

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: P948815

Luminaire Tested: **GALN-SB3D-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30941 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 218.1
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



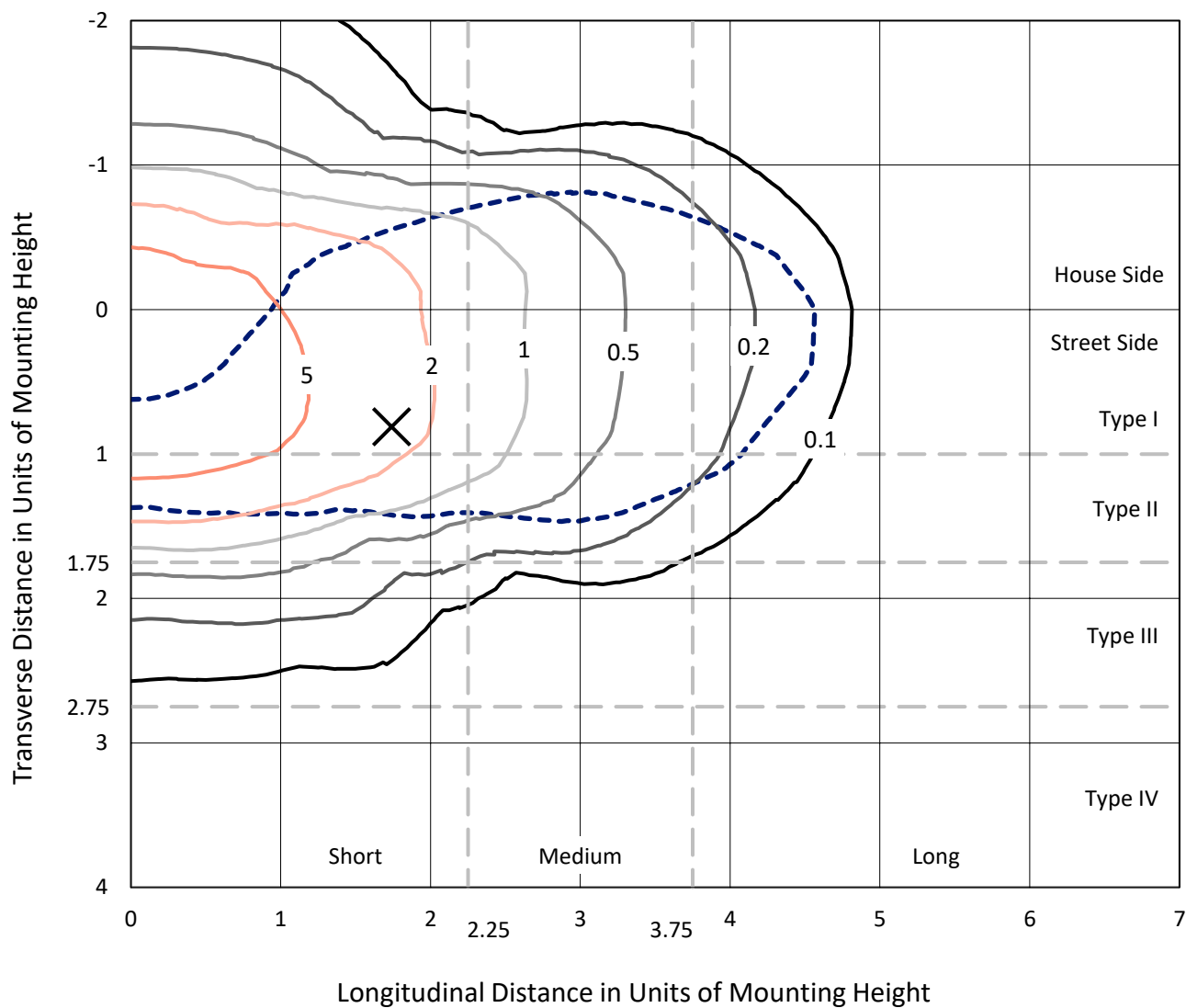
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

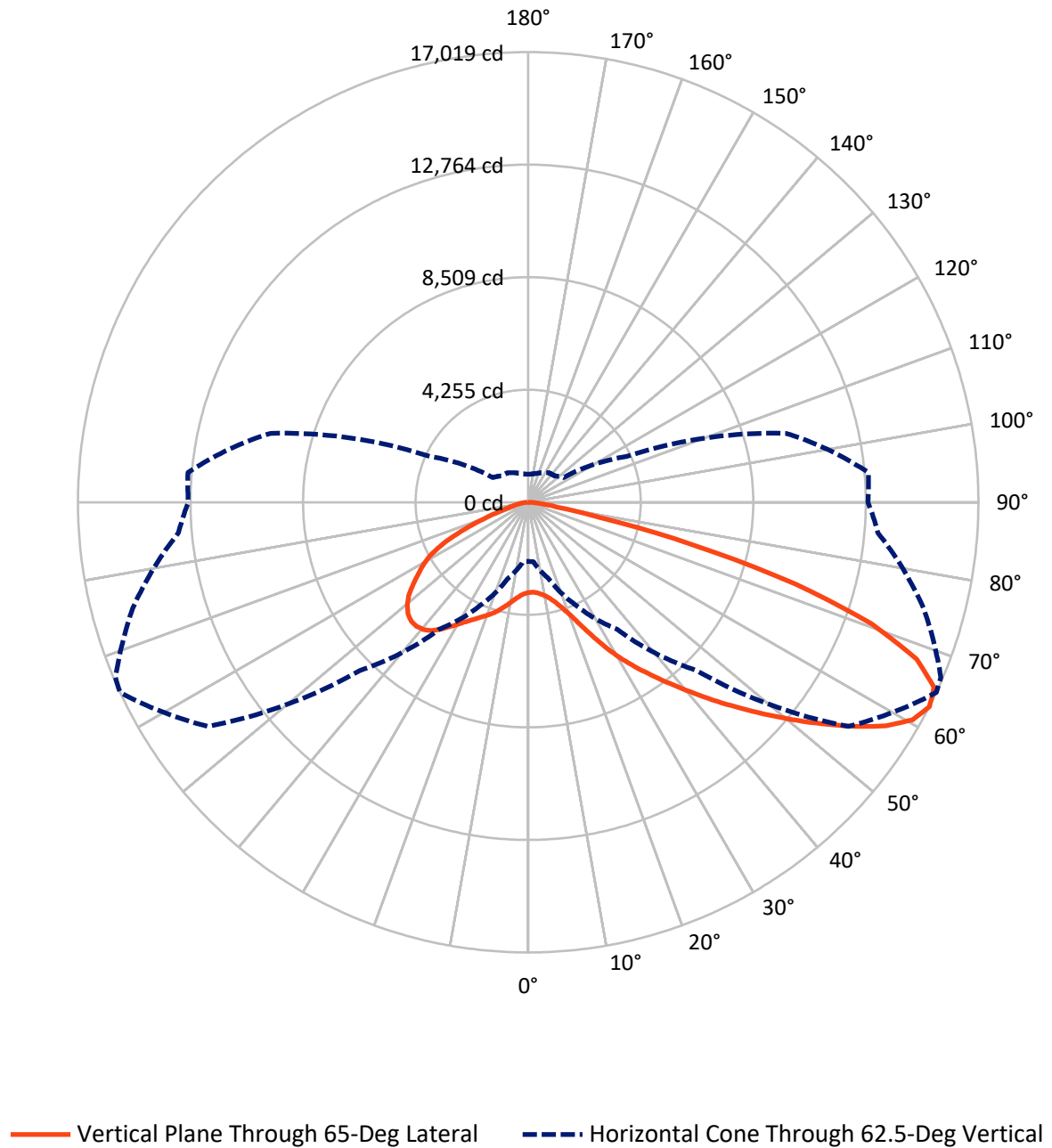


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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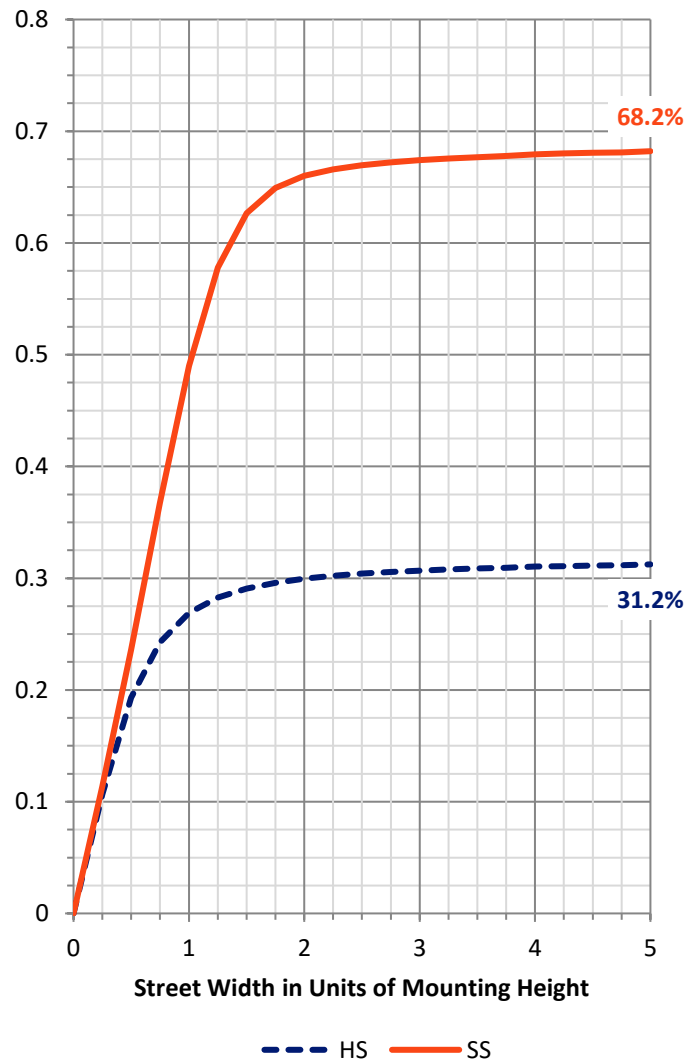
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9763.6	0.0	9763.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	21177.4	0.0	21177.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	30941.0	0.0	30941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	1.1
10°-20°	1152.7	3.7
20°-30°	2337.3	7.6
30°-40°	4044.6	13.1
40°-50°	6120.8	19.8
50°-60°	7176.2	23.2
60°-70°	6016.4	19.4
70°-80°	3321.5	10.7
80°-90°	431.5	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°	30941.0	100.0
0°-180°	30941.0	100.0

Coefficient of Utilization



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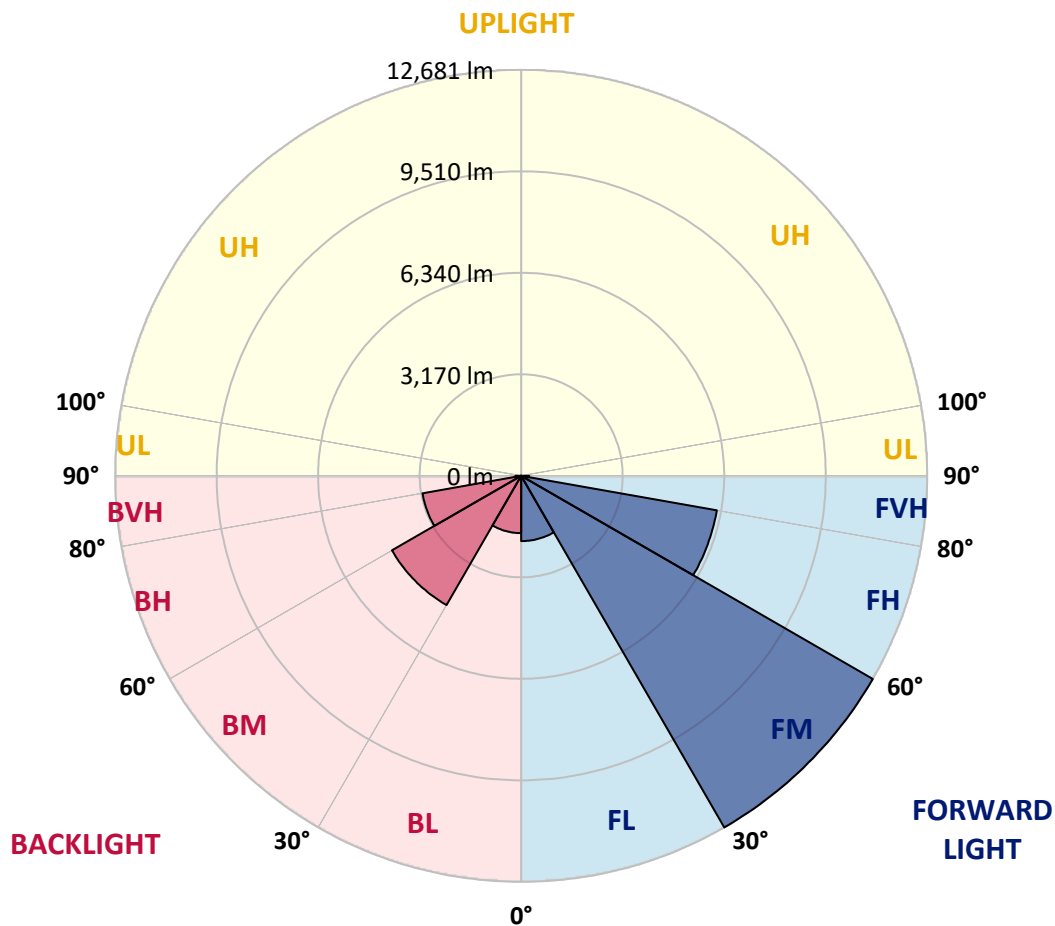
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2039.4	6.6			
