

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: P944494

Luminaire Tested: **GALN-SB9C-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944494
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-SB9C-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA 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: 41148 lumens
Efficiency: N/A
Efficacy: 91.5 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): 449.8
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



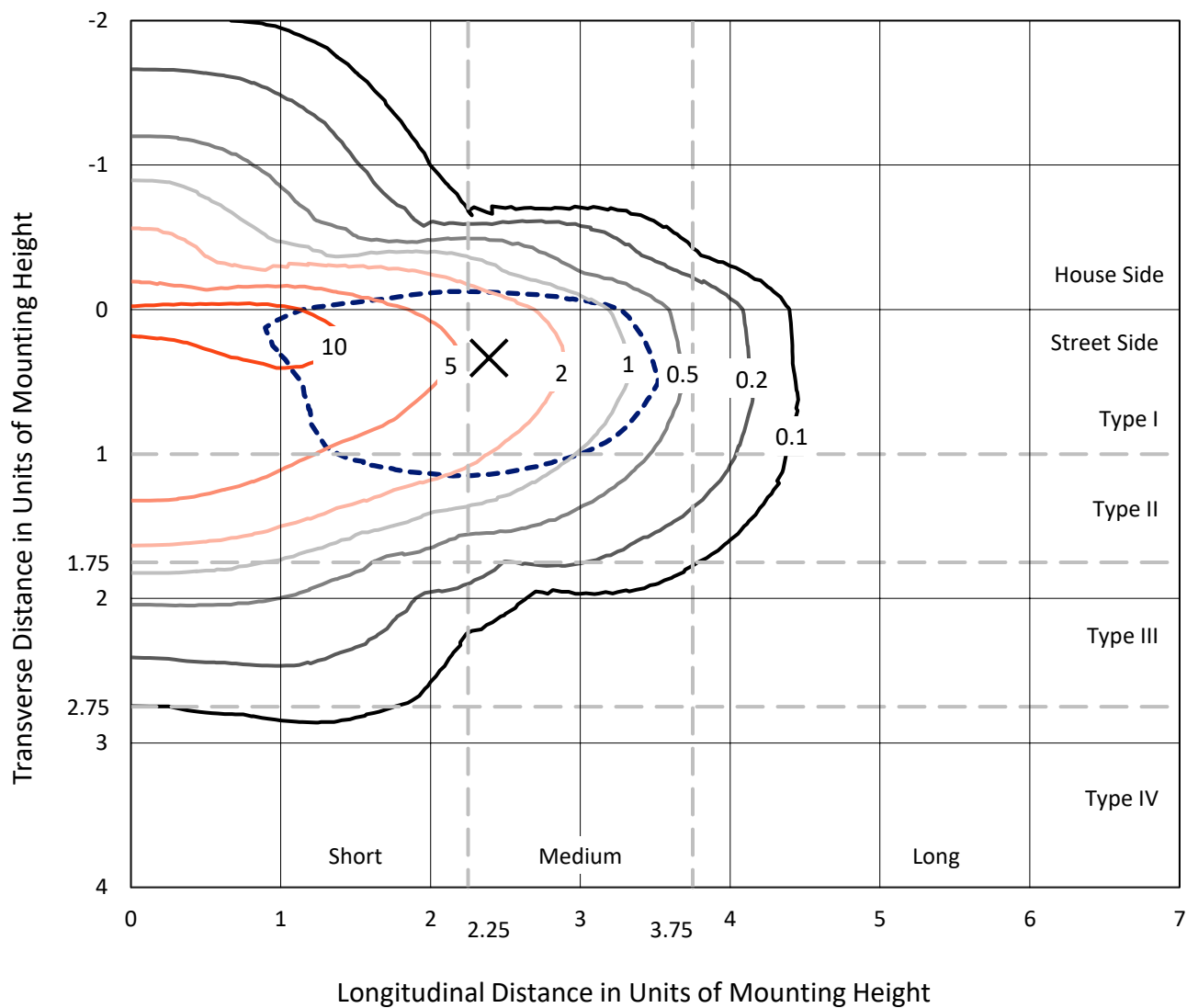
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Iso-Footcandle Lines of Horizontal Illumination

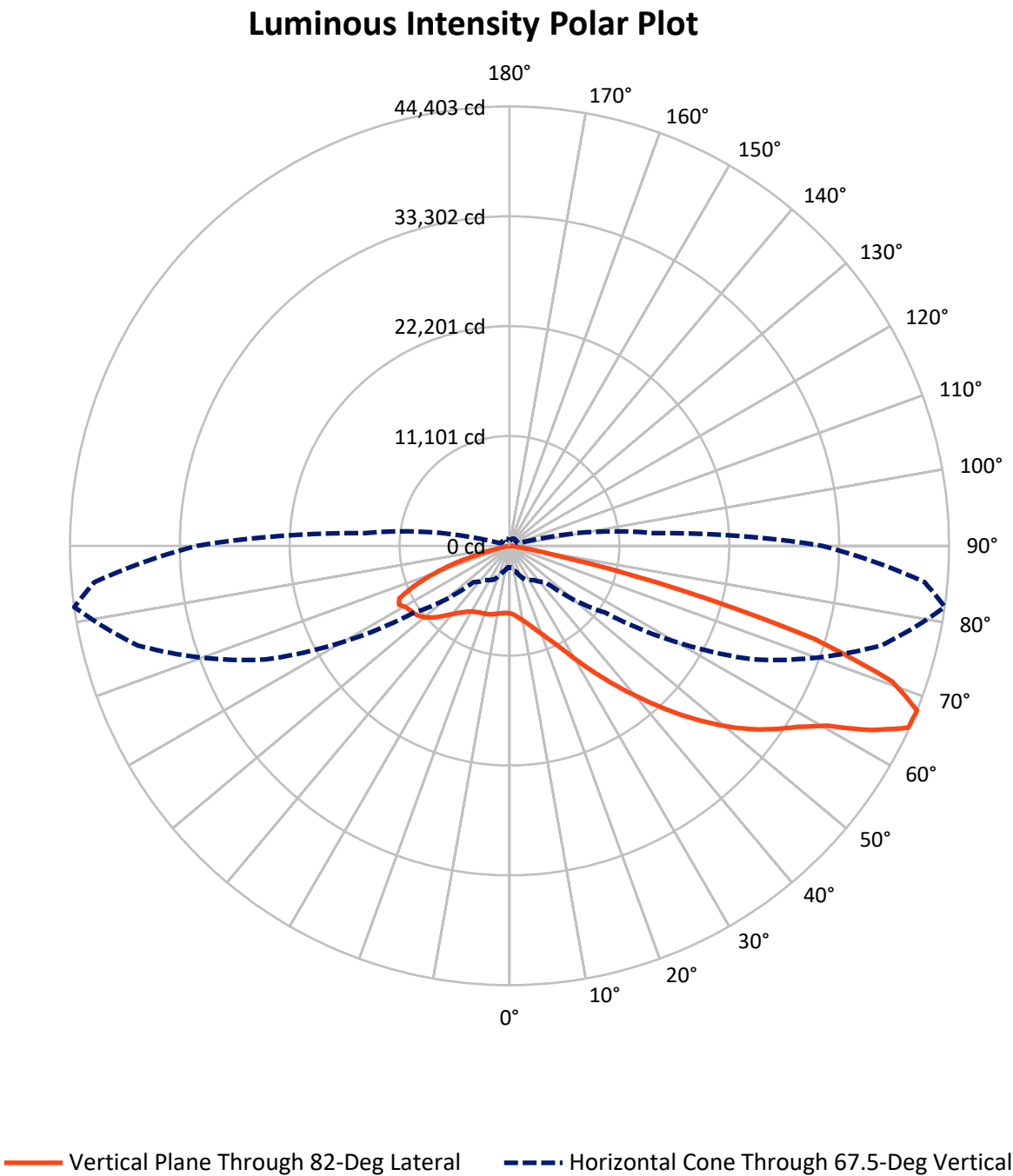
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
Type II - Medium - N/A

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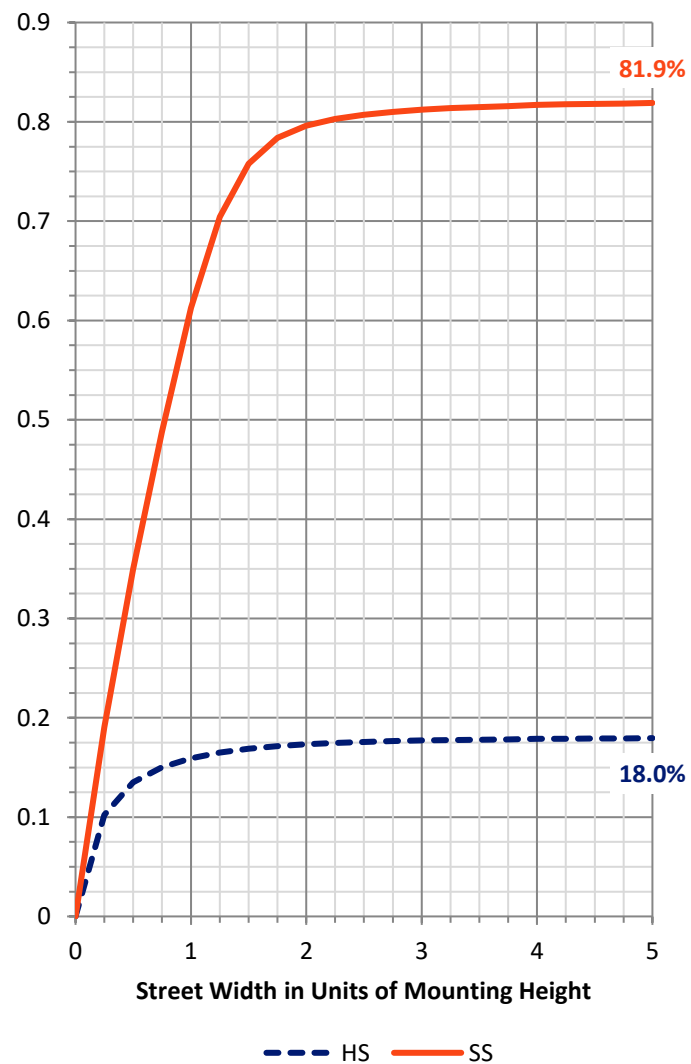
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7453.6	0.0	7453.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33694.4	0.0	33694.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	41148.0	0.0	41148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	1.5
10°-20°	1578.2	3.8
20°-30°	2527.8	6.1
30°-40°	4469.9	10.9
40°-50°	7831.7	19.0
50°-60°	10445.3	25.4
60°-70°	9724.0	23.6
70°-80°	3732.1	9.1
80°-90°	231.8	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°	41148.0	100.0
