

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: P953446

Luminaire Tested: **GALN-SB7A-730-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-730-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31708 lumens
Efficiency: N/A
Efficacy: 159.3 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): 199.1
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



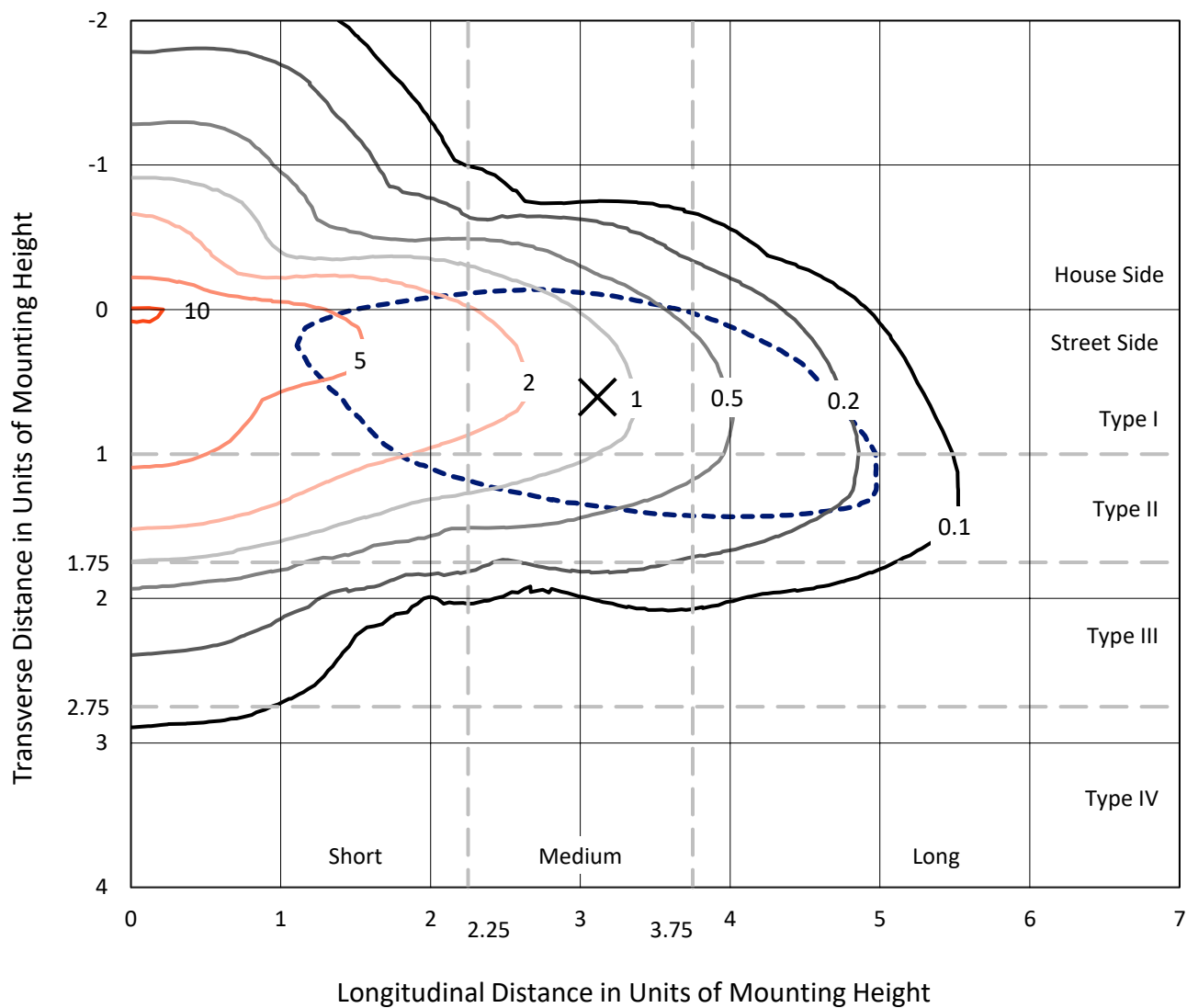
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

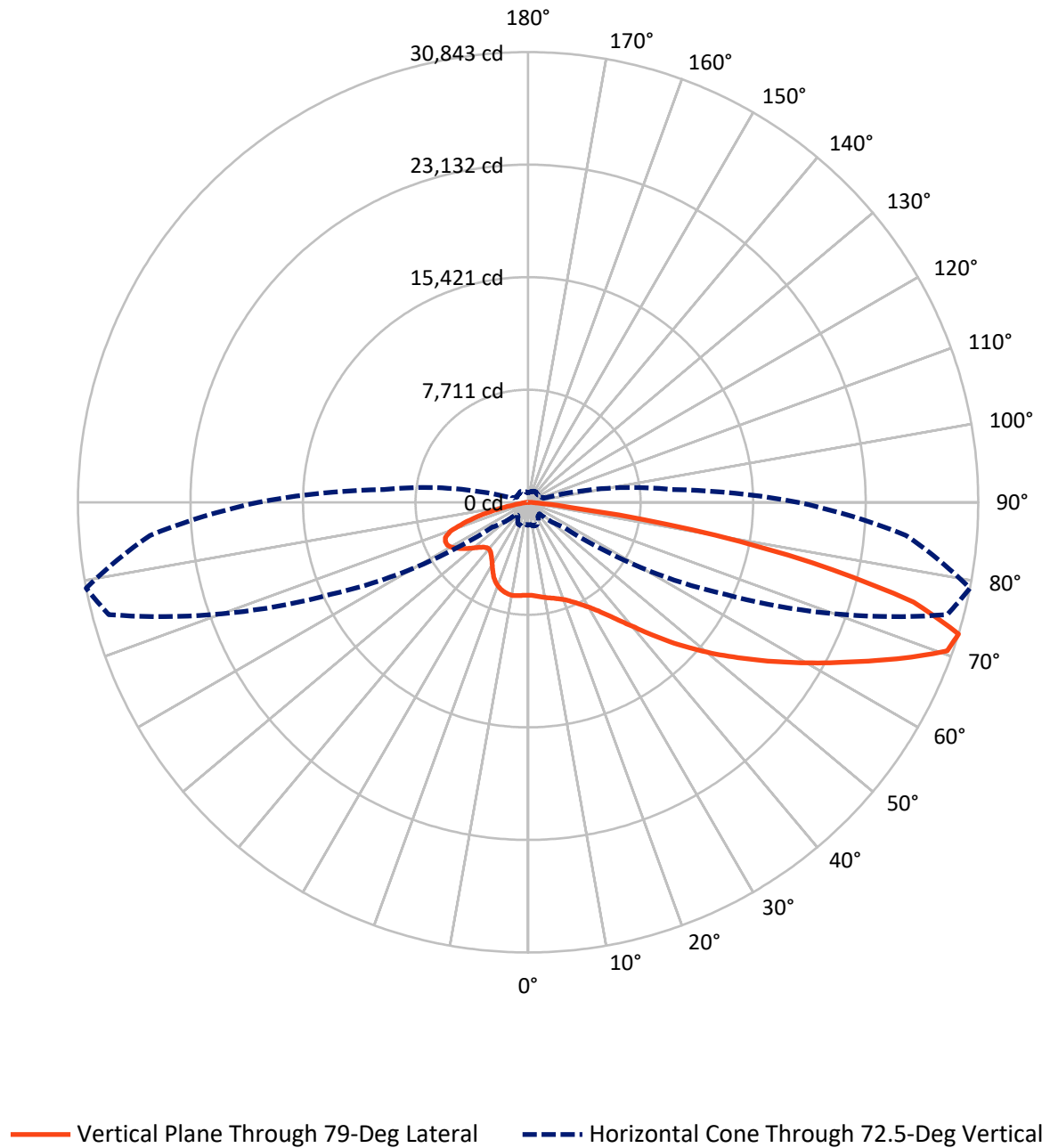
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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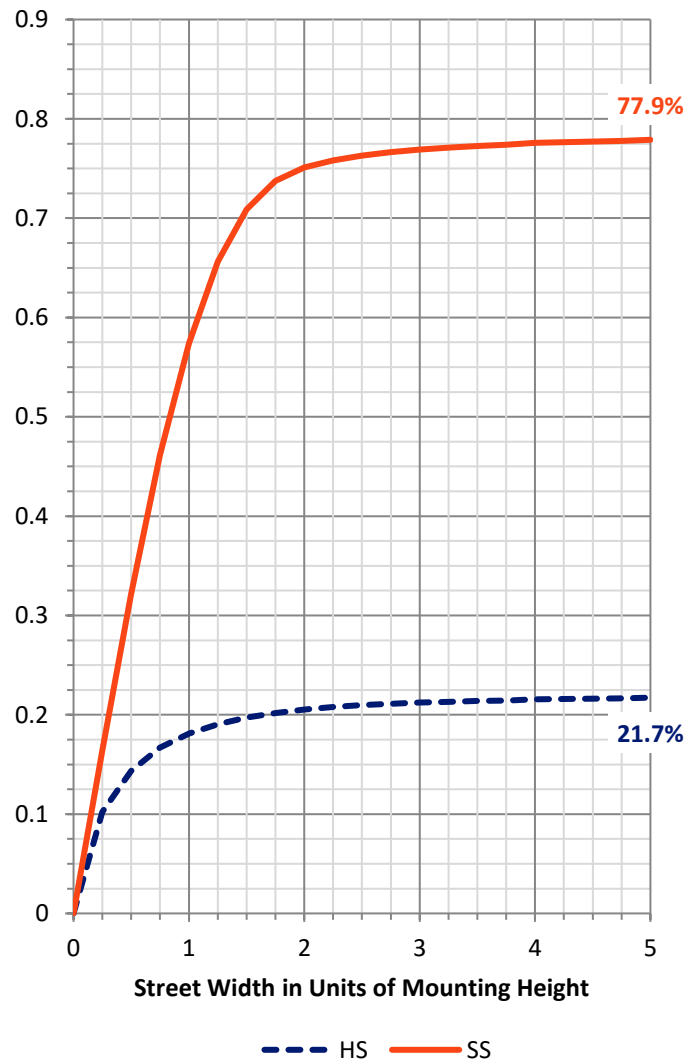
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6977.5	0.0	6977.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	24730.5	0.0	24730.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	31708.0	0.0	31708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.8	1.8
10°-20°	1510.6	4.8
20°-30°	2437.4	7.7
30°-40°	3658.3	11.5
40°-50°	5189.4	16.4
50°-60°	6553.6	20.7
60°-70°	6656.0	21.0
70°-80°	4536.4	14.3
80°-90°	588.6	1.9
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°	31708.0	100.0
0°-180°	31708.0	100.0

Coefficient of Utilization



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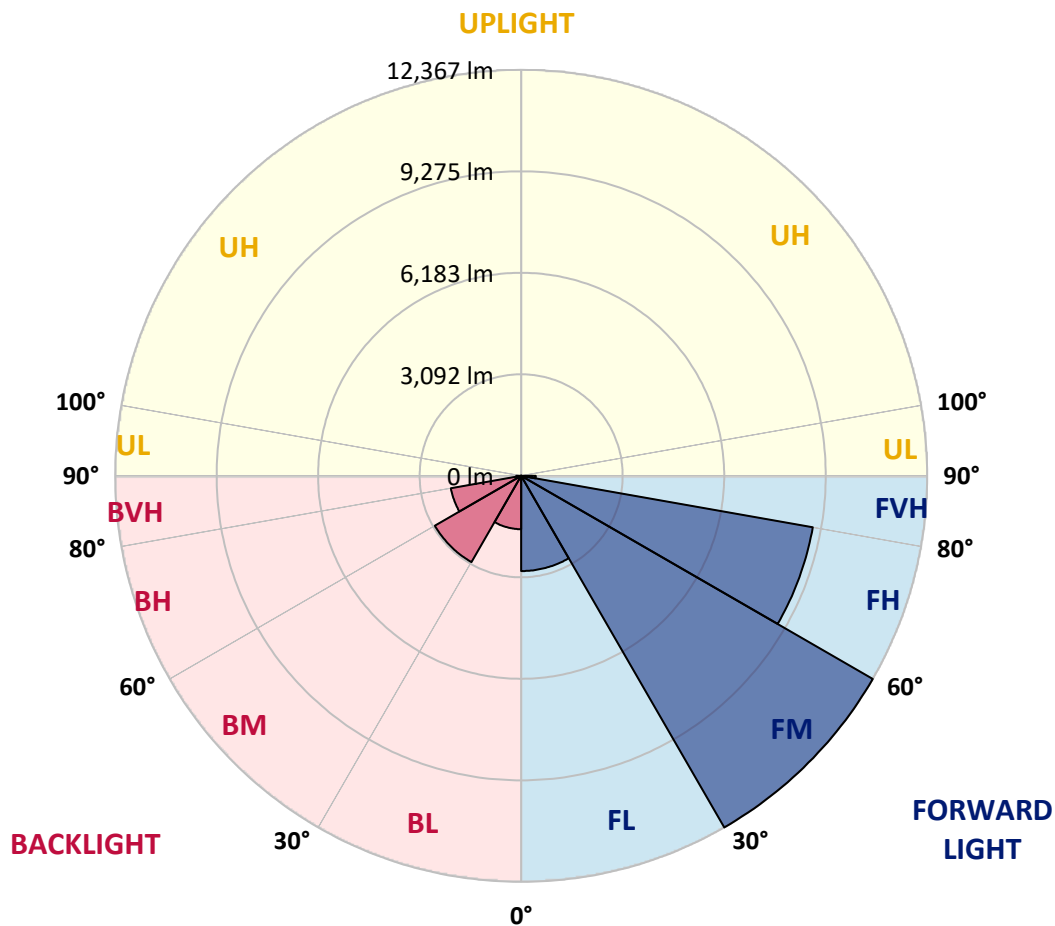
