

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: P957366

Luminaire Tested: **GALN-SB9D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85803 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 658
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

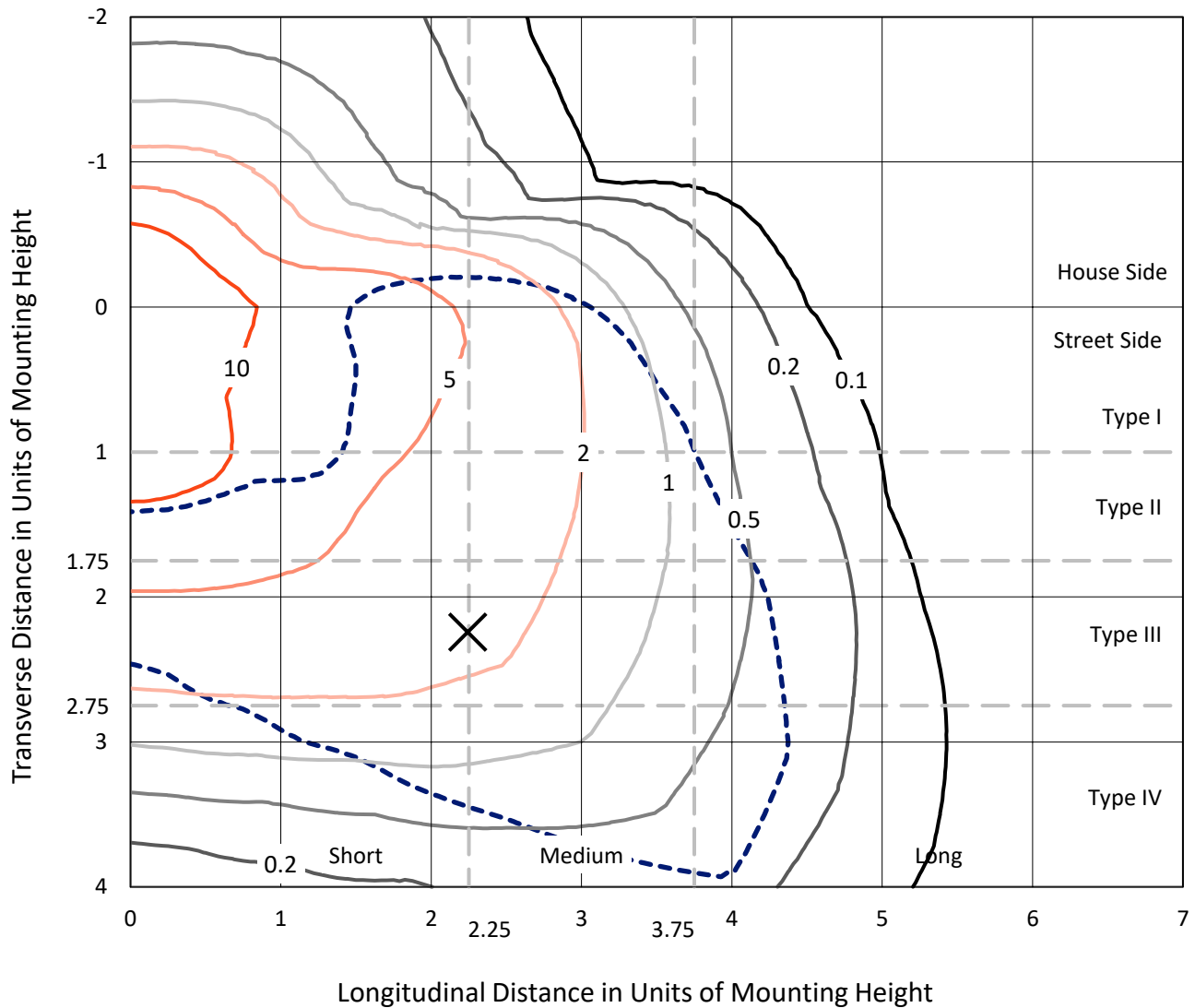


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

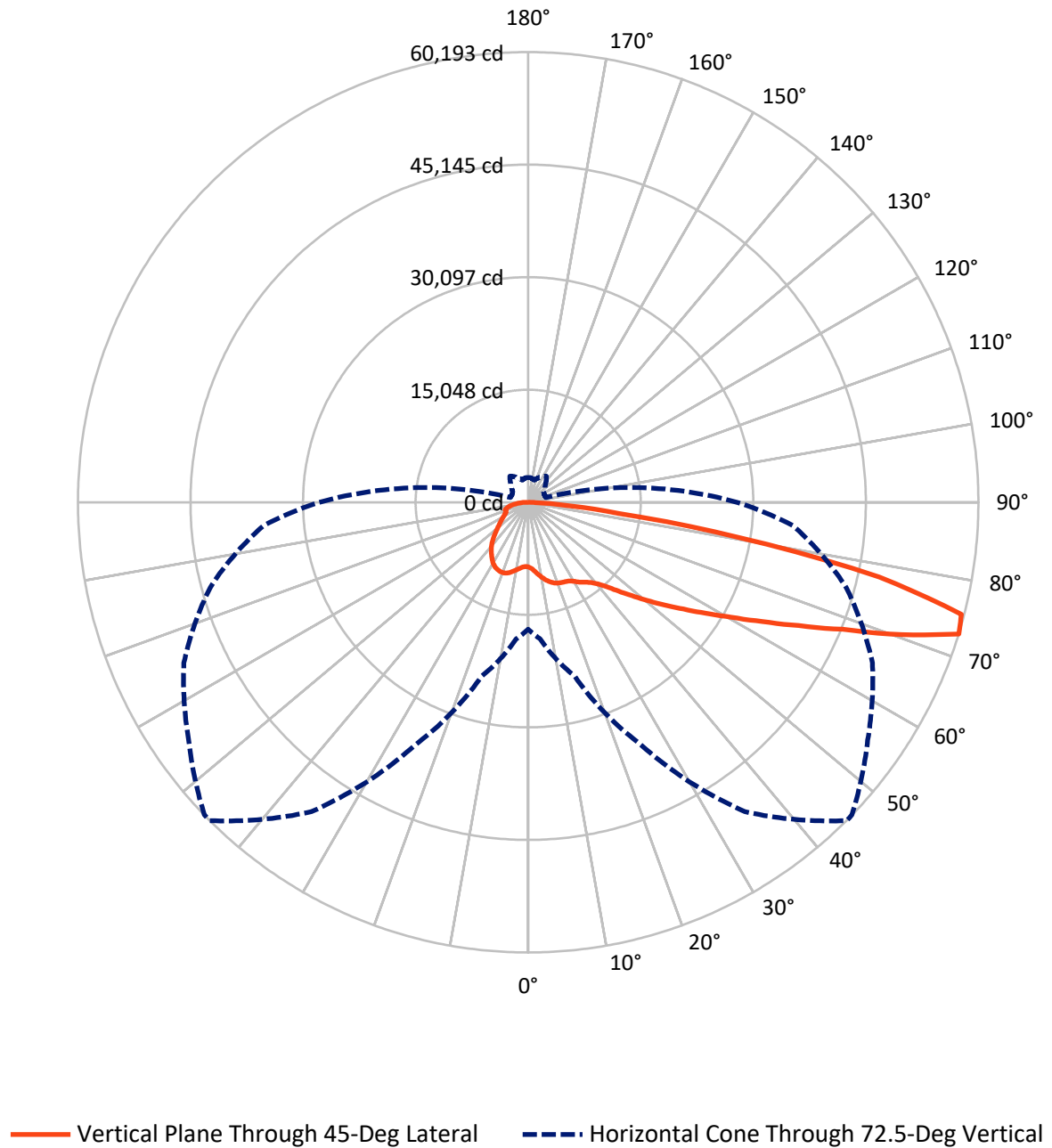


Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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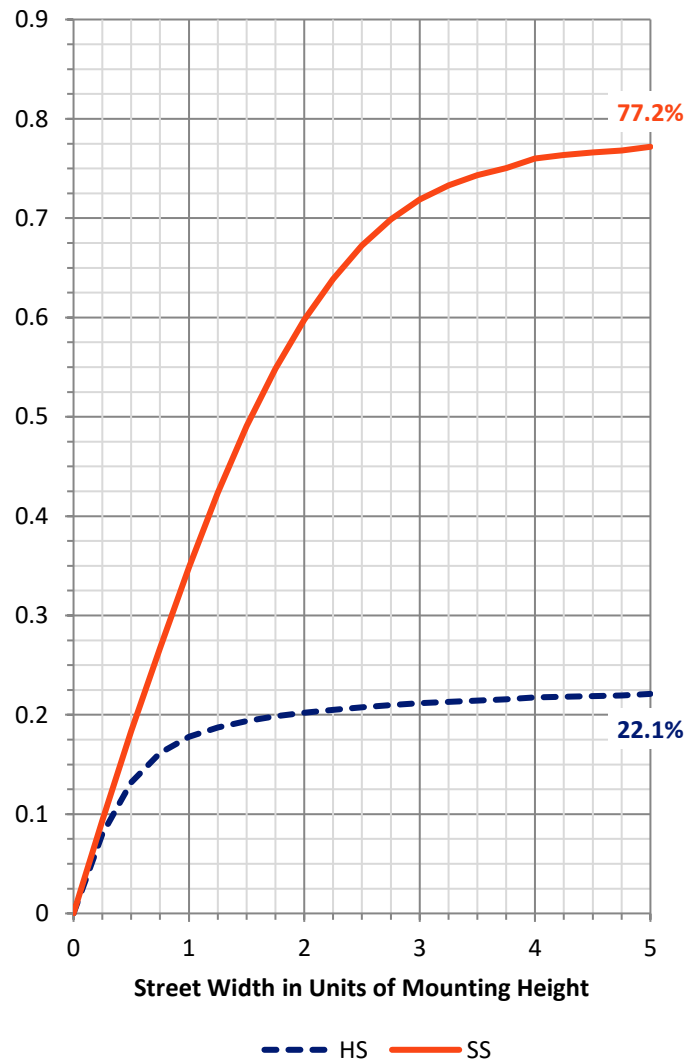
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19397.1	0.0	19397.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	66405.9	0.0	66405.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	85803.0	0.0	85803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.0	1.0
10°-20°	2937.3	3.4
20°-30°	5109.7	6.0
30°-40°	7325.0	8.5
40°-50°	10314.0	12.0
50°-60°	15798.1	18.4
60°-70°	22885.9	26.7
70°-80°	18275.7	21.3
80°-90°	2276.2	2.7
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°	85803.0	100.0
0°-180°	85803.0	100.0

Coefficient of Utilization



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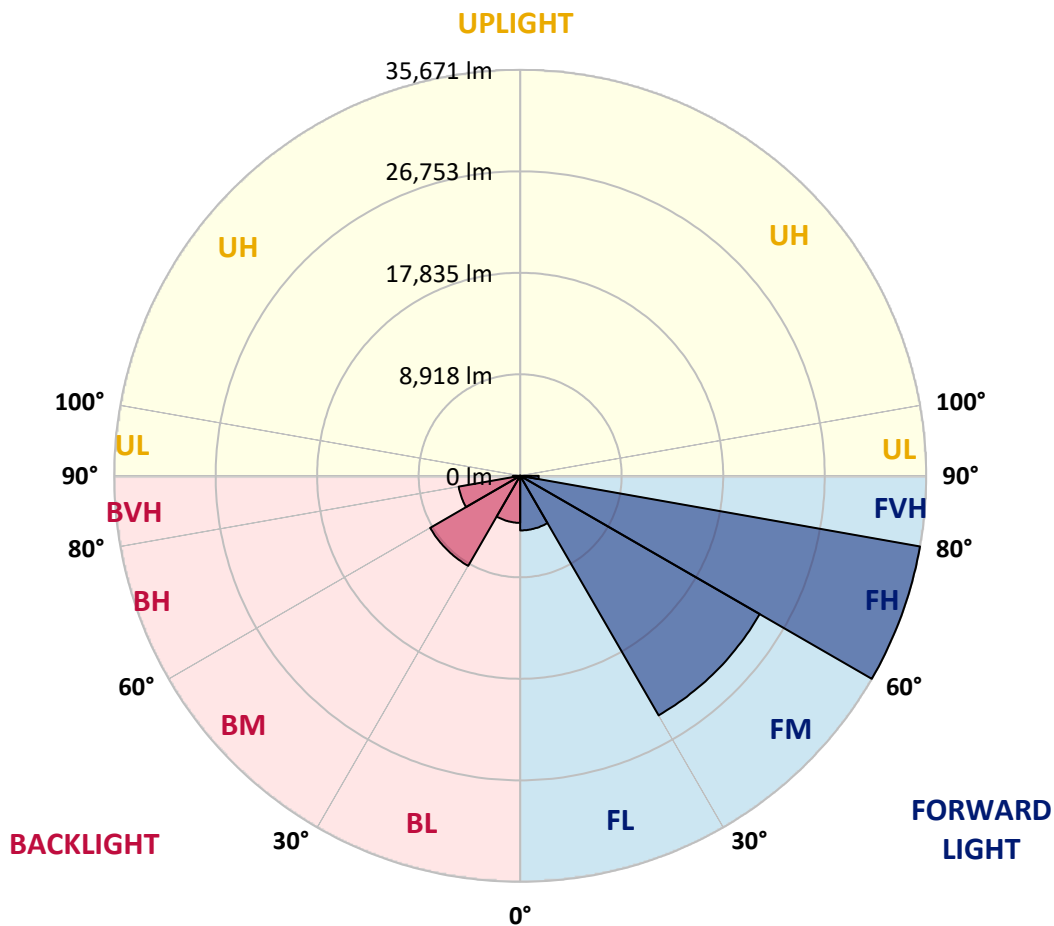
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4798.2	5.6			
FM	(30°-60°)	24303.9	28.3			
