

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: P941777

Luminaire Tested: **GALN-SB5C-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-722-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31273 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.5
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

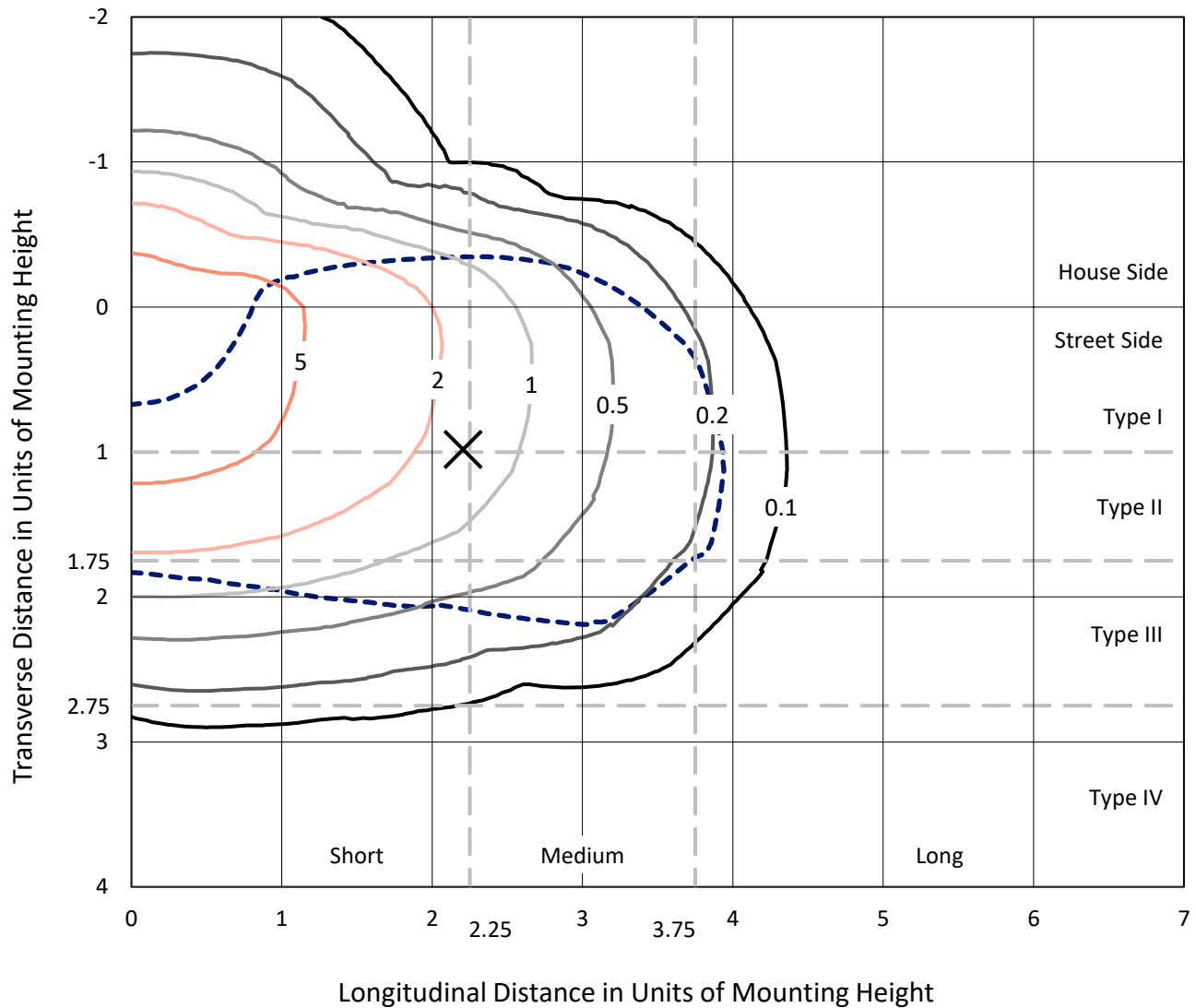


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

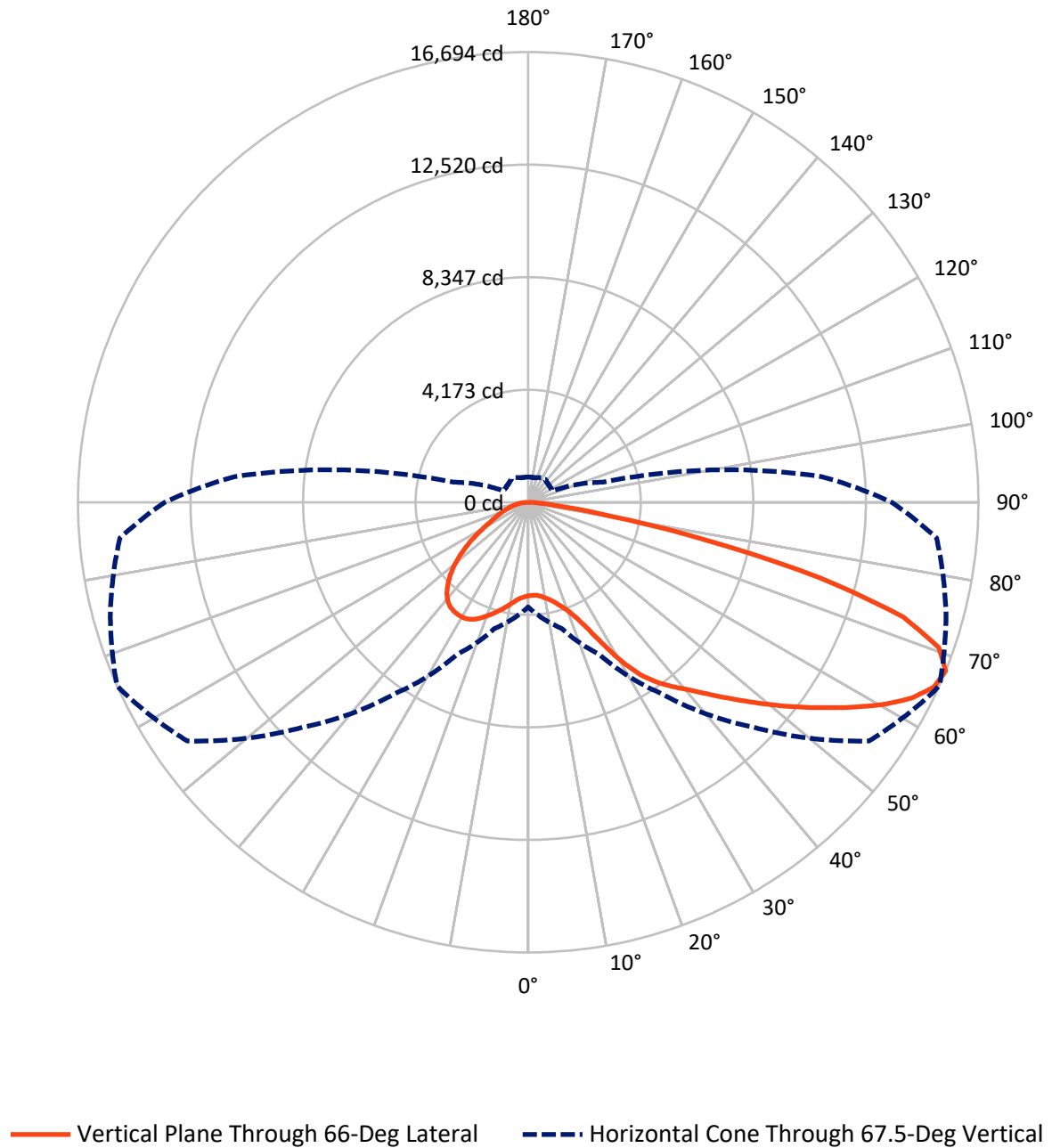


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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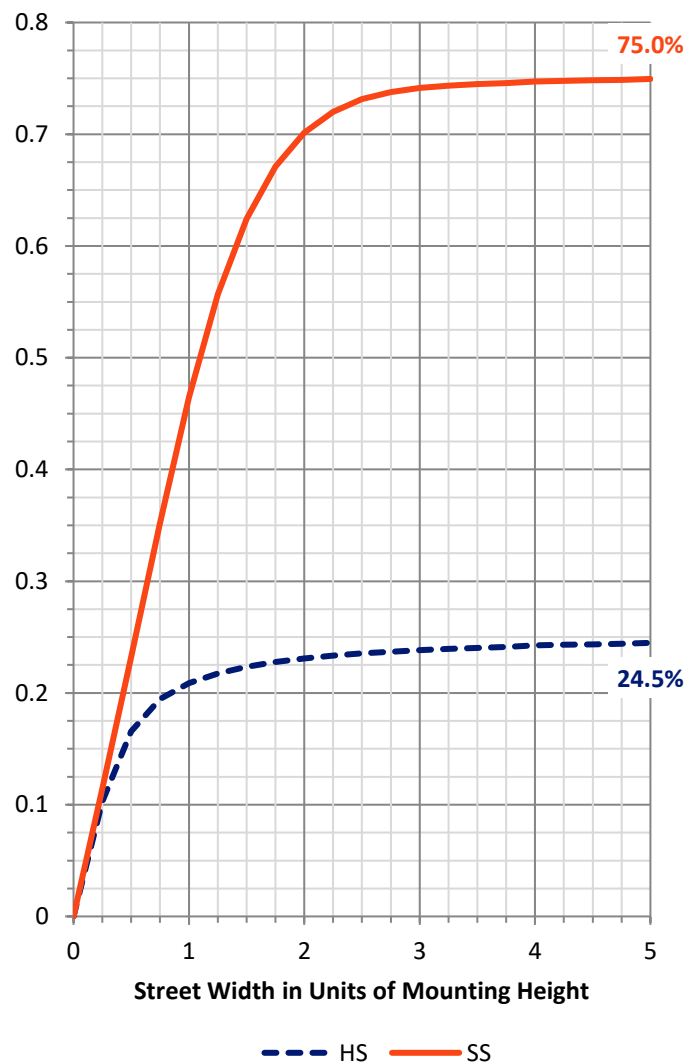
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7775.9	0.0	7775.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	23497.1	0.0	23497.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	31273.0	0.0	31273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.9	1.1
10°-20°	1136.2	3.6
20°-30°	2189.9	7.0
30°-40°	3839.8	12.3
40°-50°	5708.5	18.3
50°-60°	7236.1	23.1
60°-70°	7080.3	22.6
70°-80°	3377.4	10.8
80°-90°	360.9	1.2
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°	31273.0	100.0
0°-180°	31273.0	100.0

Coefficient of Utilization



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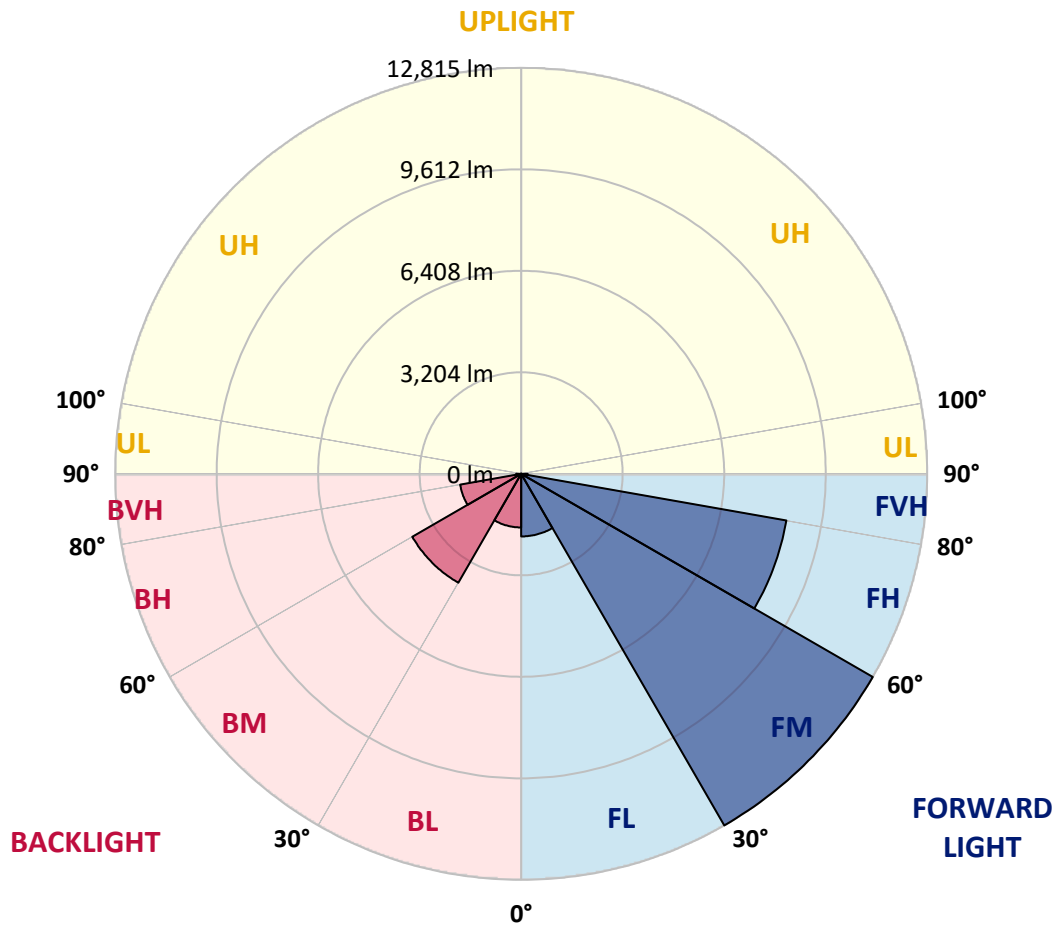
