

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: P943667

Luminaire Tested: **GALN-SB8B-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943667
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-SB8B-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45564 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 292.8
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



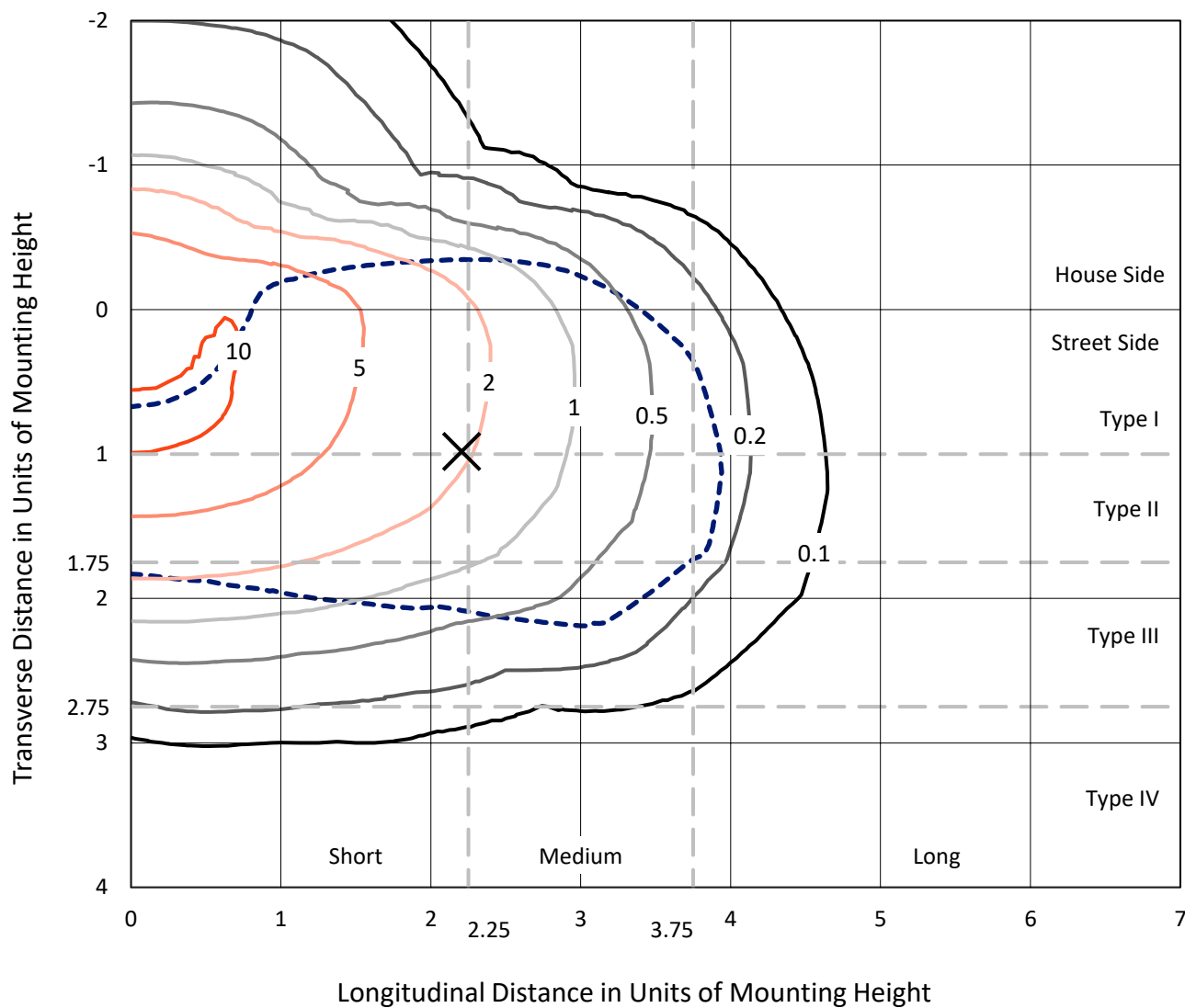
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

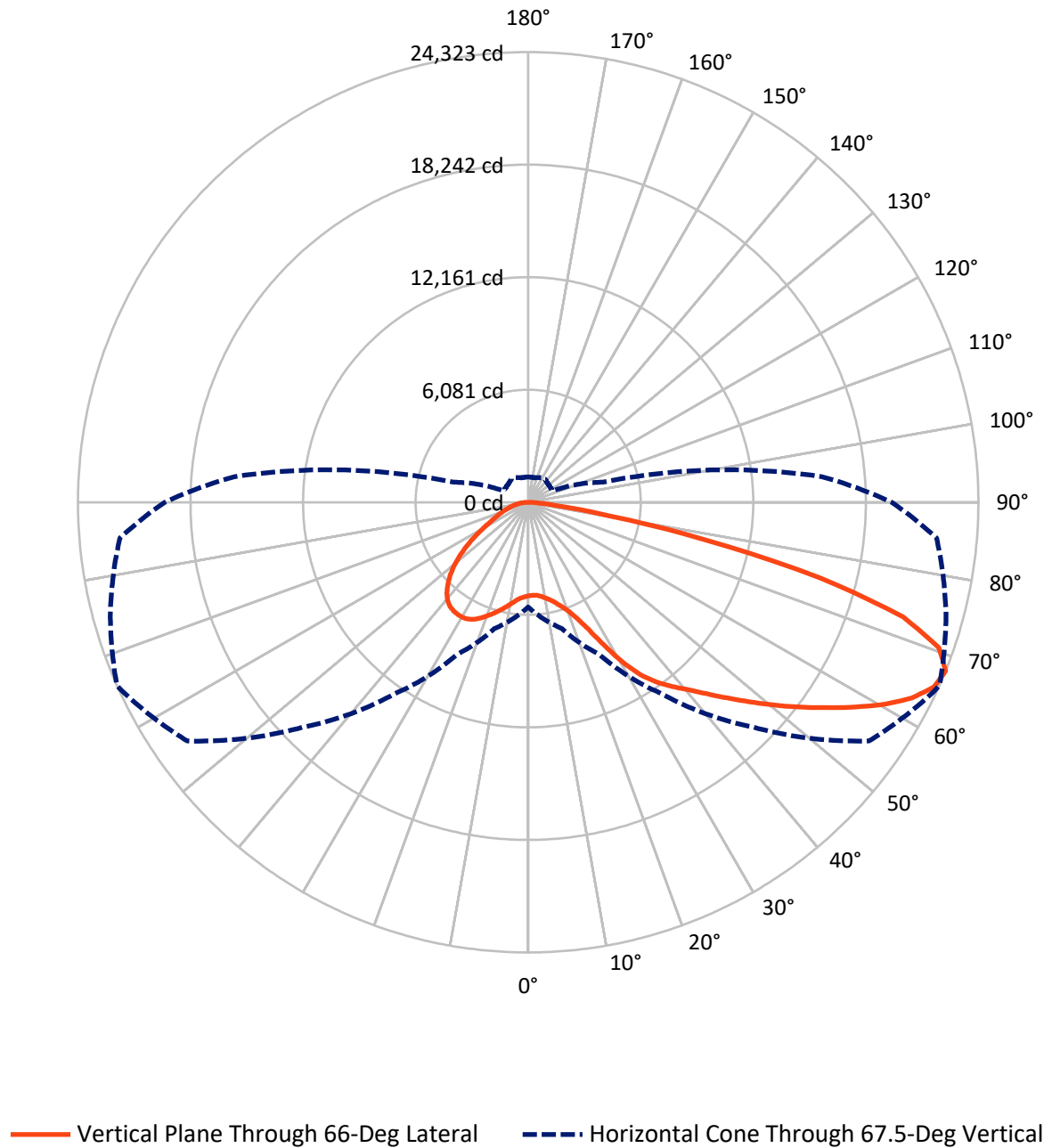


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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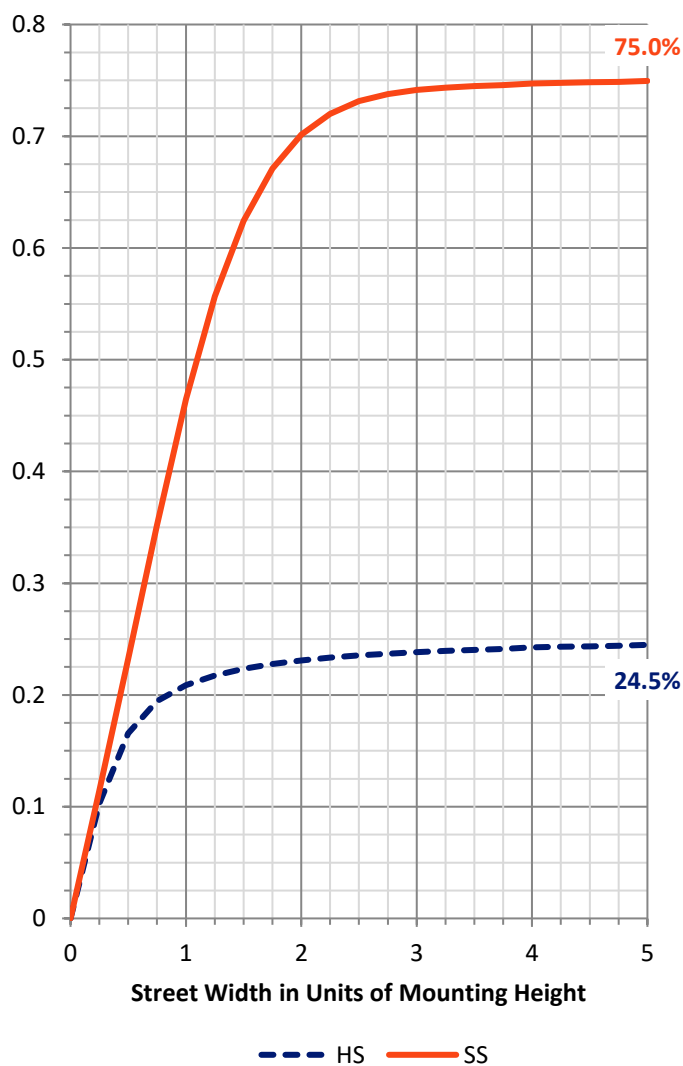
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11329.4	0.0	11329.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	34234.6	0.0	34234.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	45564.0	0.0	45564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.0	1.1
10°-20°	1655.4	3.6
20°-30°	3190.7	7.0
30°-40°	5594.5	12.3
40°-50°	8317.1	18.3
50°-60°	10542.8	23.1
60°-70°	10315.8	22.6
70°-80°	4920.8	10.8
80°-90°	525.9	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°	45564.0	100.0
0°-180°	45564.0	100.0

Coefficient of Utilization



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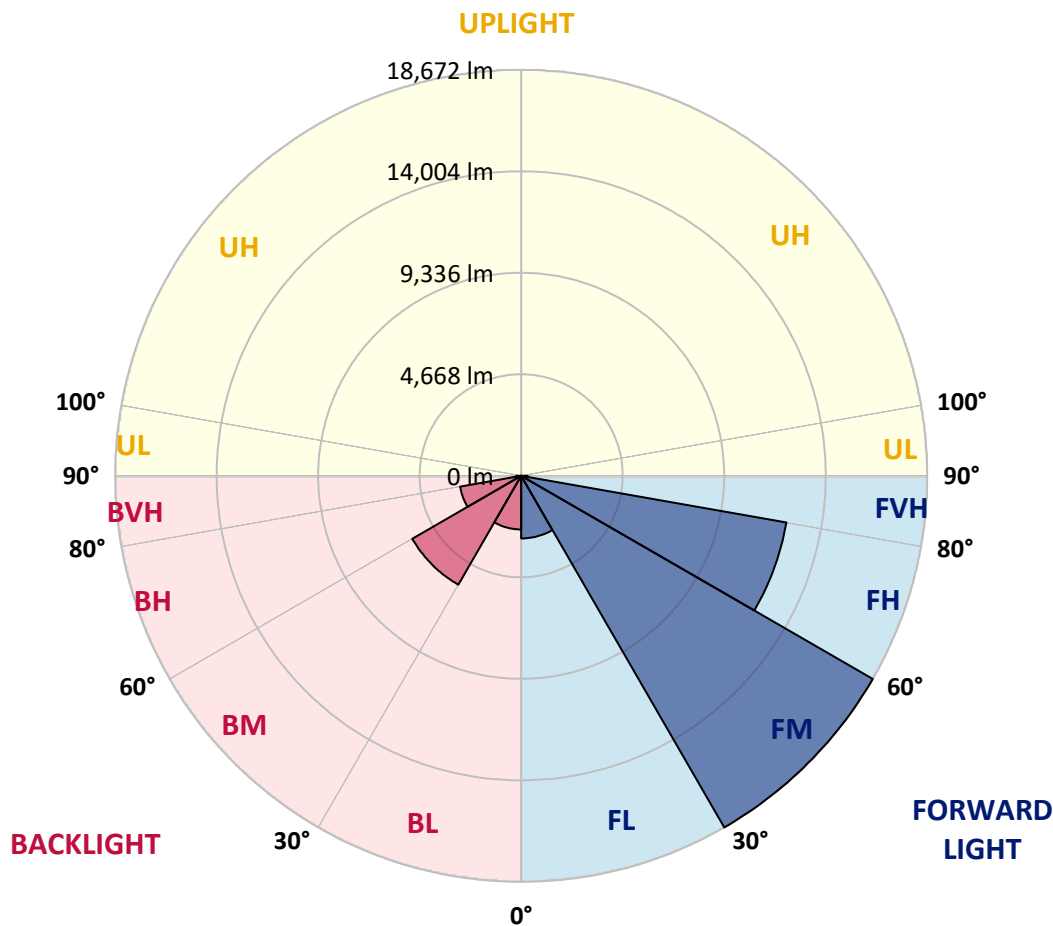
