8	62.4	36.8	7.2
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°	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5
2.5°	1058.7	1048.2	1029.8	1012.8	997.7	982.6	973.4	960.3	958.9	958.9	962.2
5°	1065.9	1048.9	1016.0	981.3	941.2	903.1	865.1	828.3	816.5	808.0	811.9
7.5°	1086.9	1060.0	1008.2	941.9	865.7	782.4	724.0	661.0	636.7	623.5	625.5
10°	1117.1	1080.4	1001.6	885.4	762.0	648.5	565.1	496.9	470.6	459.5	459.5
12.5°	1150.6	1105.3	989.8	815.2	648.5	512.6	431.2	399.7	395.8	395.8	395.8
15°	1190.6	1135.5	969.4	732.5	529.7	405.6	376.7	378.1	382.0	384.6	384.6
17.5°	1232.0	1167.7	937.3	639.9	424.7	364.9	365.6	367.6	370.8	373.5	373.5
20°	1276.6	1199.8	894.6	541.5	364.3	353.1	355.1	357.1	359.7	361.0	361.7
22.5°	1324.5	1230.0	844.1	445.0	343.9	343.3	343.9	345.9	349.2	349.2	350.5
25°	1375.7	1263.5	786.3	374.8	333.4	333.4	334.7	336.1	338.7	338.7	339.3
27.5°	1428.2	1294.3	725.3	338.0	324.2	323.6	323.6	325.6	326.9	327.5	328.2
30°	1486.0	1330.4	664.2	330.1	317.0	313.7	311.8	313.1	314.4	315.1	316.4
32.5°	1545.1	1365.2	609.8	333.4	309.8	303.9	297.3	296.0	296.0	298.6	300.6
35°	1610.7	1403.3	567.7	344.6	305.9	289.5	279.0	273.0	273.7	277.6	279.6
37.5°	1689.5	1449.2	536.9	354.4	303.2	273.0	256.0	248.8	244.2	248.8	247.4
40°	1792.5	1516.8	514.6	362.3	300.0	254.0	231.0	219.2	210.7	213.3	212.0
42.5°	1944.1	1623.2	506.1	363.0	292.7	231.7	205.4	189.7	177.2	177.9	175.2
45°	2156.8	1791.2	550.0	354.4	277.0	207.4	178.5	157.5	149.6	147.7	145.1
47.5°	2448.2	2036.0	651.8	336.7	254.0	183.8	152.3	134.6	128.6	125.4	123.4
50°	2838.7	2350.4	764.7	317.0	231.0	161.5	130.6	119.5	115.5	112.2	111.6
52.5°	3291.6	2669.4	857.2	297.3	208.1	141.8	116.8	110.3	107.0	104.4	103.7
55°	3707.1	2889.3	852.0	276.3	185.7	126.0	107.0	103.0	99.1	96.5	95.2
57.5°	3965.7	2920.1	702.3	253.4	160.2	113.5	97.8	95.2	90.6	87.3	86.6
60°	4084.5	2744.2	492.3	223.2	134.6	101.7	88.0	86.6	80.7	76.1	74.8
62.5°	4106.2	2417.4	328.2	185.7	112.2	90.6	78.1	76.1	68.3	60.4	56.4
65°	4018.2	1950.0	227.1	145.1	95.8	78.8	66.9	63.0	54.5	46.6	44.0
67.5°	3739.9	1369.2	158.2	104.4	81.4	62.4	53.2	51.9	45.3	38.7	36.8
70°	3229.9	780.4	105.7	78.1	64.3	42.7	42.0	43.3	36.8	31.5	28.9
72.5°	2476.4	357.1	65.6	57.1	44.0	28.9	33.5	34.1	28.2	23.6	21.0
75°	1457.8	152.9	41.4	36.8	22.3	19.0	24.3	24.9	19.0	15.1	13.1
77.5°	496.2	57.8	26.3	21.7	11.2	10.5	15.8	15.8	10.5	5.9	4.6
80°	112.9	21.7	13.1	8.5	5.3	4.6	5.3	4.6	2.6	0.7	0.0
82.5°	32.2	8.5	5.3	3.3	2.0	2.0	0.7	0.0	0.0	0.0	0.0
85°	9.2	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.7	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)