

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: P951626

Luminaire Tested: **GALN-SB5D-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35953 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 364.9
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



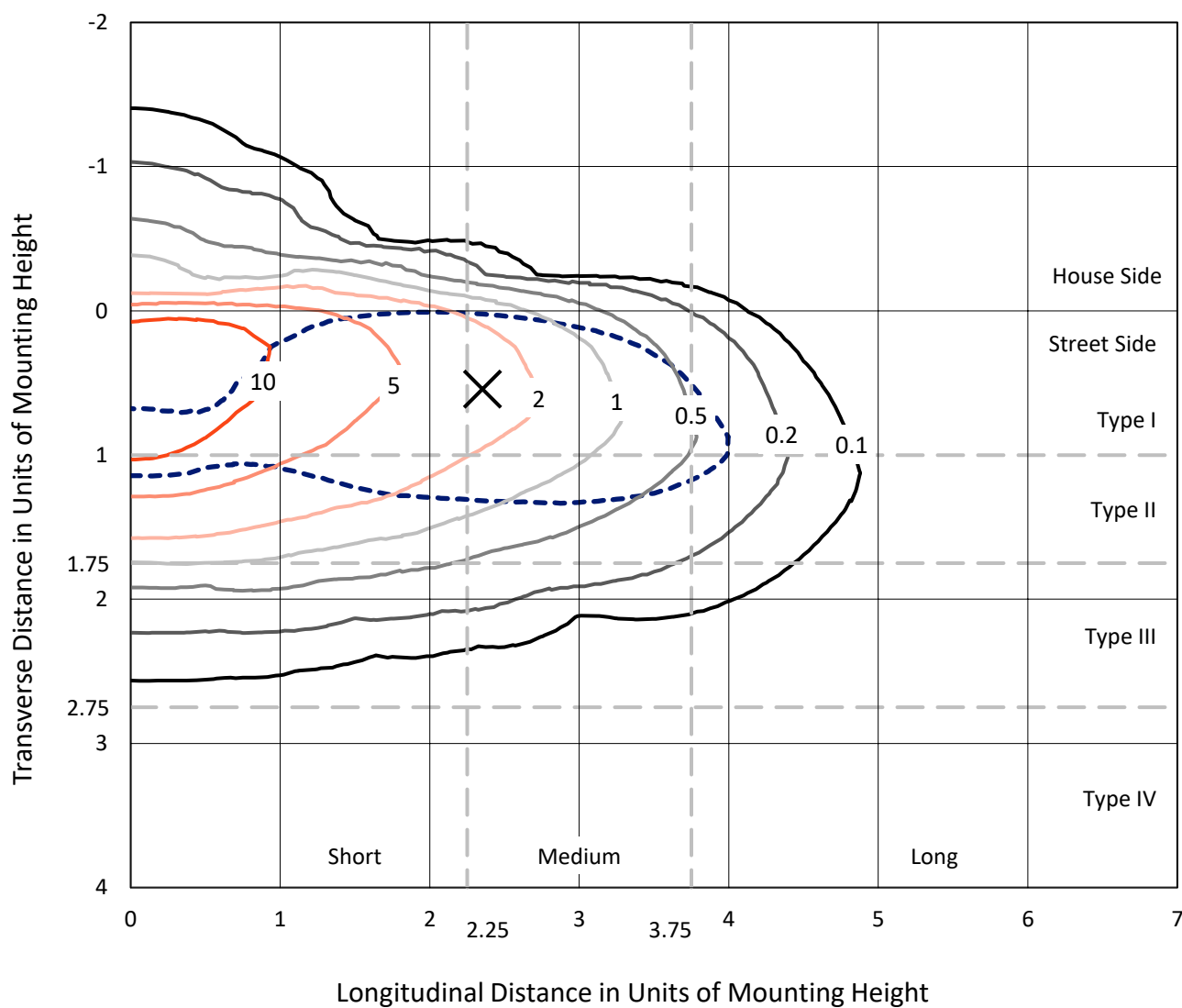
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Iso-Footcandle Lines of Horizontal Illumination

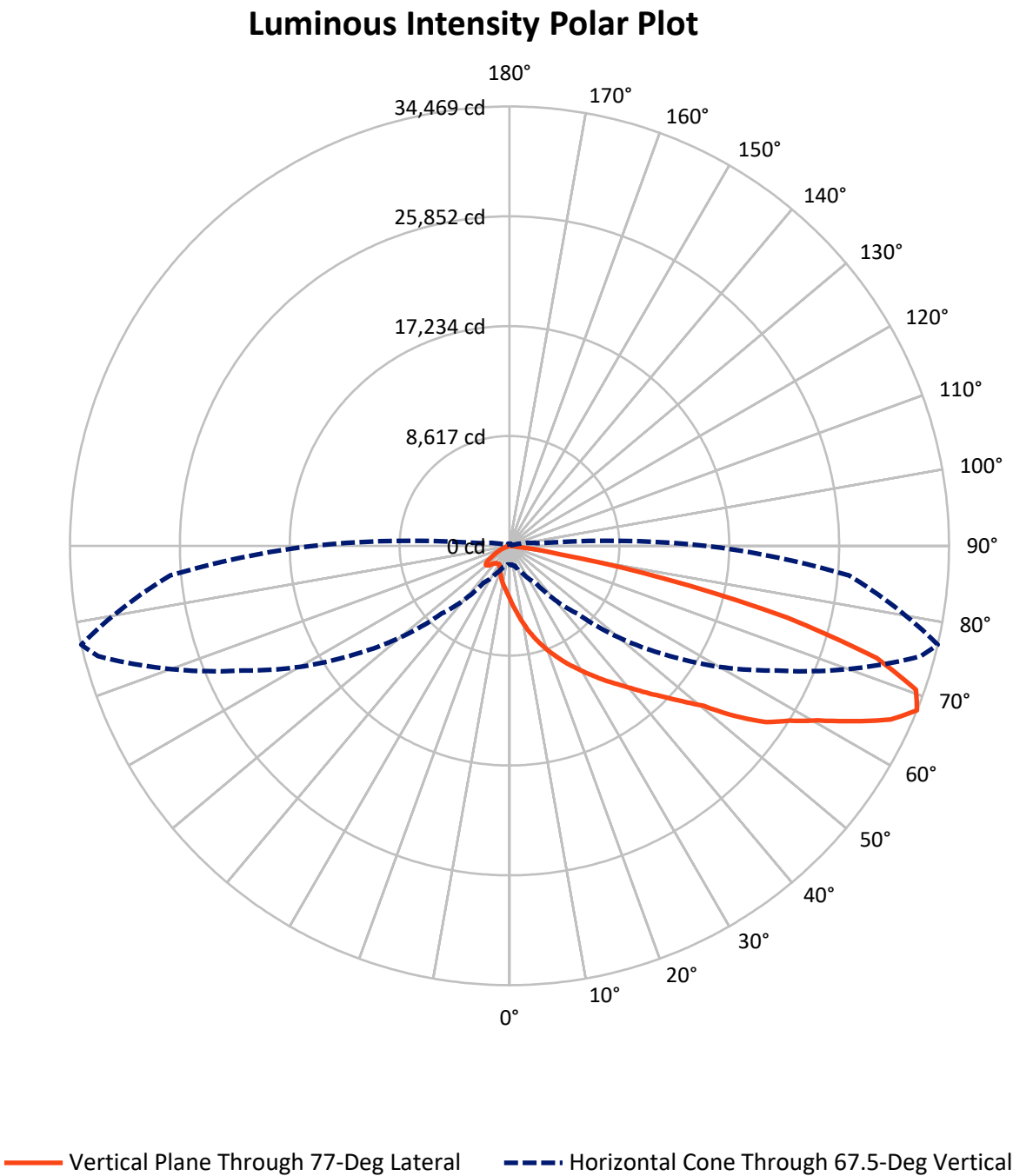
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Medium - N/A

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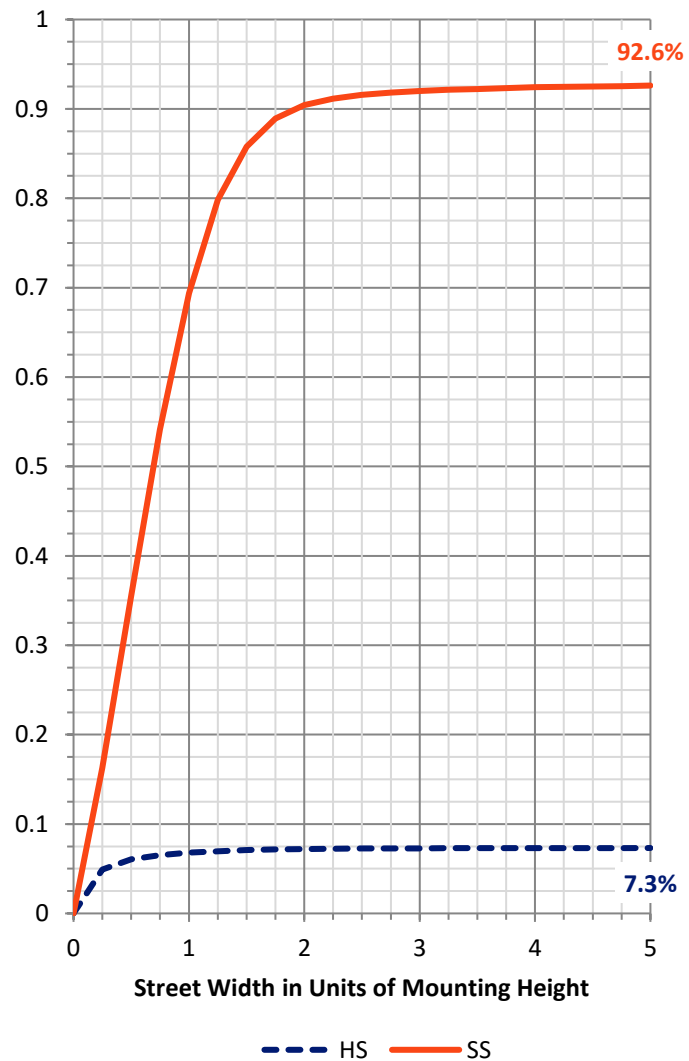
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2645.1	0.0	2645.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	33307.9	0.0	33307.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	35953.0	0.0	35953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.2	1.2
10°-20°	1481.8	4.1
20°-30°	2859.6	8.0
30°-40°	4964.4	13.8
40°-50°	7208.0	20.0
50°-60°	8277.5	23.0
60°-70°	7186.4	20.0
70°-80°	3384.9	9.4
80°-90°	167.4	0.5
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°	35953.0	100.0
0°-180°	35953.0	100.0

Coefficient of Utilization



