

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: P956634

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40562 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

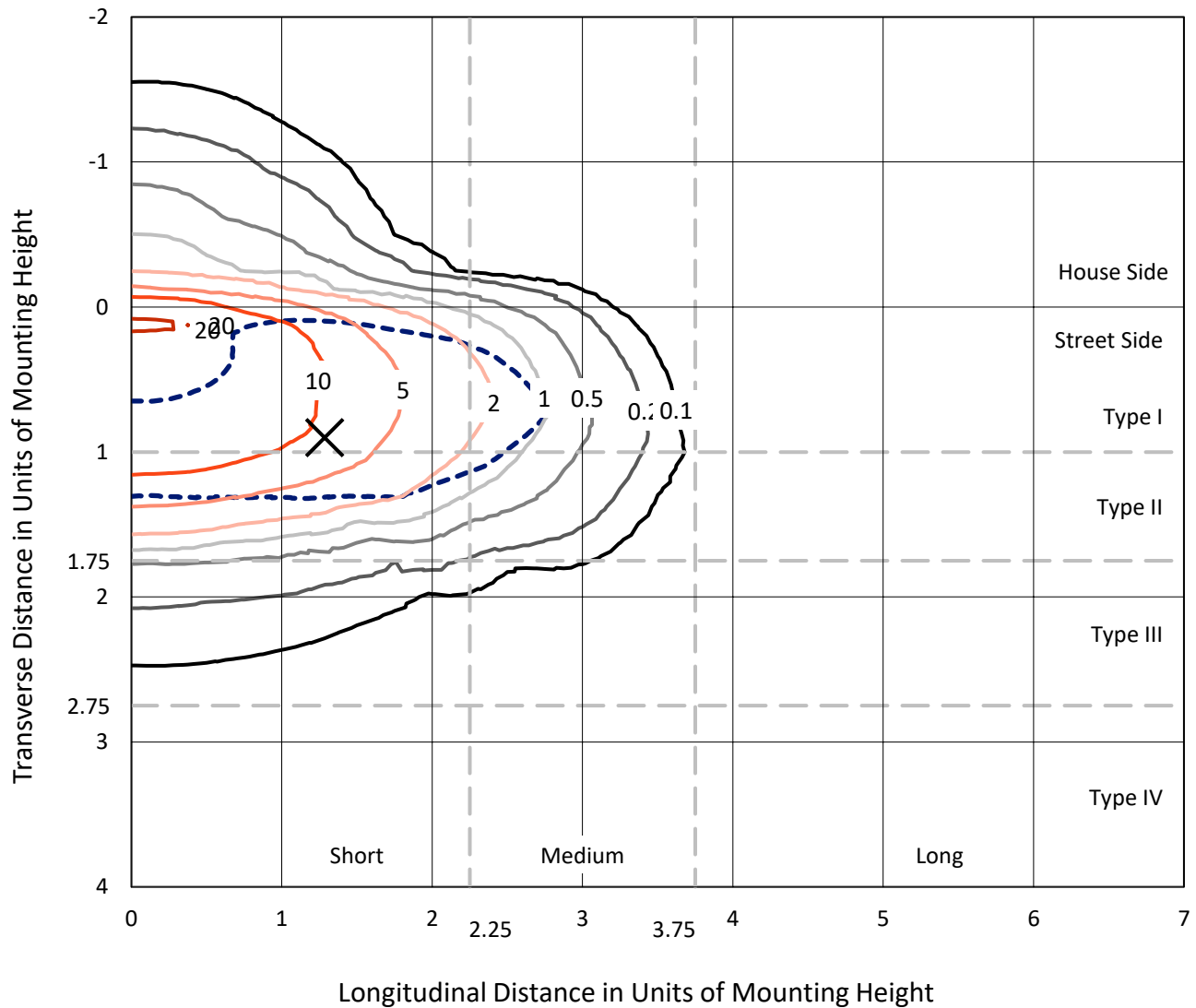


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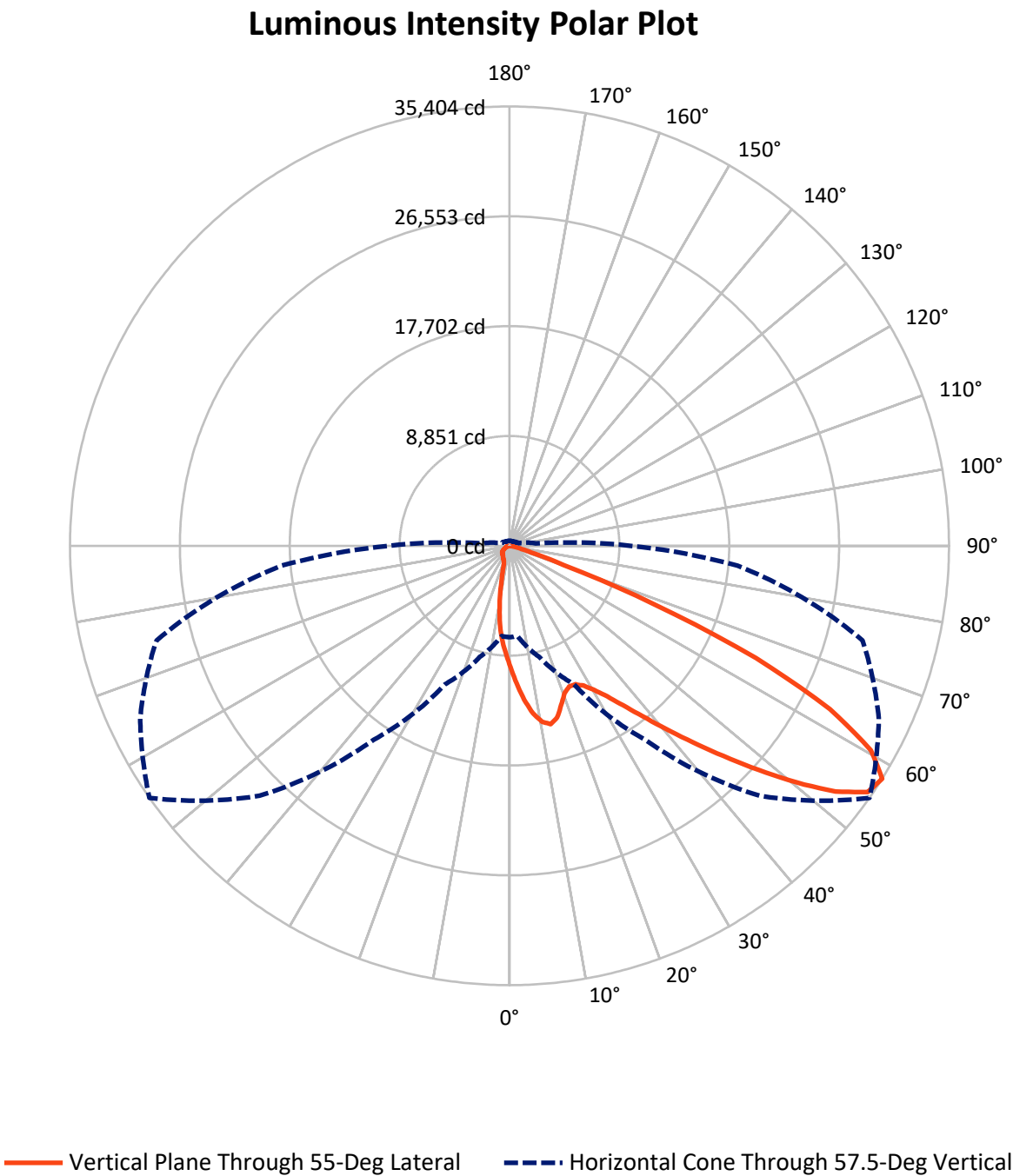
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc
Type II - Short - N/A

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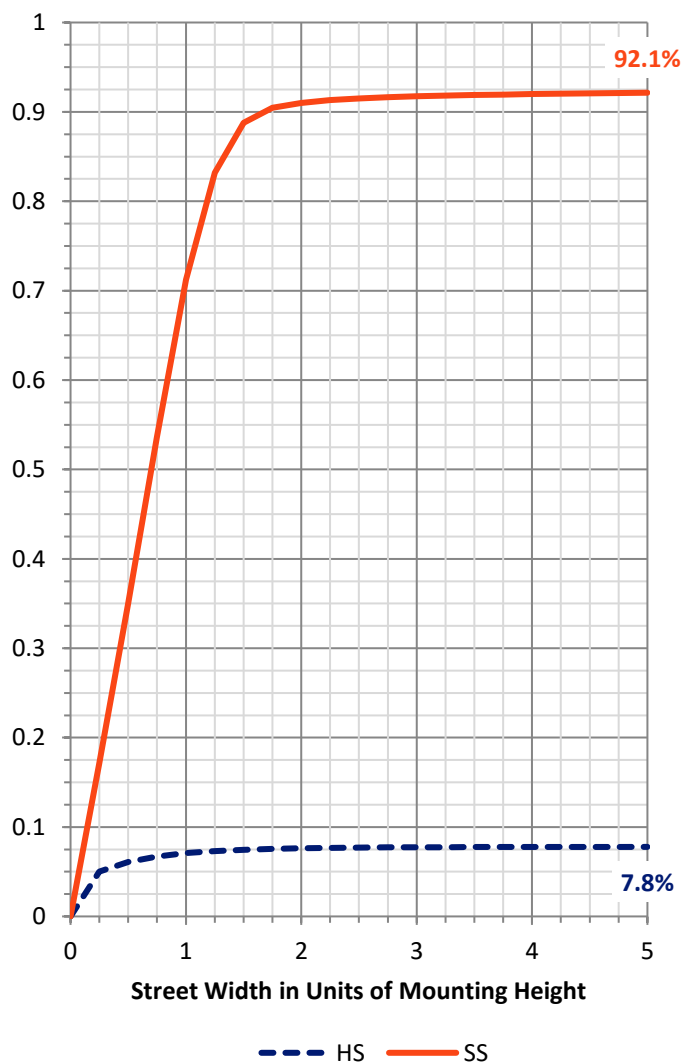
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3167.7	0.0	3167.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	37394.3	0.0	37394.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	40562.0	0.0	40562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	909.5	2.2
10°-20°	2196.8	5.4
20°-30°	3514.8	8.7
30°-40°	5949.1	14.7
40°-50°	9767.2	24.1
50°-60°	10734.8	26.5
60°-70°	6157.5	15.2
70°-80°	1258.2	3.1
80°-90°	74.2	0.2
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°	40562.0	100.0
0°-180°	40562.0	100.0

Coefficient of Utilization



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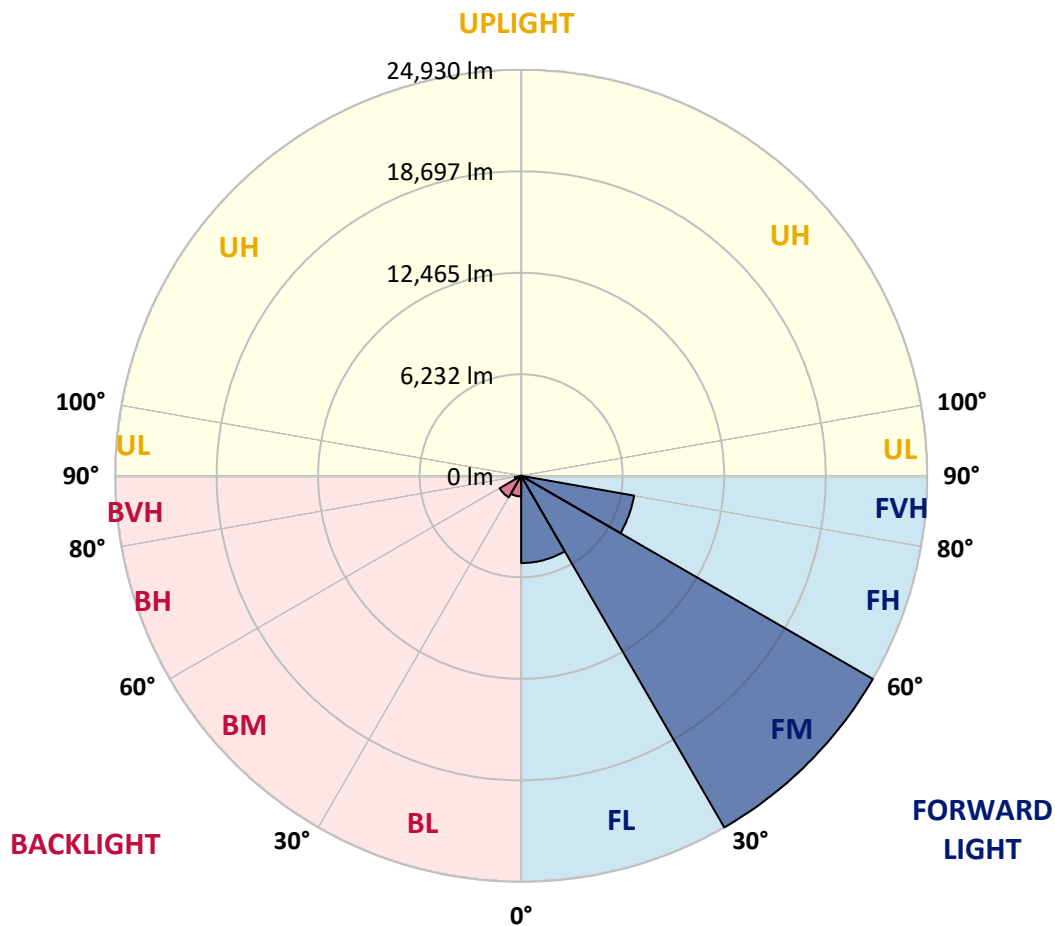
