

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: P943664

Luminaire Tested: **GALN-SB8B-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943664
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-SB8B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 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: 33250 lumens
Efficiency: N/A
Efficacy: 113.6 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): 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

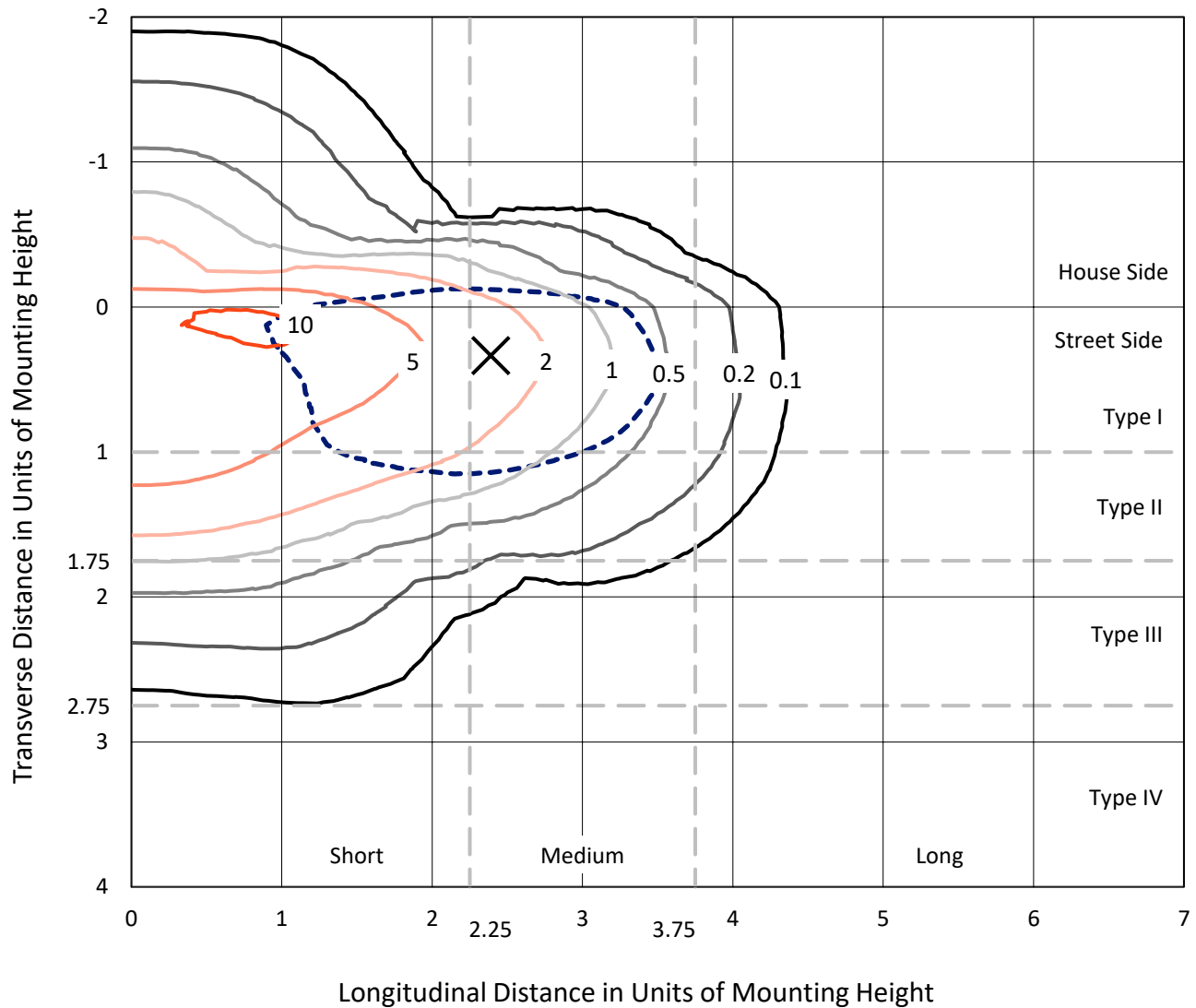


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

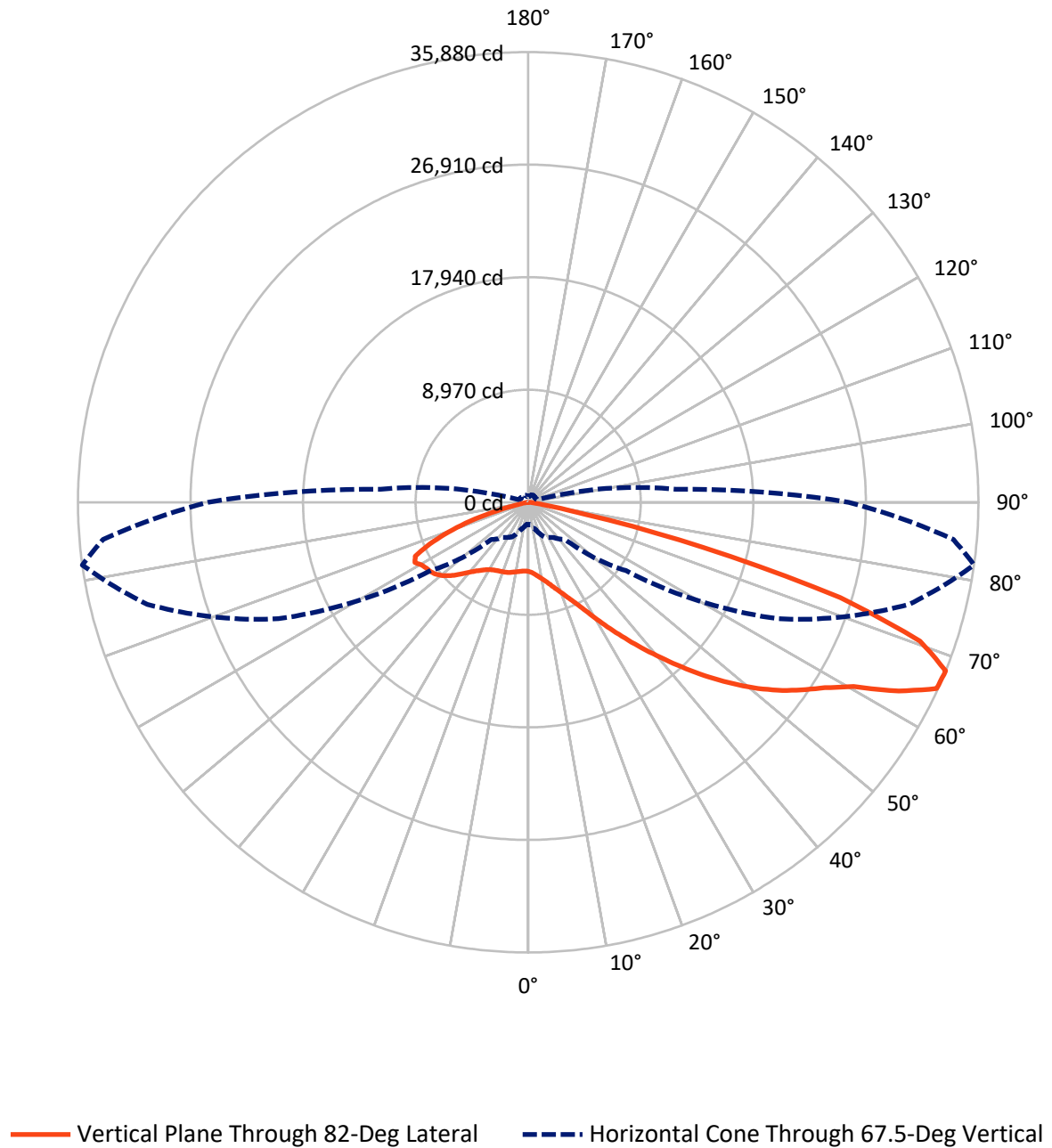


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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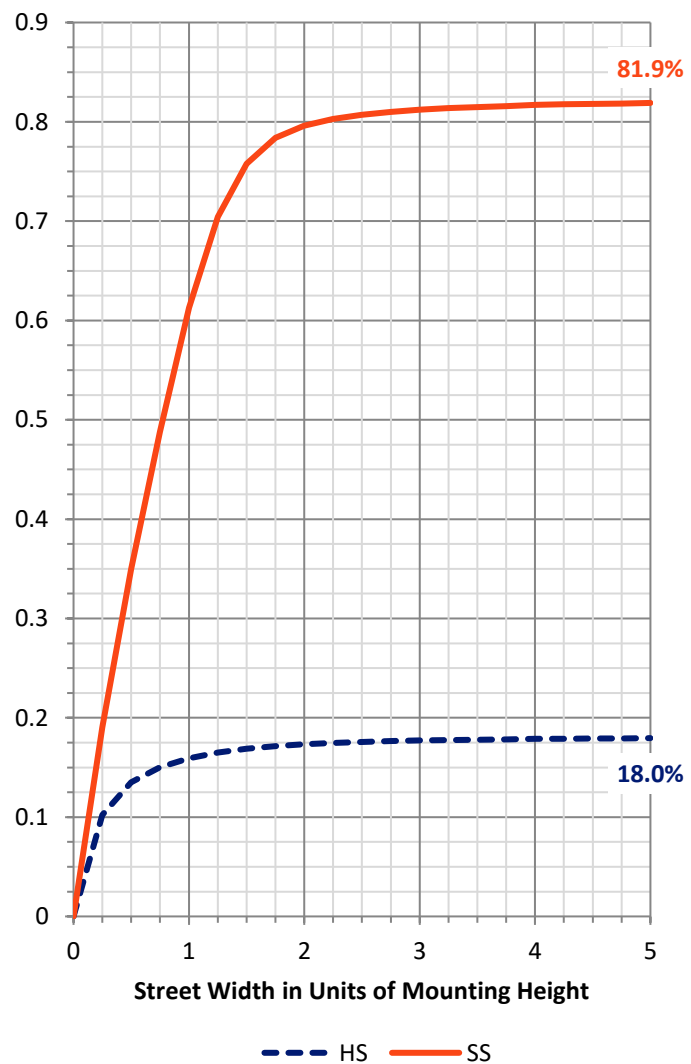
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6022.9	0.0	6022.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27227.1	0.0	27227.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	33250.0	0.0	33250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.8	1.5
10°-20°	1275.3	3.8
20°-30°	2042.6	6.1
30°-40°	3611.9	10.9
40°-50°	6328.5	19.0
50°-60°	8440.4	25.4
60°-70°	7857.6	23.6
70°-80°	3015.7	9.1
80°-90°	187.3	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°	33250.0	100.0
0°-180°	33250.0	100.0

