

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: P954475

Luminaire Tested: **GALN-SB7D-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-722-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59421 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 512.8
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

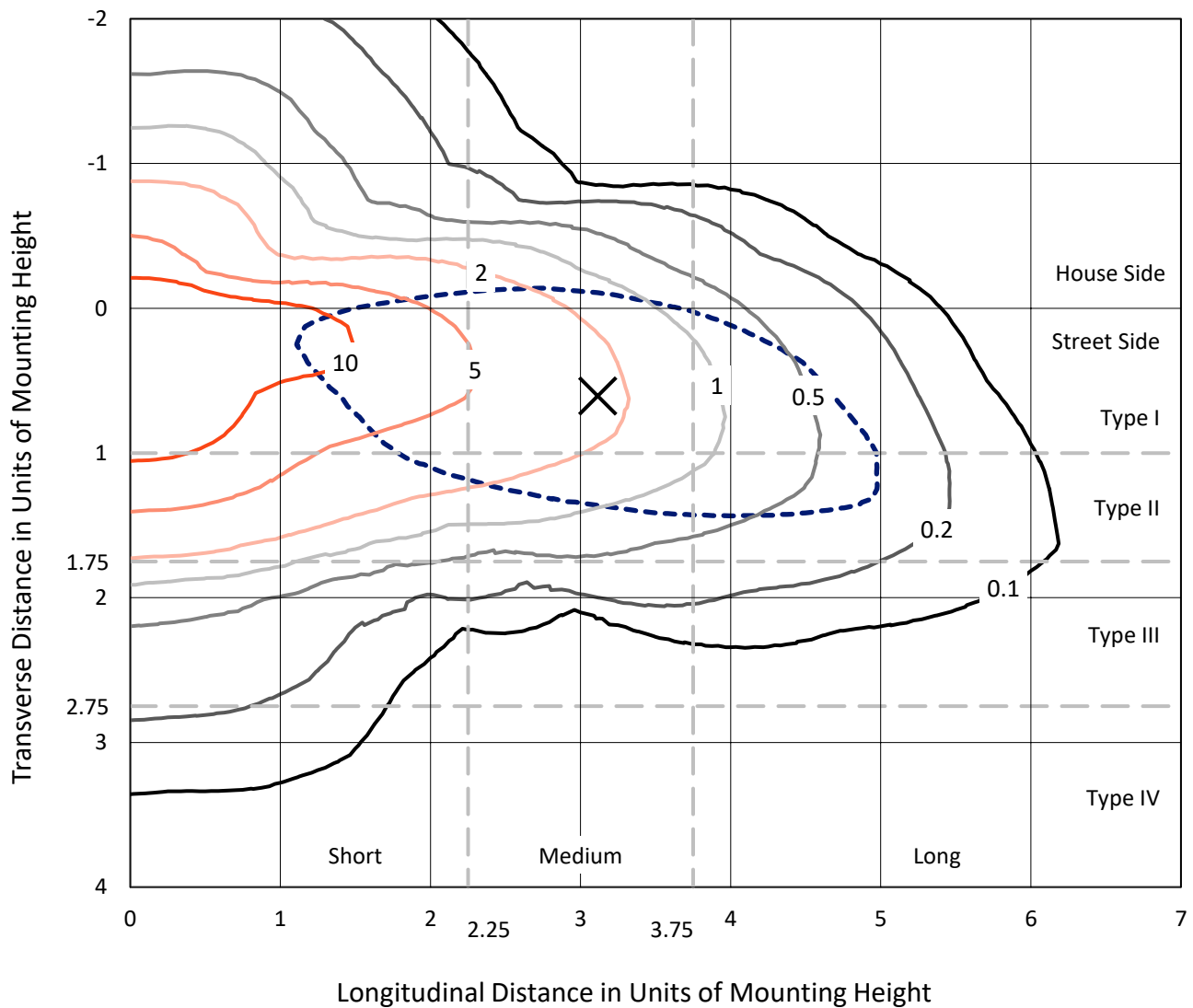


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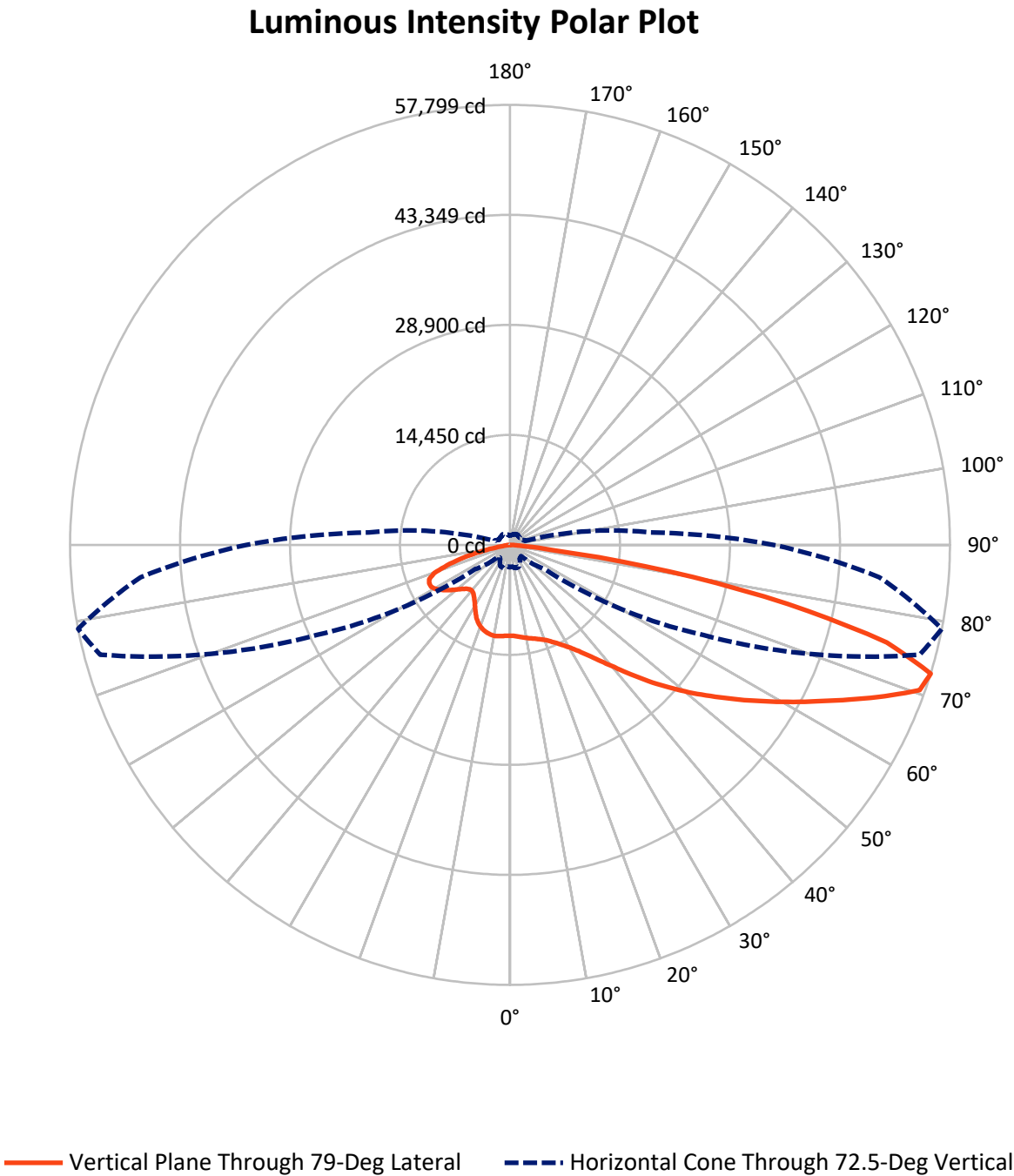
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
Type II - Medium - N/A

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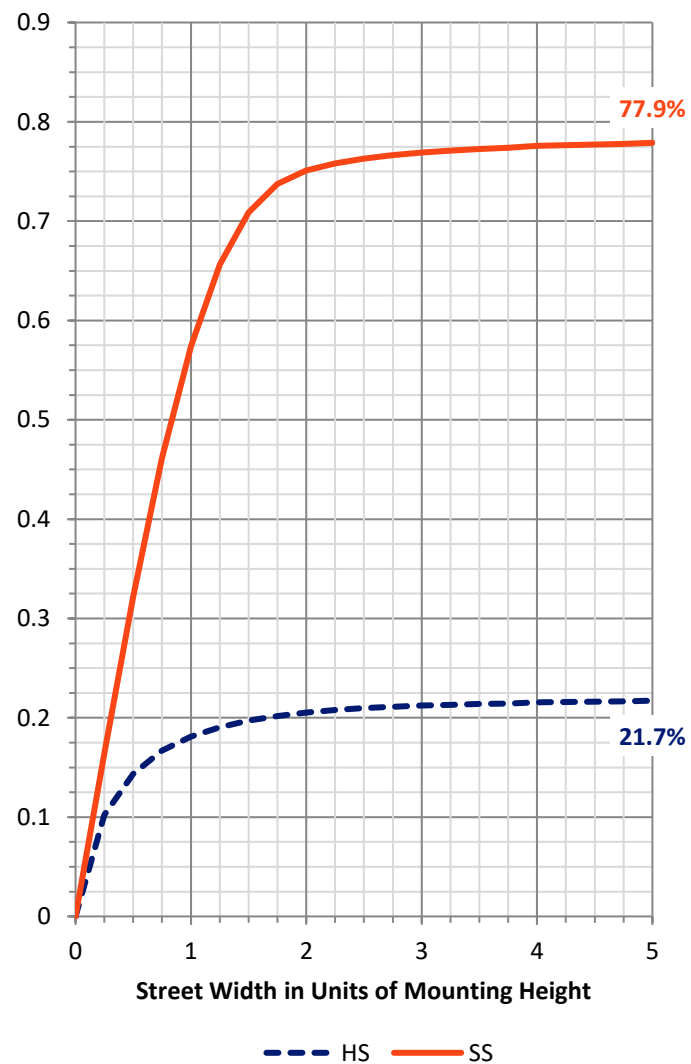
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13075.9	0.0	13075.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	46345.1	0.0	46345.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	59421.0	0.0	59421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1082.7	1.8
10°-20°	2830.8	4.8
20°-30°	4567.8	7.7
30°-40°	6855.6	11.5
40°-50°	9725.0	16.4
50°-60°	12281.4	20.7
60°-70°	12473.5	21.0
70°-80°	8501.2	14.3
80°-90°	1103.0	1.9
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°	59421.0	100.0
0°-180°	59421.0	100.0

Coefficient of Utilization



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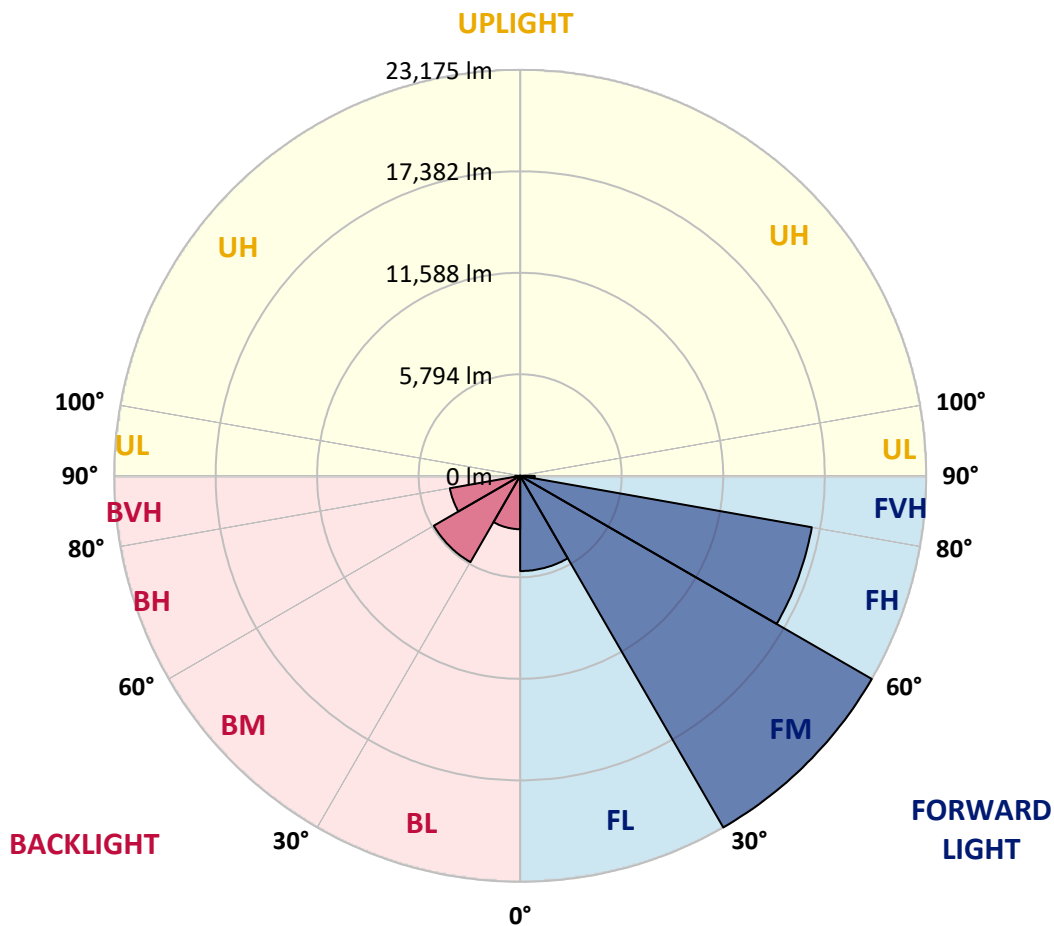
