

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: P944349

Luminaire Tested: **GALN-SB9B-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50693 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 329.5
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



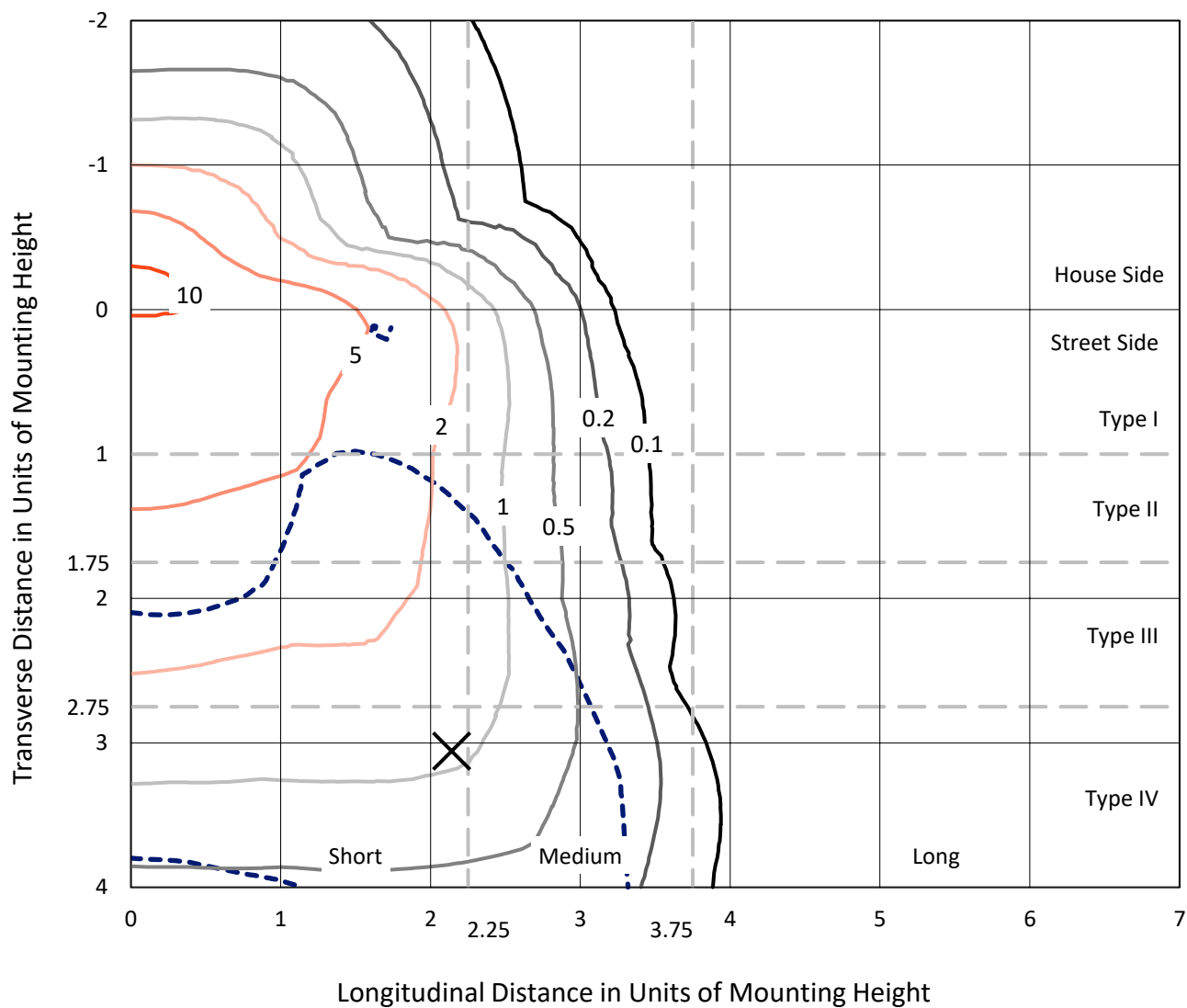
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