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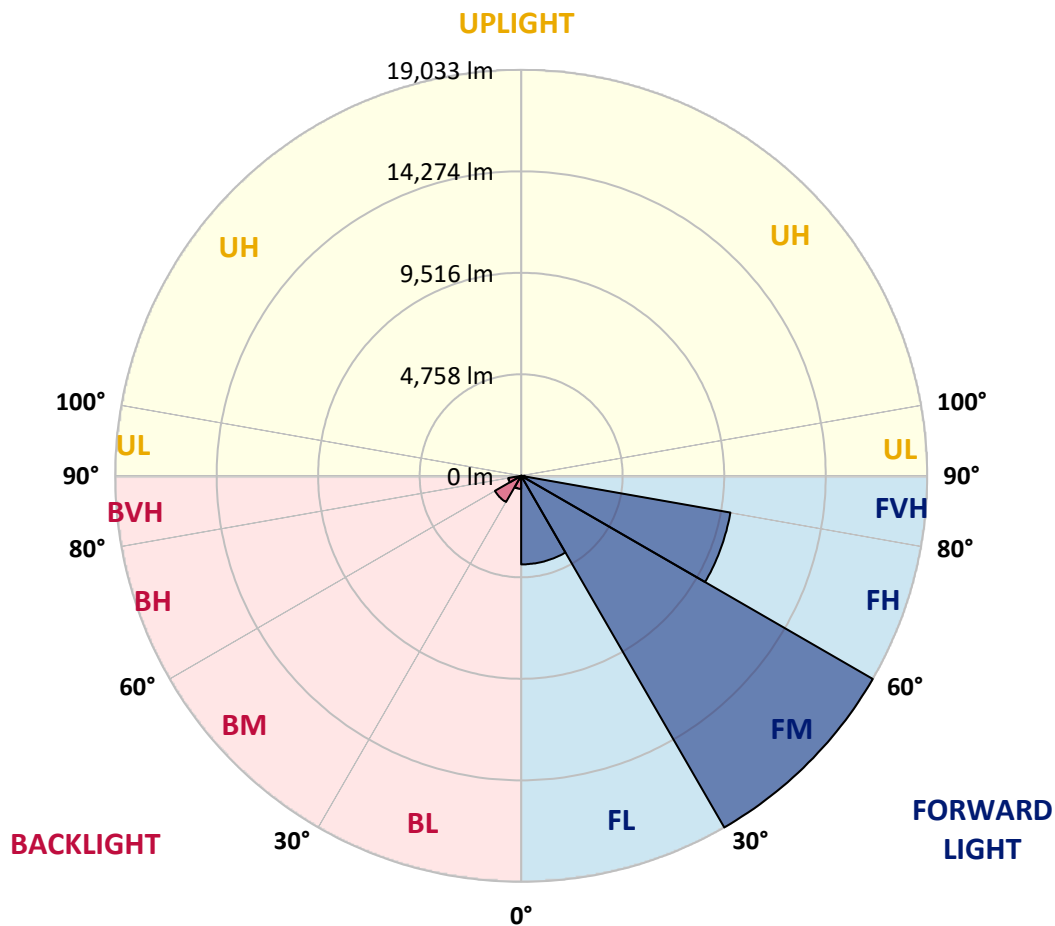
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4152.2	11.5			
FM	(30°-60°)	19032.5	52.9			
FH	(60°-80°)	9958.9	27.7			G4/12000
FVH	(80°-90°)	164.3	0.5			G2/225
BL	(0°-30°)	612.4	1.7	B2/1000		
BM	(30°-60°)	1417.3	3.9	B2/2500		
BH	(60°-80°)	612.4	1.7	B2/1000		G2/1000
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9
2.5°	5740.0	5775.7	5724.3	5626.1	5478.8	5382.8	5148.3	4927.3	4681.7	4603.6	4358.0
5°	6996.9	7028.2	6970.1	6863.0	6666.5	6479.0	6170.9	5708.7	5228.7	5074.7	4639.3
7.5°	7927.9	7945.8	7923.4	7825.2	7637.7	7425.6	7081.8	6534.8	5822.6	5652.9	4985.4
10°	8597.7	8655.7	8649.0	8611.1	8486.1	8314.1	7948.0	7325.1	6487.9	6269.1	5376.1
12.5°	9042.0	9106.7	9144.7	9229.5	9222.8	9113.4	8791.9	8133.3	7151.0	6894.2	5815.9
15°	9171.5	9240.7	9385.8	9582.3	9756.4	9812.2	9586.7	8925.9	7881.0	7552.8	6266.9
17.5°	9097.8	9204.9	9379.1	9689.4	10071.2	10323.5	10298.9	9691.6	8544.1	8169.0	6708.9
20°	9260.8	9363.5	9499.6	9760.9	10205.1	10662.8	10845.9	10423.9	9202.7	8809.8	7173.3
22.5°	10162.7	10144.9	10158.3	10200.7	10466.4	10919.6	11296.9	11089.2	9854.6	9452.8	7664.5
25°	11591.6	11511.2	11375.0	11145.1	11078.1	11296.9	11689.8	11678.6	10542.3	10111.4	8166.8