Coefficient of Utilization



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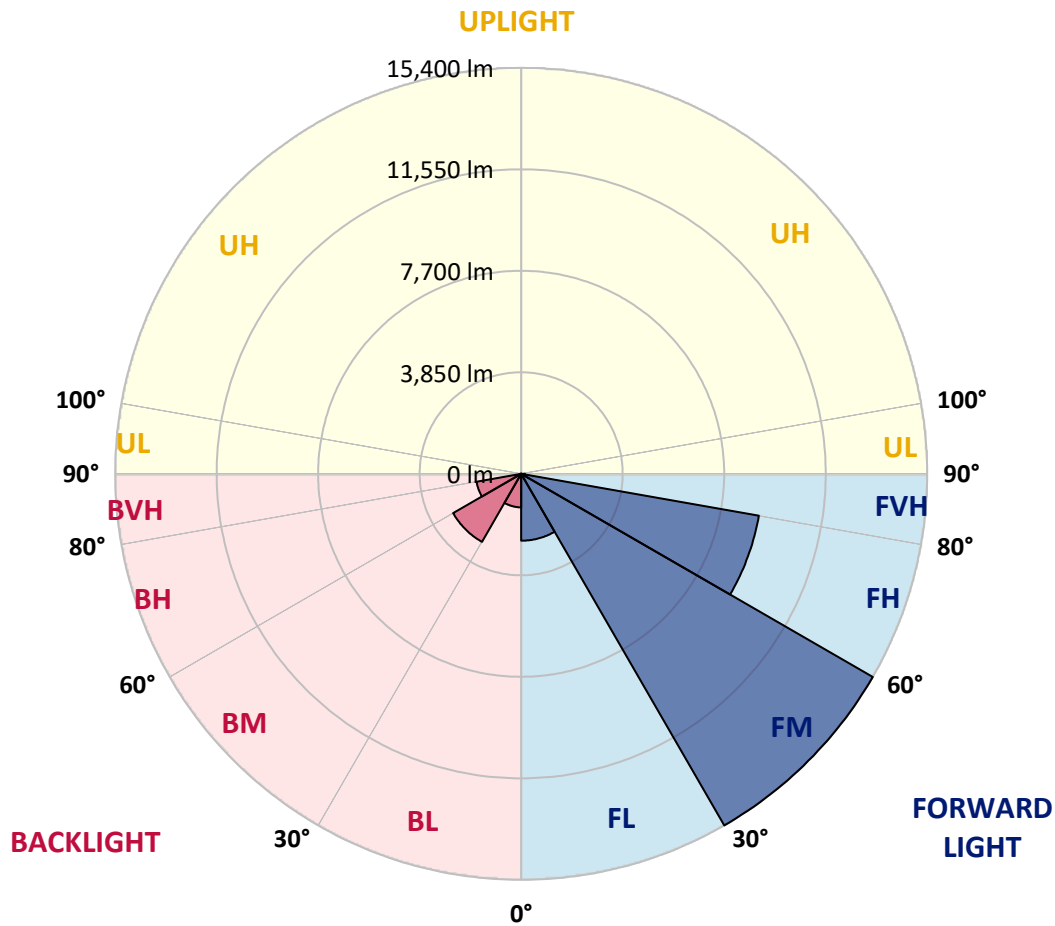
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2536.6	7.6			
FM	(30°-60°)	15400.0	46.3			
FH	(60°-80°)	9154.2	27.5			G4/12000
FVH	(80°-90°)	136.2	0.4			G2/225
BL	(0°-30°)	1272.0	3.8	B3/2500		
BM	(30°-60°)	2980.7	9.0	B3/5000		
BH	(60°-80°)	1719.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	51.1	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°	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4
2.5°	5822.0	5855.5	5836.4	5826.8	5810.0	5786.1	5766.9	5707.1	5644.9	5604.2	5589.8
5°	5939.3	5972.8	5970.4	5980.0	5992.0	5999.2	5994.4	5927.3	5838.8	5769.3	5728.6
7.5°	5838.8	5877.1	5908.2	5956.1	6039.8	6128.4	6171.5	6157.2	6066.2	5970.4	5920.2
10°	5553.9	5594.6	5668.8	5781.3	5958.5	6150.0	6310.4	6384.6	6327.1	6221.8	6152.4
12.5°	5032.0	5072.7	5218.7	5462.9	5759.8	6092.5	6398.9	6597.6	6612.0	6506.7	6425.3
15°	4445.5	4486.2	4641.8	4948.2	5400.7	5934.5	6446.8	6822.7	6949.5	6858.6	6760.4
17.5°	4081.6	4117.5	4234.8	4481.4	4953.0	5618.5	6430.1	7062.1	7351.7	7279.9	7162.6
20°	3971.5	4002.6	4057.7	4230.0	4622.7	5290.6	6319.9	7287.1	7785.0	7744.3	7612.7
22.5°	4088.8	4117.5	4134.3	4210.9	4457.5	5075.1	6181.1	7516.9	8287.7	8292.5	8132.1