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2900.5	9.1			
FM	(30°-60°)	12366.8	39.0			
FH	(60°-80°)	9019.9	28.4			G4/12000
FVH	(80°-90°)	443.4	1.4			G3/500
BL	(0°-30°)	1625.3	5.1	B3/2500		
BM	(30°-60°)	3034.5	9.6	B3/5000		
BH	(60°-80°)	2172.6	6.9	B3/2500		G3/2500
BVH	(80°-90°)	145.2	0.5			G2/225
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°	79°	85°
0°	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1
2.5°	6368.4	6338.2	6356.7	6350.0	6358.4	6368.4	6371.8	6376.8	6393.6	6391.9	6390.2
5°	6355.0	6324.8	6350.0	6341.6	6363.4	6386.9	6407.0	6425.5	6452.3	6464.0	6447.3
7.5°	6326.5	6306.4	6331.5	6356.7	6396.9	6432.2	6460.7	6502.6	6541.2	6547.9	6559.6
10°	6160.5	6145.4	6204.1	6269.5	6380.2	6475.8	6537.8	6586.5	6628.4	6635.1	6651.9
12.5°	5987.7	5969.3	6034.7	6123.6	6303.0	6475.8	6606.6	6670.3	6707.2	6729.0	6754.2
15°	5959.2	5944.1	5981.0	6058.1	6207.4	6430.5	6653.6	6771.0	6802.8	6828.0	6838.1
17.5°	6096.7	6068.2	6083.3	6110.1	6197.4	6388.6	6690.5	6885.0	6933.7	6960.5	6960.5
20°	6415.4	6375.1	6351.7	6298.0	6282.9	6395.3	6687.1	7022.6	7086.3	7119.8	7128.2
22.5°	6839.7	6812.9	6762.6	6626.7	6479.1	6477.5	6750.8	7198.7	7317.7	7349.6	7329.5
25°	7353.0	7312.7	7249.0	7064.5	6781.0	6640.1	6858.2	7423.4	7623.0	7631.4	7572.7