0°-180°	41148.0	100.0

Coefficient of Utilization



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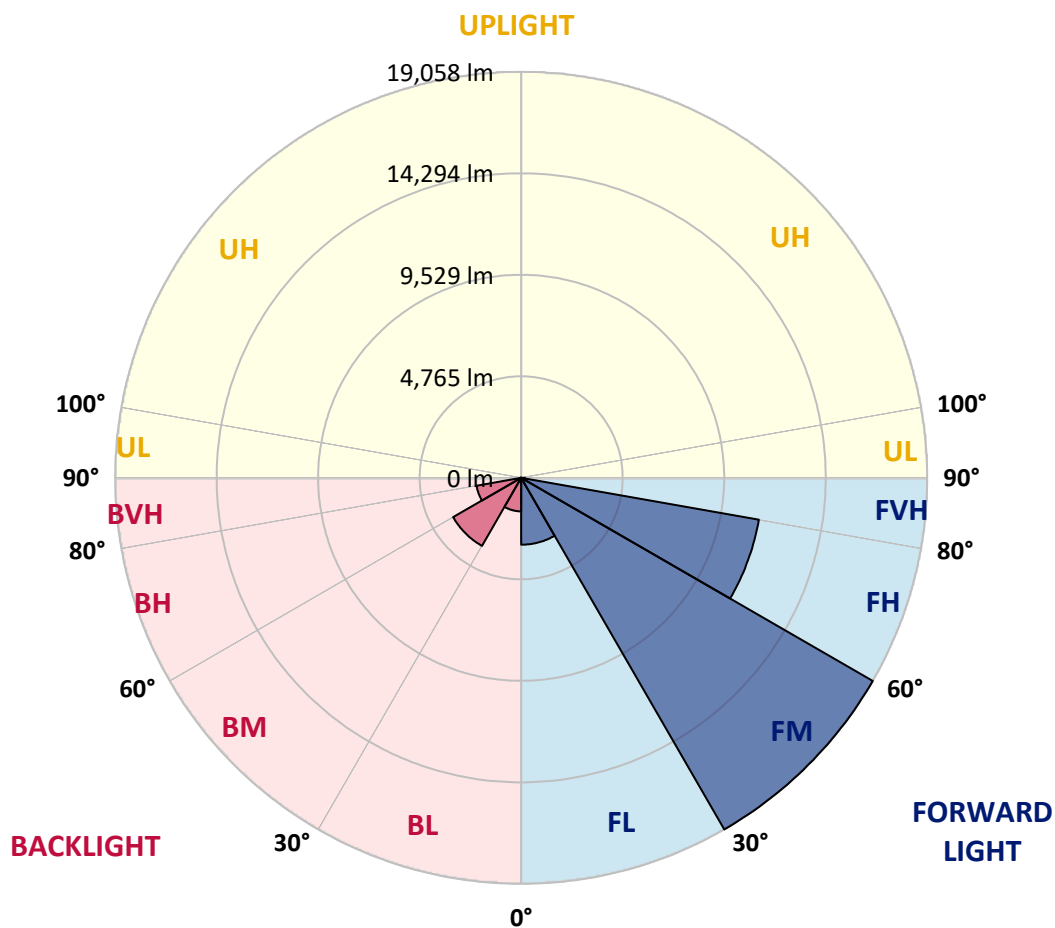
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3139.1	7.6			
FM	(30°-60°)	19058.1	46.3			
FH	(60°-80°)	11328.7	27.5			G4/12000
FVH	(80°-90°)	168.5	0.4			G2/225
BL	(0°-30°)	1574.2	3.8	B3/2500		
BM	(30°-60°)	3688.8	9.0	B3/5000		
BH	(60°-80°)	2127.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	63.3	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°	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8
2.5°	7204.9	7246.4	7222.7	7210.9	7190.1	7160.5	7136.8	7062.7	6985.7	6935.3	6917.6
5°	7350.1	7391.6	7388.6	7400.5	7415.3	7424.2	7418.2	7335.3	7225.7	7139.7	7089.4
7.5°	7225.7	7273.1	7311.6	7370.8	7474.5	7584.1	7637.5	7619.7	7507.1	7388.6	7326.4
10°	6873.1	6923.5	7015.3	7154.6	7373.8	7610.8	7809.3	7901.1	7830.0	7699.7	7613.8
12.5°	6227.3	6277.6	6458.4	6760.5	7127.9	7539.7	7918.9	8164.8	8182.6	8052.2	7951.5
15°	5501.5	5551.8	5744.4	6123.6	6683.5	7344.2	7978.2	8443.3	8600.3	8487.7	8366.2
17.5°	5051.2	5095.6	5240.8	5545.9	6129.5	6953.1	7957.4	8739.5	9098.0	9009.1	8864.0
20°	4914.9	4953.4	5021.5	5234.8	5720.7	6547.2	7821.1	9018.0	9634.2	9583.9	9420.9
22.5°	5060.0	5095.6	5116.3	5211.1	5516.3	6280.6	7649.3	9302.4	10256.4	10262.3	10063.8