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5435.6	9.1			
FM	(30°-60°)	23175.4	39.0			
FH	(60°-80°)	16903.3	28.4			G5
FVH	(80°-90°)	830.9	1.4			G5
BL	(0°-30°)	3045.7	5.1	B4/5000		
BM	(30°-60°)	5686.6	9.6	B4/8500		
BH	(60°-80°)	4071.4	6.9	B4/5000		G4/5000
BVH	(80°-90°)	272.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2
2.5°	11934.5	11877.9	11912.5	11899.9	11915.6	11934.5	11940.8	11950.2	11981.6	11978.5	11975.3
5°	11909.3	11852.8	11899.9	11884.2	11925.1	11969.1	12006.8	12041.4	12091.6	12113.6	12082.2
7.5°	11855.9	11818.2	11865.3	11912.5	11987.9	12053.9	12107.4	12185.9	12258.2	12270.8	12292.8
10°	11544.7	11516.4	11626.5	11749.0	11956.5	12135.6	12251.9	12343.1	12421.7	12434.2	12465.7
12.5°	11221.0	11186.4	11309.0	11475.6	11811.9	12135.6	12380.8	12500.3	12569.4	12610.3	12657.4
15°	11167.6	11139.3	11208.4	11353.0	11632.7	12050.8	12468.8	12688.8	12748.6	12795.7	12814.6
17.5°	11425.3	11371.9	11400.2	11450.4	11613.9	11972.2	12538.0	12902.6	12993.7	13044.0	13044.0
20°	12022.5	11947.1	11903.1	11802.5	11774.2	11984.8	12531.7	13160.3	13279.7	13342.6	13358.3
22.5°	12817.7	12767.4	12673.1	12418.5	12141.9	12138.8	12651.1	13490.3	13713.5	13773.2	13735.5
25°	13779.5	13704.1	13584.6	13238.9	12707.7	12443.7	12852.3	13911.5	14285.6	14301.3	14191.3
27.5°	14885.9	14772.7	14609.3	14153.5	13436.9	12921.4	13160.3	14395.6	14942.5	14936.2	14709.9
