

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: P952721

Luminaire Tested: **GALN-SB6C-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42688 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 300.9
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



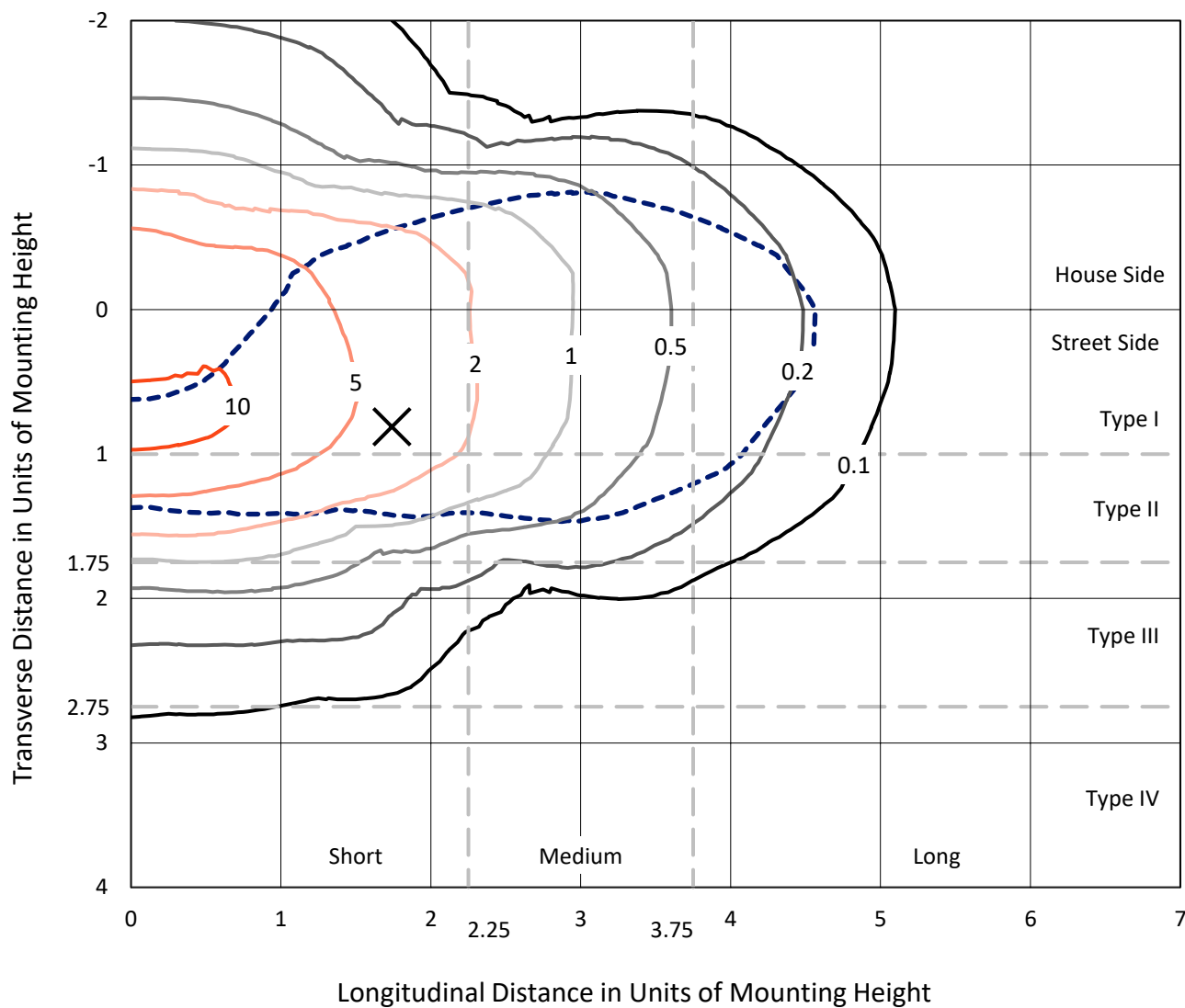
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

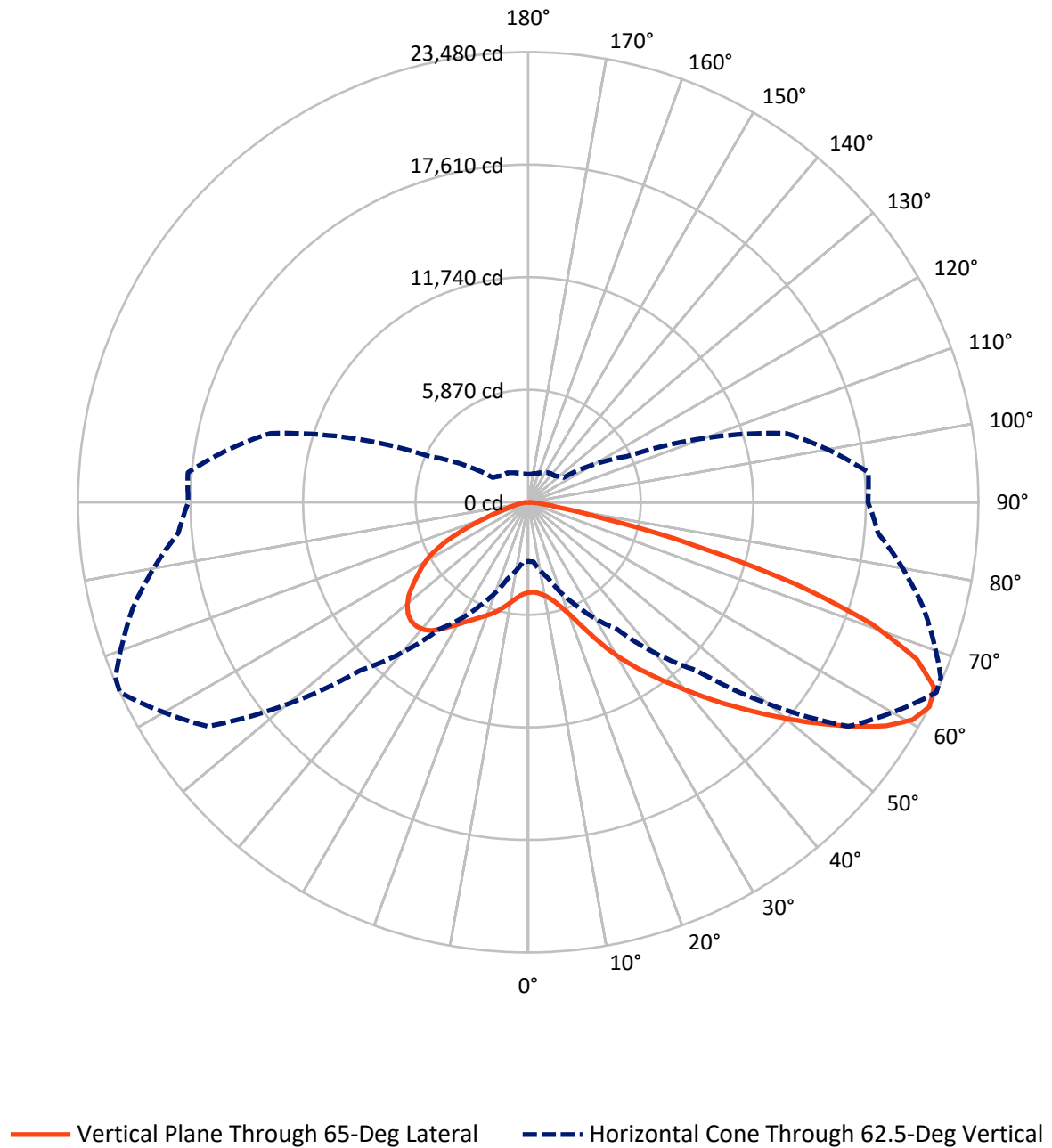


Based on 25 foot mounting height. Maximum calculated value = 12 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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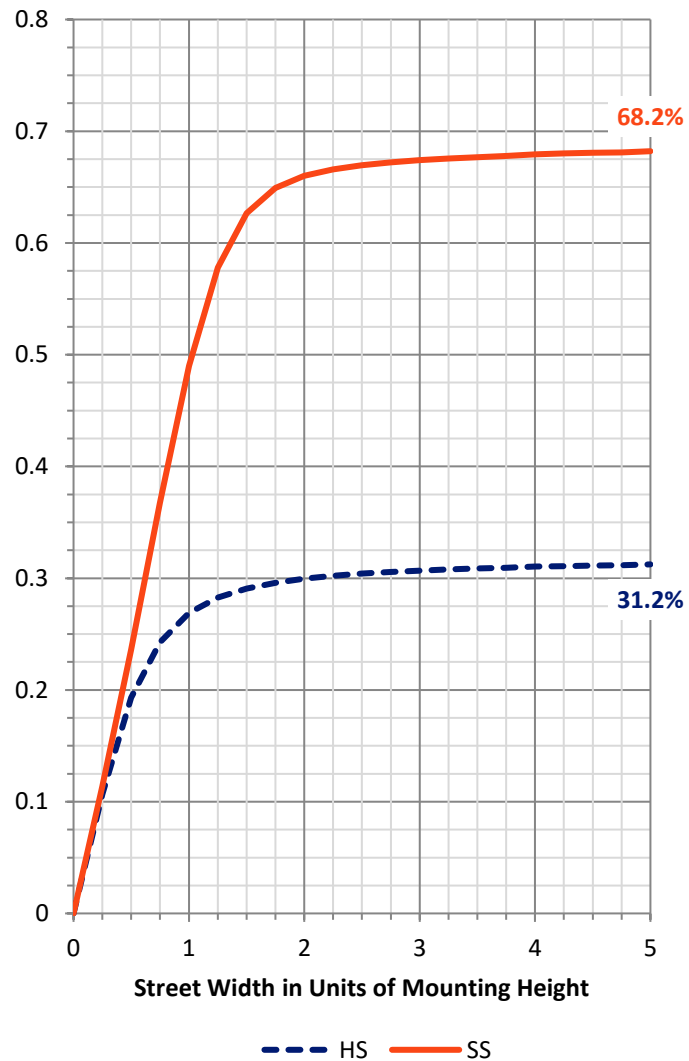
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13470.5	0.0	13470.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29217.5	0.0	29217.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	42688.0	0.0	42688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.0	1.1
10°-20°	1590.4	3.7
20°-30°	3224.7	7.6
30°-40°	5580.2	13.1
40°-50°	8444.6	19.8
50°-60°	9900.7	23.2
60°-70°	8300.6	19.4
70°-80°	4582.6	10.7
80°-90°	595.3	1.4
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°	42688.0	100.0
0°-180°	42688.0	100.0

Coefficient of Utilization



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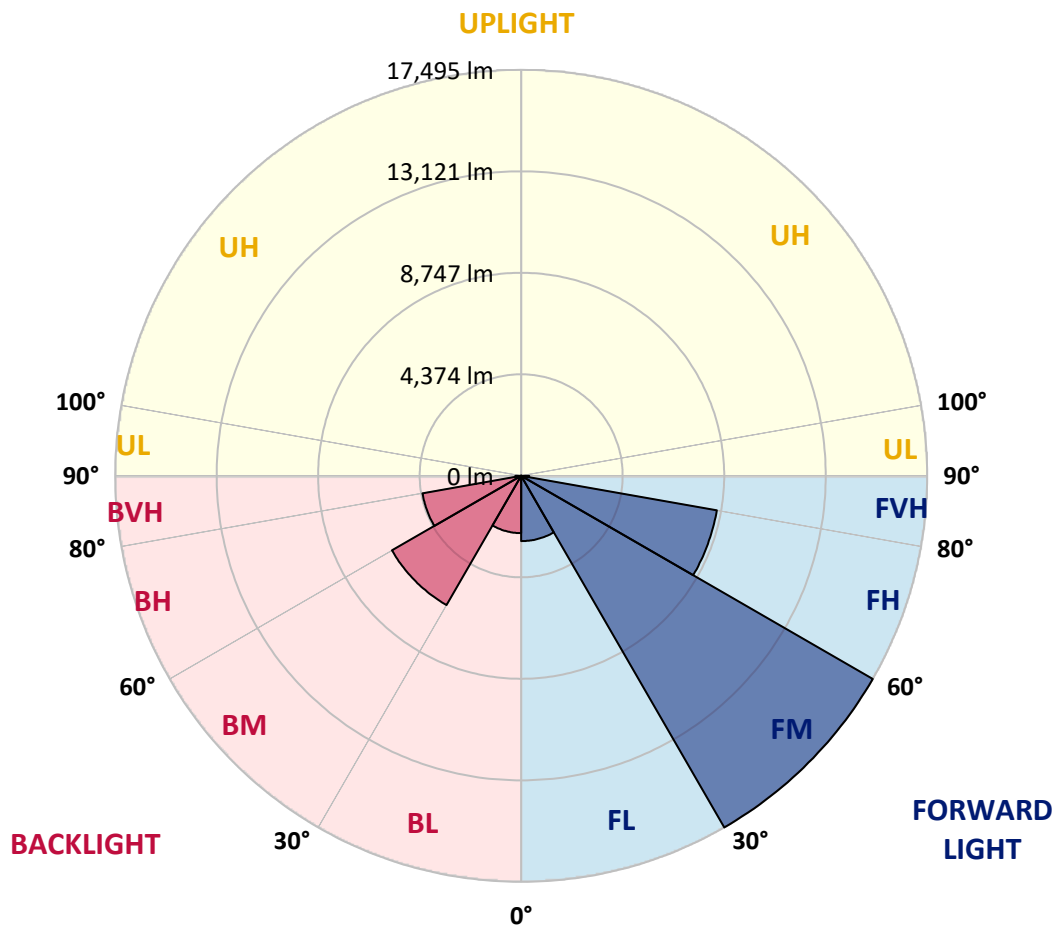
