

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: P943307

Luminaire Tested: **GALN-SB7D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943307
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-SB7D-722-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59823 lumens
Efficiency: N/A
Efficacy: 116.7 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): 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

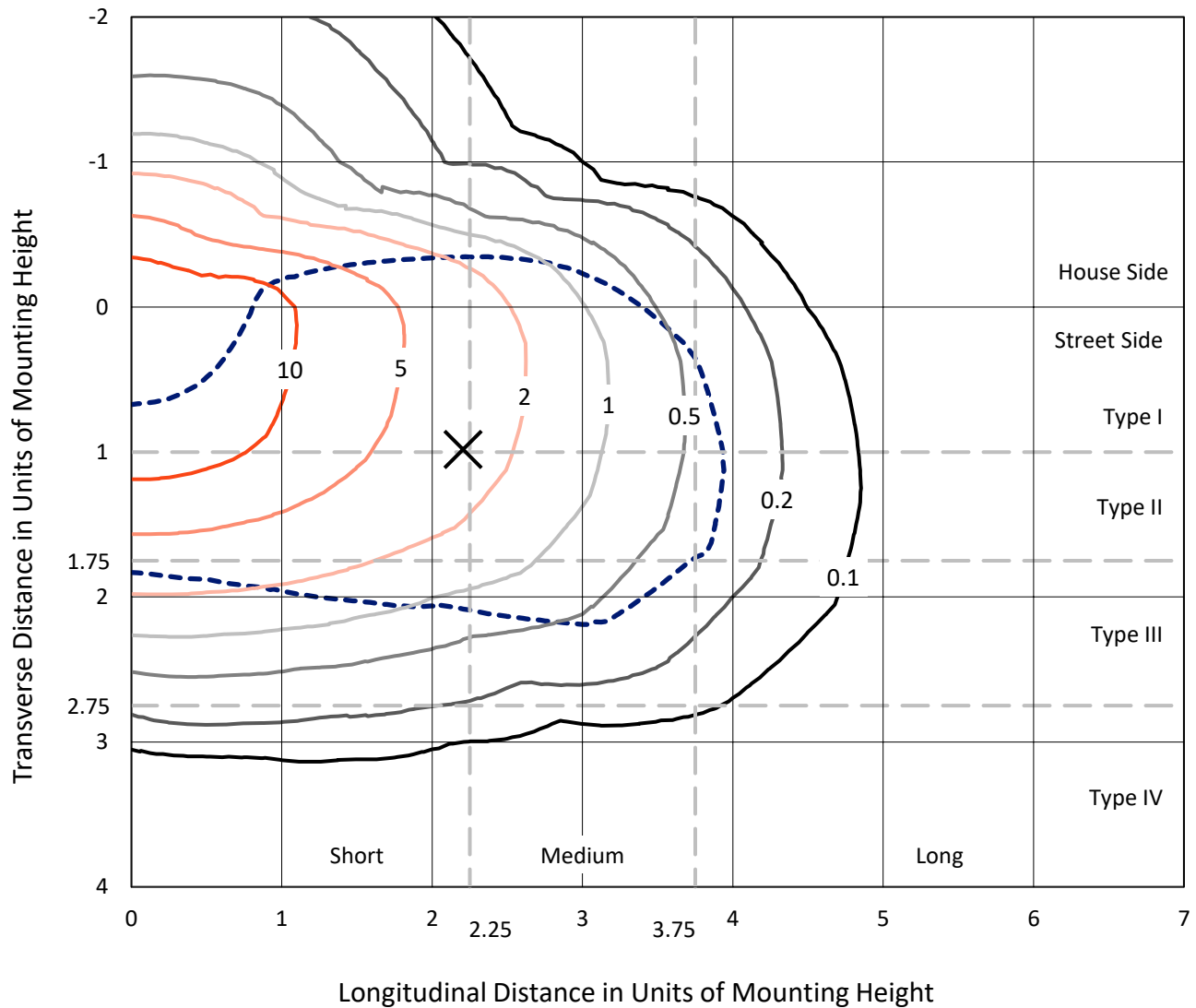


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

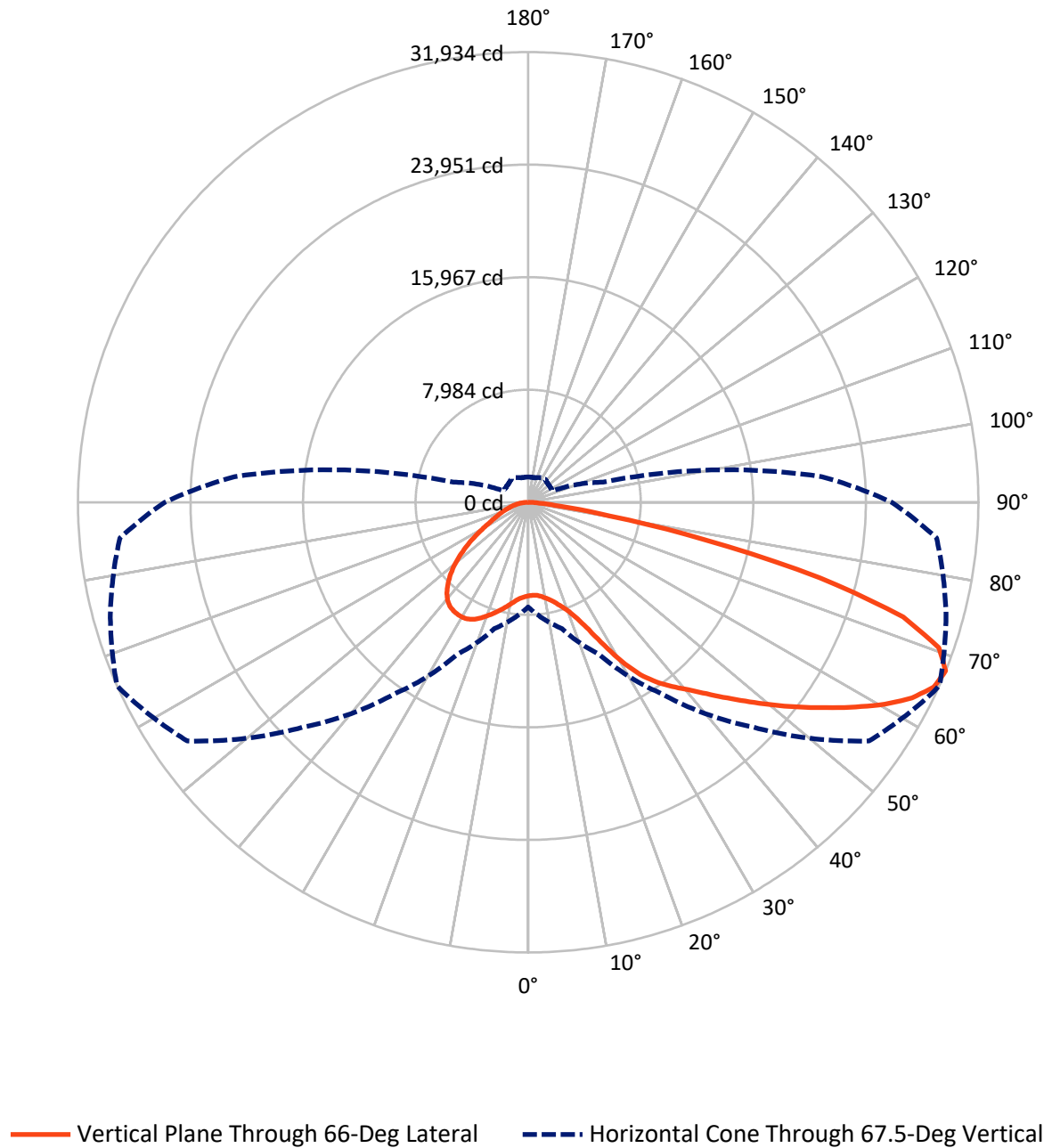


Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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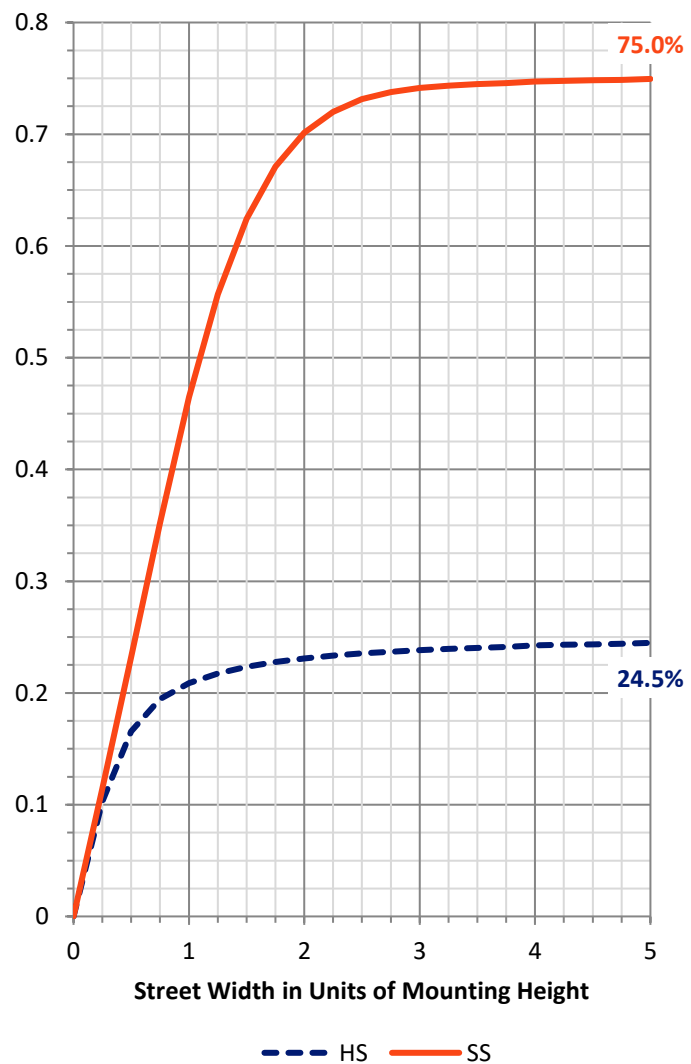
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14874.8	0.0	14874.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	44948.2	0.0	44948.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	59823.0	0.0	59823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.8	1.1
10°-20°	2173.4	3.6
20°-30°	4189.2	7.0
30°-40°	7345.2	12.3
40°-50°	10919.9	18.3
50°-60°	13842.1	23.1
60°-70°	13544.1	22.6
70°-80°	6460.7	10.8
80°-90°	690.5	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°	59823.0	100.0
0°-180°	59823.0	100.0

Coefficient of Utilization