25°	4359.3	4388.0	4368.9	4416.8	4524.5	5008.1	6128.4	7787.4	8919.7	8972.4	8790.5
27.5°	4804.6	4807.0	4761.5	4759.1	4775.9	5108.6	6183.5	8077.1	9716.9	9815.1	9590.0
30°	5697.5	5661.6	5486.9	5297.7	5211.6	5410.2	6336.7	8419.4	10657.7	10832.5	10550.0
32.5°	7074.0	7021.4	6700.6	6248.1	5793.3	5896.2	6612.0	8809.6	11682.3	11998.3	11653.6
35°	8567.8	8553.5	8218.3	7545.6	6750.8	6588.1	7059.7	9321.9	12800.3	13303.0	12893.6
37.5°	9956.3	9949.1	9757.6	8965.2	7998.1	7552.8	7777.8	9992.2	13997.2	14725.0	14241.4
40°	11225.1	11246.6	11055.1	10346.5	9372.2	8790.5	8754.5	10820.5	15328.2	16273.8	15699.3
42.5°	12321.5	12345.4	12151.5	11627.2	10729.5	10159.8	9953.9	11835.5	16628.1	17937.6	17257.7
45°	13066.0	13214.4	13185.7	12766.8	12122.8	11531.5	11395.0	13109.1	18110.0	19701.9	18904.8
47.5°	13276.7	13413.1	13628.6	13686.0	13293.4	12711.7	12874.5	14643.6	19608.6	21468.6	20561.3
50°	12757.2	12884.1	13331.7	13927.8	14200.7	14021.2	14313.2	16288.2	21143.1	23230.6	22186.8
52.5°	11732.6	11861.9	12426.8	13370.0	14483.2	15048.2	15756.8	17908.9	22629.7	24899.1	23726.1
55°	10250.7	10387.2	11112.6	12180.2	13944.6	15471.9	16960.9	19527.2	23991.8	26400.1	25114.6
57.5°	8235.1	8335.6	9089.7	10583.5	12589.6	15050.5	17849.0	21293.9	25275.0	27874.8	26491.1
