

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: P951647

Luminaire Tested: **GALN-SB5D-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40369 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 364.9
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

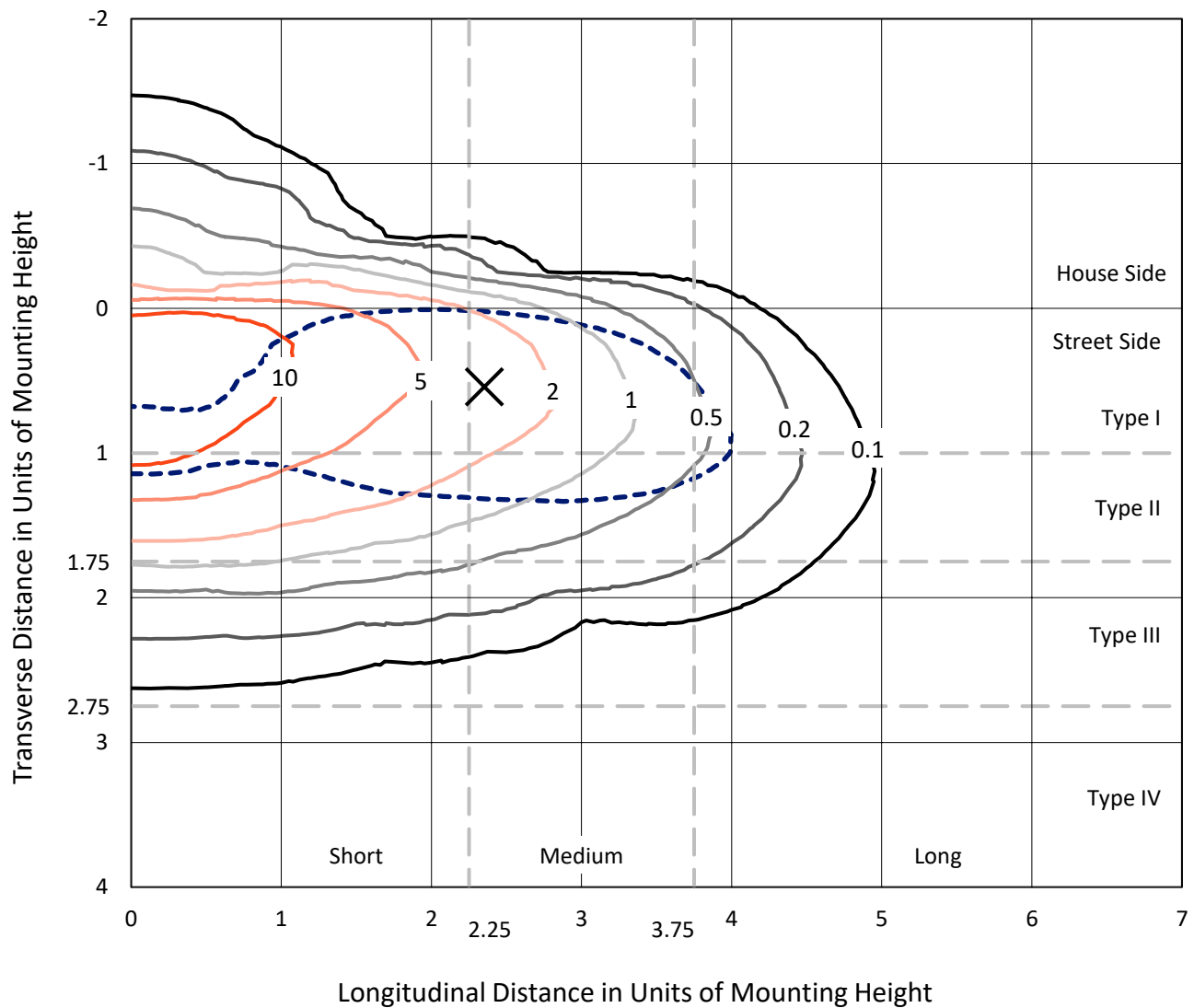


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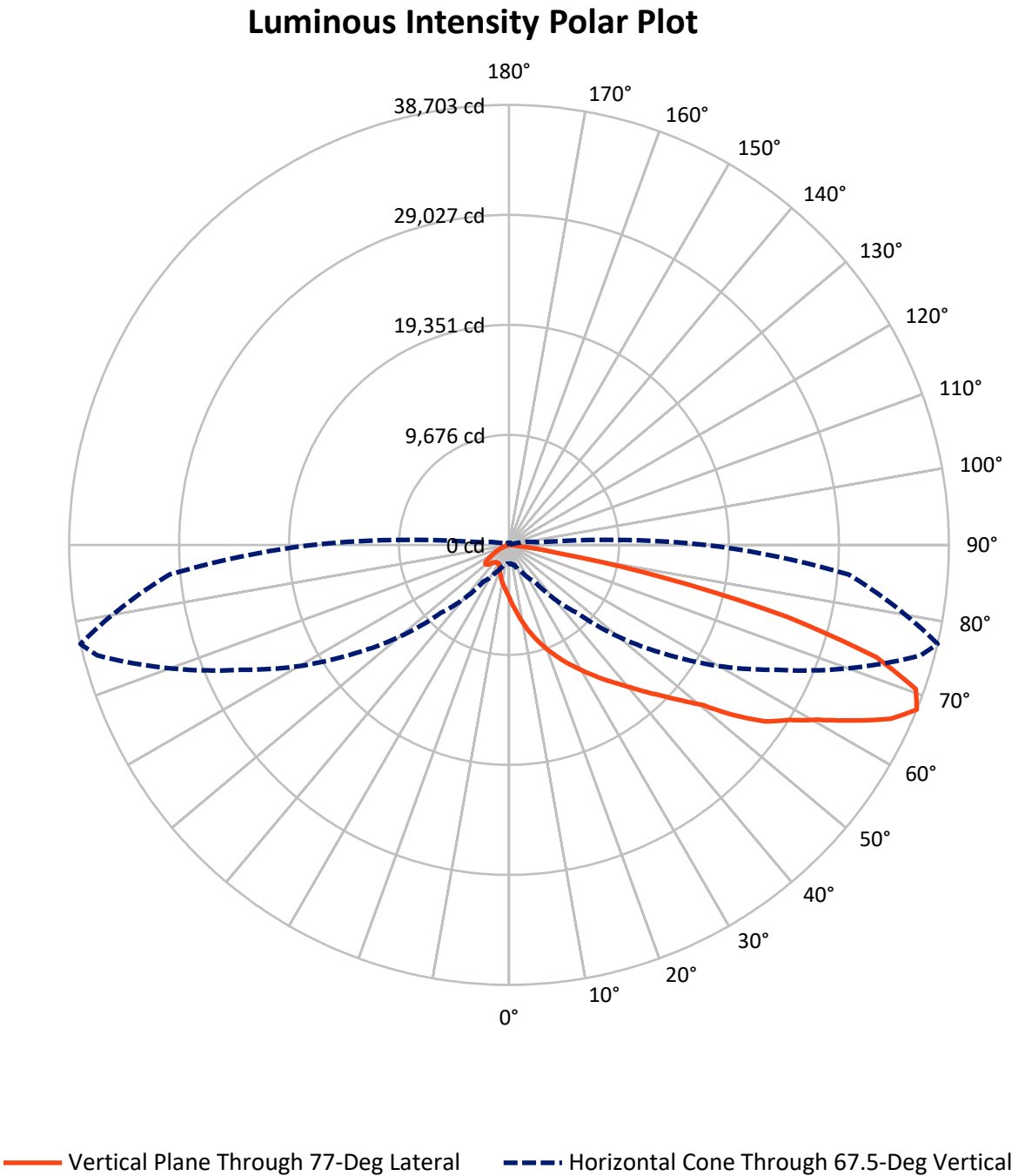
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
Type II - Medium - N/A

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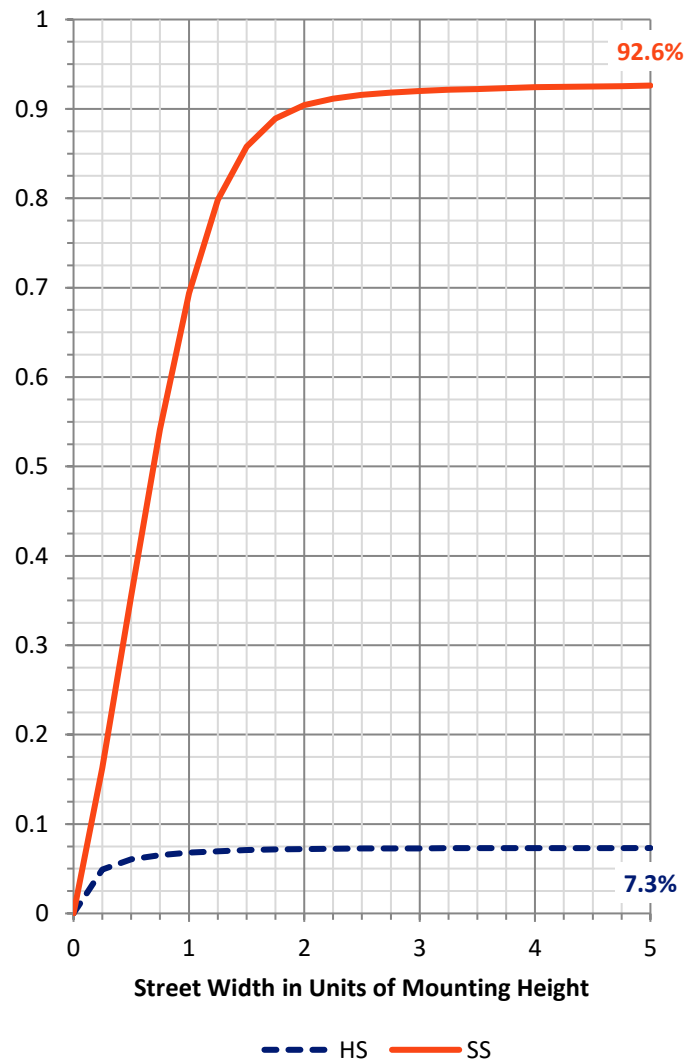
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2970.0	0.0	2970.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	37399.0	0.0	37399.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	40369.0	0.0	40369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.1	1.2
10°-20°	1663.9	4.1
20°-30°	3210.8	8.0
30°-40°	5574.1	13.8
40°-50°	8093.3	20.0
50°-60°	9294.2	23.0
60°-70°	8069.1	20.0
70°-80°	3800.6	9.4
80°-90°	187.9	0.5
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°	40369.0	100.0
0°-180°	40369.0	100.0

Coefficient of Utilization



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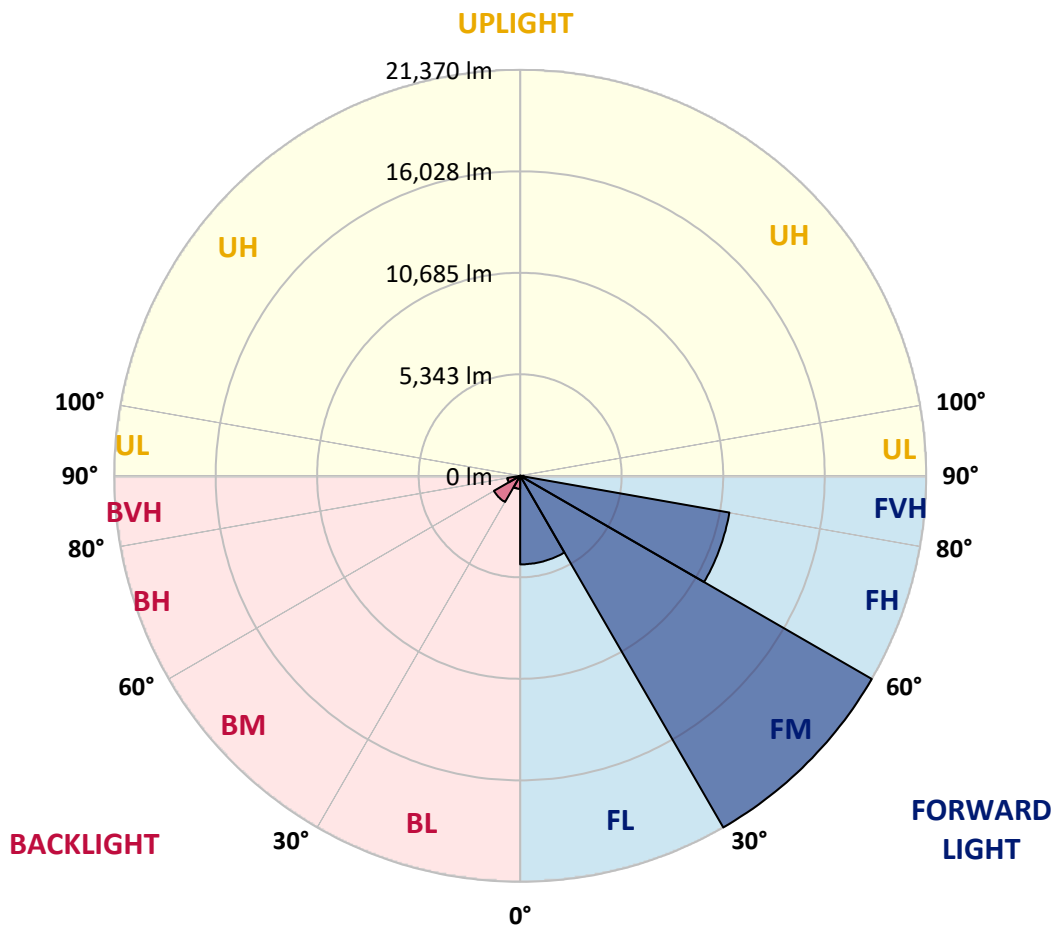