FH	(60°-80°)	35670.8	41.6			G5
FVH	(80°-90°)	1633.0	1.9			G5
BL	(0°-30°)	4129.8	4.8	B4/5000		
BM	(30°-60°)	9133.3	10.6	B5		
BH	(60°-80°)	5490.8	6.4	B5		G5
BVH	(80°-90°)	643.2	0.7			G4/750
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9
2.5°	8994.9	9053.6	8999.4	8949.7	8927.1	8868.3	8863.8	8827.6	8805.0	8741.7	8723.7
5°	9623.1	9700.0	9609.6	9510.1	9419.7	9275.1	9257.0	9153.1	9035.5	8899.9	8823.1
7.5°	10332.8	10400.6	10296.6	10147.5	9989.3	9749.7	9745.2	9555.3	9370.0	9139.5	9008.4
10°	10952.0	11042.4	10902.3	10698.9	10500.0	10228.8	10197.2	9980.2	9745.2	9446.9	9248.0
12.5°	11498.9	11562.2	11426.6	11178.0	10947.5	10676.3	10635.6	10396.1	10133.9	9794.9	9541.8
15°	11932.9	12014.2	11833.4	11566.8	11322.7	11056.0	11019.8	10802.9	10540.7	10183.6	9858.2
17.5°	12217.6	12285.4	12100.1	11801.8	11566.8	11345.3	11318.1	11137.3	10906.8	10545.2	10197.2
20°	12326.1	12398.4	12204.1	11901.2	11684.3	11512.5	11498.9	11367.9	11209.7	10879.7	10527.1
22.5°	12434.6	12502.4	12249.3	11932.9	11743.0	11634.6	11630.0	11544.2	11480.9	11209.7	10866.1
25°	12873.0	12891.1	12552.1	12095.6	11824.4	11729.5	11725.0	11720.4	11747.6	11535.1	11232.3
27.5°	13252.7	13248.2	12958.9	12529.5	12109.2	11910.3	11905.8	11951.0	12036.8	11860.6	11612.0
30°	13808.7	13759.0	13415.4	12968.0	12583.8	12276.4	12249.3	12208.6	12276.4	12136.3	11991.6