25°	5394.8	5430.4	5406.7	5465.9	5599.2	6197.7	7584.1	9637.2	11038.5	11103.6	10878.5
27.5°	5945.8	5948.8	5892.5	5889.6	5910.3	6322.1	7652.3	9995.6	12025.0	12146.5	11868.0
30°	7050.9	7006.4	6790.2	6556.1	6449.5	6695.4	7841.9	10419.3	13189.3	13405.5	13056.0
32.5°	8754.3	8689.2	8292.2	7732.3	7169.4	7296.8	8182.6	10902.2	14457.3	14848.3	14421.7
35°	10603.0	10585.2	10170.4	9338.0	8354.4	8152.9	8736.6	11536.2	15840.8	16462.9	15956.3
37.5°	12321.3	12312.4	12075.4	11094.8	9897.9	9346.9	9625.3	12365.7	17322.0	18222.7	17624.2
40°	13891.4	13918.1	13681.1	12804.1	11598.4	10878.5	10834.1	13390.7	18969.2	20139.4	19428.4
42.5°	15248.3	15277.9	15037.9	14389.1	13278.2	12573.1	12318.3	14646.9	20577.9	22198.4	21357.0
45°	16169.6	16353.3	16317.7	15799.3	15002.4	14270.6	14101.7	16222.9	22411.7	24381.8	23395.3
47.5°	16430.3	16599.2	16865.8	16936.9	16451.0	15731.1	15932.6	18121.9	24266.3	26568.2	25445.4
50°	15787.4	15944.5	16498.4	17236.1	17573.9	17351.7	17713.1	20157.2	26165.3	28748.6	27456.9
52.5°	14519.5	14679.4	15378.6	16545.9	17923.4	18622.6	19499.5	22162.8	28005.0	30813.5	29361.8
55°	12685.6	12854.5	13752.2	15073.5	17256.9	19147.0	20989.7	24165.5	29690.7	32671.0	31080.1
57.5°	10191.2	10315.6	11248.8	13097.4	15580.1	18625.6	22088.8	26351.9	31278.6	34496.0	32783.6
