

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: P940088

Luminaire Tested: **GALN-SB3A-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940088
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-SB3A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA 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: 9452 lumens
Efficiency: N/A
Efficacy: 111.6 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

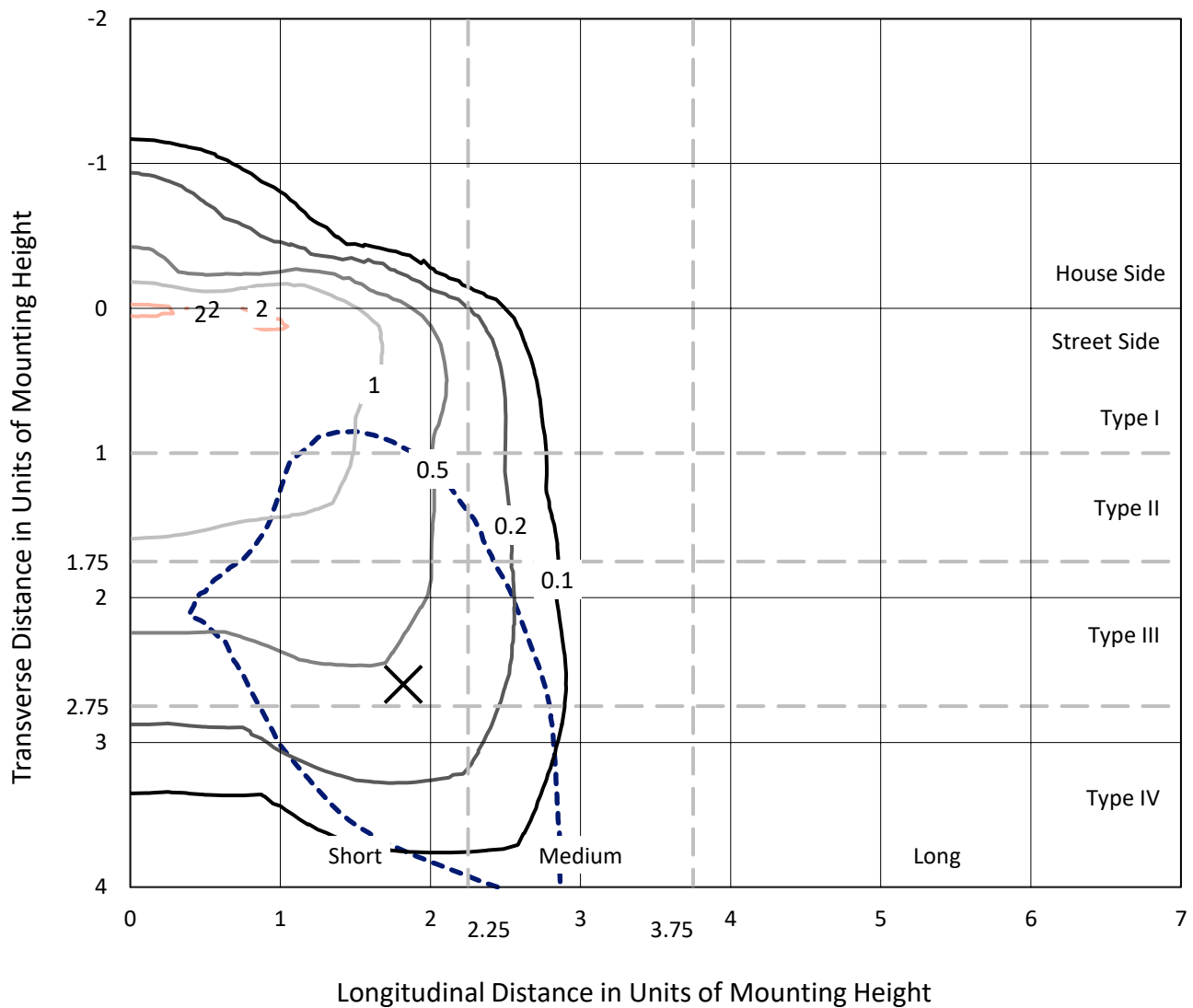


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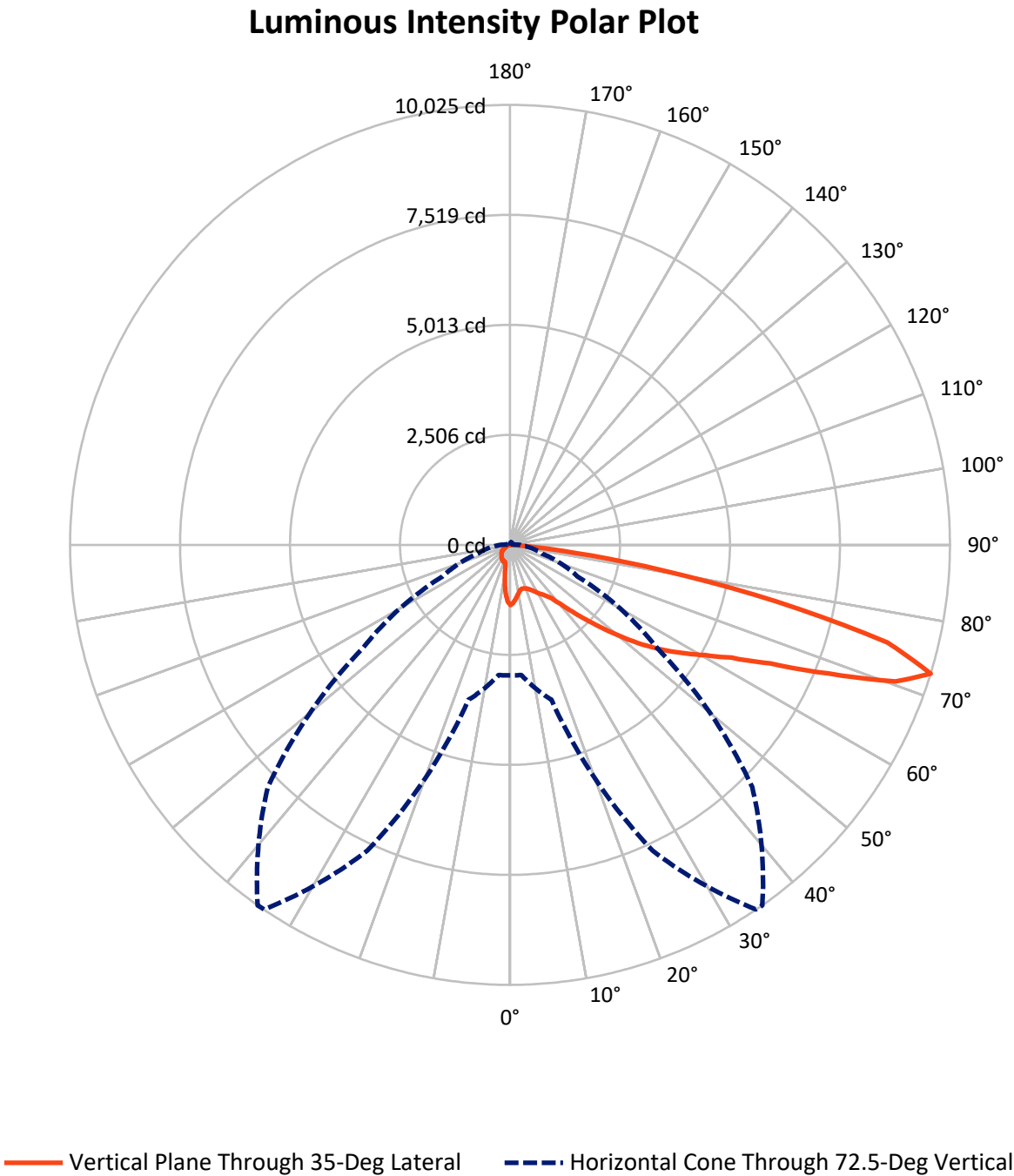
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

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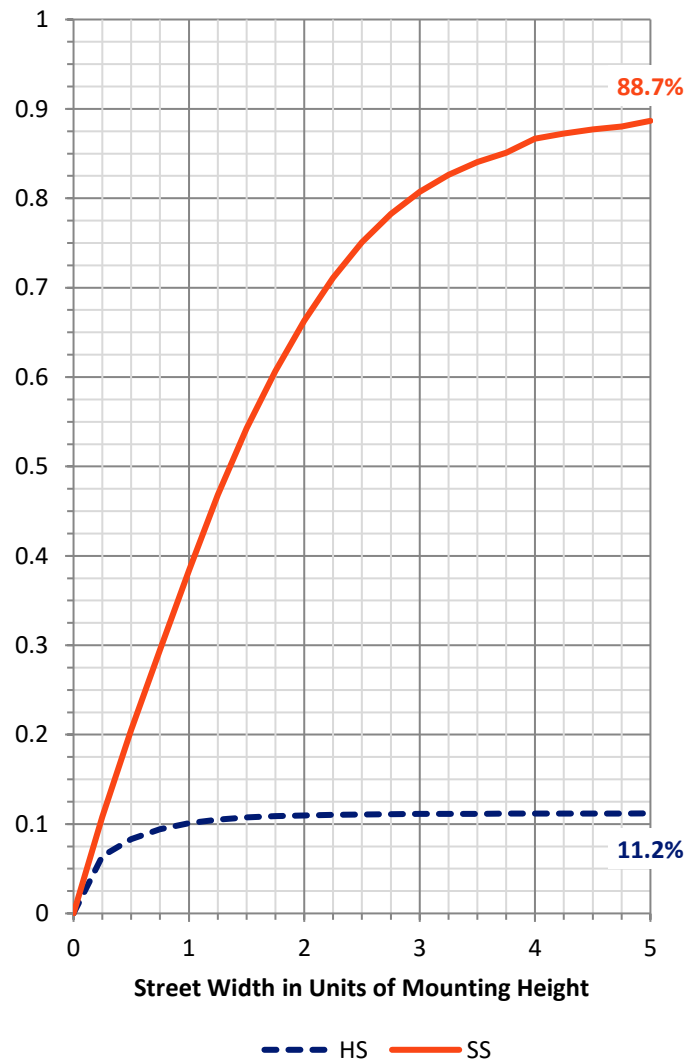
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1063.8	0.0	1063.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	8388.2	0.0	8388.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	9452.0	0.0	9452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	1.2
10°-20°	263.3	2.8
20°-30°	427.8	4.5
30°-40°	713.8	7.6
40°-50°	1350.5	14.3
50°-60°	2145.9	22.7
60°-70°	2654.6	28.1
70°-80°	1650.1	17.5
80°-90°	133.4	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°	9452.0	100.0