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2813.7	6.6			
FM	(30°-60°)	17494.9	41.0			
FH	(60°-80°)	8562.0	20.1			G4/12000
FVH	(80°-90°)	346.9	0.8			G3/500
BL	(0°-30°)	2470.3	5.8	B3/2500		
BM	(30°-60°)	6430.6	15.1	B4/8500		
BH	(60°-80°)	4321.2	10.1	B4/5000		G4/5000
BVH	(80°-90°)	248.3	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0
2.5°	4673.0	4659.7	4670.8	4670.8	4675.2	4673.0	4688.5	4693.0	4699.6	4712.9	4712.9
5°	4626.5	4624.3	4644.2	4662.0	4679.7	4695.2	4715.1	4743.9	4748.3	4763.8	4783.8
7.5°	4611.0	4597.7	4628.7	4650.9	4693.0	4730.6	4783.8	4832.5	4852.4	4859.1	4896.7
10°	4730.6	4708.5	4737.3	4750.5	4786.0	4823.6	4885.6	4963.2	4985.3	5011.9	5054.0
12.5°	4934.4	4910.0	4952.1	4972.0	5005.2	5038.5	5080.5	5155.8	5166.9	5215.6	5255.5
15°	5213.4	5184.6	5211.2	5235.6	5290.9	5321.9	5364.0	5437.1	5437.1	5474.7	5503.5
17.5°	5592.1	5554.5	5574.4	5583.3	5618.7	5665.2	5736.1	5800.3	5833.5	5820.2	5780.4
20°	6156.9	6110.4	6110.4	6066.1	6052.8	6090.4	6183.5	6272.0	6307.5	6238.8	6141.4
22.5°	7005.1	6938.7	6901.0	6750.4	6690.6	6695.1	6788.1	6896.6	6925.4	6803.6	6584.3
25°	8083.7	7979.6	7928.6	7707.2	7572.1	7454.7	7527.8	7667.3	7707.2	7556.6	7202.2
27.5°	9162.2	9168.9	9120.2	8854.4	8630.7	8415.9	8378.2	8524.4	8566.5	8395.9	7957.4