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1976.1	6.3			
FM	(30°-60°)	12815.4	41.0			
FH	(60°-80°)	8500.9	27.2			G4/12000
FVH	(80°-90°)	204.6	0.7			G2/225
BL	(0°-30°)	1693.9	5.4	B3/2500		
BM	(30°-60°)	3968.9	12.7	B3/5000		
BH	(60°-80°)	1956.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	156.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6
2.5°	3432.4	3452.2	3447.2	3439.0	3437.4	3440.7	3445.6	3450.5	3448.9	3457.1	3470.2
5°	3422.6	3442.3	3440.7	3440.7	3447.2	3460.4	3468.6	3476.8	3468.6	3478.4	3496.5
7.5°	3429.2	3443.9	3450.5	3457.1	3473.5	3498.2	3517.9	3536.0	3526.1	3537.6	3560.6
10°	3513.0	3524.5	3531.0	3531.0	3542.5	3570.5	3590.2	3623.0	3614.8	3632.9	3662.5
12.5°	3665.8	3677.3	3677.3	3670.7	3678.9	3697.0	3703.6	3739.7	3724.9	3754.5	3784.1
15°	3853.1	3876.1	3858.0	3846.5	3849.8	3867.9	3866.2	3894.2	3879.4	3904.0	3930.3
17.5°	4060.1	4089.7	4060.1	4058.5	4051.9	4071.6	4073.3	4097.9	4071.6	4089.7	4107.8
20°	4304.9	4346.0	4321.4	4329.6	4314.8	4323.0	4331.2	4367.4	4326.3	4339.4	4334.5
22.5°	4650.0	4699.3	4673.0	4704.2	4694.3	4687.8	4686.1	4750.2	4686.1	4691.1	4643.4
25°	5152.8	5211.9	5165.9	5208.6	5208.6	5230.0	5254.6	5336.8	5230.0	5198.8	5075.5
27.5°	5895.5	5954.6	5864.2	5890.5	5882.3	5934.9	5908.6	6112.3	5997.3	5946.4	5698.3