0°-180°	9452.0	100.0

Coefficient of Utilization



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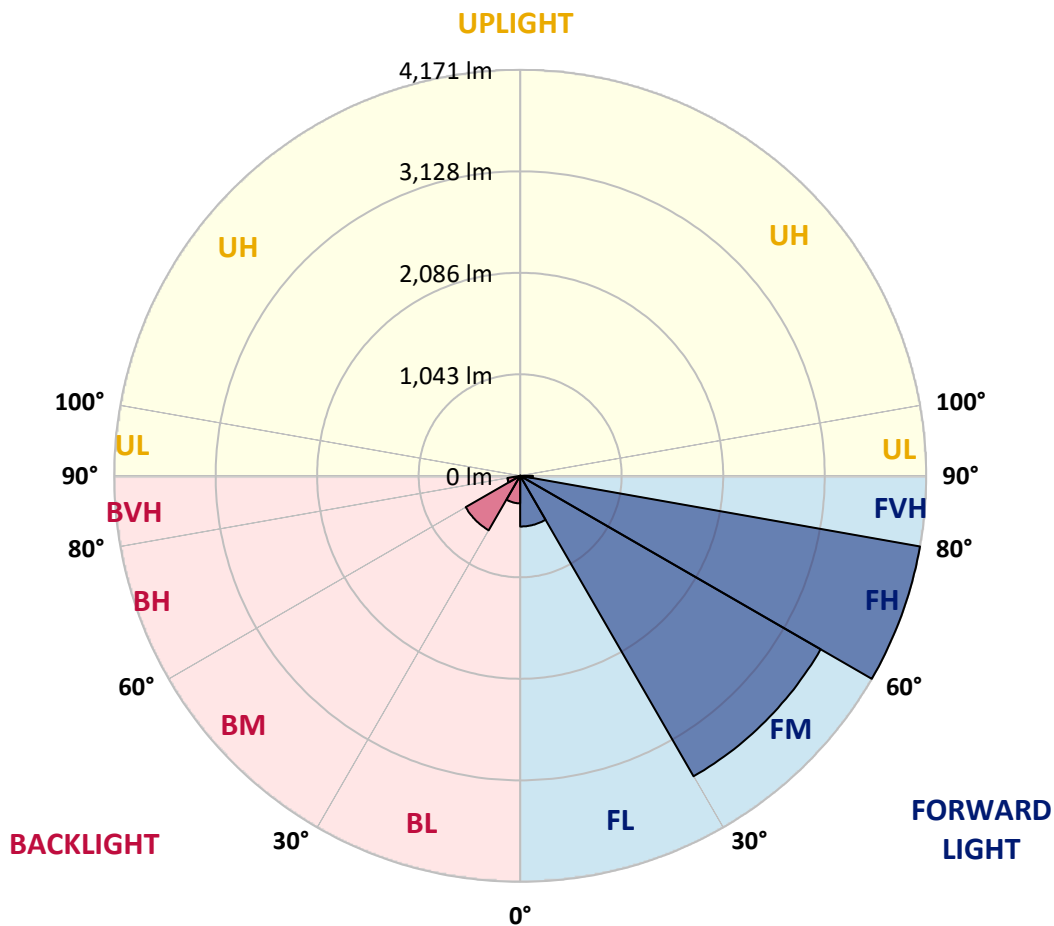
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.0	5.5			
FM	(30°-60°)	3564.3	37.7			
FH	(60°-80°)	4171.3	44.1			G2/5000
FVH	(80°-90°)	131.5	1.4			G2/225
BL	(0°-30°)	282.7	3.0	B1/500		
BM	(30°-60°)	645.8	6.8	B1/1000		
BH	(60°-80°)	133.5	1.4	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9
2.5°	1309.0	1320.0	1322.1	1325.6	1325.6	1329.7	1336.7	1346.4	1362.3	1370.6	1376.1
5°	1206.5	1214.8	1225.2	1233.5	1249.4	1251.5	1278.5	1304.8	1341.5	1369.2	1388.6
7.5°	1103.3	1113.0	1126.8	1146.9	1167.7	1173.9	1214.8	1259.1	1317.3	1369.2	1401.8
10°	1030.6	1031.2	1043.7	1063.8	1097.0	1104.7	1154.5	1217.5	1290.3	1360.9	1414.2
12.5°	989.7	994.5	1000.1	1015.3	1047.2	1052.0	1105.3	1179.5	1263.3	1356.1	1428.8
15°	989.7	993.2	996.6	1004.2	1029.9	1034.0	1081.1	1155.2	1249.4	1358.1	1452.3
17.5°	1000.1	1005.6	1002.8	1011.9	1038.9	1041.6	1083.2	1148.3	1248.7	1371.3	1488.3
20°	1025.0	1029.2	1023.6	1029.2	1056.2	1061.7	1104.7	1161.4	1260.5	1394.2	1533.4
22.5°	1064.5	1066.6	1053.4	1057.6	1085.3	1092.2	1142.1	1198.8	1288.9	1430.9	1593.6
