

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: P941274

Luminaire Tested: **GALN-SB4D-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27623 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 293.6
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



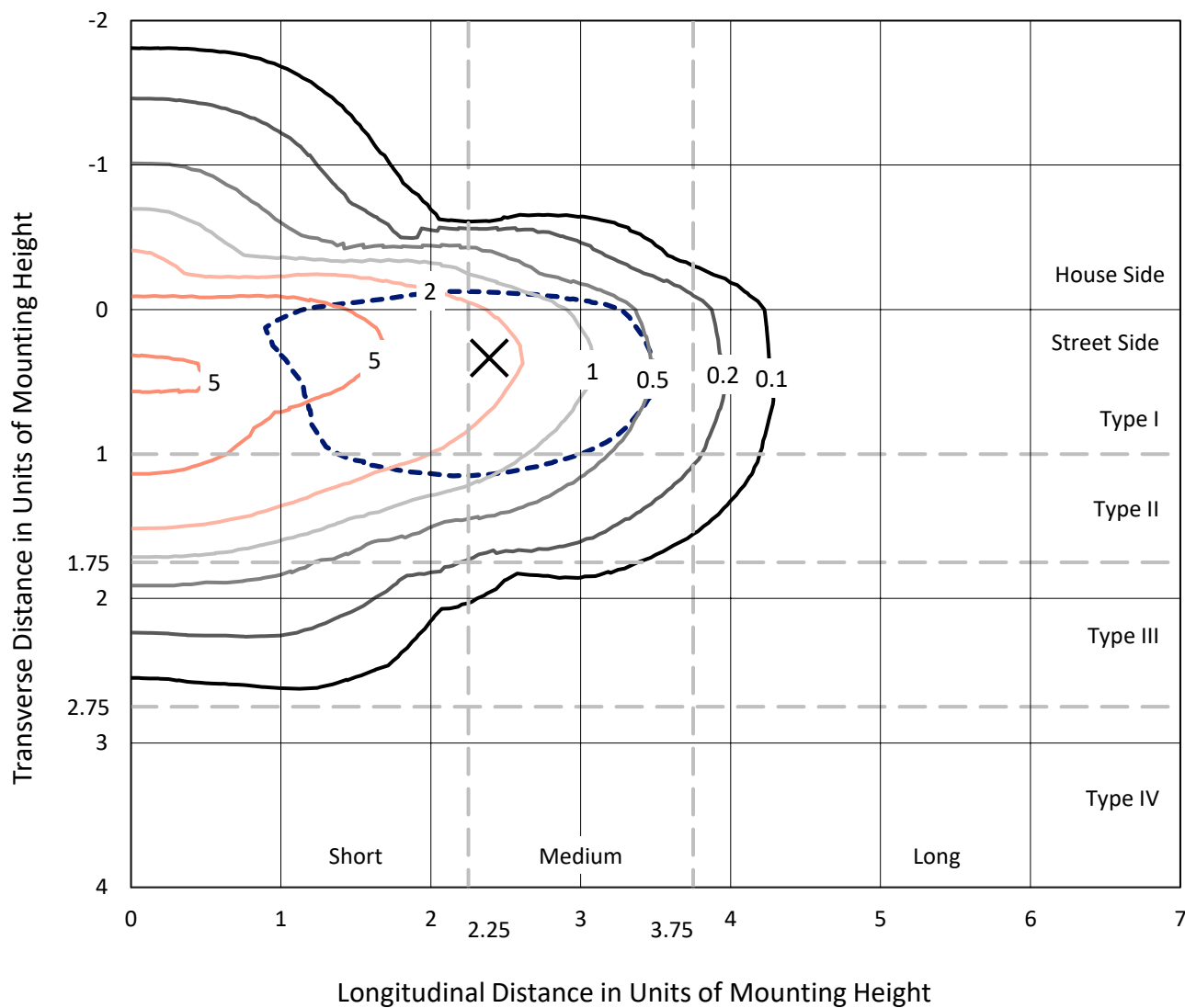
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Iso-Footcandle Lines of Horizontal Illumination

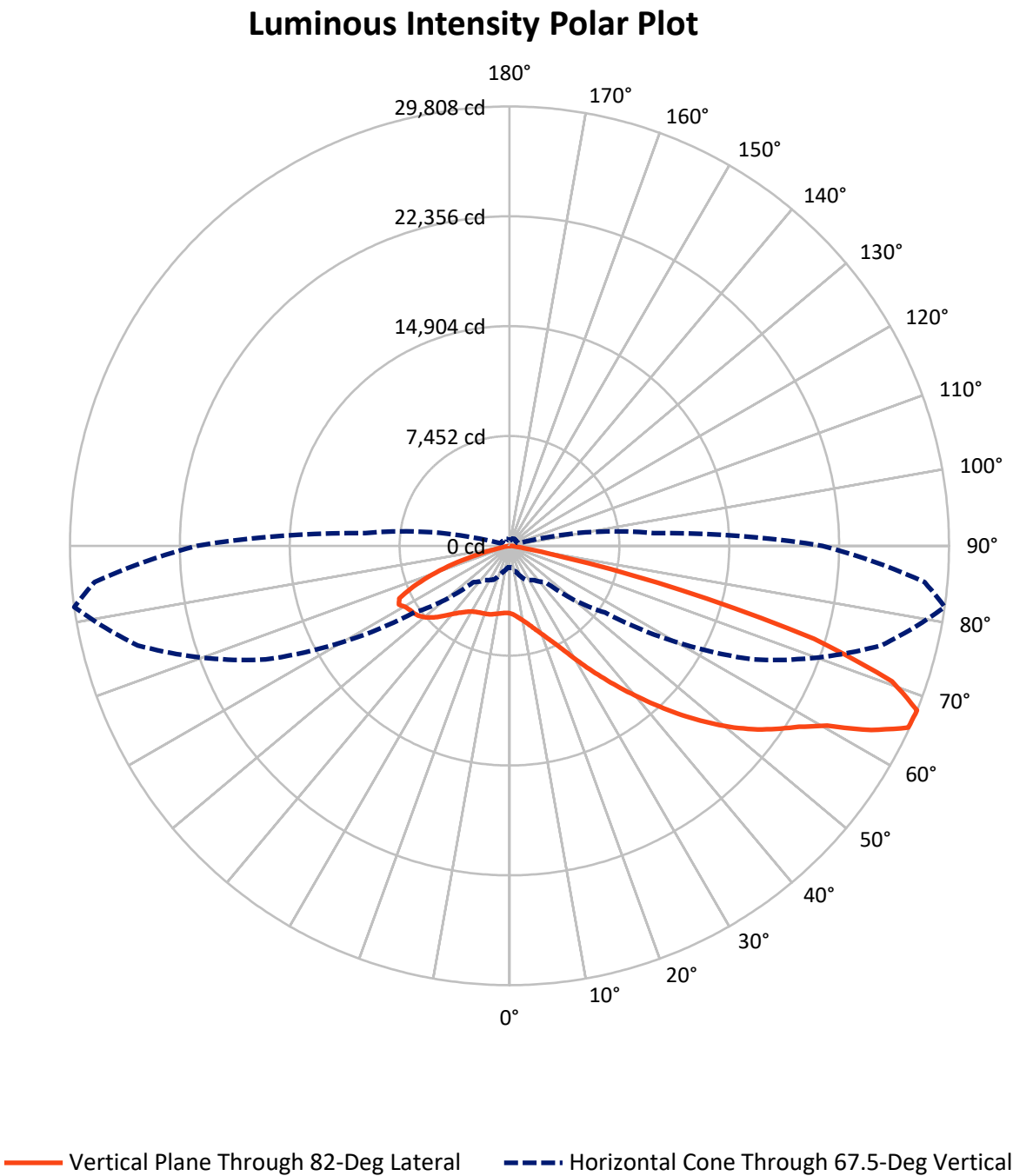
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Medium - N/A

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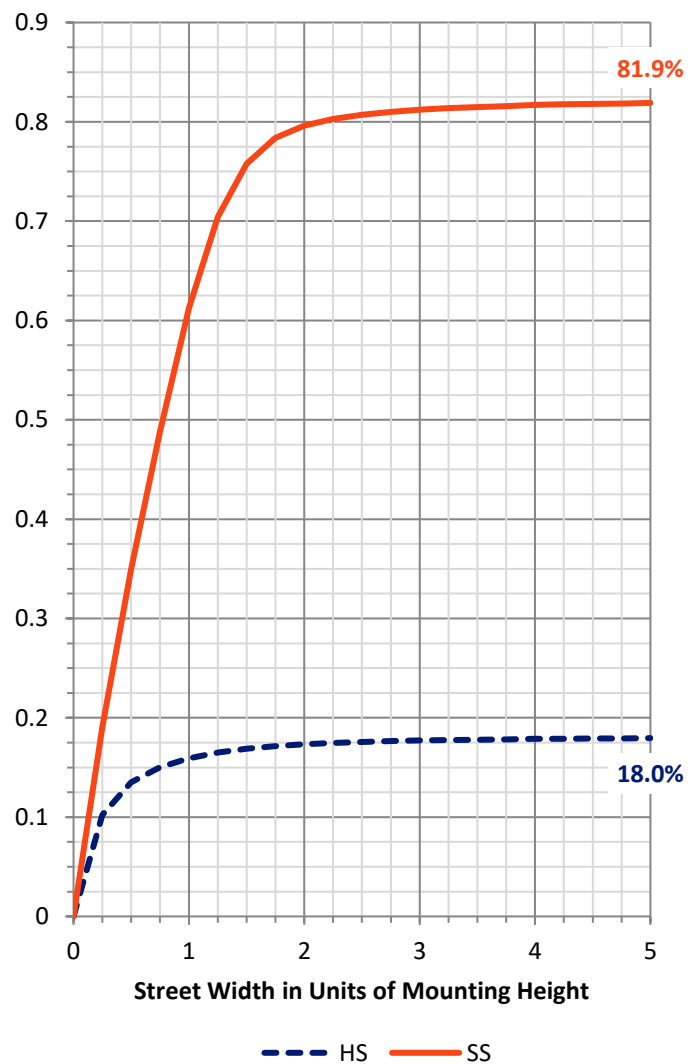
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5003.7	0.0	5003.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22619.3	0.0	22619.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	27623.0	0.0	27623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	1.5
10°-20°	1059.5	3.8
20°-30°	1696.9	6.1
30°-40°	3000.7	10.9
40°-50°	5257.5	19.0
50°-60°	7012.0	25.4
60°-70°	6527.8	23.6
70°-80°	2505.4	9.1
80°-90°	155.6	0.6
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°	27623.0	100.0
0°-180°	27623.0	100.0

Coefficient of Utilization



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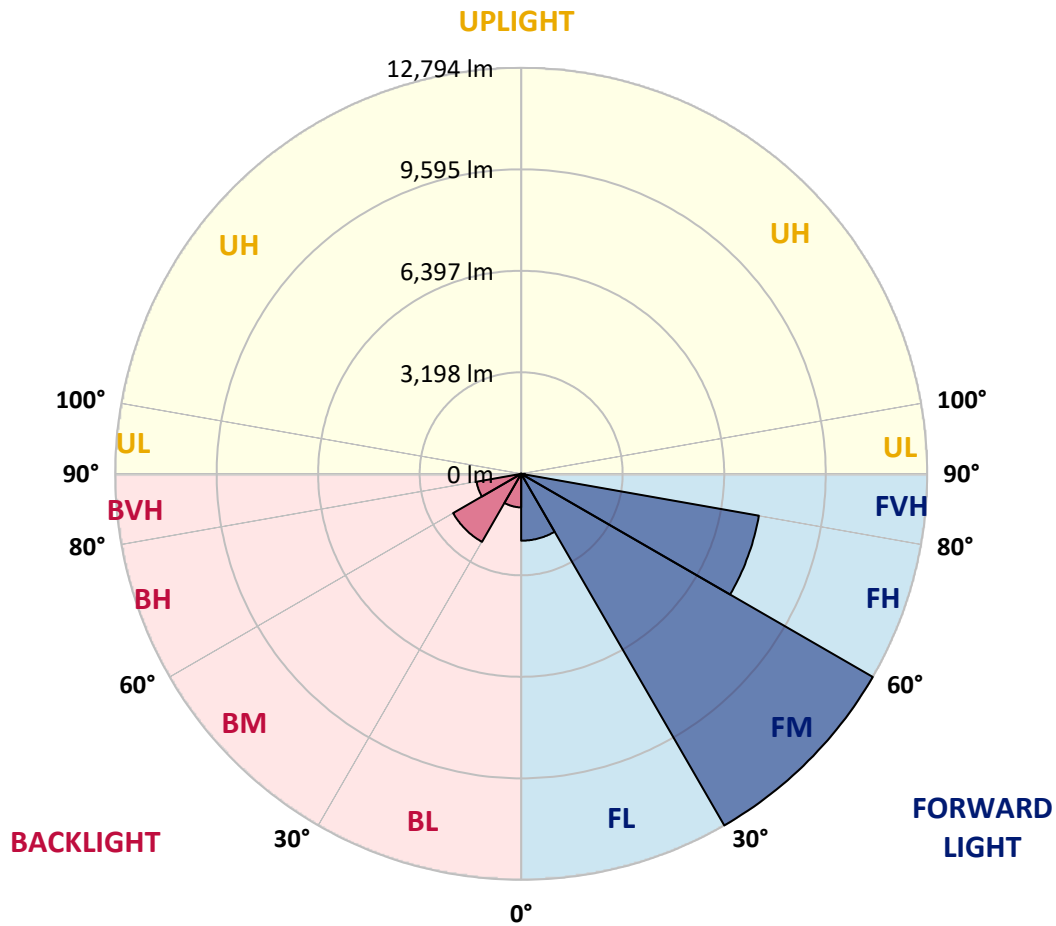