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4662.2	11.5			
FM	(30°-60°)	21370.3	52.9			
FH	(60°-80°)	11182.1	27.7			G4/12000
FVH	(80°-90°)	184.5	0.5			G2/225
BL	(0°-30°)	687.6	1.7	B2/1000		
BM	(30°-60°)	1591.3	3.9	B2/2500		
BH	(60°-80°)	687.6	1.7	B2/1000		G2/1000
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1
2.5°	6445.0	6485.1	6427.5	6317.2	6151.7	6043.9	5780.7	5532.5	5256.8	5169.0	4893.3
5°	7856.3	7891.4	7826.2	7705.9	7485.3	7274.8	6928.8	6409.9	5870.9	5698.0	5209.1
7.5°	8901.7	8921.7	8896.7	8786.4	8575.8	8337.6	7951.6	7337.4	6537.8	6347.2	5597.7
10°	9653.7	9718.9	9711.4	9668.8	9528.4	9335.3	8924.2	8224.8	7284.8	7039.1	6036.4
12.5°	10152.6	10225.3	10267.9	10363.1	10355.6	10232.8	9871.8	9132.3	8029.3	7741.0	6530.2
15°	10298.0	10375.7	10538.6	10759.2	10954.7	11017.4	10764.2	10022.2	8849.0	8480.5	7036.6
17.5°	10215.2	10335.6	10531.1	10879.5	11308.2	11591.5	11563.9	10882.0	9593.5	9172.4	7533.0
20°	10398.2	10513.5	10666.5	10959.8	11458.6	11972.5	12178.1	11704.3	10333.1	9891.9	8054.4
22.5°	11411.0	11390.9	11406.0	11453.6	11751.9	12260.8	12684.4	12451.3	11065.0	10613.8	8605.9
25°	13015.3	12925.1	12772.2	12514.0	12438.8	12684.4	13125.6	13113.1	11837.1	11353.3	9169.9