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5356.5	13.2			
FM	(30°-60°)	24929.7	61.5			
FH	(60°-80°)	7038.9	17.4			G3/7500
FVH	(80°-90°)	69.2	0.2			G1/100
BL	(0°-30°)	1264.6	3.1	B3/2500		
BM	(30°-60°)	1521.3	3.8	B2/2500		
BH	(60°-80°)	376.7	0.9	B1/500		G1/500
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4
2.5°	12128.0	11975.4	11952.9	11922.9	11632.8	11415.2	11100.0	10754.9	10367.2	9972.0	9797.0
5°	14011.4	13891.3	13868.8	13728.7	13398.6	13028.4	12468.2	11760.3	11037.5	10187.1	9822.0
7.5°	14376.5	14354.0	14456.6	14451.6	14406.5	14113.9	13641.2	12798.3	11712.8	10452.3	9887.0
10°	12748.3	12805.8	13111.0	13378.6	14101.4	14521.6	14419.1	13723.7	12408.1	10754.9	9959.5
12.5°	11265.1	11197.6	11415.2	11717.8	12558.2	13808.8	14741.7	14496.6	13203.5	11097.5	10067.1
15°	10334.7	10307.2	10429.7	10569.8	11210.1	12470.7	14366.5	15124.4	13968.8	11502.7	10229.6
17.5°	10037.1	10014.6	10052.1	10087.1	10502.3	11477.7	13473.6	15509.5	14701.7	11965.4	10409.7
20°	10279.7	10249.7	10244.7	10217.1	10389.7	11055.0	12665.8	15537.1	15359.5	12385.6	10564.8
22.5°	10987.5	10952.5	10829.9	10719.9	10734.9	11112.6	12305.6	15261.9	15854.7	12778.3	10662.3