27.5°	13230.3	13216.9	12897.6	12344.0	12031.4	11946.6	12134.1	12252.4	11223.2	10763.3	8671.4
30°	14799.8	14835.5	14404.6	13788.4	13214.7	12882.0	12712.3	12797.2	11915.3	11466.6	9191.6
32.5°	16166.1	16204.1	15735.3	15014.1	14304.2	13902.3	13545.1	13335.2	12669.9	12181.0	9763.1
35°	17320.4	17358.3	16820.3	16023.3	15266.4	14902.5	14498.4	13924.6	13429.0	12973.5	10399.4
37.5°	18351.8	18340.7	17619.6	16815.8	16072.4	15784.4	15572.3	14650.2	14210.4	13770.6	11104.9
40°	18961.3	19008.2	18392.0	17505.7	16784.6	16574.7	16561.3	15550.0	15112.4	14685.9	11877.3
42.5°	19139.9	19222.6	18776.0	18048.2	17394.1	17166.3	17516.9	16523.4	16161.7	15746.4	12750.3
45°	18818.5	18898.8	18695.7	18191.1	17809.3	17662.0	18338.4	17532.5	17282.4	16871.6	13734.9
47.5°	17880.8	17981.2	18030.4	17923.2	17918.7	18068.3	19075.2	18595.2	18613.1	18193.3	14875.7
50°	16065.7	16235.4	16686.3	17065.9	17653.0	18389.8	19791.9	19747.2	20113.4	19751.7	16362.6
52.5°	12765.9	13007.0	14560.9	15599.1	16918.5	18329.5	20580.0	21595.8	22745.6	22216.4	18459.0
55°	10258.7	10258.7	11522.4	13464.7	15485.2	17932.1	20923.8	22796.9	24538.3	24413.3	19934.7
57.5°	8363.3	8463.7	9269.7	10986.5	13411.1	16985.5	21135.9	23551.5	25982.8	25891.3	21377.0