FM	(30°-60°)	12680.6	41.0			
FH	(60°-80°)	6205.9	20.1			G3/7500
FVH	(80°-90°)	251.5	0.8			G3/500
BL	(0°-30°)	1790.5	5.8	B3/2500		
BM	(30°-60°)	4661.0	15.1	B3/5000		
BH	(60°-80°)	3132.1	10.1	B4/5000		G4/5000
BVH	(80°-90°)	180.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6
2.5°	3387.1	3377.5	3385.5	3385.5	3388.7	3387.1	3398.3	3401.5	3406.4	3416.0	3416.0
5°	3353.4	3351.8	3366.2	3379.1	3391.9	3403.1	3417.6	3438.5	3441.7	3452.9	3467.4
7.5°	3342.1	3332.5	3355.0	3371.0	3401.5	3428.8	3467.4	3502.7	3517.1	3521.9	3549.2
10°	3428.8	3412.8	3433.6	3443.3	3469.0	3496.2	3541.2	3597.4	3613.4	3632.7	3663.2
12.5°	3576.5	3558.9	3589.4	3603.8	3627.9	3652.0	3682.5	3737.0	3745.1	3780.4	3809.3
15°	3778.8	3757.9	3777.2	3794.8	3835.0	3857.4	3887.9	3940.9	3940.9	3968.2	3989.1
17.5°	4053.3	4026.0	4040.4	4046.9	4072.5	4106.2	4157.6	4204.2	4228.2	4218.6	4189.7
20°	4462.6	4428.9	4428.9	4396.8	4387.2	4414.5	4481.9	4546.1	4571.8	4522.0	4451.4
22.5°	5077.4	5029.3	5002.0	4892.8	4849.5	4852.7	4920.1	4998.8	5019.6	4931.3	4772.4
25°	5859.2	5783.7	5746.8	5586.3	5488.4	5403.3	5456.3	5557.4	5586.3	5477.1	5220.3
27.5°	6640.9	6645.8	6610.4	6417.8	6255.7	6100.0	6072.7	6178.6	6209.1	6085.5	5767.7
30°	7737.3	7623.4	7555.9	7324.8	7093.6	6875.3	6762.9	6806.3	6814.3	6666.6	6297.4