30°	16052.0	15938.8	15766.0	15212.8	14310.7	13565.8	13587.8	14917.3	15722.0	15687.4	15300.8
32.5°	16903.8	16818.9	16784.3	16356.9	15316.5	14326.4	14078.1	15495.7	16683.8	16652.3	16111.7
35°	17557.6	17447.5	17488.4	17271.5	16413.5	15178.2	14678.4	16184.0	17853.0	17849.9	17177.2
37.5°	18205.0	18107.6	18142.2	17997.6	17428.7	16259.4	15410.8	17026.4	19302.0	19371.1	18465.9
40°	18796.0	18692.2	18830.5	18695.4	18217.6	17409.8	16243.7	17978.7	20980.4	21112.4	20024.9
42.5°	19151.1	19069.4	19298.9	19302.0	18902.8	18381.1	17158.4	19028.5	22922.9	23218.3	21942.2
45°	19273.7	19245.4	19591.2	19663.5	19509.4	18943.7	17981.9	20172.6	25016.2	25544.3	24126.7
47.5°	19141.7	19088.3	19566.0	19833.2	19955.8	19207.7	18663.9	21411.0	27153.6	27926.8	26509.2
50°	18475.4	18371.6	19082.0	19644.6	20081.5	19380.6	19352.3	22841.2	29583.2	30428.7	28904.3
52.5°	17277.8	17199.2	18007.0	18984.5	19804.9	19465.4	20125.5	24403.3	31890.3	32984.1	31359.1
55°	15747.1	15643.4	16532.9	17809.0	19116.6	19437.2	20898.7	26150.9	34612.2	35721.7	33895.6
57.5°	13320.6	13113.2	14238.4	15747.1	17994.5	19402.6	21703.4	27889.0	37378.2	38707.7	36601.8
60°	9781.4	9473.4	10853.2	12641.7	15800.5	19066.3	22699.7	29837.8	40697.3	41894.9	39556.4
62.5°	5695.4	5516.2	6418.3	8087.3	11909.3	17086.1	23259.2	32104.0	43959.9	45217.2	42460.6