27.5°	14855.3	14840.3	14481.8	13860.1	13509.2	13413.9	13624.5	13757.4	12601.7	12085.3	9736.4
30°	16617.6	16657.7	16173.9	15482.0	14837.8	14464.3	14273.8	14369.0	13378.8	12875.0	10320.5
32.5°	18151.8	18194.4	17668.0	16858.3	16061.1	15609.9	15208.8	14973.2	14226.1	13677.1	10962.3
35°	19447.8	19490.4	18886.3	17991.3	17141.5	16732.9	16279.2	15635.0	15078.4	14567.1	11676.7
37.5°	20605.9	20593.4	19783.7	18881.3	18046.5	17723.1	17485.0	16449.7	15955.8	15462.0	12468.9
40°	21290.3	21342.9	20651.1	19655.9	18846.2	18610.5	18595.5	17459.9	16968.6	16489.8	13336.2
42.5°	21490.8	21583.6	21082.2	20265.0	19530.5	19274.8	19668.4	18552.9	18146.8	17680.5	14316.4
45°	21129.9	21220.1	20992.0	20425.5	19996.8	19831.3	20590.9	19685.9	19405.2	18943.9	15421.9
47.5°	20077.0	20189.8	20245.0	20124.6	20119.6	20287.6	21418.2	20879.2	20899.2	20428.0	16702.8
50°	18039.0	18229.5	18735.9	19162.0	19821.3	20648.6	22222.8	22172.7	22583.8	22177.7	18372.4
52.5°	14333.9	14604.7	16349.4	17515.1	18996.6	20580.9	23107.7	24248.3	25539.3	24945.2	20726.3
55°	11518.8	11518.8	12937.6	15118.5	17387.2	20134.7	23493.8	25597.0	27552.3	27411.9	22383.3
57.5°	9390.5	9503.3	10408.3	12336.0	15058.4	19071.8	23731.9	26444.3	29174.2	29071.4	24002.7
