

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: P944334

Luminaire Tested: **GALN-SB9B-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34739 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 329.5
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

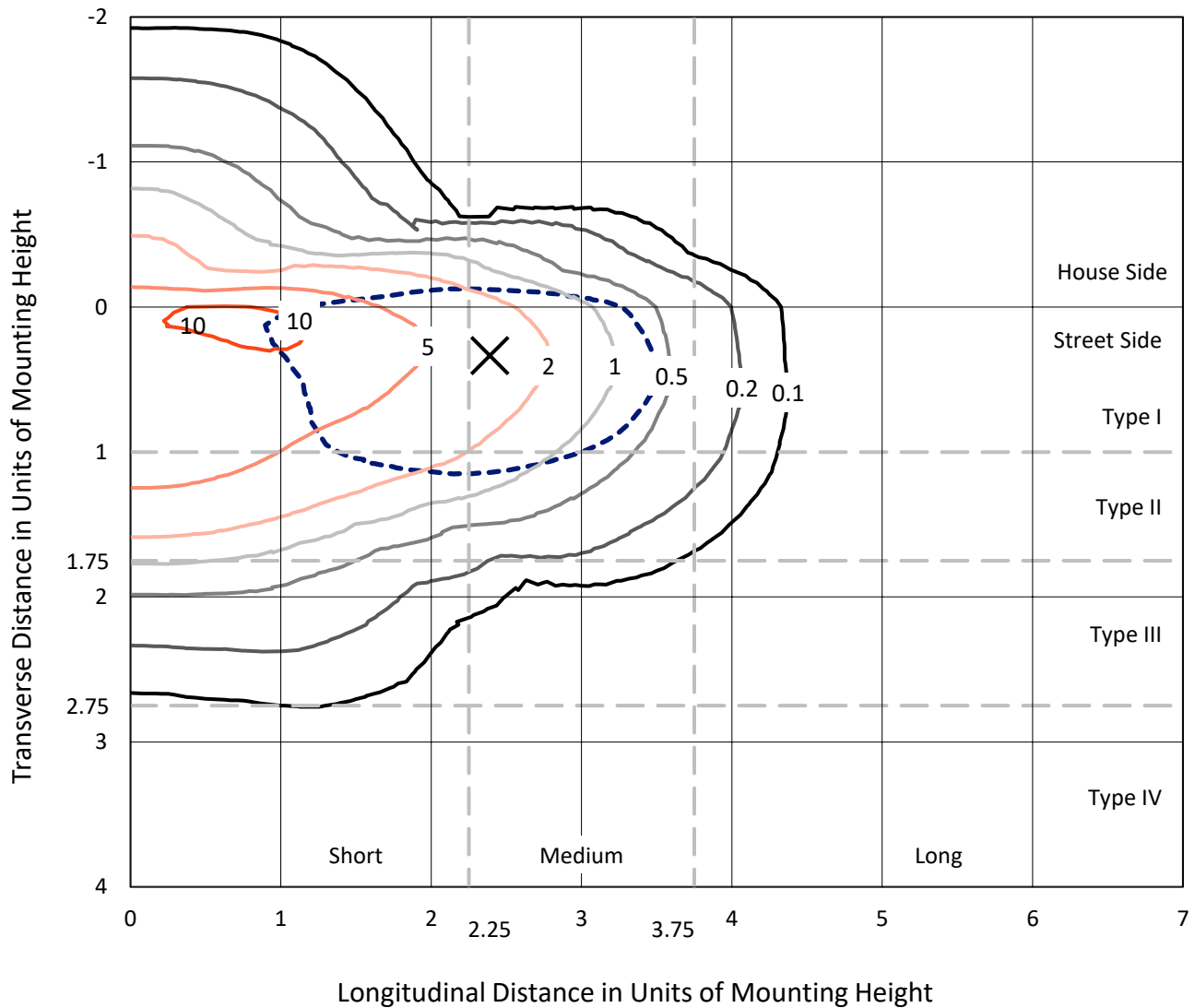


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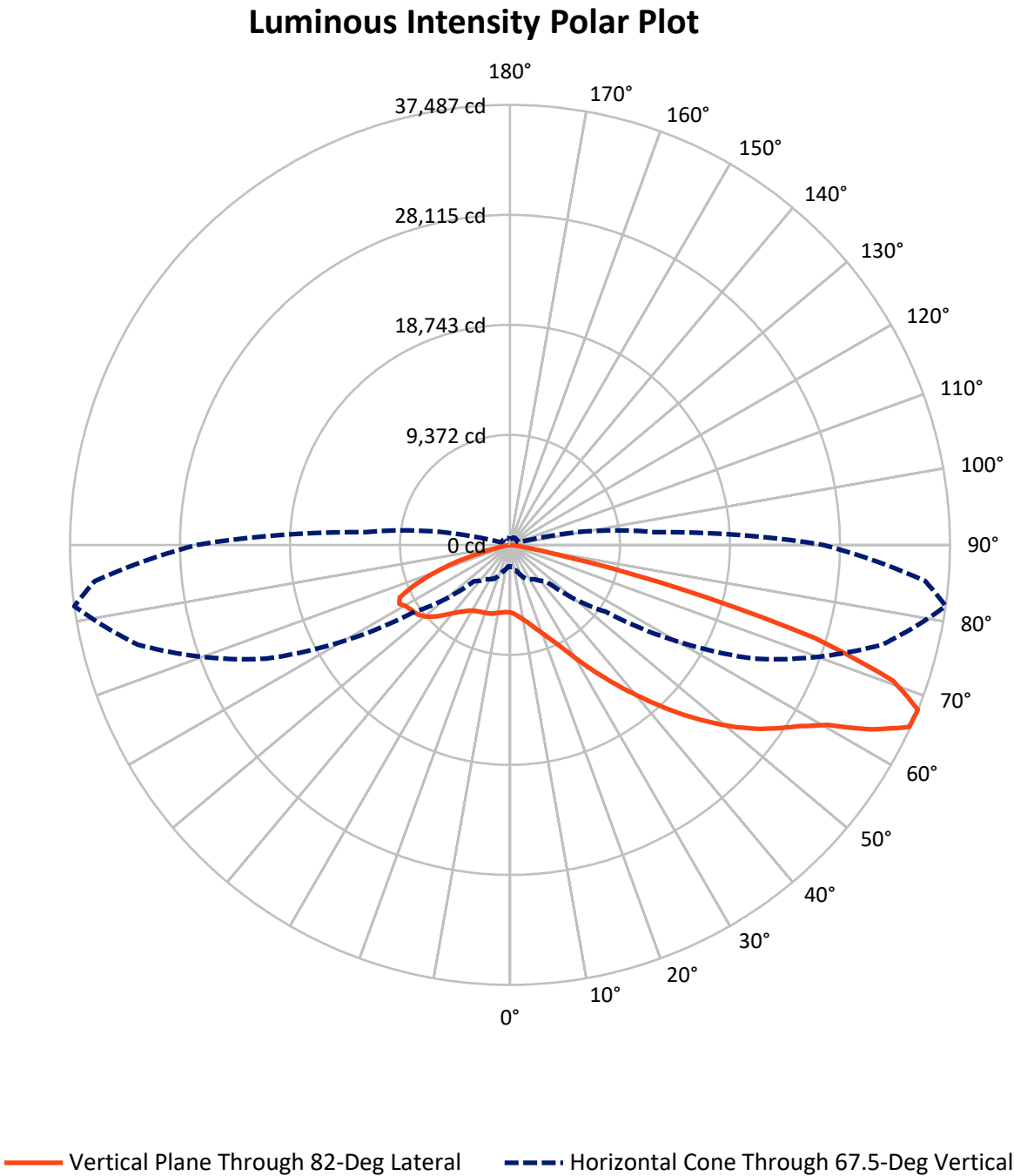
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
Type II - Medium - N/A

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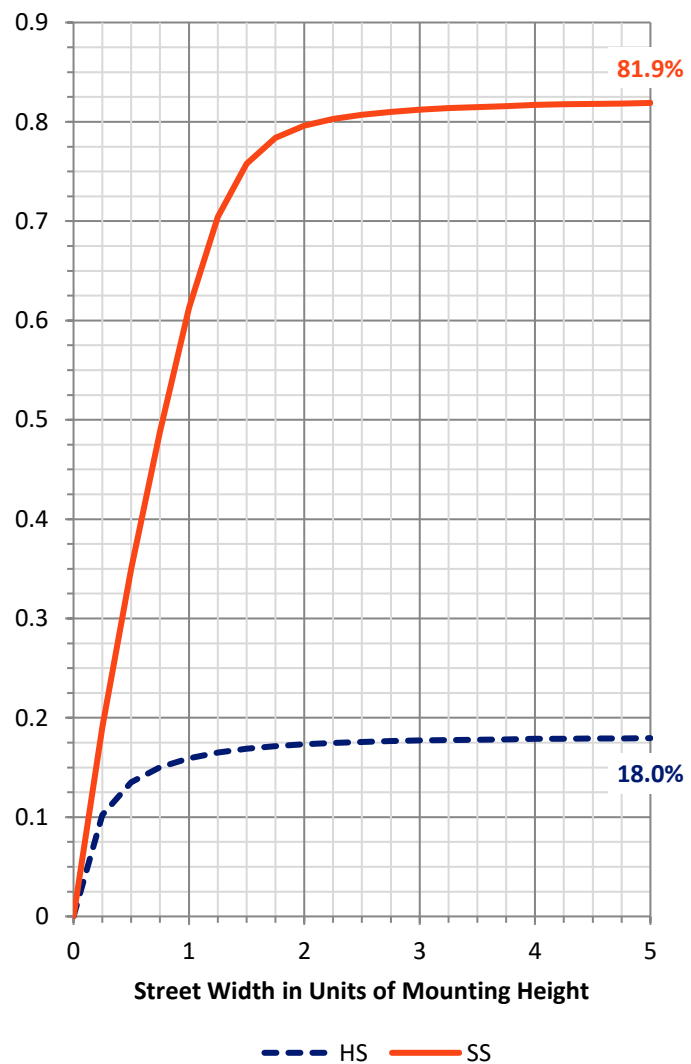
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6292.7	0.0	6292.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28446.3	0.0	28446.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	34739.0	0.0	34739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.7	1.5
10°-20°	1332.4	3.8
20°-30°	2134.1	6.1
30°-40°	3773.7	10.9
40°-50°	6611.9	19.0
50°-60°	8818.4	25.4
60°-70°	8209.4	23.6
70°-80°	3150.8	9.1
80°-90°	195.7	0.6
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°	34739.0	100.0
0°-180°	34739.0	100.0

Coefficient of Utilization



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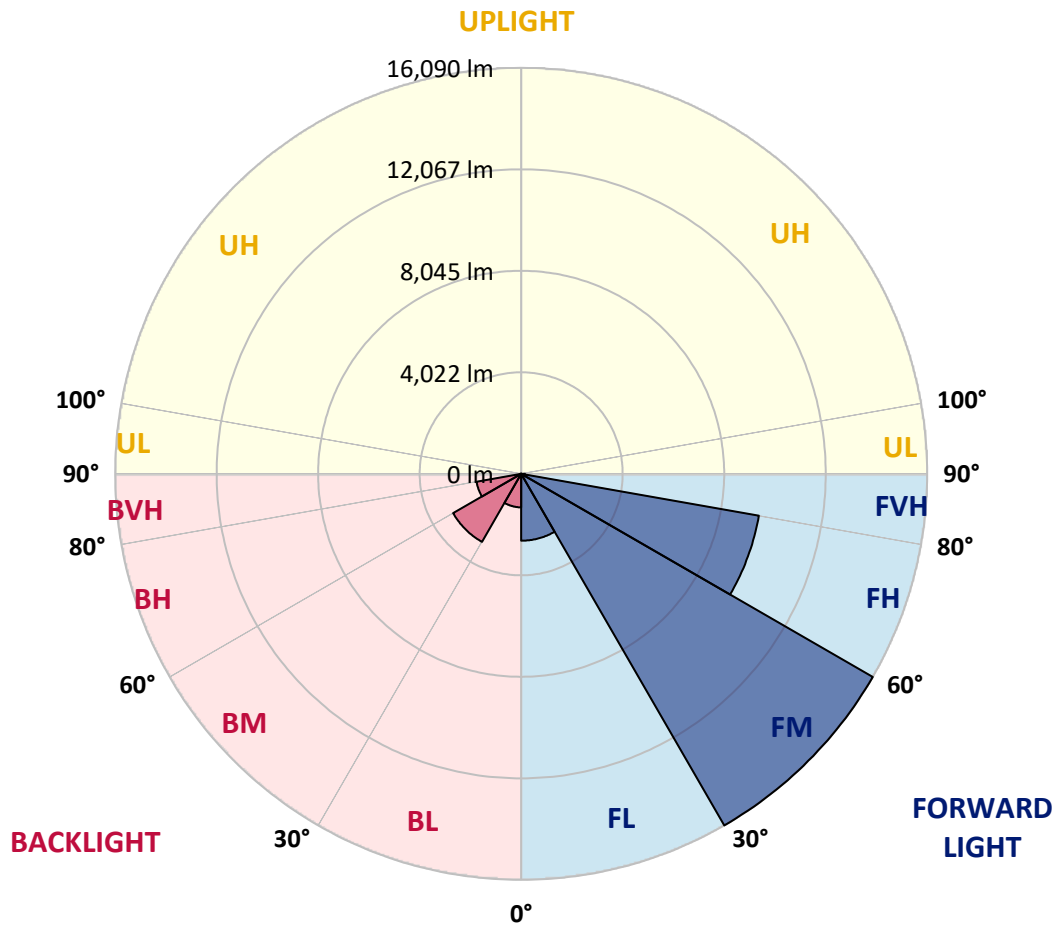