32.5°	8682.8	8653.9	8509.5	8307.2	8010.2	7668.3	7480.5	7411.5	7398.6	7188.3	6750.1
35°	9760.0	9743.9	9591.4	9350.6	9029.6	8554.4	8215.7	8018.3	8002.2	7706.8	7198.0
37.5°	10854.7	10854.7	10705.5	10442.2	10109.9	9516.0	9000.7	8687.6	8636.3	8251.0	7653.9
40°	11728.0	11675.0	11702.3	11591.6	11211.1	10580.2	9872.3	9418.0	9349.0	8886.7	8138.6
42.5°	12224.0	12206.4	12370.1	12493.7	12338.0	11833.9	10832.3	10209.4	10113.1	9586.6	8697.3
45°	12334.8	12315.5	12607.7	13060.4	13278.7	13071.6	11875.7	11042.6	10925.4	10318.6	9296.0
47.5°	12079.6	12041.0	12469.6	13184.0	13883.9	14248.3	13005.8	11946.3	11776.2	11031.3	9910.9
50°	11312.2	11275.3	11923.8	12872.5	14087.7	15047.7	14232.2	12904.7	12644.6	11795.4	10532.1
52.5°	9644.4	9662.0	10678.2	11981.6	13819.7	15545.3	15288.5	13914.4	13601.3	12577.2	11114.8
55°	7512.6	7551.1	8800.0	10235.1	12747.3	15469.9	16009.2	14954.6	14643.1	13312.4	11716.8
57.5°	5379.2	5549.4	6719.6	8140.3	10687.8	14273.9	16166.5	15943.4	15641.6	14115.0	12305.9
60°	3486.6	3517.1	4721.1	6152.9	8138.6	12148.6	15847.1	16693.1	16457.1	14933.7	12798.7
62.5°	2234.5	2255.4	2989.0	4303.7	5857.6	8987.8	14771.6	17018.9	16946.7	15474.7	13272.3
65°	1642.2	1626.1	2008.2	2844.5	3945.7	5542.9	12683.1	16861.6	17004.5	15813.4	13663.9