25°	1114.4	1118.5	1098.4	1103.3	1129.6	1137.9	1195.4	1254.9	1333.9	1481.4	1670.5
27.5°	1171.8	1173.9	1156.6	1155.9	1189.8	1201.6	1259.8	1324.2	1394.2	1545.1	1767.4
30°	1237.6	1243.9	1227.2	1224.5	1267.4	1277.1	1334.6	1409.4	1482.8	1640.7	1905.3
32.5°	1289.6	1294.4	1284.7	1291.7	1335.3	1342.9	1425.3	1529.9	1622.0	1776.5	2093.0
35°	1364.4	1367.1	1345.0	1357.4	1407.3	1426.7	1549.3	1698.9	1797.2	1946.8	2338.1
37.5°	1635.2	1635.2	1541.0	1479.3	1527.1	1544.4	1719.0	1911.5	2013.3	2175.4	2647.0
40°	2009.9	2003.6	1865.8	1739.7	1733.5	1767.4	1960.7	2179.5	2292.4	2449.6	2994.7
42.5°	2409.5	2399.8	2212.1	2087.4	2066.6	2078.4	2239.8	2509.9	2624.9	2784.1	3368.7
45°	2764.1	2761.3	2589.5	2421.9	2384.5	2421.9	2588.1	2896.3	2978.8	3146.4	3742.0
47.5°	3061.2	3061.2	2935.8	2826.4	2807.0	2829.2	3059.8	3325.0	3317.4	3532.1	4105.6
50°	3403.3	3400.5	3281.4	3234.3	3254.4	3285.6	3602.8	3776.6	3667.9	3911.0	4430.4
52.5°	3642.9	3659.6	3618.7	3611.1	3713.6	3767.6	4154.1	4218.5	3981.6	4270.4	4673.5
55°	3832.7	3852.1	3899.2	3952.5	4149.9	4220.5	4688.0	4637.5	4244.1	4582.1	4813.4
57.5°	4101.4	4073.7	4146.4	4251.7	4571.0	4656.2	5205.4	5032.9	4455.3	4834.9	4828.6