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2107.3	7.6			
FM	(30°-60°)	12793.8	46.3			
FH	(60°-80°)	7605.0	27.5			G4/12000
FVH	(80°-90°)	113.1	0.4			G2/225
BL	(0°-30°)	1056.8	3.8	B3/2500		
BM	(30°-60°)	2476.3	9.0	B2/2500		
BH	(60°-80°)	1428.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	42.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2
2.5°	4836.7	4864.6	4848.7	4840.7	4826.8	4806.9	4791.0	4741.3	4689.6	4655.7	4643.8
5°	4934.2	4962.0	4960.0	4968.0	4977.9	4983.9	4979.9	4924.2	4850.6	4793.0	4759.2
7.5°	4850.6	4882.5	4908.3	4948.1	5017.7	5091.3	5127.1	5115.2	5039.6	4960.0	4918.3
10°	4614.0	4647.8	4709.4	4802.9	4950.1	5109.2	5242.4	5304.1	5256.4	5168.9	5111.2
12.5°	4180.4	4214.2	4335.6	4538.4	4785.0	5061.5	5316.0	5481.1	5493.0	5405.5	5337.9
15°	3693.2	3727.0	3856.3	4110.8	4486.7	4930.2	5355.8	5668.0	5773.4	5697.9	5616.3
17.5°	3390.9	3420.7	3518.2	3723.0	4114.8	4667.7	5341.9	5866.9	6107.6	6047.9	5950.4
20°	3299.4	3325.2	3371.0	3514.2	3840.3	4395.2	5250.4	6053.9	6467.5	6433.7	6324.3
22.5°	3396.8	3420.7	3434.6	3498.3	3703.1	4216.2	5135.0	6244.8	6885.2	6889.2	6755.9
25°	3621.6	3645.4	3629.5	3669.3	3758.8	4160.5	5091.3	6469.5	7410.2	7454.0	7302.8