32.5°	14988.4	14830.2	14274.2	13478.7	12977.0	12742.0	12705.8	12452.7	12479.8	12393.9	12321.6
35°	16678.9	16471.0	15729.7	14446.0	13465.2	13130.7	13112.6	12791.7	12737.4	12660.6	12687.7
37.5°	18690.3	18432.7	17569.3	15847.2	14305.9	13582.7	13555.6	13266.3	13044.8	12963.4	13117.1
40°	20710.8	20385.3	19671.2	17555.8	15544.4	14337.5	14251.6	13813.2	13560.1	13424.5	13749.9
42.5°	22672.5	22401.3	21791.1	19472.3	17072.1	15440.4	15250.6	14500.2	14310.4	14183.8	14771.4
45°	24408.1	24164.1	23716.6	21519.9	18862.1	16941.1	16755.7	15530.8	15472.1	15472.1	16321.8
47.5°	25818.4	25764.2	25289.6	23608.1	20972.9	18649.6	18328.7	16963.7	17121.9	17365.9	18523.1
50°	27382.3	27233.2	26726.9	25664.7	23454.4	20606.8	20344.6	18722.0	19314.1	19983.0	21705.2
52.5°	28819.7	28901.1	28336.1	27807.2	26256.8	22790.0	22328.9	20796.6	22075.8	23183.2	25434.2
55°	30297.7	30302.3	30144.1	30071.7	29194.9	25203.7	24697.4	23291.7	25325.7	26699.8	29782.5
57.5°	31685.4	31694.4	31929.5	32566.8	32603.0	27988.0	27414.0	26356.3	28937.2	30338.4	34266.3
60°	32923.9	32987.2	33629.0	35120.6	35599.7	31179.1	30636.7	29976.8	32670.8	34081.0	38980.7
62.5°	33339.7	33570.2	34998.6	37118.5	38560.4	35093.5	34560.1	34166.9	36594.1	37905.0	42922.2
65°	32634.6	33163.4	35925.2	38768.3	41606.9	39744.6	39215.8	38786.4	40671.2	41905.2	46158.5