30°	10674.9	10517.6	10424.6	10105.7	9786.8	9485.6	9330.6	9390.3	9401.4	9197.7	8688.3
32.5°	11979.3	11939.5	11740.1	11461.1	11051.4	10579.6	10320.5	10225.3	10207.6	9917.4	9312.8
35°	13465.4	13443.3	13232.9	12900.7	12457.7	11802.2	11334.9	11062.4	11040.3	10632.8	9930.7
37.5°	14975.8	14975.8	14769.9	14406.7	13948.2	13128.8	12417.8	11986.0	11915.1	11383.6	10559.7
40°	16180.6	16107.5	16145.2	15992.4	15467.5	14597.1	13620.4	12993.7	12898.4	12260.6	11228.6
42.5°	16865.0	16840.6	17066.5	17237.0	17022.2	16326.8	14944.8	14085.5	13952.6	13226.2	11999.3
45°	17017.8	16991.2	17394.3	18018.8	18320.0	18034.3	16384.4	15235.0	15073.3	14236.1	12825.4
47.5°	16665.7	16612.5	17203.8	18189.4	19155.0	19657.7	17943.5	16481.8	16247.1	15219.4	13673.6
50°	15607.0	15556.1	16450.8	17759.7	19436.2	20760.6	19635.6	17804.0	17445.2	16273.6	14530.7
52.5°	13305.9	13330.3	14732.2	16530.6	19066.4	21447.2	21092.8	19197.1	18765.2	17352.2	15334.6
55°	10364.8	10418.0	12141.0	14121.0	17587.0	21343.1	22087.2	20632.2	20202.5	18366.5	16165.1
57.5°	7421.5	7656.2	9270.8	11230.8	14745.5	19693.2	22304.3	21996.4	21580.1	19473.9	16977.9
60°	4810.3	4852.4	6513.4	8489.0	11228.6	16760.9	21863.6	23030.7	22705.2	20603.4	17657.8
62.5°	3082.9	3111.7	4123.8	5937.6	8081.5	12400.1	20379.7	23480.3	23380.6	21349.8	18311.2