25°	12270.6	12213.1	11957.9	11587.8	11352.7	11512.7	12360.6	14899.3	16327.4	13085.9	10614.8
27.5°	13876.3	13801.3	13473.6	12923.4	12385.6	12190.5	12758.3	14649.2	16720.1	13321.1	10512.3
30°	15449.5	15352.0	15029.3	14601.6	13816.3	13201.0	13476.1	14759.2	17187.8	13566.2	10377.2
32.5°	17147.8	17055.3	16627.6	16097.3	15447.0	14619.1	14459.1	15297.0	17760.6	13908.8	10282.2
35°	19296.3	19151.2	18543.4	17820.6	17130.3	16292.4	15789.7	16224.9	18523.4	14431.6	10334.7
37.5°	21742.4	21547.3	20892.0	19894.0	18993.6	18055.7	17410.4	17500.5	19641.4	15131.9	10497.3
40°	24048.4	23870.8	23265.6	22325.1	21194.6	20056.6	19368.8	19168.7	21184.6	15984.8	10782.4
42.5°	25431.6	25271.5	25016.4	24618.7	23665.8	22505.2	21637.3	21204.6	23010.5	17005.2	11130.1
45°	25509.1	25369.0	25711.7	26174.4	25986.8	25214.0	24156.0	23363.1	24843.8	17963.2	11490.2
47.5°	24268.5	24173.5	25214.0	26829.7	27635.1	27960.2	26984.8	25341.5	26357.0	18651.0	11637.8
50°	20887.0	20852.0	22992.9	25959.3	28262.8	30366.3	29968.6	27182.4	27530.0	19006.1	11497.7
52.5°	18110.7	17983.2	19231.2	23173.0	27349.9	31631.9	32884.9	28988.2	28350.4	19073.7	11170.1