60°	5367.2	5455.7	6331.9	7998.1	10344.1	13642.9	18026.2	23264.1	26979.4	29792.3	28346.4
62.5°	3569.3	3629.2	4148.7	5371.9	7284.7	10940.2	16989.6	24836.9	29478.7	33129.4	31527.9
65°	2449.0	2508.8	3028.3	3880.5	4706.4	7236.8	14009.2	24628.6	31743.3	35779.5	33885.9
67.5°	1747.6	1797.8	2238.3	3042.7	3406.5	4203.7	9496.7	21966.6	31417.7	35880.0	34012.8
70°	1252.0	1280.7	1644.6	2370.0	2707.5	2525.6	5281.0	16800.5	27508.5	33131.8	31422.5
72.5°	876.2	885.7	1141.9	1805.0	2180.9	1843.3	2513.6	11201.1	20805.5	26005.1	24360.5
75°	593.7	605.7	768.4	1323.8	1750.0	1407.6	1331.0	6006.3	12213.8	14394.6	12903.2
77.5°	363.9	368.7	495.5	904.9	1309.5	1072.5	857.0	2544.7	4725.6	4639.4	3954.7
80°	205.9	205.9	316.0	562.6	892.9	691.8	600.9	1082.0	1496.2	1314.3	1158.7
82.5°	114.9	117.3	229.8	349.5	591.3	409.4	330.4	500.3	646.4	572.1	497.9
85°	47.9	52.7	141.2	165.2	282.5	203.5	134.1	210.7	239.4	213.1	155.6
87.5°	4.8	7.2	43.1	31.1	33.5	40.7	19.2	40.7	33.5	33.5	23.9
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°	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4
2.5°	5544.3	5508.4	5417.4	5312.1	5173.3	5106.2	5015.3	4953.0	4900.3	4905.1	4857.3
5°	5652.0	5561.1	5357.6	5103.8	4787.8	4562.8	4323.4	4158.2	4024.2	3995.4	3930.8
7.5°	5800.5	5656.8	5300.1	4842.9	4309.0	3904.5	3543.0	3310.8	3145.6	3092.9	3040.3