30°	6789.3	6894.5	6723.6	6717.0	6708.8	6792.6	6830.4	6965.1	6848.5	6797.5	6498.5
32.5°	7755.4	7865.5	7661.8	7602.6	7571.4	7622.4	7591.1	7699.6	7619.1	7540.2	7170.5
35°	8777.5	8885.9	8692.0	8577.0	8452.1	8345.3	8233.6	8261.5	8185.9	8066.0	7683.1
37.5°	9743.6	9942.4	9737.0	9613.8	9383.8	9175.1	8862.9	8733.1	8662.4	8552.3	8166.2
40°	10727.8	10841.2	10685.1	10579.9	10330.2	10003.2	9503.7	9229.3	9134.0	9027.2	8700.2
42.5°	11452.4	11560.9	11477.1	11404.8	11209.2	10829.7	10183.9	9840.5	9702.5	9582.6	9304.9
45°	12027.5	12108.0	12055.4	12081.7	11997.9	11629.9	10888.8	10496.1	10353.2	10207.0	9988.4
47.5°	12259.2	12344.6	12428.4	12584.5	12727.5	12456.4	11646.3	11206.0	11054.8	10905.3	10690.0
50°	12232.9	12320.0	12563.2	12895.1	13338.7	13248.3	12444.9	11961.8	11822.1	11651.2	11452.4
52.5°	12022.6	12121.2	12433.4	12985.4	13692.0	13841.5	13258.2	12742.3	12610.8	12407.1	12208.3
55°	11470.5	11529.6	11997.9	12780.0	13775.8	14255.6	14055.1	13573.7	13442.2	13158.0	12941.1
57.5°	10446.8	10532.3	11214.2	12226.3	13565.5	14536.5	14755.1	14447.8	14321.3	13912.1	13685.4
60°	9111.0	9247.4	10027.9	11296.3	13029.8	14534.9	15390.9	15307.1	15202.0	14654.8	14418.2
62.5°	7599.3	7757.1	8508.0	9981.8	12093.2	14122.5	15788.6	16026.8	15972.6	15340.0	15037.7