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2650.2	7.6			
FM	(30°-60°)	16089.7	46.3			
FH	(60°-80°)	9564.2	27.5			G4/12000
FVH	(80°-90°)	142.3	0.4			G2/225
BL	(0°-30°)	1329.0	3.8	B3/2500		
BM	(30°-60°)	3114.2	9.0	B3/5000		
BH	(60°-80°)	1796.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	53.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1
2.5°	6082.7	6117.7	6097.7	6087.7	6070.2	6045.2	6025.2	5962.7	5897.6	5855.1	5840.1
5°	6205.3	6240.3	6237.8	6247.8	6260.3	6267.8	6262.8	6192.8	6100.2	6027.7	5985.2
7.5°	6100.2	6140.2	6172.8	6222.8	6310.3	6402.9	6447.9	6432.9	6337.8	6237.8	6185.3
10°	5802.6	5845.1	5922.7	6040.2	6225.3	6425.4	6593.0	6670.5	6610.5	6500.4	6427.9
12.5°	5257.4	5299.9	5452.4	5707.6	6017.7	6365.3	6685.5	6893.1	6908.1	6798.0	6713.0
15°	4644.6	4687.1	4849.7	5169.8	5642.5	6200.3	6735.5	7128.2	7260.8	7165.7	7063.2
17.5°	4264.4	4301.9	4424.5	4682.1	5174.8	5870.1	6718.0	7378.3	7680.9	7605.9	7483.4
20°	4149.4	4181.9	4239.4	4419.5	4829.7	5527.5	6603.0	7613.4	8133.6	8091.1	7953.6
22.5°	4271.9	4301.9	4319.4	4399.5	4657.1	5302.4	6457.9	7853.5	8658.9	8663.9	8496.3
25°	4554.5	4584.6	4564.5	4614.6	4727.1	5232.3	6402.9	8136.1	9319.2	9374.2	9184.1
27.5°	5019.7	5022.2	4974.7	4972.2	4989.7	5337.4	6460.4	8438.8	10152.0	10254.6	10019.5
