

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: P943152

Luminaire Tested: **GALN-SB7C-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-730-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52795 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 350.5
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

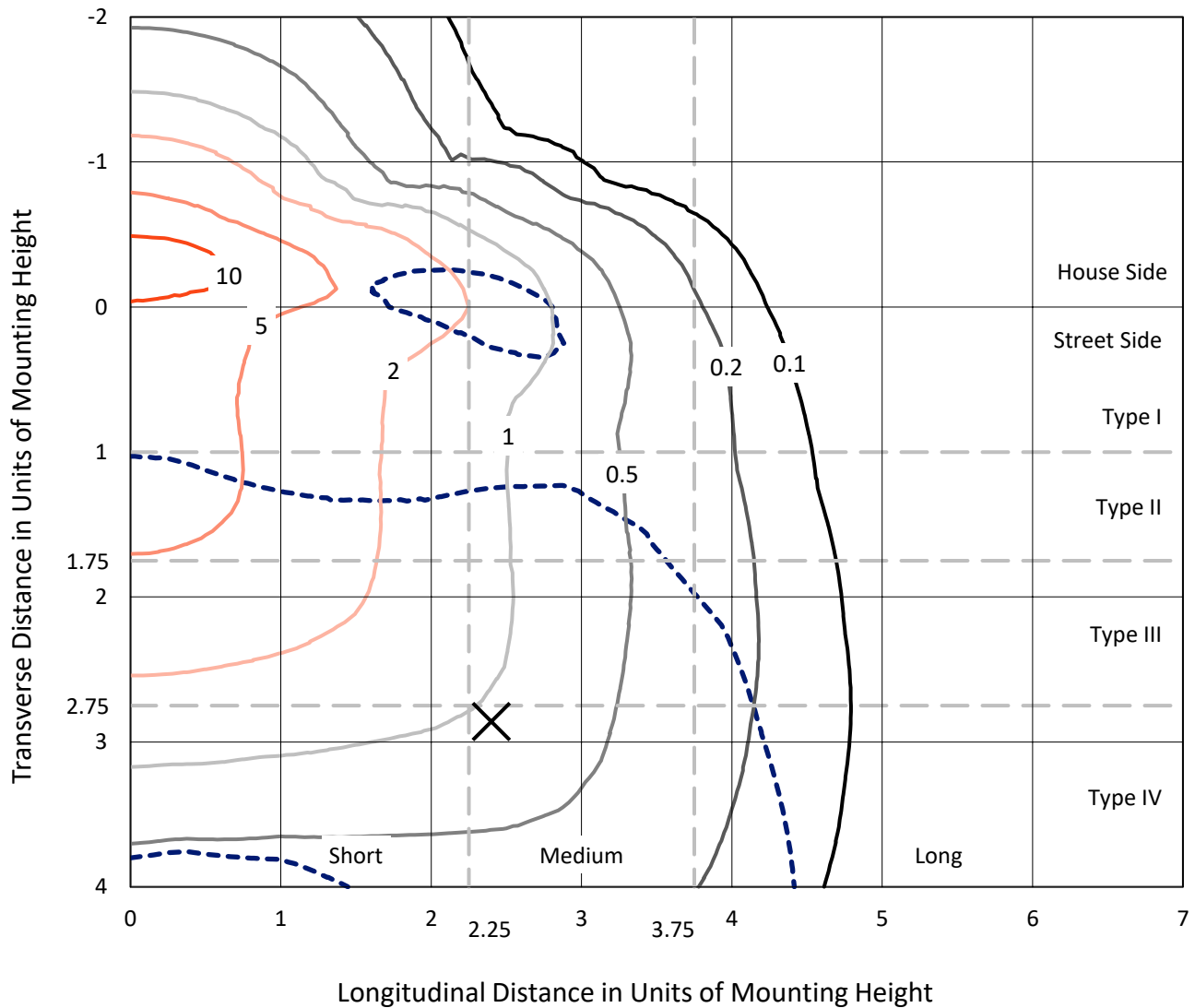


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Iso-Footcandle Lines of Horizontal Illumination

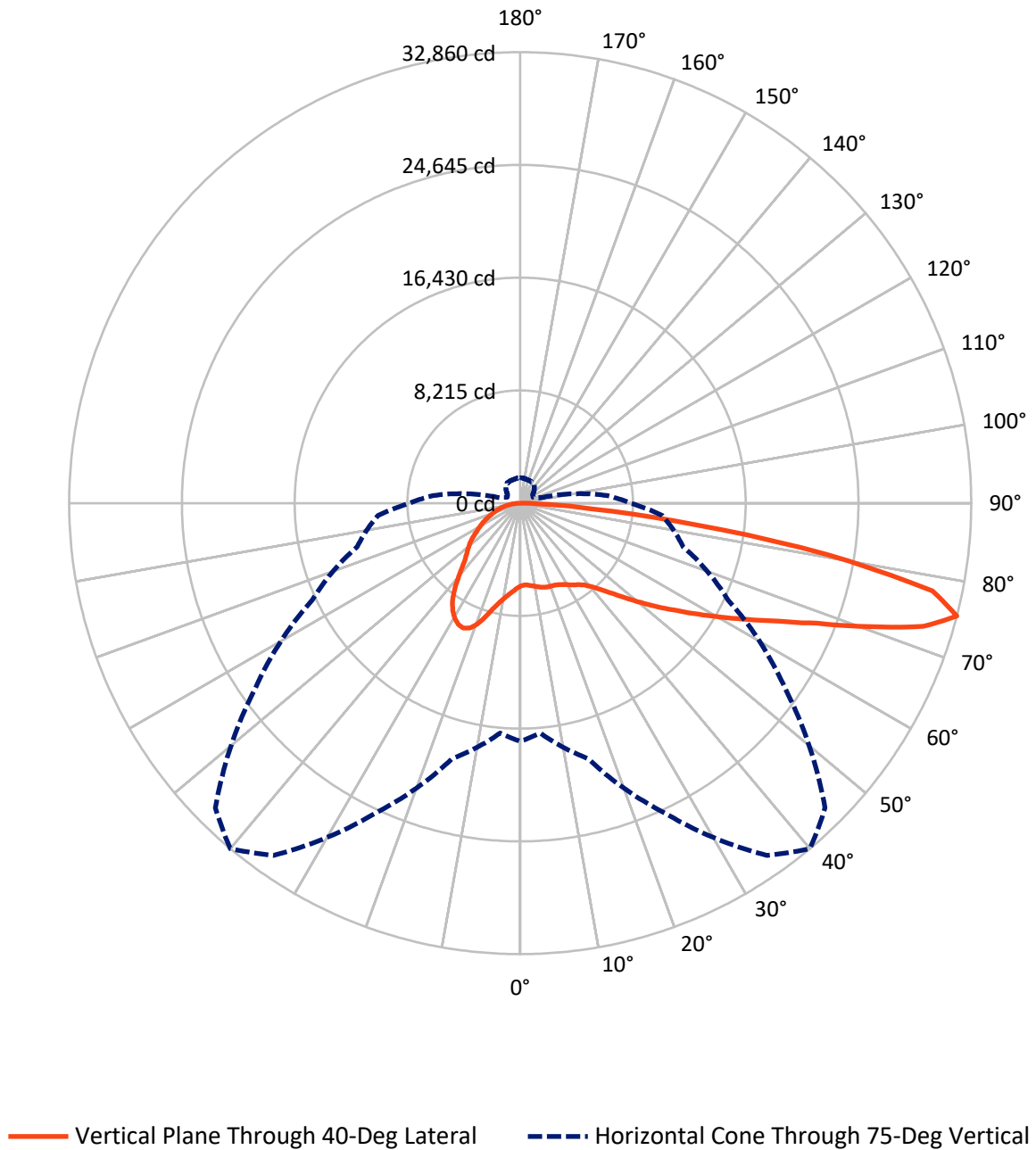
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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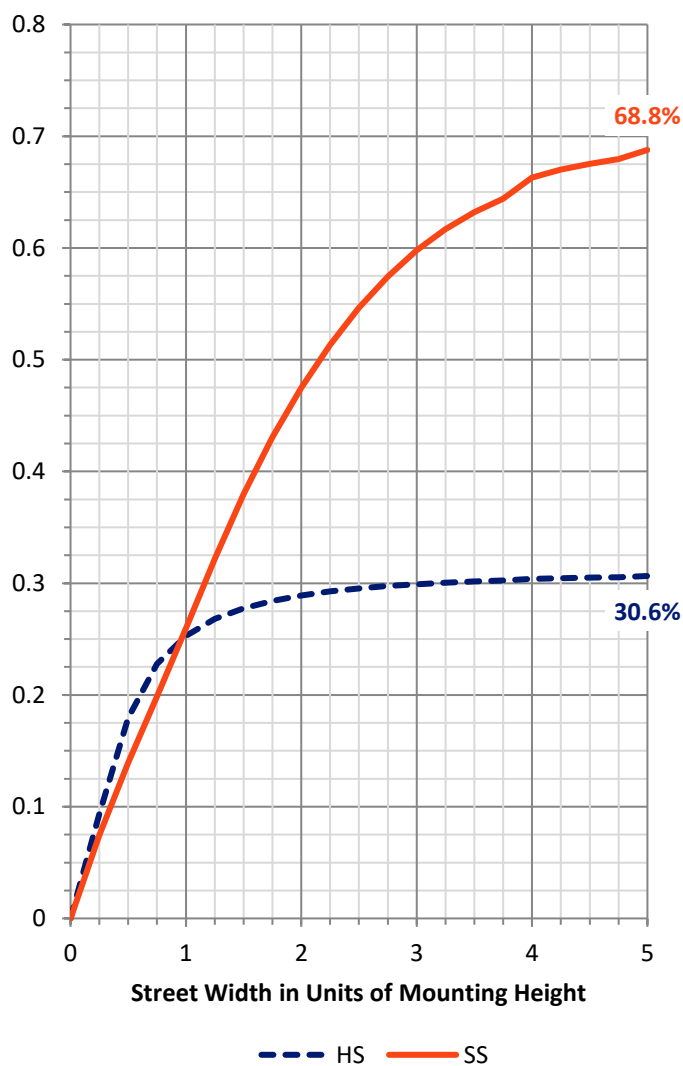
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16357.6	0.0	16357.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	36437.3	0.0	36437.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	52795.0	0.0	52795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.6	1.1
10°-20°	2023.3	3.8
20°-30°	3694.4	7.0
30°-40°	5239.6	9.9
40°-50°	7075.1	13.4
50°-60°	9517.9	18.0
60°-70°	12080.3	22.9
70°-80°	10963.7	20.8
80°-90°	1598.1	3.0
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°	52795.0	100.0
0°-180°	52795.0	100.0

Coefficient of Utilization



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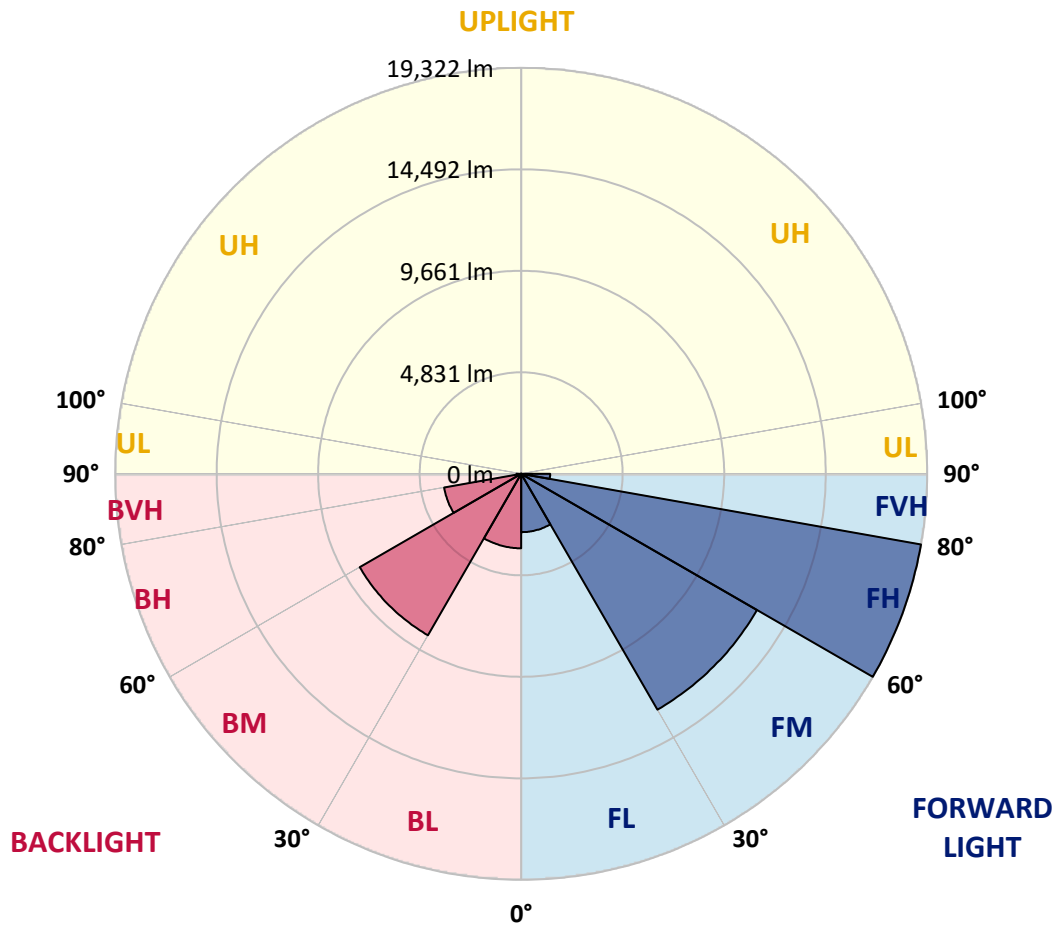