27.5°	3991.5	3993.5	3955.7	3953.7	3967.6	4244.1	5137.0	6710.2	8072.5	8154.0	7967.1
30°	4733.3	4703.5	4558.3	4401.2	4329.6	4494.7	5264.3	6994.6	8854.1	8999.3	8764.6
32.5°	5876.9	5833.1	5566.6	5190.7	4812.9	4898.4	5493.0	7318.7	9705.3	9967.8	9681.4
35°	7117.9	7105.9	6827.5	6268.7	5608.4	5473.1	5864.9	7744.3	10634.0	11051.7	10711.6
37.5°	8271.4	8265.4	8106.3	7448.0	6644.5	6274.6	6461.6	8301.2	11628.4	12233.0	11831.3
40°	9325.4	9343.3	9184.2	8595.5	7786.1	7302.8	7273.0	8989.3	12734.2	13519.8	13042.5
42.5°	10236.3	10256.2	10095.1	9659.5	8913.7	8440.4	8269.4	9832.6	13814.1	14902.0	14337.2
45°	10854.8	10978.1	10954.2	10606.2	10071.2	9580.0	9466.6	10890.6	15045.2	16367.7	15705.4
47.5°	11029.8	11143.2	11322.2	11369.9	11043.7	10560.5	10695.7	12165.4	16290.1	17835.4	17081.7
50°	10598.2	10703.6	11075.5	11570.8	11797.5	11648.3	11891.0	13531.7	17565.0	19299.2	18432.1
52.5°	9747.0	9854.4	10323.8	11107.4	12032.2	12501.5	13090.2	14878.1	18800.0	20685.4	19710.9
55°	8516.0	8629.3	9231.9	10118.9	11584.7	12853.5	14090.5	16222.5	19931.6	21932.3	20864.4
57.5°	6841.4	6925.0	7551.4	8792.4	10459.0	12503.5	14828.4	17690.3	20997.6	23157.4	22007.9
60°	4458.9	4532.4	5260.3	6644.5	8593.5	11334.1	14975.6	19327.0	22413.6	24750.4	23549.2