67.5°	30903.4	31586.0	35870.9	40499.4	45304.2	45340.4	44847.7	43839.7	45042.1	45516.7	47211.7
70°	26342.7	27364.2	32711.4	41145.8	49548.5	52992.8	52518.2	49923.7	49403.9	47107.7	44246.5
72.5°	16972.7	18346.8	24087.2	35825.7	50493.2	60193.2	60166.1	55415.5	50782.5	44016.0	35486.7
75°	6192.4	7033.2	11191.6	22487.1	42384.3	59827.1	60003.4	54475.4	46357.4	33999.6	22107.5
77.5°	2255.5	2467.9	3652.2	8642.3	26067.0	48002.7	48368.8	43550.5	32996.2	17063.1	8759.8
80°	1184.2	1301.8	1871.3	3353.9	11169.0	28507.8	29081.9	25881.7	15508.2	5139.3	2626.1
82.5°	655.4	709.6	1048.6	1821.6	5030.8	12190.5	12534.0	10224.3	5455.7	2178.7	1084.8
85°	352.6	375.2	492.7	994.4	2458.9	4226.2	4321.1	3055.5	2174.1	1279.2	524.3
87.5°	104.0	126.6	162.7	316.4	962.8	949.2	971.8	605.7	858.8	646.4	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°	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9	8655.9
2.5°	8696.5	8683.0	8633.3	8610.7	8583.5	8579.0	8601.6	8606.1	8610.7	8615.2	8633.3
5°	8777.9	8732.7	8687.5	8660.4	8669.4	8673.9	8719.1	8750.8	8773.4	8791.5	8800.5
7.5°	8936.1	8899.9	8823.1	8818.6	8832.1	8872.8	8931.6	9003.9	9044.6	9076.2	9085.3
10°	9171.1	9103.3	9012.9	9026.5	9053.6	9112.4	9234.4	9293.2	9361.0	9419.7	9406.2
12.5°	9410.7	9351.9	9248.0	9257.0	9302.2	9406.2	9523.7	9596.0	9641.2	9686.4	9704.5