60°	6642.0	6751.7	7835.9	9897.9	12801.2	16883.6	22308.0	28790.1	33388.0	36869.0	35079.6
62.5°	4417.2	4491.2	5134.1	6648.0	9015.0	13538.9	21025.2	30736.5	36480.9	40998.8	39016.8
65°	3030.7	3104.8	3747.6	4802.3	5824.4	8955.8	17336.9	30478.7	39283.4	44278.3	41934.9
67.5°	2162.7	2224.9	2770.0	3765.4	4215.7	5202.2	11752.4	27184.4	38880.5	44402.7	42091.9
70°	1549.4	1585.0	2035.3	2932.9	3350.6	3125.5	6535.4	20791.2	34042.7	41001.7	38886.5
72.5°	1084.3	1096.1	1413.1	2233.8	2698.9	2281.2	3110.7	13861.8	25747.5	32182.2	30146.9
75°	734.7	749.5	951.0	1638.3	2165.6	1742.0	1647.2	7433.0	15114.9	17813.8	15968.2
77.5°	450.3	456.2	613.2	1119.8	1620.5	1327.2	1060.6	3149.2	5848.1	5741.4	4894.1
80°	254.8	254.8	391.1	696.2	1105.0	856.2	743.6	1339.1	1851.6	1626.4	1433.9
82.5°	142.2	145.2	284.4	432.5	731.8	506.6	408.8	619.2	799.9	708.0	616.2
85°	59.3	65.2	174.8	204.4	349.6	251.8	165.9	260.7	296.3	263.7	192.6
87.5°	5.9	8.9	53.3	38.5	41.5	50.4	23.7	50.4	41.5	41.5	29.6
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°	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8	6816.8
2.5°	6861.3	6816.8	6704.3	6573.9	6402.1	6319.1	6206.5	6129.5	6064.3	6070.3	6011.0
5°	6994.6	6882.0	6630.2	6316.2	5925.1	5646.6	5350.4	5146.0	4980.0	4944.5	4864.5
7.5°	7178.3	7000.5	6559.1	5993.2	5332.6	4831.9	4384.6	4097.2	3892.8	3827.6	3762.4