65°	4422.4	4372.1	4450.7	4579.5	6628.9	12792.6	21533.6	34313.6	48108.8	48988.9	45487.5
67.5°	4045.2	4007.5	4042.1	3800.1	3363.2	7125.5	17035.8	34873.1	52553.2	53087.6	48137.1
70°	3595.7	3551.7	3664.9	3457.4	2646.5	3240.6	11007.3	32842.6	56089.3	57091.9	50151.9
72.5°	2929.4	2879.1	3143.1	3048.8	2228.5	2080.8	5528.8	28017.9	55718.4	57799.1	48709.2
75°	2250.5	2222.2	2536.5	2615.1	1816.7	1637.6	2652.8	20826.4	49032.9	51129.4	41979.7
77.5°	1747.6	1725.6	1885.9	2171.9	1464.7	1269.8	1631.3	13210.6	36950.7	37318.5	28929.4
80°	1310.7	1247.8	1395.6	1681.6	1141.0	927.2	1106.4	7703.8	23356.6	21172.2	12591.4
82.5°	820.4	788.9	911.5	1122.1	804.6	638.1	719.8	4255.8	9360.3	5513.1	2429.6
85°	468.3	455.8	496.6	641.2	436.9	367.7	411.8	1879.6	1709.9	1175.5	732.4
87.5°	188.6	182.3	226.3	286.0	160.3	135.2	144.6	452.6	377.2	348.9	242.0
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°	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2	11928.2
2.5°	11962.8	11962.8	11918.8	11849.6	11771.0	11720.8	11639.0	11617.0	11532.2	11507.0	11547.9
5°	12107.4	12082.2	11947.1	11752.2	11485.0	11239.9	10969.5	10799.8	10560.9	10476.1	10538.9
7.5°	12289.7	12220.5	11987.9	11560.5	11001.0	10450.9	9878.9	9445.1	9030.2	8882.5	8901.4
10°	12456.2	12358.8	11962.8	11214.7	10246.6	9294.3	8382.7	7744.7	7260.6	7062.6	7106.6