27.5°	7943.4	7883.0	7795.8	7552.6	7170.1	6895.1	7022.6	7681.7	7973.5	7970.2	7849.4
30°	8565.6	8505.2	8413.0	8117.8	7636.4	7238.9	7250.7	7960.1	8389.5	8371.0	8164.7
32.5°	9020.1	8974.8	8956.4	8728.3	8173.1	7644.8	7512.3	8268.7	8902.7	8886.0	8597.5
35°	9369.0	9310.3	9332.1	9216.4	8758.5	8099.3	7832.7	8636.0	9526.7	9525.0	9166.0
37.5°	9714.5	9662.5	9681.0	9603.8	9300.2	8676.3	8223.4	9085.5	10299.9	10336.8	9853.7
40°	10029.8	9974.5	10048.3	9976.2	9721.2	9290.2	8667.9	9593.7	11195.5	11265.9	10685.6
42.5°	10219.3	10175.7	10298.2	10299.9	10086.8	9808.4	9156.0	10153.9	12232.0	12389.7	11708.7
45°	10284.8	10269.7	10454.2	10492.7	10410.6	10108.7	9595.4	10764.4	13349.1	13630.8	12874.4
47.5°	10214.3	10185.8	10440.7	10583.3	10648.7	10249.5	9959.4	11425.3	14489.6	14902.2	14145.7
50°	9858.7	9803.4	10182.5	10482.7	10715.8	10341.8	10326.7	12188.4	15786.1	16237.2	15423.8
52.5°	9219.7	9177.8	9608.8	10130.5	10568.2	10387.1	10739.3	13022.0	17017.2	17600.8	16733.7
55°	8402.9	8347.6	8822.2	9503.2	10200.9	10372.0	11151.9	13954.5	18469.6	19061.7	18087.2
57.5°	7108.1	6997.4	7597.8	8402.9	9602.1	10353.5	11581.3	14882.0	19945.6	20655.1	19531.3
60°	5219.5	5055.2	5791.5	6745.8	8431.4	10174.1	12112.9	15921.9	21716.7	22355.8	21107.9
62.5°	3039.1	2943.5	3424.9	4315.5	6355.0	9117.4	12411.5	17131.2	23457.7	24128.6	22657.7