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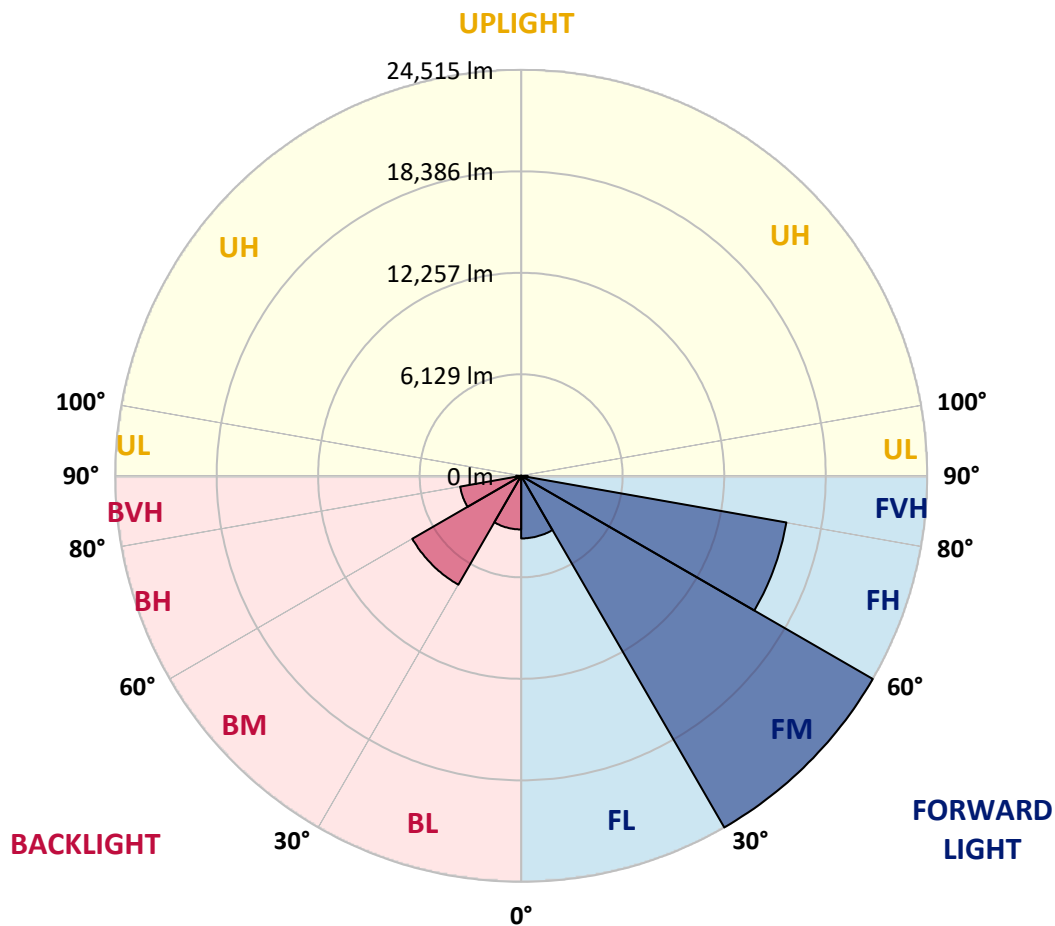
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3780.2	6.3			
FM	(30°-60°)	24515.0	41.0			
FH	(60°-80°)	16261.5	27.2			G5
FVH	(80°-90°)	391.5	0.7			G3/500
BL	(0°-30°)	3240.3	5.4	B4/5000		
BM	(30°-60°)	7592.3	12.7	B4/8500		
BH	(60°-80°)	3743.3	6.3	B4/5000		G4/5000
BVH	(80°-90°)	299.0	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°	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2
2.5°	6566.0	6603.7	6594.3	6578.6	6575.4	6581.7	6591.2	6600.6	6597.4	6613.2	6638.3
5°	6547.2	6584.9	6581.7	6581.7	6594.3	6619.4	6635.2	6650.9	6635.2	6654.0	6688.6
7.5°	6559.7	6588.0	6600.6	6613.2	6644.6	6691.7	6729.5	6764.0	6745.2	6767.2	6811.2
10°	6720.0	6742.0	6754.6	6754.6	6776.6	6830.0	6867.8	6930.6	6914.9	6949.5	7006.1
12.5°	7012.3	7034.3	7034.3	7021.8	7037.5	7072.1	7084.6	7153.8	7125.5	7182.1	7238.6
15°	7370.7	7414.7	7380.1	7358.1	7364.4	7398.9	7395.8	7449.2	7420.9	7468.1	7518.4
17.5°	7766.7	7823.3	7766.7	7763.5	7751.0	7788.7	7791.8	7839.0	7788.7	7823.3	7857.8
20°	8235.0	8313.6	8266.4	8282.2	8253.9	8269.6	8285.3	8354.5	8275.9	8301.0	8291.6
22.5°	8895.1	8989.4	8939.1	8998.8	8979.9	8967.4	8964.2	9086.8	8964.2	8973.7	8882.5
25°	9856.9	9970.0	9882.0	9963.7	9963.7	10004.6	10051.8	10208.9	10004.6	9944.9	9709.1