62.5°	2965.3	3015.0	3446.6	4462.8	6051.9	9088.8	14114.4	20633.7	24489.9	27522.8	26192.3
65°	2034.5	2084.2	2515.8	3223.8	3910.0	6012.1	11638.4	20460.6	26371.3	29724.4	28151.3
67.5°	1451.8	1493.6	1859.5	2527.7	2830.0	3492.3	7889.5	18249.1	26100.8	29807.9	28256.7
70°	1040.1	1064.0	1366.3	1968.9	2249.3	2098.2	4387.3	13957.3	22853.1	27524.8	26104.8
72.5°	727.9	735.9	948.7	1499.5	1811.8	1531.4	2088.2	9305.5	17284.5	21604.2	20237.9
75°	493.2	503.2	638.4	1099.8	1453.8	1169.4	1105.8	4989.9	10146.8	11958.6	10719.6
77.5°	302.3	306.3	411.7	751.8	1087.9	891.0	712.0	2114.1	3925.9	3854.3	3285.5
80°	171.0	171.0	262.5	467.4	741.8	574.8	499.2	898.9	1243.0	1091.8	962.6
82.5°	95.5	97.5	190.9	290.4	491.2	340.1	274.5	415.7	537.0	475.3	413.7
85°	39.8	43.8	117.3	137.2	234.7	169.0	111.4	175.0	198.9	177.0	129.3
87.5°	4.0	6.0	35.8	25.9	27.8	33.8	15.9	33.8	27.8	27.8	19.9
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°	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2	4576.2
2.5°	4606.0	4576.2	4500.6	4413.1	4297.8	4242.1	4166.5	4114.8	4071.0	4075.0	4035.2
5°	4695.5	4619.9	4450.9	4240.1	3977.6	3790.6	3591.7	3454.5	3343.1	3319.3	3265.6
7.5°	4818.8	4699.5	4403.2	4023.3	3579.8	3243.7	2943.4	2750.5	2613.3	2569.5	2525.8
10°	4977.9	4804.9	4341.5	3750.9	3112.4	2684.9	2362.7	2211.5	2118.1	2086.2	2062.4