65°	2359.9	2333.0	2375.0	2443.7	3537.3	6826.3	11490.7	18310.3	25671.6	26141.3	24272.8
67.5°	2158.6	2138.5	2156.9	2027.8	1794.6	3802.3	9090.6	18608.8	28043.2	28328.4	25686.7
70°	1918.7	1895.3	1955.6	1845.0	1412.2	1729.2	5873.7	17525.4	29930.1	30465.2	26761.8
72.5°	1563.2	1536.3	1677.2	1626.9	1189.2	1110.3	2950.2	14950.8	29732.2	30842.5	25992.0
75°	1200.9	1185.8	1353.5	1395.5	969.4	873.8	1415.6	11113.3	26164.8	27283.5	22401.1
77.5°	932.5	920.8	1006.3	1159.0	781.6	677.6	870.5	7049.4	19717.5	19913.7	15437.2
80°	699.4	665.9	744.7	897.3	608.8	494.8	590.4	4110.9	12463.5	11297.8	6719.0
82.5°	437.8	421.0	486.4	598.8	429.4	340.5	384.1	2271.0	4994.8	2941.9	1296.5
85°	249.9	243.2	265.0	342.2	233.1	196.2	219.7	1003.0	912.4	627.3	390.8
87.5°	100.6	97.3	120.8	152.6	85.5	72.1	77.2	241.5	201.3	186.2	129.1
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°	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1	6365.1
2.5°	6383.5	6383.5	6360.0	6323.1	6281.2	6254.4	6210.8	6199.0	6153.7	6140.3	6162.1
5°	6460.7	6447.3	6375.1	6271.2	6128.6	5997.8	5853.5	5763.0	5635.5	5590.2	5623.7
7.5°	6558.0	6521.1	6396.9	6168.8	5870.3	5576.8	5271.5	5040.1	4818.7	4739.8	4749.9
10°	6646.9	6594.9	6383.5	5984.3	5467.8	4959.6	4473.2	4132.7	3874.4	3768.7	3792.2