67.5°	1370.9	1348.4	1536.2	1969.6	2907.1	3147.9	9384.3	15839.1	16362.4	15774.9	13951.3
70°	1248.9	1229.6	1343.6	1462.4	2268.2	2107.7	4730.7	13769.9	14575.7	15336.6	13904.7
72.5°	1057.9	1024.2	1179.9	1298.7	1764.2	1616.5	1955.2	10577.0	11559.4	13932.0	13249.8
75°	820.3	797.8	931.0	1142.9	1325.9	1261.7	1236.0	6422.6	7494.9	10774.5	11591.6
77.5°	650.1	619.6	741.6	890.9	1192.7	951.9	900.5	2765.9	3828.5	6878.5	8673.2
80°	489.6	462.3	563.4	704.7	916.6	717.5	582.7	1128.5	1443.1	3485.0	4361.5
82.5°	348.3	324.3	393.3	516.9	616.4	643.7	358.0	632.5	711.1	1343.6	974.4
85°	223.1	208.7	263.3	324.3	391.7	414.2	218.3	330.7	362.8	553.8	406.1
87.5°	122.0	99.5	141.3	150.9	181.4	165.3	104.3	120.4	130.0	200.7	171.8
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°	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6	3409.6
2.5°	3422.4	3427.2	3443.3	3448.1	3459.3	3473.8	3483.4	3493.0	3493.0	3502.7	3502.7
5°	3469.0	3480.2	3513.9	3531.6	3560.5	3589.4	3607.0	3627.9	3640.7	3647.1	3650.4
7.5°	3558.9	3576.5	3624.7	3655.2	3704.9	3745.1	3772.4	3801.2	3807.7	3825.3	3818.9
10°	3680.9	3701.7	3756.3	3814.1	3873.5	3923.2	3948.9	3969.8	3977.8	3981.0	3973.0
12.5°	3820.5	3851.0	3921.6	3992.3	4054.9	4098.2	4104.6	4099.8	4077.4	4058.1	4058.1