10°	7415.3	7157.5	6467.3	5587.4	4636.4	3999.4	3519.5	3294.4	3155.1	3107.7	3072.2
12.5°	7690.8	7338.2	6345.8	5092.6	3919.5	3306.2	3001.1	2888.5	2844.0	2829.2	2820.3
15°	8037.4	7563.4	6162.1	4506.0	3312.1	2882.6	2752.2	2737.4	2743.3	2737.4	2734.4
17.5°	8449.2	7809.3	5862.9	3901.7	2903.3	2666.3	2618.9	2630.7	2645.6	2642.6	2636.7
20°	8899.5	8052.2	5480.7	3365.5	2624.8	2512.2	2485.6	2497.4	2509.3	2503.4	2500.4
22.5°	9412.0	8312.9	5057.1	2947.7	2438.2	2370.0	2340.4	2343.4	2343.4	2331.5	2325.6
25°	10025.3	8600.3	4612.7	2651.5	2296.0	2242.7	2207.1	2195.3	2177.5	2141.9	2136.0
27.5°	10757.0	8905.4	4186.1	2444.1	2183.4	2133.0	2091.6	2061.9	2017.5	1958.2	1952.3
30°	11580.6	9275.7	3824.7	2313.8	2094.5	2044.2	1996.8	1952.3	1887.1	1813.1	1807.2
32.5°	12549.4	9672.7	3561.0	2227.8	2014.5	1961.2	1904.9	1851.6	1780.5	1706.4	1709.4
35°	13704.8	10152.7	3406.9	2168.6	1952.3	1881.2	1819.0	1759.8	1706.4	1641.3	1635.3
37.5°	14957.9	10662.2	3359.5	2139.0	1910.8	1801.2	1730.1	1688.7	1682.7	1644.2	1641.3
40°	16329.6	11266.6	3395.1	2121.2	1866.4	1724.2	1647.2	1638.3	1653.1	1585.0	1587.9
42.5°	17781.2	11983.5	3454.3	2100.4	1804.2	1647.2	1573.1	1573.1	1561.3	1466.5	1466.5
45°	19351.4	12810.1	3513.6	2050.1	1730.1	1570.2	1513.9	1493.1	1442.8	1350.9	1348.0