12.5°	6735.7	6640.1	6294.6	5677.4	4895.8	4206.5	3688.2	3423.2	3263.9	3136.4	3178.3
15°	6819.6	6685.4	6157.1	5266.5	4268.5	3569.1	3186.7	2975.4	2847.9	2764.1	2779.2
17.5°	6916.9	6724.0	5950.8	4744.9	3671.5	3128.0	2816.1	2688.6	2663.4	2653.4	2660.1
20°	7052.7	6759.2	5679.1	4161.2	3232.0	2775.8	2614.8	2603.1	2601.4	2596.3	2613.1
22.5°	7198.7	6801.2	5320.2	3631.2	2858.0	2556.1	2527.6	2504.1	2489.0	2487.3	2505.8
25°	7371.4	6814.6	4870.7	3196.8	2539.3	2452.1	2418.6	2383.3	2373.3	2373.3	2383.3
27.5°	7539.1	6769.3	4347.4	2819.4	2359.9	2356.5	2312.9	2301.2	2299.5	2304.5	2317.9
30°	7706.9	6683.8	3827.4	2470.6	2255.9	2255.9	2240.8	2249.2	2255.9	2272.6	2284.4
32.5°	7933.3	6593.2	3393.0	2212.3	2165.3	2148.5	2163.6	2180.4	2187.1	2208.9	2227.4
35°	8265.4	6529.4	3047.5	2071.4	2071.4	2049.6	2058.0	2054.6	2039.5	2029.4	2052.9
37.5°	8704.8	6526.1	2762.4	2006.0	1992.5	1989.2	1990.9	1969.1	1910.4	1839.9	1841.6
40°	9233.1	6616.7	2542.7	1960.7	1950.6	1970.7	1960.7	1902.0	1741.0	1618.5	1615.2
42.5°	9942.6	6875.0	2401.8	1905.3	1935.5	1960.7	1920.4	1717.5	1608.5	1526.3	1522.9
45°	10777.9	7294.3	2329.7	1846.6	1907.0	1937.2	1742.6	1653.7	1566.5	1467.6	1460.9
47.5°	11723.8	7822.6	2312.9	1791.3	1843.3	1861.7	1667.2	1626.9	1528.0	1420.6	1412.2