15°	9722.6	9618.6	9505.6	9505.6	9587.0	9700.0	9754.2	9813.0	9840.1	9889.8	9907.9
17.5°	10043.5	9907.9	9758.7	9749.7	9849.1	9903.4	9935.0	9944.1	9953.1	10007.3	10025.4
20°	10364.4	10215.3	10002.8	9984.7	10007.3	9998.3	9993.8	9984.7	9998.3	10066.1	10093.2
22.5°	10680.8	10509.1	10215.3	10133.9	10070.6	9984.7	9980.2	9975.7	9984.7	10052.5	10097.7
25°	11051.5	10843.5	10450.3	10206.2	9993.8	9876.3	9889.8	9894.3	9903.4	9957.6	10029.9
27.5°	11453.7	11223.2	10667.3	10183.6	9799.4	9718.1	9695.5	9709.0	9740.7	9826.5	9912.4
30°	11856.0	11584.8	10866.1	10093.2	9555.3	9442.3	9370.0	9401.7	9501.1	9587.0	9681.9
32.5°	12222.2	11951.0	11024.3	9894.3	9243.5	9067.2	8972.3	9012.9	9112.4	9144.0	9257.0
35°	12651.6	12344.2	11092.1	9577.9	8904.5	8633.3	8506.7	8447.9	8497.7	8466.0	8565.5
37.5°	13130.7	12809.8	11083.1	9162.1	8506.7	8194.8	8018.5	7797.0	7693.1	7584.6	7652.4
40°	13840.3	13379.3	10974.6	8660.4	8014.0	7729.2	7412.8	7037.7	6802.6	6590.2	6603.8
42.5°	14807.6	14170.3	10775.7	8108.9	7458.0	7191.4	6762.0	6323.5	5952.9	5600.3	5568.7
45°	16249.5	15205.4	10527.1	7521.3	6856.9	6594.7	6129.2	5636.5	5216.1	4764.1	4709.9
47.5°	18328.7	16597.5	10292.1	6852.4	6224.1	5984.5	5564.2	5107.6	4610.4	4172.0	4122.3
50°	21185.4	18595.4	10075.1	6201.5	5600.3	5419.5	5085.0	4619.5	4117.7	3765.2	3742.6