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2777.1	5.3			
FM	(30°-60°)	12960.0	24.5			
FH	(60°-80°)	19322.2	36.6			G5
FVH	(80°-90°)	1378.1	2.6			G5
BL	(0°-30°)	3543.2	6.7	B4/5000		
BM	(30°-60°)	8872.6	16.8	B5		
BH	(60°-80°)	3721.9	7.0	B4/5000		G4/5000
BVH	(80°-90°)	220.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2
2.5°	5944.8	5978.4	5970.0	5958.8	5958.8	5961.6	5958.8	5978.4	5998.0	6017.6	6048.4
5°	6006.4	6040.0	6023.2	6009.2	5998.0	5995.2	5986.8	5984.0	5995.2	6020.4	6062.4
7.5°	6126.8	6160.4	6135.2	6110.0	6087.6	6076.4	6065.2	6048.4	6040.0	6054.0	6112.8
10°	6261.2	6294.8	6264.0	6219.2	6182.8	6168.8	6157.6	6140.8	6129.6	6138.0	6202.4
12.5°	6395.6	6429.2	6387.2	6325.6	6278.0	6269.6	6255.6	6250.0	6247.2	6244.4	6308.8
15°	6521.6	6549.6	6496.4	6423.6	6373.2	6359.2	6345.2	6353.6	6367.6	6384.4	6457.2
17.5°	6619.6	6647.6	6569.2	6474.0	6426.4	6420.8	6412.4	6440.4	6479.6	6521.6	6611.2
20°	6709.2	6737.2	6636.4	6507.6	6451.6	6451.6	6454.4	6513.2	6569.2	6630.8	6754.0
22.5°	6835.2	6857.6	6734.4	6558.0	6476.8	6482.4	6504.8	6563.6	6633.6	6717.6	6888.4
25°	7022.8	7039.6	6888.4	6653.2	6560.8	6577.6	6597.2	6625.2	6692.4	6790.4	7020.0
27.5°	7325.3	7339.3	7140.4	6821.2	6681.2	6709.2	6737.2	6717.6	6748.4	6832.4	7126.4