12.5°	5162.9	4926.2	4260.0	3418.7	2631.2	2219.5	2014.6	1939.1	1909.2	1899.3	1893.3
15°	5395.6	5077.4	4136.7	3024.9	2223.5	1935.1	1847.6	1837.6	1841.6	1837.6	1835.6
17.5°	5672.0	5242.4	3935.8	2619.2	1949.0	1789.9	1758.1	1766.0	1776.0	1774.0	1770.0
20°	5974.3	5405.5	3679.3	2259.3	1762.1	1686.5	1668.6	1676.5	1684.5	1680.5	1678.5
22.5°	6318.4	5580.5	3394.9	1978.8	1636.8	1591.0	1571.1	1573.1	1573.1	1565.2	1561.2
25°	6730.1	5773.4	3096.5	1780.0	1541.3	1505.5	1481.6	1473.7	1461.8	1437.9	1433.9
27.5°	7221.3	5978.3	2810.2	1640.7	1465.7	1431.9	1404.1	1384.2	1354.4	1314.6	1310.6
30°	7774.2	6226.9	2567.5	1553.2	1406.1	1372.3	1340.4	1310.6	1266.9	1217.1	1213.2
32.5°	8424.5	6493.4	2390.5	1495.6	1352.4	1316.6	1278.8	1243.0	1195.3	1145.5	1147.5
35°	9200.1	6815.6	2287.1	1455.8	1310.6	1262.9	1221.1	1181.3	1145.5	1101.8	1097.8
37.5°	10041.4	7157.6	2255.3	1435.9	1282.8	1209.2	1161.5	1133.6	1129.6	1103.8	1101.8
40°	10962.2	7563.4	2279.1	1424.0	1252.9	1157.5	1105.8	1099.8	1109.7	1064.0	1066.0
42.5°	11936.7	8044.6	2318.9	1410.0	1211.2	1105.8	1056.0	1056.0	1048.1	984.4	984.4
45°	12990.7	8599.5	2358.7	1376.2	1161.5	1054.1	1016.3	1002.3	968.5	906.9	904.9
47.5°	14052.8	9164.3	2388.5	1314.6	1101.8	1010.3	976.5	944.7	895.0	839.3	837.3