10°	5992.0	5783.7	5225.9	4514.9	3746.5	3231.8	2844.0	2662.0	2549.5	2511.2	2482.5
12.5°	6214.6	5929.7	5127.8	4115.1	3167.2	2671.6	2425.0	2334.1	2298.2	2286.2	2279.0
15°	6494.7	6111.7	4979.3	3641.1	2676.4	2329.3	2223.9	2212.0	2216.8	2212.0	2209.6
17.5°	6827.4	6310.4	4737.6	3152.8	2346.0	2154.5	2116.2	2125.8	2137.8	2135.4	2130.6
20°	7191.3	6506.7	4428.7	2719.5	2121.0	2030.0	2008.5	2018.1	2027.6	2022.9	2020.5
22.5°	7605.5	6717.3	4086.4	2381.9	1970.2	1915.1	1891.2	1893.6	1893.6	1884.0	1879.2
25°	8101.0	6949.5	3727.3	2142.6	1855.3	1812.2	1783.5	1773.9	1759.5	1730.8	1726.0
27.5°	8692.3	7196.1	3382.6	1975.0	1764.3	1723.6	1690.1	1666.2	1630.3	1582.4	1577.6
30°	9357.8	7495.3	3090.5	1869.6	1692.5	1651.8	1613.5	1577.6	1524.9	1465.1	1460.3
32.5°	10140.6	7816.1	2877.5	1800.2	1627.9	1584.8	1539.3	1496.2	1438.7	1378.9	1381.3
35°	11074.3	8203.9	2753.0	1752.3	1577.6	1520.1	1469.9	1422.0	1378.9	1326.2	1321.4
37.5°	12086.9	8615.7	2714.7	1728.4	1544.1	1455.5	1398.0	1364.5	1359.7	1328.6	1326.2
40°	13195.3	9104.1	2743.4	1714.0	1508.2	1393.3	1331.0	1323.8	1335.8	1280.7	1283.1
42.5°	14368.3	9683.4	2791.3	1697.3	1457.9	1331.0	1271.2	1271.2	1261.6	1185.0	1185.0
45°	15637.1	10351.3	2839.2	1656.6	1398.0	1268.8	1223.3	1206.5	1165.8	1091.6	1089.2