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2879.2	6.3			
FM	(30°-60°)	18671.7	41.0			
FH	(60°-80°)	12385.5	27.2			G5
FVH	(80°-90°)	298.2	0.7			G3/500
BL	(0°-30°)	2467.9	5.4	B3/2500		
BM	(30°-60°)	5782.6	12.7	B4/8500		
BH	(60°-80°)	2851.1	6.3	B4/5000		G4/5000
BVH	(80°-90°)	227.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6
2.5°	5001.0	5029.7	5022.5	5010.6	5008.2	5013.0	5020.1	5027.3	5024.9	5036.9	5056.0
5°	4986.6	5015.3	5013.0	5013.0	5022.5	5041.7	5053.6	5065.6	5053.6	5068.0	5094.3
7.5°	4996.2	5017.7	5027.3	5036.9	5060.8	5096.7	5125.5	5151.8	5137.4	5154.2	5187.7
10°	5118.3	5135.0	5144.6	5144.6	5161.4	5202.1	5230.8	5278.7	5266.7	5293.0	5336.1
12.5°	5340.9	5357.7	5357.7	5348.1	5360.1	5386.4	5396.0	5448.7	5427.1	5470.2	5513.3
15°	5613.8	5647.4	5621.0	5604.3	5609.0	5635.4	5633.0	5673.7	5652.1	5688.0	5726.4
17.5°	5915.5	5958.6	5915.5	5913.1	5903.5	5932.2	5934.6	5970.5	5932.2	5958.6	5984.9
20°	6272.2	6332.0	6296.1	6308.1	6286.5	6298.5	6310.5	6363.1	6303.3	6322.4	6315.3
22.5°	6774.9	6846.7	6808.4	6853.9	6839.5	6830.0	6827.6	6920.9	6827.6	6834.8	6765.3
25°	7507.5	7593.6	7526.6	7588.9	7588.9	7620.0	7655.9	7775.6	7620.0	7574.5	7394.9
27.5°	8589.5	8675.7	8544.0	8582.3	8570.4	8647.0	8608.7	8905.5	8738.0	8663.7	8302.3