12.5°	12622.8	12443.7	11796.2	10639.5	9174.8	7883.0	6911.8	6415.1	6116.5	5877.7	5956.2
15°	12780.0	12528.5	11538.5	9869.4	7999.3	6688.6	5972.0	5575.9	5337.0	5179.9	5208.2
17.5°	12962.3	12600.8	11151.8	8891.9	6880.3	5861.9	5277.3	5038.4	4991.3	4972.4	4985.0
20°	13216.9	12666.8	10642.7	7798.1	6056.8	5201.9	4900.1	4878.1	4875.0	4865.6	4897.0
22.5°	13490.3	12745.4	9970.0	6804.9	5355.9	4790.1	4736.7	4692.7	4664.4	4661.3	4695.8
25°	13814.1	12770.6	9127.7	5990.8	4758.7	4595.3	4532.4	4466.4	4447.5	4447.5	4466.4
27.5°	14128.4	12685.7	8147.0	5283.6	4422.4	4416.1	4334.4	4312.4	4309.2	4318.7	4343.8
30°	14442.7	12525.4	7172.6	4629.8	4227.5	4227.5	4199.2	4214.9	4227.5	4258.9	4281.0
32.5°	14867.0	12355.7	6358.6	4145.8	4057.8	4026.4	4054.6	4086.1	4098.6	4139.5	4174.1
35°	15489.4	12236.2	5711.1	3881.8	3881.8	3840.9	3856.6	3850.3	3822.1	3803.2	3847.2
37.5°	16312.9	12229.9	5176.7	3759.2	3734.0	3727.8	3730.9	3690.0	3580.0	3448.0	3451.2
40°	17303.0	12399.7	4765.0	3674.3	3655.5	3693.2	3674.3	3564.3	3262.6	3033.1	3026.8
42.5°	18632.5	12883.7	4501.0	3570.6	3627.2	3674.3	3598.9	3218.6	3014.3	2860.3	2854.0
45°	20197.8	13669.5	4365.8	3460.6	3573.7	3630.3	3265.7	3099.1	2935.7	2750.2	2737.7
47.5°	21970.5	14659.6	4334.4	3356.9	3454.3	3488.9	3124.3	3048.8	2863.4	2662.2	2646.5