65°	5836.3	5944.7	6692.4	8281.2	10635.8	13236.8	15834.6	16518.1	16528.0	15860.9	15361.4
67.5°	3885.9	4198.1	4847.2	6214.2	8683.8	11789.3	15430.4	16598.6	16693.9	16040.0	15198.7
70°	1896.1	2306.9	2942.8	4038.7	6214.2	9569.4	14373.9	15938.1	16150.1	15517.5	14229.3
72.5°	787.0	920.1	1266.8	1993.1	3567.2	6457.4	12251.0	14147.1	14539.8	13749.5	11963.4
75°	530.7	575.1	724.6	1022.0	1625.0	3184.3	8835.0	10548.7	11181.3	10384.4	8488.3
77.5°	409.1	437.1	527.4	714.7	966.1	1204.4	4728.8	6357.2	6684.1	6187.9	4416.7
80°	322.0	343.4	394.3	520.9	685.2	644.1	1611.9	2880.4	3069.3	2574.7	1419.6
82.5°	279.3	287.5	282.6	353.3	455.1	376.3	529.1	1063.1	1173.2	851.1	463.4
85°	202.1	225.1	235.0	218.5	241.5	190.6	216.9	376.3	414.1	369.7	261.3
87.5°	82.2	121.6	149.5	141.3	88.7	54.2	67.4	110.1	126.5	138.0	85.4
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°	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6
2.5°	3471.9	3483.4	3491.6	3501.5	3508.0	3517.9	3537.6	3549.1	3550.7	3559.0	3557.3
5°	3503.1	3519.5	3537.6	3563.9	3593.5	3618.1	3655.9	3682.2	3692.1	3700.3	3698.6
7.5°	3570.5	3593.5	3626.3	3672.3	3715.1	3747.9	3793.9	3825.1	3856.4	3867.9	3869.5
10°	3670.7	3703.6	3751.2	3813.6	3859.6	3902.4	3950.0	3976.3	4007.5	4020.7	4027.2