15°	3992.3	4019.6	4098.2	4175.3	4236.3	4244.3	4204.2	4178.5	4151.2	4146.4	4146.4
17.5°	4197.7	4212.2	4284.4	4359.9	4364.7	4337.4	4278.0	4253.9	4228.2	4210.6	4212.2
20°	4436.9	4432.1	4483.5	4515.6	4481.9	4398.4	4308.5	4268.4	4242.7	4221.8	4223.4
22.5°	4722.7	4685.7	4679.3	4671.3	4581.4	4406.4	4284.4	4233.1	4192.9	4164.0	4173.7
25°	5138.4	4997.2	4899.2	4844.7	4642.4	4363.1	4207.4	4093.4	4018.0	3968.2	3987.5
27.5°	5658.5	5420.9	5173.7	5040.5	4642.4	4274.8	4021.2	3836.6	3713.0	3661.6	3687.3
30°	6154.6	5905.7	5541.3	5276.5	4631.2	4130.3	3721.0	3464.1	3319.7	3268.3	3298.8
32.5°	6578.3	6307.1	5931.4	5534.9	4603.9	3896.0	3348.6	3064.4	2924.8	2863.8	2894.3
35°	6971.6	6682.7	6323.1	5819.1	4531.6	3552.4	2939.2	2722.5	2566.8	2468.9	2501.0
37.5°	7374.5	7031.0	6693.9	6075.9	4401.6	3151.1	2624.6	2440.0	2257.0	2125.4	2160.7
40°	7812.8	7401.8	7090.4	6228.4	4188.1	2769.1	2380.6	2212.0	2017.8	1878.1	1905.4
42.5°	8324.9	7846.5	7531.9	6307.1	3896.0	2497.8	2221.7	2056.3	1873.3	1759.4	1781.8
45°	8859.4	8336.1	7934.8	6305.4	3570.1	2371.0	2170.3	2006.6	1804.3	1685.5	1704.8
47.5°	9419.6	8848.2	8283.1	6202.7	3287.6	2388.6	2141.4	1899.0	1675.9	1560.3	1576.4
50°	9981.5	9408.4	8620.2	6010.1	3167.2	2350.1	2033.9	1748.1	1484.9	1380.5	1386.9