30°	9891.8	10045.1	9796.1	9786.5	9774.5	9896.6	9951.7	10148.0	9978.0	9903.8	9468.1
32.5°	11299.5	11459.9	11163.0	11076.9	11031.4	11105.6	11060.1	11218.1	11100.8	10985.9	10447.2
35°	12788.5	12946.5	12664.0	12496.5	12314.5	12158.9	11996.1	12036.8	11926.7	11752.0	11194.2
37.5°	14196.2	14485.9	14186.6	14007.1	13671.9	13367.9	12913.0	12723.9	12621.0	12460.6	11898.0
40°	15630.2	15795.3	15567.9	15414.7	15050.8	14574.4	13846.7	13446.9	13308.0	13152.4	12676.0
42.5°	16685.9	16843.9	16721.8	16616.5	16331.6	15778.6	14837.8	14337.4	14136.3	13961.6	13557.0
45°	17523.8	17641.1	17564.5	17602.8	17480.7	16944.4	15864.8	15292.6	15084.3	14871.3	14552.9
47.5°	17861.3	17985.8	18107.9	18335.3	18543.6	18148.6	16968.4	16326.8	16106.6	15888.7	15575.1
50°	17823.0	17949.9	18304.2	18787.8	19434.2	19302.5	18131.9	17428.0	17224.5	16975.6	16685.9
52.5°	17516.6	17660.2	18115.1	18919.5	19948.9	20166.7	19316.9	18565.2	18373.6	18076.8	17787.1
55°	16712.2	16798.4	17480.7	18620.2	20071.0	20770.0	20477.9	19776.5	19585.0	19170.8	18854.8
57.5°	15220.8	15345.3	16338.8	17813.5	19764.5	21179.4	21497.8	21050.1	20865.8	20269.7	19939.3
60°	13274.5	13473.2	14610.3	16458.5	18984.1	21177.0	22424.2	22302.1	22148.9	21351.7	21007.0
62.5°	11072.1	11301.9	12395.9	14543.3	17619.5	20576.1	23003.6	23350.7	23271.7	22350.0	21909.5