12.5°	3795.6	3830.1	3892.5	3979.6	4022.3	4051.9	4068.3	4061.7	4068.3	4079.8	4083.1
15°	3938.5	3976.3	4047.0	4140.6	4170.2	4143.9	4107.8	4074.9	4070.0	4073.3	4084.8
17.5°	4107.8	4135.7	4217.8	4296.7	4275.4	4166.9	4088.0	4035.5	4009.2	4001.0	4012.5
20°	4344.4	4344.4	4411.7	4461.0	4318.1	4134.0	4010.8	3925.4	3871.1	3848.1	3843.2
22.5°	4631.9	4605.6	4648.3	4613.8	4309.9	4042.0	3871.1	3723.3	3641.1	3608.3	3603.3
25°	4996.7	4965.5	4954.0	4740.4	4250.7	3895.8	3618.1	3439.0	3366.7	3348.6	3351.9
27.5°	5547.1	5468.2	5318.7	4809.4	4142.3	3665.8	3322.4	3156.4	3115.3	3117.0	3121.9
30°	6279.9	6122.2	5755.8	4820.9	3964.8	3340.4	3020.0	2901.7	2882.0	2890.2	2918.1
32.5°	6958.5	6809.0	6202.7	4768.3	3692.1	3021.7	2748.9	2670.0	2640.5	2650.3	2663.5
35°	7490.9	7449.8	6616.8	4694.3	3356.9	2722.6	2505.7	2438.4	2380.9	2367.7	2377.6
37.5°	7993.7	7977.3	6927.3	4590.8	3025.0	2510.7	2310.2	2221.5	2137.7	2091.7	2093.3
40°	8545.8	8529.3	7131.1	4431.4	2730.8	2326.6	2134.4	2017.7	1914.2	1830.4	1838.6
42.5°	9166.9	9069.9	7228.0	4203.1	2481.1	2170.5	1991.4	1833.7	1697.3	1620.1	1625.0
45°	9845.5	9626.9	7226.4	3912.2	2270.8	2027.6	1838.6	1615.2	1488.7	1416.4	1413.1
47.5°	10565.1	10159.3	7137.6	3590.2	2067.0	1869.9	1602.0	1431.1	1347.3	1303.0	1293.1