30°	7750.9	7759.3	7507.3	7084.4	6885.6	6899.6	6905.2	6824.0	6765.2	6832.4	7202.1
32.5°	8254.9	8252.1	7952.5	7403.7	7118.0	7104.0	7056.4	6896.8	6759.6	6818.4	7269.3
35°	9036.2	9005.4	8618.9	7851.7	7381.3	7294.5	7182.5	6978.0	6787.6	6804.4	7328.1
37.5°	10329.8	10234.6	9699.8	8585.3	7773.3	7552.1	7386.9	7109.6	6849.2	6798.8	7398.1
40°	11788.7	11668.3	11080.3	9590.6	8361.3	8005.7	7739.7	7297.3	6950.0	6824.0	7501.7
42.5°	13519.2	13348.4	12715.6	10775.1	9106.2	8590.9	8190.5	7535.3	7098.4	6905.2	7641.7
45°	15644.6	15417.8	14521.7	12110.8	10044.2	9358.2	8823.4	7896.5	7325.3	7062.0	7851.7
47.5°	17792.3	17848.3	16574.2	13639.7	11169.9	10304.6	9615.8	8439.7	7655.7	7314.1	8190.5
50°	20074.5	20113.7	18615.6	15333.8	12446.8	11374.3	10506.3	9047.4	8114.9	7672.5	8697.3
52.5°	21855.4	21861.0	20469.3	17106.3	13776.9	12550.4	11466.7	9741.8	8646.9	8148.5	9372.2
55°	22969.8	22955.8	21768.6	18783.6	15305.8	13785.3	12530.8	10531.5	9296.6	8708.5	10220.6
57.5°	23779.1	23737.1	22664.6	20225.7	16935.5	15244.2	13734.9	11427.5	10063.8	9375.0	11337.9
60°	24087.1	24061.9	23272.3	21471.7	18649.2	16857.1	15123.7	12430.0	10934.7	10161.8	12774.4
62.5°	24204.7	24252.3	23868.7	22678.6	20483.3	18643.6	16649.8	13628.5	11914.7	11052.3	14289.3
65°	24619.1	24705.9	24627.5	24257.9	22555.4	20735.3	18674.4	15053.7	12984.4	12007.2	15871.4