52.5°	10538.5	10004.0	8910.8	5735.6	3045.2	2207.2	1895.8	1552.3	1406.2	1334.0	1334.0
55°	11098.7	10593.1	9227.0	5335.9	2740.2	2040.3	1664.7	1478.4	1343.6	1277.8	1271.4
57.5°	11660.6	11273.7	9527.2	4936.2	2356.5	1834.8	1537.8	1388.5	1281.0	1224.8	1215.2
60°	12244.9	12052.3	9837.0	4568.6	1977.7	1571.5	1444.7	1316.3	1207.2	1144.5	1139.7
62.5°	12846.9	12909.5	10079.4	4095.0	1629.3	1411.0	1361.3	1229.6	1123.7	1064.3	1062.7
65°	13453.7	13736.2	10238.3	3438.5	1321.1	1258.5	1271.4	1134.9	1027.4	976.0	974.4
67.5°	13911.1	14331.7	10193.4	2602.1	1083.5	1114.0	1159.0	1035.4	934.3	894.1	895.7
70°	13962.5	14261.1	9750.3	1781.8	907.0	972.8	1033.8	937.5	833.1	804.2	805.8
72.5°	13278.7	13297.9	8515.9	1163.8	767.3	854.0	902.2	837.9	736.8	707.9	706.3
75°	11485.6	10997.6	6252.5	767.3	642.1	733.6	778.5	733.6	635.7	642.1	619.6
77.5°	8702.1	7788.7	3796.4	545.8	536.2	616.4	677.4	645.3	561.8	630.9	555.4
80°	4483.5	4213.8	1693.5	407.7	423.8	492.8	557.0	515.3	444.7	423.8	386.9
82.5°	1027.4	1194.3	667.8	292.2	306.6	354.8	425.4	386.9	319.4	269.7	266.5
85°	359.6	393.3	295.4	183.0	179.8	221.5	288.9	258.4	216.7	173.4	183.0
87.5°	114.0	149.3	110.8	73.8	77.1	99.5	133.2	122.0	101.1	65.8	69.0
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)