50°	11307.8	10657.2	6986.5	3220.5	1858.3	1690.8	1454.1	1337.5	1273.4	1232.3	1217.5
52.5°	12006.1	11109.0	6804.1	2801.5	1646.4	1516.6	1388.4	1298.1	1230.7	1184.7	1165.0
55°	12655.2	11498.4	6546.1	2372.6	1473.9	1399.9	1357.2	1281.6	1204.4	1150.2	1128.8
57.5°	13231.9	11751.5	6100.8	1970.1	1350.6	1319.4	1324.3	1253.7	1165.0	1119.0	1089.4
60°	13711.7	11937.1	5442.0	1597.1	1250.4	1240.5	1273.4	1201.1	1097.6	1045.0	1022.0
62.5°	13999.2	11933.9	4633.5	1307.9	1165.0	1168.2	1206.0	1135.4	1030.2	980.9	966.1
65°	13974.6	11641.4	3746.3	1119.0	1082.8	1086.1	1135.4	1063.1	974.4	944.8	943.1
67.5°	13480.0	10928.3	2873.8	995.7	992.4	1007.2	1064.7	1013.8	939.9	936.6	941.5
70°	12140.9	9447.8	2070.3	897.1	898.8	920.1	995.7	982.6	921.8	928.4	926.7
72.5°	9735.4	7203.4	1390.1	793.6	795.3	829.8	930.0	957.9	903.7	990.8	1003.9
75°	6483.7	4492.2	893.8	683.5	685.2	729.5	872.5	910.3	854.4	987.5	995.7
77.5°	3115.3	2019.4	647.4	575.1	575.1	616.2	754.2	815.0	727.9	767.3	703.2
80°	1076.2	759.1	509.4	463.4	453.5	481.4	635.9	706.5	627.7	578.4	542.2
82.5°	423.9	394.3	409.1	359.8	327.0	345.1	494.6	583.3	461.7	417.3	415.7
85°	243.2	256.3	289.2	238.2	189.0	212.0	363.1	419.0	348.3	307.3	313.8
87.5°	65.7	90.4	133.1	123.2	85.4	90.4	172.5	231.7	200.5	154.5	159.4
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)