67.5°	25439.6	25526.4	25560.0	26148.0	25086.8	23342.3	21200.1	16829.1	14236.1	12998.4	17061.5
70°	25420.0	25394.8	25988.4	27651.7	28256.6	26951.7	24605.1	19013.2	15728.6	13821.7	17212.7
72.5°	23137.9	22936.2	24339.1	27634.9	30894.3	30720.7	28763.4	21830.2	17016.7	13922.5	14936.1
75°	17358.3	16820.7	19298.8	24904.8	31334.0	32860.1	31406.8	23577.5	16711.4	12301.2	10394.3
77.5°	7423.3	6882.8	9803.4	18436.4	28043.8	30717.9	28981.8	20570.1	13340.0	8134.5	5104.7
80°	1943.3	1940.5	2962.6	8358.5	19072.0	22684.2	19900.8	13284.0	7622.1	2906.6	1408.5
82.5°	803.7	784.0	1089.3	3251.0	9319.0	12729.6	10388.7	5925.2	2752.6	786.8	467.6
85°	299.6	296.8	529.2	1122.9	3287.4	5250.3	3799.8	1514.9	686.0	383.6	210.0
87.5°	84.0	81.2	114.8	389.2	800.9	1215.3	649.6	249.2	193.2	151.2	61.6
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°	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2
2.5°	6056.8	6070.8	6096.0	6115.6	6140.8	6168.8	6208.0	6233.2	6258.4	6275.2	6264.0
5°	6082.0	6112.8	6177.2	6241.6	6317.2	6387.2	6468.4	6527.2	6574.8	6588.8	6594.4
7.5°	6138.0	6188.4	6297.6	6406.8	6527.2	6642.0	6759.6	6860.4	6941.6	6972.4	6975.2
10°	6236.0	6303.2	6457.2	6611.2	6770.8	6947.2	7098.4	7244.1	7358.9	7406.5	7409.3
12.5°	6359.2	6443.2	6644.8	6857.6	7078.8	7322.5	7518.5	7697.7	7840.5	7904.9	7904.9