27.5°	11277.6	11390.7	11217.9	11268.1	11252.4	11353.0	11302.7	11692.5	11472.4	11375.0	10900.4
30°	12987.4	13188.6	12861.7	12849.1	12833.4	12993.7	13066.0	13323.8	13100.6	13003.2	12431.1
32.5°	14835.6	15046.2	14656.4	14543.3	14483.6	14581.0	14521.3	14728.7	14574.7	14423.9	13716.6
35°	16790.6	16998.1	16627.2	16407.2	16168.3	15964.0	15750.3	15803.7	15659.1	15429.7	14697.3
37.5°	18638.8	19019.1	18626.2	18390.5	17950.5	17551.3	16954.1	16705.8	16570.6	16360.0	15621.4
40°	20521.5	20738.4	20439.8	20238.7	19760.9	19135.4	18179.9	17655.0	17472.7	17268.4	16642.9
42.5°	21907.7	22115.1	21954.8	21816.5	21442.5	20716.4	19481.2	18824.2	18560.2	18330.8	17799.6
45°	23007.8	23161.8	23061.2	23111.5	22951.2	22247.1	20829.6	20078.4	19804.9	19525.2	19107.1
47.5°	23450.9	23614.4	23774.7	24073.3	24346.7	23828.1	22278.6	21436.2	21147.0	20861.0	20449.2
50°	23400.7	23567.2	24032.4	24667.3	25516.0	25343.1	23806.1	22882.0	22614.9	22288.0	21907.7
52.5°	22998.3	23186.9	23784.1	24840.2	26191.8	26477.8	25362.0	24375.0	24123.6	23733.8	23353.5
55°	21942.2	22055.4	22951.2	24447.3	26352.1	27269.9	26886.4	25965.5	25714.0	25170.2	24755.3
57.5°	19984.1	20147.5	21451.9	23388.1	25949.7	27807.3	28225.4	27637.6	27395.6	26612.9	26179.2
60°	17428.7	17689.6	19182.6	21609.1	24925.1	27804.2	29441.8	29281.5	29080.3	28033.6	27581.0