30°	5952.7	5915.1	5732.6	5535.0	5444.9	5652.5	6620.5	8796.4	11135.0	11317.6	11022.4
32.5°	7390.8	7335.8	7000.6	6527.9	6052.7	6160.3	6908.1	9204.1	12205.5	12535.6	12175.5
35°	8951.5	8936.5	8586.3	7883.5	7053.2	6883.1	7375.8	9739.4	13373.5	13898.7	13471.0
37.5°	10402.2	10394.7	10194.6	9366.7	8356.2	7891.0	8126.1	10439.7	14624.0	15384.4	14879.2
40°	11727.8	11750.3	11550.2	10809.8	9791.9	9184.1	9146.6	11305.1	16014.7	17002.6	16402.3
42.5°	12873.3	12898.3	12695.7	12147.9	11210.0	10614.8	10399.7	12365.5	17372.8	18740.9	18030.6
45°	13651.1	13806.2	13776.2	13338.5	12665.7	12047.9	11905.3	13696.1	18921.0	20584.2	19751.3
47.5°	13871.2	14013.8	14238.9	14298.9	13888.7	13280.9	13451.0	15299.3	20486.7	22430.0	21482.1
50°	13328.5	13461.0	13928.7	14551.5	14836.6	14649.1	14954.2	17017.6	22089.9	24270.9	23180.4
52.5°	12258.0	12393.0	12983.3	13968.8	15131.8	15722.0	16462.4	18710.9	23643.1	26014.1	24788.6
55°	10709.8	10852.4	11610.2	12725.7	14569.0	16164.7	17720.4	20401.6	25066.2	27582.3	26239.2
57.5°	8603.9	8708.9	9496.8	11057.5	13153.4	15724.5	18648.3	22247.5	26406.8	29123.0	27677.4
60°	5607.5	5700.1	6615.5	8356.2	10807.3	14253.9	18833.4	24305.9	28187.6	31126.4	29615.8
62.5°	3729.2	3791.7	4334.4	5612.5	7610.9	11430.1	17750.4	25949.1	30798.8	34613.0	32939.7