50°	15061.1	9671.5	2356.7	1223.1	1034.2	968.5	932.7	889.0	835.3	797.5	791.5
52.5°	15962.0	10111.0	2221.5	1115.7	962.6	924.8	893.0	847.2	803.5	763.7	759.7
55°	16745.6	10467.0	1982.8	1014.3	898.9	887.0	855.2	797.5	737.8	704.0	700.1
57.5°	17497.3	10737.5	1684.5	930.8	841.3	845.2	797.5	745.8	690.1	654.3	650.3
60°	18497.7	11099.4	1382.2	853.2	779.6	791.5	739.8	702.0	632.4	586.7	580.7
62.5°	20096.7	11662.2	1097.8	757.7	708.0	712.0	690.1	644.4	560.8	507.1	503.2
65°	21365.5	11455.4	865.1	654.3	626.5	632.4	632.4	582.7	493.2	431.6	425.6
67.5°	21222.3	9808.7	690.1	552.9	548.9	552.9	566.8	525.0	437.5	387.8	379.9
70°	19549.8	7802.0	552.9	459.4	477.3	467.4	507.1	479.3	393.8	344.1	338.1
72.5°	15952.1	5620.3	421.6	379.9	365.9	381.8	457.4	431.6	328.1	272.5	266.5
75°	9321.4	2999.1	314.2	300.3	264.5	318.2	405.7	367.9	250.6	200.9	194.9
77.5°	3034.9	1046.1	230.7	220.8	196.9	256.6	346.0	310.3	204.8	159.1	153.1
80°	813.4	316.2	157.1	145.2	127.3	190.9	274.5	246.6	147.2	103.4	101.4
82.5°	326.2	133.2	91.5	81.5	69.6	131.3	216.8	198.9	109.4	65.6	65.6
85°	105.4	43.8	33.8	25.9	31.8	81.5	129.3	135.2	77.6	33.8	25.9
87.5°	13.9	6.0	6.0	8.0	6.0	13.9	39.8	37.8	21.9	4.0	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)