65°	2265.6	2243.5	2770.6	3924.5	5443.7	7647.4	17498.4	23263.3	23460.4	21817.1	18851.6
67.5°	1891.4	1860.4	2119.5	2717.4	4010.8	4343.0	12947.2	21852.5	22574.5	21763.9	19248.0
70°	1723.0	1696.5	1853.7	2017.6	3129.4	2907.9	6526.7	18997.7	20109.5	21159.3	19183.8
72.5°	1459.5	1413.0	1627.8	1791.7	2434.0	2230.2	2697.5	14592.7	15948.1	19221.4	18280.2
75°	1131.7	1100.7	1284.5	1576.9	1829.3	1740.8	1705.3	8861.0	10340.5	14865.1	15992.4
77.5°	897.0	854.9	1023.2	1229.2	1645.5	1313.3	1242.4	3815.9	5282.1	9490.0	11966.0
80°	675.5	637.8	777.4	972.3	1264.6	990.0	803.9	1556.9	1991.0	4808.1	6017.4
82.5°	480.6	447.4	542.6	713.1	850.4	888.1	493.9	872.6	981.1	1853.7	1344.3
85°	307.8	287.9	363.2	447.4	540.4	571.4	301.2	456.2	500.5	764.1	560.3
87.5°	168.3	137.3	194.9	208.2	250.3	228.1	144.0	166.1	179.4	276.8	237.0
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°	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0	4704.0
2.5°	4721.8	4728.4	4750.5	4757.2	4772.7	4792.6	4805.9	4819.2	4819.2	4832.5	4832.5
5°	4786.0	4801.5	4848.0	4872.4	4912.2	4952.1	4976.4	5005.2	5022.9	5031.8	5036.2
7.5°	4910.0	4934.4	5000.8	5042.9	5111.5	5166.9	5204.6	5244.4	5253.3	5277.6	5268.8
10°	5078.3	5107.1	5182.4	5262.1	5344.1	5412.7	5448.2	5477.0	5488.0	5492.5	5481.4
12.5°	5271.0	5313.1	5410.5	5508.0	5594.3	5654.1	5663.0	5656.4	5625.3	5598.8	5598.8