65°	8503.3	8661.3	9750.6	12065.6	15496.1	19285.7	23070.6	24066.5	24080.8	23108.9	22381.1
67.5°	5661.7	6116.6	7062.2	9054.0	12652.1	17176.7	22481.7	24183.8	24322.6	23369.8	22144.1
70°	2762.6	3361.1	4287.6	5884.4	9054.0	13942.4	20942.4	23221.4	23530.2	22608.6	20731.7
72.5°	1146.7	1340.6	1845.7	2903.9	5197.3	9408.3	17849.4	20612.0	21184.2	20032.7	17430.4
75°	773.2	837.9	1055.7	1489.0	2367.6	4639.5	12872.3	15369.2	16290.9	15129.8	12367.2
77.5°	596.1	636.8	768.5	1041.4	1407.6	1754.8	6889.8	9262.2	9738.6	9015.7	6435.0
80°	469.2	500.3	574.6	758.9	998.3	938.4	2348.5	4196.6	4471.9	3751.3	2068.4
82.5°	407.0	418.9	411.8	514.7	663.1	548.2	770.9	1548.9	1709.3	1240.1	675.1
85°	294.5	328.0	342.3	318.4	351.9	277.7	316.0	548.2	603.3	538.6	380.6
87.5°	119.7	177.2	217.9	205.9	129.3	79.0	98.2	160.4	184.3	201.1	124.5
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°	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6	5053.6
2.5°	5058.4	5075.2	5087.2	5101.5	5111.1	5125.5	5154.2	5171.0	5173.3	5185.3	5182.9
5°	5103.9	5127.9	5154.2	5192.5	5235.6	5271.5	5326.6	5364.9	5379.2	5391.2	5388.8
7.5°	5202.1	5235.6	5283.5	5350.5	5412.7	5460.6	5527.7	5573.1	5618.6	5635.4	5637.8
10°	5348.1	5396.0	5465.4	5556.4	5623.4	5685.7	5755.1	5793.4	5838.9	5858.0	5867.6