15°	6518.8	6628.0	6885.6	7171.2	7496.1	7834.9	8084.1	8282.9	8442.5	8520.9	8515.3
17.5°	6692.4	6838.0	7162.8	7594.1	8058.9	8504.1	8795.4	8941.0	9106.2	9181.8	9179.0
20°	6860.4	7039.6	7504.5	8131.7	8750.5	9223.8	9459.0	9498.2	9509.4	9517.8	9540.2
22.5°	7034.0	7274.9	7932.9	8809.4	9473.0	9800.6	9834.2	9666.2	9431.0	9321.8	9352.6
25°	7224.5	7543.7	8492.9	9557.0	10094.6	10133.8	9876.2	9467.4	9022.2	8817.8	8848.6
27.5°	7409.3	7854.5	9165.0	10271.0	10542.7	10198.2	9643.8	9064.2	8526.5	8310.9	8336.1
30°	7594.1	8210.1	9907.0	10895.5	10747.1	10038.6	9277.0	8630.1	8089.7	7862.9	7888.1
32.5°	7781.7	8624.5	10761.1	11346.3	10710.7	9699.8	8820.6	8142.9	7666.9	7428.9	7459.7
35°	7994.5	9134.2	11570.3	11592.7	10467.1	9201.4	8218.5	7560.5	7146.0	6955.6	6997.6
37.5°	8271.7	9781.0	12284.4	11654.3	10041.4	8470.5	7470.9	6871.6	6530.0	6443.2	6504.8
40°	8616.1	10559.5	12830.4	11556.3	9411.4	7582.9	6653.2	6174.4	5981.2	6000.8	6068.0
42.5°	9064.2	11430.3	13214.0	11304.3	8534.9	6667.2	5936.4	5723.6	5816.0	5894.4	5967.2
45°	9646.6	12334.8	13452.0	10875.9	7543.7	5891.6	5513.5	5563.9	5634.0	5642.4	5698.4
47.5°	10391.5	13250.4	13608.9	10229.0	6532.8	5345.5	5244.7	5255.9	5241.9	5183.1	5227.9
50°	11321.1	14140.9	13748.9	9372.2	5673.2	5003.9	4869.5	4830.3	4637.1	4446.7	4471.9