60°	4427.6	4431.8	4444.2	4577.2	4991.4	5100.8	5715.1	5406.9	4591.1	4990.0	4659.6
62.5°	4819.6	4825.9	4851.5	5055.8	5555.8	5659.0	6258.1	5713.0	4653.4	4946.4	4223.3
65°	4792.6	4818.9	5105.0	5803.8	6413.9	6515.7	6891.8	5927.7	4559.2	4547.4	3438.6
67.5°	4366.0	4408.9	4887.5	6697.2	7707.7	7821.2	7657.8	5970.0	4152.7	3536.3	2243.2
70°	3806.4	3821.6	4397.2	7500.6	9205.7	9320.7	8343.4	5505.3	3151.2	1972.5	1004.9
72.5°	2972.5	2976.0	3651.3	7686.9	10018.8	10025.0	7805.3	4086.9	1694.7	757.7	349.1
75°	2123.4	2102.7	2445.5	6233.9	8814.4	8885.0	5851.6	1917.0	647.6	358.1	173.8
77.5°	1138.6	1161.4	1383.8	3697.0	6089.1	6209.6	3192.8	552.7	329.7	243.8	115.0
80°	351.8	371.2	567.2	1692.7	3449.0	3521.7	1183.6	245.9	229.9	173.8	75.5
82.5°	110.8	115.0	264.6	711.3	1431.6	1464.8	342.8	139.2	157.2	115.0	44.3
85°	31.9	32.6	117.7	265.3	353.9	360.8	96.3	54.0	90.0	71.3	22.9
87.5°	3.5	11.1	44.3	44.3	31.2	30.5	10.4	11.8	25.6	9.0	4.2
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°	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9	1369.9
2.5°	1372.7	1373.4	1364.4	1349.1	1332.5	1318.7	1301.3	1287.5	1277.8	1275.0	1279.9