60°	5795.7	6038.9	7748.5	9651.2	12408.7	17179.1	23581.5	27301.6	31142.1	31224.8	25953.0
62.5°	3263.9	3354.1	4116.2	6943.9	9648.7	14634.7	22430.9	27780.4	33658.9	34009.8	27963.4
65°	2253.6	2298.7	2592.0	4321.7	6688.2	11651.6	20182.3	27482.1	36180.7	36890.2	29668.1
67.5°	1636.9	1659.5	1842.5	2639.7	3968.3	8447.9	16657.7	25978.0	37516.9	38702.6	29993.9
70°	1258.4	1273.5	1406.3	1734.7	2343.9	5214.2	12097.8	22987.4	36549.2	37965.6	28324.4
72.5°	1022.8	1037.8	1140.6	1283.5	1554.2	3083.4	7332.4	18668.2	32277.6	33806.8	24113.0
75°	862.3	882.4	975.1	1067.9	1218.3	1980.4	3439.3	13000.3	24273.4	25276.1	16768.0
77.5°	478.8	441.2	792.2	884.9	1027.8	1253.4	1609.4	7650.8	13594.4	13872.7	7440.2
80°	298.3	308.3	629.2	711.9	789.6	631.7	737.0	2945.5	4712.8	4477.2	1441.4
82.5°	17.5	40.1	483.8	513.9	541.5	270.7	278.3	1000.2	1135.6	1042.8	255.7
85°	0.0	0.0	220.6	178.0	188.0	77.7	80.2	233.1	152.9	165.4	50.1
87.5°	0.0	0.0	0.0	5.0	0.0	7.5	15.0	20.1	7.5	10.0	17.5
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°	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1	4655.1
2.5°	4717.8	4542.3	4186.4	3837.9	3554.7	3291.4	3103.4	2925.4	2835.2	2830.2	2825.2
5°	4860.7	4492.2	3780.3	3151.1	2644.7	2238.6	1975.4	1787.4	1692.1	1659.5	1654.5