60°	5161.7	5378.3	6900.9	8595.5	11051.3	15299.9	21001.9	24315.1	27735.4	27809.1	23113.9
62.5°	2906.8	2987.2	3665.9	6184.3	8593.2	13033.8	19977.2	24741.5	29976.9	30289.5	24904.5
65°	2007.1	2047.3	2308.5	3849.0	5956.5	10377.1	17974.5	24475.8	32222.9	32854.7	26422.6
67.5°	1457.9	1478.0	1640.9	2350.9	3534.2	7523.8	14835.5	23136.3	33412.9	34468.9	26712.9
70°	1120.8	1134.2	1252.5	1544.9	2087.5	4643.8	10774.5	20472.8	32551.1	33812.5	25226.0
72.5°	910.9	924.3	1015.8	1143.1	1384.2	2746.1	6530.3	16626.1	28746.8	30108.6	21475.2
75°	768.0	785.9	868.5	951.1	1085.0	1763.7	3063.1	11578.2	21618.1	22511.1	14933.8
77.5°	426.4	392.9	705.5	788.1	915.4	1116.3	1433.3	6813.8	12107.3	12355.1	6626.3
80°	265.7	274.6	560.4	634.1	703.3	562.6	656.4	2623.3	4197.3	3987.4	1283.7
82.5°	15.6	35.7	430.9	457.7	482.2	241.1	247.8	890.8	1011.4	928.8	227.7
85°	0.0	0.0	196.5	158.5	167.4	69.2	71.4	207.6	136.2	147.4	44.7
87.5°	0.0	0.0	0.0	4.5	0.0	6.7	13.4	17.9	6.7	8.9	15.6
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°	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9	4145.9
2.5°	4201.7	4045.4	3728.4	3418.1	3165.8	2931.4	2763.9	2605.4	2525.1	2520.6	2516.1