5°	1382.4	1377.5	1351.9	1305.5	1250.1	1202.3	1149.0	1106.7	1079.0	1067.3	1071.4
7.5°	1396.9	1383.1	1327.0	1235.6	1129.6	1035.4	939.8	865.7	818.6	795.1	798.5
10°	1409.4	1381.7	1285.4	1134.4	972.4	829.7	700.9	611.5	561.7	538.1	538.8
12.5°	1421.2	1381.0	1231.4	1014.6	795.1	620.5	500.7	456.4	442.6	437.7	436.3
15°	1443.3	1383.1	1163.5	877.5	618.5	468.9	425.2	424.5	427.3	425.9	425.2
17.5°	1473.8	1385.1	1086.6	732.1	477.2	413.5	411.4	417.6	421.8	419.7	419.0
20°	1513.3	1393.5	1004.9	588.0	410.0	399.6	404.5	410.0	413.5	410.0	409.3
22.5°	1568.7	1408.0	915.6	472.3	388.5	391.3	395.5	401.7	405.2	400.3	399.6
25°	1636.6	1430.9	827.6	410.7	378.1	381.6	387.8	394.8	398.9	394.1	393.4
27.5°	1724.5	1467.6	746.6	396.8	367.8	369.8	378.8	389.2	394.8	388.5	388.5
30°	1851.9	1527.8	676.6	403.1	361.5	356.7	369.1	383.7	389.9	384.4	383.7
32.5°	2020.9	1613.0	633.7	412.8	358.8	341.4	353.2	371.9	382.3	378.8	378.8
35°	2242.6	1742.5	617.1	423.9	356.7	325.5	333.8	353.9	371.9	375.4	375.4
37.5°	2511.3	1922.6	621.9	428.7	350.4	312.4	316.5	333.8	357.4	368.4	371.2
40°	2816.7	2132.4	649.6	423.9	343.5	301.3	302.0	315.1	335.9	352.5	358.1
42.5°	3131.8	2377.6	700.9	405.8	337.3	291.6	289.5	298.5	312.4	324.1	329.0