7.5°	5061.2	4507.2	3424.3	2549.4	1952.8	1604.4	1453.9	1393.8	1373.7	1351.2	1346.2
10°	5314.4	4542.3	3105.9	2053.1	1539.2	1363.7	1303.5	1278.5	1263.4	1248.4	1243.4
12.5°	5597.7	4574.9	2790.1	1704.6	1353.7	1263.4	1220.8	1190.7	1170.7	1153.1	1148.1
15°	5873.4	4595.0	2461.7	1461.5	1258.4	1185.7	1140.6	1108.0	1080.4	1060.4	1057.9
17.5°	6146.7	4622.6	2153.3	1316.1	1180.7	1108.0	1062.9	1022.8	1000.2	977.7	975.1
20°	6450.0	4617.5	1862.6	1213.3	1103.0	1030.3	982.7	945.1	922.5	897.4	894.9
22.5°	6730.8	4592.5	1606.9	1125.6	1022.8	952.6	899.9	862.3	839.8	819.7	817.2
25°	7054.2	4572.4	1393.8	1045.3	947.6	877.4	819.7	784.6	759.6	742.0	739.5
27.5°	7365.0	4542.3	1238.4	972.6	874.9	807.2	752.0	711.9	689.4	676.8	676.8
30°	7670.8	4534.8	1180.7	902.5	809.7	742.0	686.9	649.3	631.7	626.7	624.2
32.5°	8039.3	4554.9	1205.8	877.4	749.5	681.9	629.2	601.6	584.1	584.1	584.1
35°	8432.9	4549.9	1243.4	899.9	709.4	621.7	581.6	564.0	546.5	546.5	546.5
37.5°	8926.7	4557.4	1273.5	937.5	694.4	571.6	549.0	526.4	516.4	516.4	516.4
40°	9663.7	4805.5	1258.4	970.1	689.4	536.5	491.3	483.8	476.3	476.3	476.3
42.5°	10566.2	5344.5	1278.5	972.6	686.9	511.4	451.2	466.3	448.7	446.2	443.7