55°	13736.2	13623.7	15189.4	18510.9	24406.1	31181.7	35018.4	30851.5	28938.2	18901.1	10582.3
57.5°	7368.3	7298.3	9276.7	12320.6	19078.7	28480.4	35403.6	32822.4	29433.4	18443.4	9759.4
60°	2868.8	2856.3	3596.6	5977.7	11595.3	23170.5	33460.2	34005.5	29743.5	17880.6	9071.6
62.5°	1735.8	1773.3	1893.4	2683.7	5122.3	14394.0	28980.7	32659.8	29951.1	17365.4	8503.9
65°	1435.7	1438.2	1453.2	1843.3	2453.6	6022.7	21817.4	28232.8	29438.4	16447.5	7698.5
67.5°	1230.6	1253.1	1310.6	1463.2	1730.8	2641.2	12560.7	21869.9	26319.5	14311.5	6442.9
70°	970.4	1000.5	1073.0	1203.0	1335.6	1653.3	4642.1	14551.6	20106.6	10787.4	4872.2
72.5°	817.9	815.4	852.9	977.9	1060.5	1163.0	1785.8	8153.7	11685.3	5149.8	2411.1
75°	632.8	657.8	705.3	817.9	867.9	842.9	967.9	2978.9	4186.9	1560.7	820.4
77.5°	495.2	515.2	557.8	667.8	717.8	597.8	557.8	1065.5	1345.6	560.3	370.2
80°	222.6	240.1	380.2	492.7	585.3	412.7	302.6	545.2	597.8	255.1	187.6
82.5°	40.0	67.5	222.6	260.1	300.1	267.6	157.6	282.6	292.6	102.5	65.0
85°	2.5	5.0	77.5	95.0	120.1	87.5	47.5	112.6	97.5	35.0	25.0
87.5°	0.0	0.0	0.0	2.5	2.5	12.5	15.0	20.0	15.0	12.5	10.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4	9774.4