65°	2558.6	2621.2	3163.9	4054.3	4917.2	7560.9	14636.6	25731.5	33164.8	37381.7	35403.4
67.5°	1825.8	1878.3	2338.5	3178.9	3559.1	4392.0	9921.9	22950.3	32824.7	37486.8	35535.9
70°	1308.1	1338.1	1718.3	2476.1	2828.8	2638.7	5517.5	17552.9	28740.4	34615.5	32829.7
72.5°	915.4	925.4	1193.0	1885.8	2278.5	1925.9	2626.2	11702.7	21737.2	27169.7	25451.4
75°	620.3	632.8	802.9	1383.1	1828.3	1470.7	1390.6	6275.3	12760.7	15039.2	13481.0
77.5°	380.2	385.2	517.7	945.4	1368.1	1120.5	895.4	2658.7	4937.2	4847.2	4131.8
80°	215.1	215.1	330.1	587.8	932.9	722.8	627.8	1130.5	1563.2	1373.1	1210.5
82.5°	120.1	122.6	240.1	365.2	617.8	427.7	345.2	522.7	675.3	597.8	520.2
85°	50.0	55.0	147.6	172.6	295.1	212.6	140.1	220.1	250.1	222.6	162.6
87.5°	5.0	7.5	45.0	32.5	35.0	42.5	20.0	42.5	35.0	35.0	25.0
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°	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1	5755.1
2.5°	5792.6	5755.1	5660.0	5550.0	5404.9	5334.9	5239.8	5174.8	5119.8	5124.8	5074.8
5°	5905.1	5810.1	5597.5	5332.4	5002.2	4767.1	4517.0	4344.4	4204.4	4174.4	4106.8
7.5°	6060.2	5910.1	5537.5	5059.8	4502.0	4079.3	3701.7	3459.0	3286.5	3231.4	3176.4
10°	6260.3	6042.7	5459.9	4717.1	3914.3	3376.5	2971.3	2781.2	2663.7	2623.7	2593.7