12.5°	5530.0	5580.3	5671.3	5798.2	5860.4	5903.5	5927.4	5917.9	5927.4	5944.2	5949.0
15°	5738.3	5793.4	5896.3	6032.8	6075.9	6037.6	5984.9	5937.0	5929.8	5934.6	5951.4
17.5°	5984.9	6025.6	6145.3	6260.2	6229.1	6071.1	5956.2	5879.6	5841.3	5829.3	5846.1
20°	6329.6	6329.6	6427.8	6499.6	6291.3	6023.2	5843.7	5719.2	5640.2	5606.7	5599.5
22.5°	6748.6	6710.3	6772.5	6722.2	6279.4	5889.1	5640.2	5424.7	5305.0	5257.1	5250.0
25°	7280.0	7234.5	7217.8	6906.6	6193.2	5676.1	5271.5	5010.6	4905.2	4878.9	4883.7
27.5°	8082.0	7967.1	7749.2	7007.1	6035.2	5340.9	4840.6	4598.8	4538.9	4541.3	4548.5
30°	9149.7	8919.9	8386.0	7023.9	5776.6	4866.9	4400.1	4227.7	4199.0	4211.0	4251.7
32.5°	10138.4	9920.6	9037.2	6947.3	5379.2	4402.5	4005.1	3890.2	3847.1	3861.5	3880.6
35°	10914.1	10854.2	9640.5	6839.5	4890.9	3966.8	3650.8	3552.6	3468.8	3449.7	3464.1
37.5°	11646.6	11622.7	10092.9	6688.7	4407.3	3658.0	3365.9	3236.6	3114.5	3047.5	3049.9
40°	12451.0	12427.0	10389.8	6456.5	3978.8	3389.8	3109.8	2939.8	2789.0	2666.9	2678.8
42.5°	13355.9	13214.7	10531.0	6123.7	3614.9	3162.4	2901.5	2671.7	2473.0	2360.4	2367.6
45°	14344.6	14026.2	10528.6	5700.0	3308.5	2954.1	2678.8	2353.3	2168.9	2063.6	2058.8
47.5°	15393.2	14801.9	10399.4	5230.8	3011.6	2724.3	2334.1	2085.1	1963.0	1898.4	1884.0
50°	16475.2	15527.2	10179.1	4692.2	2707.6	2463.4	2118.7	1948.7	1855.3	1795.5	1773.9