52.5°	24819.5	21311.9	9984.7	5573.2	5017.2	4949.4	4682.7	4248.8	3774.2	3475.9	3453.3
55°	28991.5	24561.8	9984.7	4972.0	4506.5	4529.1	4343.7	3941.5	3530.1	3263.5	3236.3
57.5°	33249.3	27852.4	9803.9	4416.1	4072.5	4167.5	4049.9	3697.4	3326.7	3051.0	3005.8
60°	37172.7	30609.6	9071.7	3909.8	3688.3	3837.5	3760.7	3457.8	3005.8	2775.3	2739.1
62.5°	40187.6	32164.5	7661.4	3507.5	3371.9	3543.7	3503.0	3141.4	2947.1	2852.1	2820.5
65°	41697.3	31911.4	5858.0	3150.5	3105.3	3371.9	3286.1	3272.5	3118.8	3010.3	2974.2
67.5°	40770.6	29732.7	4248.8	2888.3	2951.6	3213.7	3543.7	3597.9	3313.2	3100.7	3064.6
70°	36707.1	25791.3	3164.0	2639.7	2757.2	3218.3	4040.9	3765.2	3249.9	3001.3	2960.6
72.5°	27924.7	19232.7	2454.4	2377.5	2504.1	3240.9	4262.4	3688.3	3069.1	3317.7	3290.6
75°	15969.3	10558.8	1970.7	2056.6	2187.7	3028.4	4149.4	3489.5	2929.0	3046.5	3046.5
77.5°	6088.5	4059.0	1627.2	1740.2	1758.3	2644.2	3968.6	3475.9	2788.9	2721.1	2481.5
80°	2110.9	1586.5	1347.0	1383.1	1360.5	2350.4	3805.9	3023.9	2282.6	2043.1	1975.3
82.5°	863.3	791.0	1066.7	1021.5	967.3	1826.1	3073.6	2472.5	1866.8	1649.8	1631.7
85°	375.2	501.7	705.1	619.2	560.5	1265.6	2463.4	2092.8	1577.5	1360.5	1356.0
87.5°	76.8	189.8	298.3	280.2	289.3	845.2	1749.3	1487.1	1116.4	836.2	655.4
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)