47.5°	16915.4	11031.2	2875.1	1582.4	1326.2	1216.1	1175.4	1137.1	1077.3	1010.2	1007.8
50°	18129.1	11641.6	2836.8	1472.3	1244.8	1165.8	1122.7	1070.1	1005.4	960.0	952.8
52.5°	19213.6	12170.7	2674.0	1343.0	1158.7	1113.2	1074.9	1019.8	967.1	919.3	914.5
55°	20156.8	12599.2	2386.7	1220.9	1082.0	1067.7	1029.4	960.0	888.1	847.4	842.7
57.5°	21061.7	12924.8	2027.6	1120.4	1012.6	1017.4	960.0	897.7	830.7	787.6	782.8
60°	22265.8	13360.4	1663.8	1027.0	938.4	952.8	890.5	845.1	761.3	706.2	699.0
62.5°	24190.5	14037.9	1321.4	912.1	852.2	857.0	830.7	775.6	675.1	610.4	605.7
65°	25717.8	13789.0	1041.4	787.6	754.1	761.3	761.3	701.4	593.7	519.5	512.3
67.5°	25545.5	11806.8	830.7	665.5	660.7	665.5	682.3	632.0	526.7	466.8	457.2
70°	23532.2	9391.3	665.5	553.0	574.5	562.6	610.4	576.9	474.0	414.1	407.0
72.5°	19201.6	6765.2	507.5	457.2	440.5	459.6	550.6	519.5	395.0	328.0	320.8
75°	11220.3	3610.0	378.2	361.5	318.4	383.0	488.4	442.9	301.6	241.8	234.6
77.5°	3653.1	1259.2	277.7	265.7	237.0	308.8	416.5	373.5	246.6	191.5	184.3
80°	979.1	380.6	189.1	174.8	153.2	229.8	330.4	296.8	177.1	124.5	122.1
82.5°	392.6	160.4	110.1	98.2	83.8	158.0	260.9	239.4	131.7	79.0	79.0
85°	126.9	52.7	40.7	31.1	38.3	98.2	155.6	162.8	93.4	40.7	31.1
87.5°	16.8	7.2	7.2	9.6	7.2	16.8	47.9	45.5	26.3	4.8	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)