52.5°	17492.7	16185.6	9913.4	4081.7	2398.7	2209.6	2022.9	1891.2	1793.1	1726.0	1697.3
55°	18438.3	16752.9	9537.5	3456.9	2147.4	2039.7	1977.4	1867.3	1754.8	1675.8	1644.7
57.5°	19278.6	17121.6	8888.8	2870.4	1967.8	1922.3	1929.5	1826.6	1697.3	1630.3	1587.2
60°	19977.6	17392.1	7928.8	2326.9	1821.8	1807.4	1855.3	1750.0	1599.2	1522.6	1489.0
62.5°	20396.5	17387.3	6751.0	1905.6	1697.3	1702.1	1757.2	1654.2	1501.0	1429.2	1407.6
65°	20360.6	16961.2	5458.2	1630.3	1577.6	1582.4	1654.2	1548.9	1419.6	1376.5	1374.1
67.5°	19640.0	15922.2	4187.0	1450.7	1446.0	1467.5	1551.3	1477.1	1369.3	1364.6	1371.7
70°	17689.0	13765.3	3016.4	1307.1	1309.5	1340.6	1450.7	1431.6	1343.0	1352.6	1350.2
72.5°	14184.2	10495.1	2025.3	1156.3	1158.7	1208.9	1355.0	1395.7	1316.7	1443.6	1462.7
75°	9446.6	6545.1	1302.3	995.9	998.3	1062.9	1271.2	1326.3	1244.9	1438.8	1450.7
77.5°	4538.9	2942.2	943.2	837.9	837.9	897.7	1098.8	1187.4	1060.5	1118.0	1024.6
80°	1568.0	1106.0	742.1	675.1	660.7	701.4	926.5	1029.4	914.5	842.7	790.0
82.5°	617.6	574.6	596.1	524.3	476.4	502.7	720.6	849.9	672.7	608.1	605.7
85°	354.3	373.5	421.3	347.1	275.3	308.8	529.1	610.5	507.5	447.7	457.2
87.5°	95.8	131.7	193.9	179.5	124.5	131.7	251.4	337.5	292.1	225.0	232.2
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)