2.5°	9616.9	9261.7	8916.6	8633.9	8468.8	8188.7	8003.6	7973.6	7896.1	7963.6
5°	9431.8	8796.5	8153.7	7578.4	7105.7	6495.5	6040.2	5847.7	5680.1	5737.6
7.5°	9344.2	8341.3	7340.8	6357.9	5347.4	4372.0	3646.7	3344.0	3113.9	3146.4
10°	9226.7	7868.6	6300.4	4799.7	3446.6	2483.6	1983.4	1798.3	1695.8	1698.3
12.5°	9136.7	7303.3	5092.3	3254.0	2098.5	1585.7	1430.7	1385.6	1355.6	1358.1
15°	9091.6	6638.0	3899.3	2168.5	1500.7	1343.1	1305.6	1285.6	1265.6	1263.1
17.5°	9016.6	5897.7	2853.8	1583.2	1313.1	1258.1	1225.6	1203.0	1178.0	1173.0
20°	8904.0	5057.3	2085.9	1338.1	1230.6	1188.0	1143.0	1113.0	1083.0	1078.0
22.5°	8696.5	4169.4	1603.2	1238.1	1170.5	1123.0	1068.0	1033.0	1003.0	998.0
25°	8311.3	3336.5	1350.6	1175.5	1118.0	1060.5	1000.5	952.9	925.4	920.4
27.5°	7823.6	2621.2	1225.6	1118.0	1050.5	998.0	930.4	885.4	860.4	855.4
30°	7248.3	2018.4	1153.0	1053.0	970.4	925.4	865.4	827.9	812.9	812.9
32.5°	6628.0	1613.2	1123.0	987.9	900.4	850.4	802.9	787.9	782.9	780.4
35°	6045.2	1400.6	1108.0	935.4	837.9	790.4	770.4	772.9	782.9	782.9
37.5°	5527.5	1333.1	1100.5	897.9	782.9	740.3	752.8	775.4	765.3	765.3
40°	5059.8	1340.6	1095.5	870.4	737.8	712.8	737.8	720.3	695.3	692.8