62.5°	14537.0	14838.7	16275.2	19094.6	23133.5	27015.3	30202.4	30658.2	30554.4	29344.3	28766.0
65°	11164.4	11371.9	12802.0	15841.4	20345.5	25321.1	30290.4	31598.0	31616.8	30340.7	29385.2
67.5°	7433.5	8030.7	9272.3	11887.3	16611.5	22552.0	29517.2	31752.0	31934.3	30683.3	29074.0
70°	3627.2	4413.0	5629.4	7725.8	11887.3	18305.6	27496.2	30488.4	30893.9	29683.8	27219.6
72.5°	1505.6	1760.2	2423.4	3812.6	6823.7	12352.5	23435.2	27062.4	27813.6	26301.8	22885.2
75°	1015.2	1100.1	1386.1	1955.0	3108.6	6091.4	16900.6	20178.9	21389.0	19864.6	16237.4
77.5°	782.6	836.1	1008.9	1367.3	1848.2	2303.9	9045.9	12160.8	12786.3	11837.1	8448.8
80°	616.1	656.9	754.4	996.4	1310.7	1232.1	3083.4	5509.9	5871.4	4925.3	2715.7
82.5°	534.3	550.0	540.6	675.8	870.6	719.8	1012.1	2033.6	2244.2	1628.1	886.4
85°	386.6	430.6	449.5	418.0	462.0	364.6	414.9	719.8	792.1	707.2	499.8
87.5°	157.2	232.6	286.0	270.3	169.7	103.7	128.9	210.6	242.0	264.0	163.4
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°	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2	6635.2
2.5°	6641.4	6663.4	6679.2	6698.0	6710.6	6729.5	6767.2	6789.2	6792.3	6808.0	6804.9
5°	6701.2	6732.6	6767.2	6817.5	6874.0	6921.2	6993.5	7043.8	7062.6	7078.3	7075.2
7.5°	6830.0	6874.0	6936.9	7024.9	7106.6	7169.5	7257.5	7317.2	7376.9	7398.9	7402.1
10°	7021.8	7084.6	7175.8	7295.2	7383.2	7464.9	7556.1	7606.4	7666.1	7691.3	7703.8