52.5°	12379.6	14958.5	13807.7	8308.1	5003.9	4718.3	4499.9	4253.5	3892.2	3833.4	3853.0
55°	13555.7	15714.6	13656.5	7000.4	4441.1	4351.5	4021.1	3724.2	3685.0	3634.6	3643.0
57.5°	14961.3	16529.4	13348.4	5541.5	3864.2	3923.0	3601.0	3634.6	3564.6	3486.2	3472.2
60°	16498.6	17372.3	12808.0	4211.5	3267.8	3388.2	3491.8	3489.0	3469.4	3405.0	3382.6
62.5°	17881.9	17926.7	11743.9	3225.8	2744.2	2973.8	3256.6	3253.8	3237.0	3200.6	3186.6
65°	18705.2	17842.7	9968.6	2539.8	2312.9	2632.2	2937.4	2959.8	2962.6	2959.8	2959.8
67.5°	18559.6	16859.9	7532.5	2021.7	1957.3	2284.9	2621.0	2651.8	2674.2	2679.8	2685.4
70°	16913.1	14700.9	4911.5	1612.9	1640.9	1979.7	2321.3	2352.1	2371.7	2394.2	2405.4
72.5°	13183.2	10808.7	2811.4	1304.9	1363.7	1716.5	2024.5	2060.9	2072.1	2114.1	2130.9
75°	8033.7	6356.4	1517.7	1027.7	1120.1	1467.3	1730.5	1772.5	1792.1	1842.5	1848.1
77.5°	3819.4	2752.6	865.3	800.9	901.7	1198.5	1461.7	1509.3	1456.1	1484.1	1461.7
80°	1290.9	1022.1	546.0	610.4	688.8	935.3	1170.5	1218.1	1106.1	1100.5	1089.3
82.5°	450.8	414.4	347.2	406.0	445.2	669.2	884.9	946.5	823.3	820.5	781.2
85°	176.4	168.0	193.2	221.2	266.0	411.6	582.4	613.2	506.8	408.8	403.2
87.5°	36.4	39.2	47.6	50.4	81.2	142.8	210.0	257.6	204.4	173.6	159.6
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)