12.5°	6492.9	6195.3	5357.4	4299.4	3309.0	2791.2	2533.6	2438.6	2401.1	2388.6	2381.1
15°	6785.5	6385.4	5202.3	3804.2	2796.3	2433.6	2323.5	2311.0	2316.0	2311.0	2308.5
17.5°	7133.2	6593.0	4949.7	3294.0	2451.1	2251.0	2211.0	2221.0	2233.5	2231.0	2226.0
20°	7513.4	6798.0	4627.1	2841.3	2216.0	2120.9	2098.4	2108.4	2118.4	2113.4	2110.9
22.5°	7946.1	7018.1	4269.4	2488.6	2058.4	2000.9	1975.9	1978.4	1978.4	1968.4	1963.4
25°	8463.8	7260.8	3894.2	2238.5	1938.4	1893.3	1863.3	1853.3	1838.3	1808.3	1803.3
27.5°	9081.6	7518.4	3534.1	2063.4	1843.3	1800.8	1765.8	1740.8	1703.3	1653.2	1648.2
30°	9776.9	7831.0	3228.9	1953.4	1768.3	1725.8	1685.8	1648.2	1593.2	1530.7	1525.7
32.5°	10594.7	8166.2	3006.3	1880.8	1700.8	1655.7	1608.2	1563.2	1503.2	1440.6	1443.1
35°	11570.2	8571.3	2876.3	1830.8	1648.2	1588.2	1535.7	1485.7	1440.6	1385.6	1380.6
37.5°	12628.2	9001.5	2836.3	1805.8	1613.2	1520.7	1460.7	1425.6	1420.6	1388.1	1385.6
40°	13786.2	9511.8	2866.3	1790.8	1575.7	1455.7	1390.6	1383.1	1395.6	1338.1	1340.6
42.5°	15011.7	10117.0	2916.3	1773.3	1523.2	1390.6	1328.1	1328.1	1318.1	1238.1	1238.1
45°	16337.3	10814.8	2966.3	1730.8	1460.7	1325.6	1278.1	1260.6	1218.0	1140.5	1138.0
47.5°	17672.9	11525.2	3003.8	1653.2	1385.6	1270.6	1228.0	1188.0	1125.5	1055.5	1053.0