42.5°	4702.1	1403.1	1085.5	847.9	710.3	692.8	682.8	655.3	652.8	657.8
45°	4442.0	1458.2	1083.0	837.9	680.3	647.8	635.3	607.8	657.8	670.3
47.5°	4134.4	1458.2	1083.0	802.9	630.3	617.8	597.8	567.8	617.8	630.3
50°	3736.7	1365.6	1040.5	762.8	590.3	582.8	547.7	510.2	500.2	507.7
52.5°	3234.0	1198.0	932.9	707.8	550.3	535.2	492.7	465.2	457.7	457.7
55°	2661.2	1003.0	787.9	627.8	507.7	480.2	450.2	437.7	430.2	425.2
57.5°	2163.5	822.9	632.8	557.8	467.7	432.7	422.7	407.7	395.2	387.7
60°	1775.8	647.8	522.7	495.2	427.7	395.2	392.7	372.7	340.2	335.2
62.5°	1370.6	475.2	440.2	430.2	387.7	360.2	355.2	315.1	265.1	255.1
65°	967.9	370.2	355.2	377.7	345.2	320.1	307.6	247.6	195.1	187.6
67.5°	680.3	310.1	280.1	330.2	300.1	267.6	260.1	210.1	162.6	157.6
70°	485.2	252.6	230.1	282.6	240.1	235.1	220.1	175.1	132.6	127.6
72.5°	342.7	192.6	177.6	245.1	165.1	202.6	180.1	135.1	100.0	95.0
75°	252.6	137.6	125.1	142.6	120.1	152.6	127.6	90.0	62.5	60.0
77.5°	185.1	87.5	75.0	70.0	70.0	95.0	70.0	37.5	27.5	25.0
80°	130.1	40.0	35.0	30.0	27.5	22.5	10.0	5.0	2.5	2.5
82.5°	77.5	17.5	17.5	12.5	7.5	0.0	0.0	0.0	0.0	0.0
85°	17.5	7.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)