5°	4329.0	4000.8	3366.7	2806.4	2355.4	1993.7	1759.3	1591.8	1507.0	1478.0	1473.5
7.5°	4507.6	4014.2	3049.7	2270.5	1739.2	1428.9	1294.9	1241.3	1223.5	1203.4	1198.9
10°	4733.1	4045.4	2766.2	1828.5	1370.8	1214.5	1160.9	1138.6	1125.2	1111.8	1107.4
12.5°	4985.4	4074.5	2484.9	1518.2	1205.6	1125.2	1087.3	1060.5	1042.6	1027.0	1022.5
15°	5230.9	4092.3	2192.4	1301.6	1120.8	1056.0	1015.8	986.8	962.2	944.4	942.2
17.5°	5474.3	4116.9	1917.8	1172.1	1051.5	986.8	946.6	910.9	890.8	870.7	868.5
20°	5744.4	4112.4	1658.8	1080.6	982.3	917.6	875.2	841.7	821.6	799.3	797.0
22.5°	5994.5	4090.1	1431.1	1002.4	910.9	848.4	801.5	768.0	747.9	730.1	727.8
25°	6282.5	4072.2	1241.3	931.0	843.9	781.4	730.1	698.8	676.5	660.8	658.6
27.5°	6559.3	4045.4	1102.9	866.2	779.2	718.9	669.8	634.1	614.0	602.8	602.8
30°	6831.7	4038.7	1051.5	803.7	721.1	660.8	611.7	578.2	562.6	558.1	555.9
32.5°	7159.9	4056.6	1073.9	781.4	667.5	607.3	560.4	535.8	520.2	520.2	520.2
35°	7510.4	4052.1	1107.4	801.5	631.8	553.7	518.0	502.3	486.7	486.7	486.7
37.5°	7950.2	4058.8	1134.2	835.0	618.4	509.0	488.9	468.8	459.9	459.9	459.9
40°	8606.6	4279.9	1120.8	864.0	614.0	477.8	437.6	430.9	424.2	424.2	424.2
42.5°	9410.3	4759.9	1138.6	866.2	611.7	455.4	401.9	415.3	399.6	397.4	395.2