50°	12753.6	8448.2	2358.2	1725.9	1751.0	1687.3	1642.0	1605.1	1502.8	1397.1	1385.4
52.5°	13818.7	9137.5	2448.8	1637.0	1658.8	1588.3	1631.9	1600.1	1487.7	1345.1	1335.1
55°	14865.3	9831.9	2536.0	1533.0	1564.9	1499.4	1603.4	1579.9	1418.9	1257.9	1249.5
57.5°	15928.6	10522.9	2621.5	1440.7	1474.3	1413.9	1558.1	1526.3	1341.8	1177.4	1174.1
60°	17033.9	11193.8	2661.8	1351.8	1375.3	1335.1	1489.4	1434.0	1254.6	1095.2	1090.2
62.5°	18068.8	11752.3	2596.3	1263.0	1278.0	1261.3	1398.8	1325.0	1167.4	1003.0	1001.3
65°	19107.0	12084.4	2395.1	1175.7	1179.1	1170.7	1271.3	1207.6	1065.0	922.5	912.4
67.5°	20047.9	12270.6	2074.7	1081.8	1073.4	1070.1	1152.3	1080.1	966.1	842.0	831.9
70°	20247.5	11797.6	1585.0	971.1	971.1	962.7	1021.4	947.6	857.1	756.4	753.1
72.5°	18493.1	9924.2	1125.4	845.3	858.7	842.0	890.6	828.6	746.4	679.3	659.2
75°	14912.2	7277.5	818.5	716.2	739.7	711.1	756.4	712.8	642.4	640.7	577.0
77.5°	10246.2	4500.0	593.7	590.4	607.2	570.3	622.3	598.8	535.0	506.5	474.7
80°	4372.5	1794.6	432.7	456.2	456.2	422.7	483.0	489.8	434.4	421.0	421.0
82.5°	870.5	509.9	303.6	313.6	295.2	285.1	342.2	379.1	523.3	582.0	583.7
85°	261.6	187.8	182.8	171.1	151.0	152.6	201.3	380.7	469.6	268.4	231.5
87.5°	72.1	47.0	48.6	38.6	31.9	41.9	68.8	288.5	157.7	67.1	57.0
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)