15°	5508.0	5545.6	5654.1	5760.4	5844.6	5855.7	5800.3	5764.9	5727.2	5720.6	5720.6
17.5°	5791.5	5811.4	5911.0	6015.1	6021.8	5984.1	5902.2	5869.0	5833.5	5809.2	5811.4
20°	6121.4	6114.8	6185.7	6230.0	6183.5	6068.3	5944.3	5888.9	5853.5	5824.7	5826.9
22.5°	6515.7	6464.7	6455.9	6444.8	6320.8	6079.4	5911.0	5840.2	5784.8	5744.9	5758.2
25°	7089.3	6894.4	6759.3	6684.0	6404.9	6019.6	5804.7	5647.5	5543.4	5474.7	5501.3
27.5°	7806.8	7479.1	7138.0	6954.2	6404.9	5897.8	5547.8	5293.1	5122.6	5051.7	5087.2
30°	8491.2	8147.9	7645.2	7279.7	6389.4	5698.4	5133.7	4779.3	4580.0	4509.1	4551.2
32.5°	9075.9	8701.6	8183.3	7636.3	6351.8	5375.1	4619.9	4227.9	4035.2	3951.0	3993.1
35°	9618.5	9219.8	8723.7	8028.3	6252.1	4901.1	4055.1	3756.1	3541.3	3406.2	3450.5
37.5°	10174.4	9700.4	9235.3	8382.7	6072.7	4347.5	3621.0	3366.4	3113.9	2932.3	2981.0
40°	10779.0	10212.0	9782.4	8593.1	5778.2	3820.4	3284.4	3051.9	2783.9	2591.2	2628.9
42.5°	11485.5	10825.5	10391.4	8701.6	5375.1	3446.1	3065.2	2837.0	2584.6	2427.3	2458.3
45°	12223.0	11501.0	10947.3	8699.4	4925.5	3271.1	2994.3	2768.4	2489.3	2325.4	2352.0
47.5°	12995.9	12207.5	11427.9	8557.6	4535.7	3295.5	2954.4	2620.0	2312.2	2152.7	2174.8
50°	13771.0	12980.4	11893.0	8291.9	4369.6	3242.3	2806.0	2411.8	2048.6	1904.6	1913.5