12.5°	7260.6	7326.7	7446.1	7612.7	7694.4	7751.0	7782.4	7769.8	7782.4	7804.4	7810.7
15°	7534.1	7606.4	7741.5	7920.7	7977.3	7927.0	7857.8	7795.0	7785.5	7791.8	7813.8
17.5°	7857.8	7911.3	8068.4	8219.3	8178.4	7971.0	7820.1	7719.5	7669.3	7653.5	7675.5
20°	8310.5	8310.5	8439.3	8533.6	8260.2	7908.1	7672.4	7509.0	7405.2	7361.2	7351.8
22.5°	8860.5	8810.2	8891.9	8825.9	8244.4	7732.1	7405.2	7122.3	6965.2	6902.3	6892.9
25°	9558.3	9498.6	9476.6	9067.9	8131.3	7452.4	6921.2	6578.6	6440.3	6405.7	6412.0
27.5°	10611.2	10460.4	10174.3	9200.0	7923.8	7012.3	6355.4	6038.0	5959.4	5962.5	5972.0
30°	12013.1	11711.3	11010.4	9222.0	7584.4	6390.0	5777.1	5550.8	5513.1	5528.8	5582.2
32.5°	13311.2	13025.2	11865.3	9121.4	7062.6	5780.2	5258.5	5107.6	5051.0	5069.9	5095.0
35°	14329.6	14251.0	12657.4	8979.9	6421.4	5208.2	4793.3	4664.4	4554.4	4529.3	4548.1
37.5°	15291.4	15259.9	13251.5	8781.9	5786.5	4802.7	4419.3	4249.5	4089.2	4001.2	4004.4
40°	16347.5	16316.0	13641.2	8477.0	5223.9	4450.7	4082.9	3859.8	3661.8	3501.5	3517.2
42.5°	17535.6	17350.1	13826.7	8040.1	4746.1	4152.1	3809.5	3507.7	3246.9	3099.1	3108.6
45°	18833.7	18415.6	13823.5	7483.8	4343.8	3878.6	3517.2	3089.7	2847.7	2709.4	2703.1
47.5°	20210.4	19434.0	13653.8	6867.8	3954.1	3576.9	3064.6	2737.7	2577.4	2492.5	2473.6
50°	21631.1	20386.4	13364.6	6160.5	3554.9	3234.3	2781.7	2558.5	2435.9	2357.4	2329.1