47.5°	20933.4	13651.4	3558.0	1958.2	1641.3	1505.0	1454.6	1407.2	1333.1	1250.2	1247.2
50°	22435.4	14406.9	3510.6	1822.0	1540.5	1442.8	1389.4	1324.3	1244.3	1188.0	1179.1
52.5°	23777.4	15061.6	3309.2	1662.0	1433.9	1377.6	1330.2	1262.0	1196.9	1137.6	1131.7
55°	24944.7	15591.9	2953.7	1510.9	1339.1	1321.3	1273.9	1188.0	1099.1	1048.7	1042.8
57.5°	26064.5	15994.8	2509.3	1386.5	1253.2	1259.1	1188.0	1111.0	1028.0	974.7	968.8
60°	27554.7	16534.0	2059.0	1270.9	1161.3	1179.1	1102.1	1045.8	942.1	874.0	865.1
62.5°	29936.6	17372.4	1635.3	1128.7	1054.7	1060.6	1028.0	959.9	835.4	755.5	749.5
65°	31826.7	17064.3	1288.7	974.7	933.2	942.1	942.1	868.0	734.7	642.9	634.0
67.5°	31613.4	14611.3	1028.0	823.6	817.7	823.6	844.3	782.1	651.8	577.7	565.8
70°	29121.9	11622.1	823.6	684.3	711.0	696.2	755.5	714.0	586.6	512.5	503.6
72.5°	23762.6	8372.2	628.1	565.8	545.1	568.8	681.4	642.9	488.8	405.9	397.0
75°	13885.5	4467.5	468.1	447.3	394.0	474.0	604.4	548.1	373.3	299.2	290.3
77.5°	4520.9	1558.3	343.7	328.8	293.3	382.2	515.5	462.2	305.1	237.0	228.1
80°	1211.7	471.0	234.0	216.3	189.6	284.4	408.8	367.4	219.2	154.1	151.1
82.5°	485.9	198.5	136.3	121.5	103.7	195.5	322.9	296.3	162.9	97.8	97.8
85°	157.0	65.2	50.4	38.5	47.4	121.5	192.6	201.5	115.5	50.4	38.5
87.5°	20.7	8.9	8.9	11.9	8.9	20.7	59.3	56.3	32.6	5.9	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)