52.5°	14539.5	13802.0	12293.8	7913.1	4201.3	3045.2	2615.6	2141.6	1940.1	1840.4	1840.4
55°	15312.5	14614.8	12730.1	7361.7	3780.5	2814.9	2296.6	2039.7	1853.7	1762.9	1754.0
57.5°	16087.6	15553.9	13144.3	6810.2	3251.2	2531.4	2121.7	1915.7	1767.3	1689.8	1676.5
60°	16893.8	16628.0	13571.7	6303.0	2728.5	2168.2	1993.2	1816.1	1665.5	1579.1	1572.4
62.5°	17724.3	17810.7	13906.1	5649.7	2247.9	1946.7	1878.1	1696.5	1550.3	1468.3	1466.1
65°	18561.4	18951.2	14125.4	4743.9	1822.7	1736.3	1754.0	1565.8	1417.4	1346.5	1344.3
67.5°	19192.6	19772.9	14063.4	3590.0	1494.9	1537.0	1599.0	1428.5	1289.0	1233.6	1235.8
70°	19263.5	19675.4	13452.1	2458.3	1251.3	1342.1	1426.3	1293.4	1149.4	1109.6	1111.8
72.5°	18320.0	18346.6	11749.0	1605.7	1058.6	1178.2	1244.7	1156.1	1016.5	976.7	974.5
75°	15846.2	15172.9	8626.3	1058.6	885.9	1012.1	1074.1	1012.1	877.0	885.9	854.9
77.5°	12005.9	10745.7	5237.8	753.0	739.7	850.4	934.6	890.3	775.1	870.4	766.3
80°	6185.7	5813.6	2336.5	562.5	584.7	679.9	768.5	710.9	613.5	584.7	533.7
82.5°	1417.4	1647.7	921.3	403.1	423.0	489.4	586.9	533.7	440.7	372.1	367.6
85°	496.1	542.6	407.5	252.5	248.0	305.6	398.6	356.6	299.0	239.2	252.5
87.5°	157.2	206.0	152.8	101.9	106.3	137.3	183.8	168.3	139.5	90.8	95.2
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)