52.5°	22966.9	21250.7	13015.7	5359.0	3149.4	2901.1	2656.0	2483.1	2354.2	2266.2	2228.5
55°	24208.4	21995.7	12522.3	4538.7	2819.4	2678.0	2596.2	2451.6	2303.9	2200.2	2159.3
57.5°	25311.7	22479.7	11670.5	3768.6	2583.7	2523.9	2533.4	2398.2	2228.5	2140.5	2083.9
60°	26229.5	22834.9	10410.1	3055.1	2391.9	2373.1	2435.9	2297.6	2099.6	1999.0	1955.0
62.5°	26779.5	22828.6	8863.6	2501.9	2228.5	2234.8	2307.1	2171.9	1970.7	1876.5	1848.2
65°	26732.4	22269.1	7166.4	2140.5	2071.3	2077.6	2171.9	2033.6	1863.9	1807.3	1804.2
67.5°	25786.3	20905.0	5497.3	1904.7	1898.5	1926.7	2036.8	1939.3	1797.9	1791.6	1801.0
70°	23224.6	18073.0	3960.4	1716.2	1719.3	1760.2	1904.7	1879.6	1763.3	1775.9	1772.7
72.5°	18623.1	13779.5	2659.1	1518.1	1521.3	1587.3	1779.0	1832.4	1728.7	1895.3	1920.5
75°	12402.8	8593.3	1709.9	1307.5	1310.7	1395.6	1669.0	1741.3	1634.4	1889.0	1904.7
77.5°	5959.4	3862.9	1238.4	1100.1	1100.1	1178.7	1442.7	1559.0	1392.4	1467.8	1345.3
80°	2058.8	1452.1	974.4	886.4	867.5	920.9	1216.4	1351.5	1200.7	1106.4	1037.2
82.5°	810.9	754.4	782.6	688.3	625.5	660.1	946.1	1115.8	883.2	798.4	795.2
85°	465.2	490.3	553.2	455.8	361.5	405.5	694.6	801.5	666.3	587.8	600.3
87.5°	125.7	172.9	254.6	235.7	163.4	172.9	330.0	443.2	383.5	295.5	304.9
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)