45°	3431.7	2629.7	751.4	380.9	329.7	281.9	277.0	280.5	283.3	288.1	290.9
47.5°	3693.5	2807.0	736.9	358.1	319.3	270.8	262.5	261.1	252.8	252.1	251.4
50°	3874.3	2845.8	654.5	335.2	304.0	258.3	245.2	236.9	222.3	215.4	216.1
52.5°	3931.7	2692.7	534.7	312.4	279.1	241.7	223.0	209.8	191.8	185.6	184.9
55°	3855.6	2392.8	427.3	284.6	244.5	219.5	198.8	181.5	166.9	159.3	159.3
57.5°	3669.3	2011.2	338.0	252.1	207.8	194.6	173.8	156.5	144.1	136.4	135.1
60°	3360.4	1597.1	267.3	213.3	177.3	167.6	146.1	135.1	124.0	115.0	112.9
62.5°	2891.5	1140.0	209.8	169.0	148.2	137.1	124.7	116.4	103.2	90.7	88.6
65°	2256.4	697.4	162.1	124.0	119.1	113.6	106.0	98.3	82.4	69.9	67.9
67.5°	1423.2	330.4	115.7	93.5	94.2	91.4	88.0	81.7	69.9	58.9	57.5
70°	626.8	160.0	76.2	71.3	69.9	69.9	72.7	70.6	59.6	49.2	47.1
72.5°	213.3	85.9	56.8	54.0	50.6	49.9	60.9	58.9	47.8	38.1	36.0
75°	111.5	57.5	41.6	38.8	30.5	36.7	48.5	45.7	33.9	24.9	22.9
77.5°	72.7	40.9	28.4	24.9	17.3	24.2	36.0	31.9	20.1	12.5	11.1
80°	45.7	27.0	16.6	11.8	8.3	13.2	19.4	13.9	7.6	2.8	2.1
82.5°	24.2	13.9	6.2	4.2	3.5	4.2	4.8	3.5	1.4	0.0	0.0
85°	9.7	4.8	2.1	1.4	0.7	0.0	1.4	0.7	0.0	0.0	0.0
87.5°	3.5	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)