45°	11553.9	5933.6	1406.3	920.0	684.4	498.9	431.2	448.7	421.1	421.1	421.1
47.5°	12534.0	6517.7	1536.7	844.8	676.8	496.3	413.6	403.6	396.1	398.6	398.6
50°	13885.2	6994.0	1586.8	742.0	659.3	491.3	381.0	383.5	378.5	383.5	383.5
52.5°	15356.7	7094.3	1526.6	626.7	609.2	476.3	358.5	368.5	366.0	371.0	371.0
55°	16274.2	6986.5	1260.9	521.4	531.4	416.1	335.9	356.0	356.0	356.0	356.0
57.5°	17221.8	6527.7	894.9	423.7	441.2	340.9	315.9	343.4	340.9	338.4	338.4
60°	17903.6	5785.7	589.1	348.4	351.0	280.8	293.3	323.4	320.9	308.3	308.3
62.5°	18412.5	4966.0	378.5	295.8	268.2	253.2	268.2	293.3	283.3	255.7	250.7
65°	18354.8	3830.4	290.8	253.2	220.6	220.6	233.1	255.7	225.6	180.5	175.5
67.5°	17284.4	2592.0	240.7	213.1	185.5	183.0	193.0	213.1	193.0	152.9	147.9
70°	15371.7	1694.6	193.0	165.4	147.9	135.4	155.4	183.0	162.9	122.8	117.8
72.5°	12476.4	1032.8	145.4	120.3	107.8	87.7	122.8	150.4	130.4	90.2	85.2
75°	8071.9	526.4	100.3	77.7	57.7	52.6	90.2	112.8	90.2	55.1	47.6
77.5°	3088.4	220.6	55.1	35.1	30.1	25.1	50.1	67.7	37.6	12.5	10.0
80°	594.1	92.8	27.6	17.5	15.0	10.0	7.5	5.0	0.0	0.0	0.0
82.5°	102.8	30.1	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	0.0	0.0	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	0.0

(END OF REPORT)