45°	10290.0	5284.5	1252.5	819.4	609.5	444.3	384.0	399.6	375.1	375.1	375.1
47.5°	11162.9	5804.7	1368.6	752.4	602.8	442.1	368.4	359.4	352.7	355.0	355.0
50°	12366.3	6228.9	1413.2	660.8	587.2	437.6	339.4	341.6	337.1	341.6	341.6
52.5°	13676.8	6318.2	1359.6	558.1	542.5	424.2	319.3	328.2	326.0	330.4	330.4
55°	14493.9	6222.2	1123.0	464.4	473.3	370.6	299.2	317.0	317.0	317.0	317.0
57.5°	15337.9	5813.7	797.0	377.3	392.9	303.6	281.3	305.9	303.6	301.4	301.4
60°	15945.1	5152.8	524.7	310.3	312.6	250.0	261.2	288.0	285.8	274.6	274.6
62.5°	16398.3	4422.7	337.1	263.4	238.9	225.5	238.9	261.2	252.3	227.7	223.3
65°	16347.0	3411.4	259.0	225.5	196.5	196.5	207.6	227.7	200.9	160.7	156.3
67.5°	15393.7	2308.5	214.3	189.8	165.2	163.0	171.9	189.8	171.9	136.2	131.7
70°	13690.2	1509.2	171.9	147.4	131.7	120.6	138.4	163.0	145.1	109.4	104.9
72.5°	11111.6	919.8	129.5	107.2	96.0	78.1	109.4	134.0	116.1	80.4	75.9
75°	7188.9	468.8	89.3	69.2	51.3	46.9	80.4	100.5	80.4	49.1	42.4
77.5°	2750.5	196.5	49.1	31.3	26.8	22.3	44.7	60.3	33.5	11.2	8.9
80°	529.1	82.6	24.6	15.6	13.4	8.9	6.7	4.5	0.0	0.0	0.0
82.5°	91.5	26.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	0.0	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)