50°	18941.0	12162.9	2963.8	1538.2	1300.6	1218.0	1173.0	1118.0	1050.5	1002.9	995.4
52.5°	20074.0	12715.7	2793.8	1403.1	1210.5	1163.0	1123.0	1065.5	1010.5	960.4	955.4
55°	21059.4	13163.4	2493.6	1275.6	1130.5	1115.5	1075.5	1002.9	927.9	885.4	880.4
57.5°	22004.9	13503.5	2118.4	1170.5	1058.0	1063.0	1002.9	937.9	867.9	822.9	817.9
60°	23262.9	13958.7	1738.3	1073.0	980.4	995.4	930.4	882.9	795.4	737.8	730.3
62.5°	25273.8	14666.6	1380.6	952.9	890.4	895.4	867.9	810.4	705.3	637.8	632.8
65°	26869.5	14406.5	1088.0	822.9	787.9	795.4	795.4	732.8	620.3	542.7	535.2
67.5°	26689.4	12335.5	867.9	695.3	690.3	695.3	712.8	660.3	550.2	487.7	477.7
70°	24586.0	9811.9	695.3	577.8	600.3	587.8	637.8	602.8	495.2	432.7	425.2
72.5°	20061.5	7068.2	530.2	477.7	460.2	480.2	575.3	542.7	412.7	342.7	335.2
75°	11722.7	3771.7	395.2	377.7	332.6	400.2	510.2	462.7	315.1	252.6	245.1
77.5°	3816.7	1315.6	290.1	277.6	247.6	322.6	435.2	390.2	257.6	200.1	192.6
80°	1023.0	397.7	197.6	182.6	160.1	240.1	345.2	310.1	185.1	130.1	127.6
82.5°	410.2	167.6	115.1	102.5	87.5	165.1	272.6	250.1	137.6	82.5	82.5
85°	132.6	55.0	42.5	32.5	40.0	102.5	162.6	170.1	97.5	42.5	32.5
87.5°	17.5	7.5	7.5	10.0	7.5	17.5	50.0	47.5	27.5	5.0	0.0
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)