50°	23900.4	15832.0	4419.2	3234.3	3281.4	3162.0	3077.1	3008.0	2816.2	2618.2	2596.2
52.5°	25896.3	17123.8	4589.0	3067.7	3108.6	2976.5	3058.3	2998.6	2788.0	2520.8	2501.9
55°	27857.6	18425.1	4752.4	2872.8	2932.5	2810.0	3004.8	2960.8	2659.1	2357.4	2341.6
57.5°	29850.4	19720.0	4912.7	2700.0	2762.8	2649.7	2920.0	2860.3	2514.5	2206.5	2200.2
60°	31921.7	20977.3	4988.2	2533.4	2577.4	2501.9	2791.1	2687.4	2351.1	2052.5	2043.0
62.5°	33861.0	22024.0	4865.6	2366.8	2395.1	2363.6	2621.4	2483.1	2187.6	1879.6	1876.5
65°	35806.6	22646.3	4488.4	2203.3	2209.6	2193.9	2382.5	2263.1	1995.9	1728.7	1709.9
67.5°	37569.9	22995.2	3888.1	2027.3	2011.6	2005.3	2159.3	2024.2	1810.4	1577.9	1559.0
70°	37943.9	22108.8	2970.3	1819.9	1819.9	1804.2	1914.2	1775.9	1606.1	1417.6	1411.3
72.5°	34656.2	18597.9	2109.0	1584.1	1609.3	1577.9	1669.0	1552.7	1398.7	1273.0	1235.3
75°	27945.6	13638.1	1533.9	1342.1	1386.1	1332.7	1417.6	1335.8	1203.8	1200.7	1081.2
77.5°	19201.4	8433.0	1112.7	1106.4	1137.8	1068.7	1166.1	1122.1	1002.7	949.2	889.5
80°	8194.2	3363.2	810.9	854.9	854.9	792.1	905.2	917.8	814.1	788.9	788.9
82.5°	1631.3	955.5	568.9	587.8	553.2	534.3	641.2	710.3	980.7	1090.7	1093.8
85°	490.3	352.0	342.6	320.6	282.9	286.0	377.2	713.5	880.1	502.9	433.8
87.5°	135.2	88.0	91.2	72.3	59.7	78.6	128.9	540.6	295.5	125.7	106.9
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)