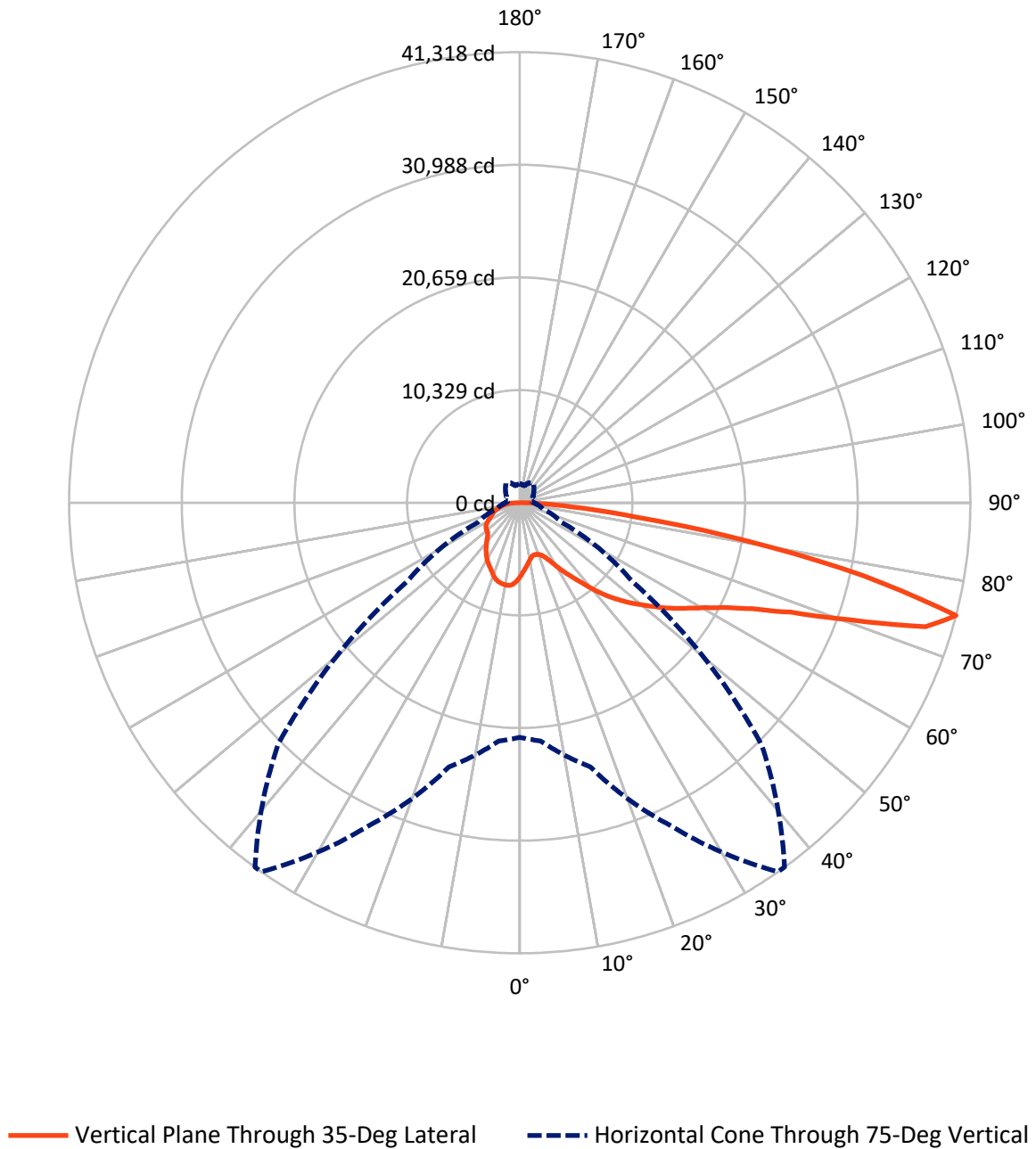
Based on 25 foot mounting height. Maximum calculated value = 11.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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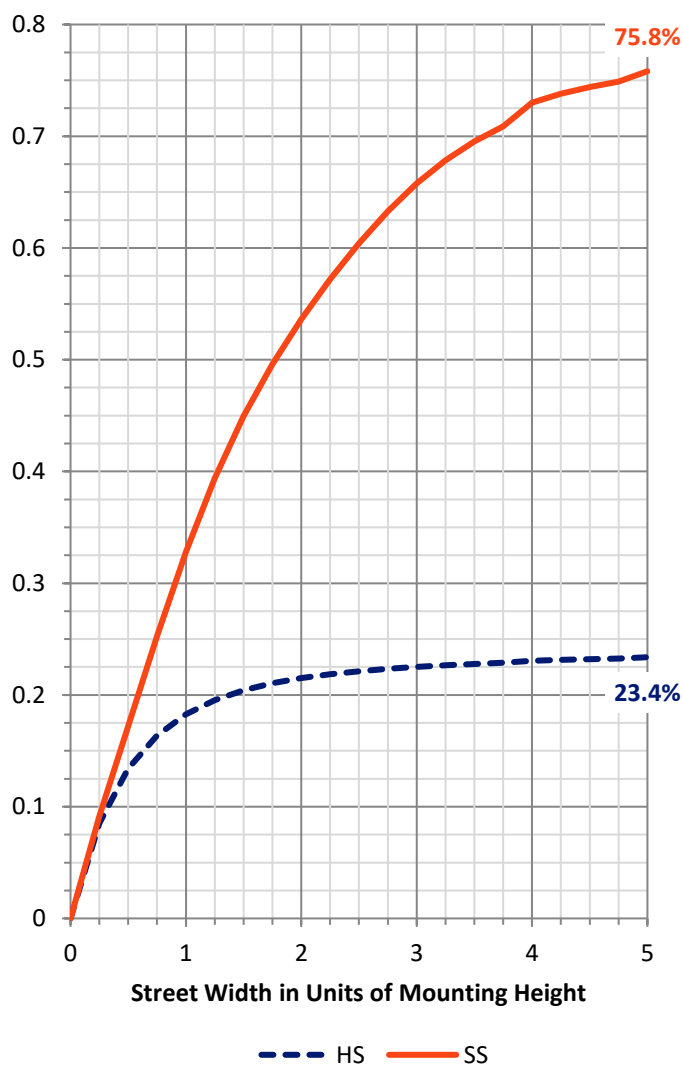
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12063.7	0.0	12063.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	38629.3	0.0	38629.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	50693.0	0.0	50693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.6	1.3
10°-20°	1844.8	3.6
20°-30°	3097.9	6.1
30°-40°	4814.6	9.5
40°-50°	7146.2	14.1
50°-60°	9865.8	19.5
60°-70°	11969.4	23.6
70°-80°	9891.8	19.5
80°-90°	1422.7	2.8
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°	50693.0	100.0
0°-180°	50693.0	100.0

Coefficient of Utilization



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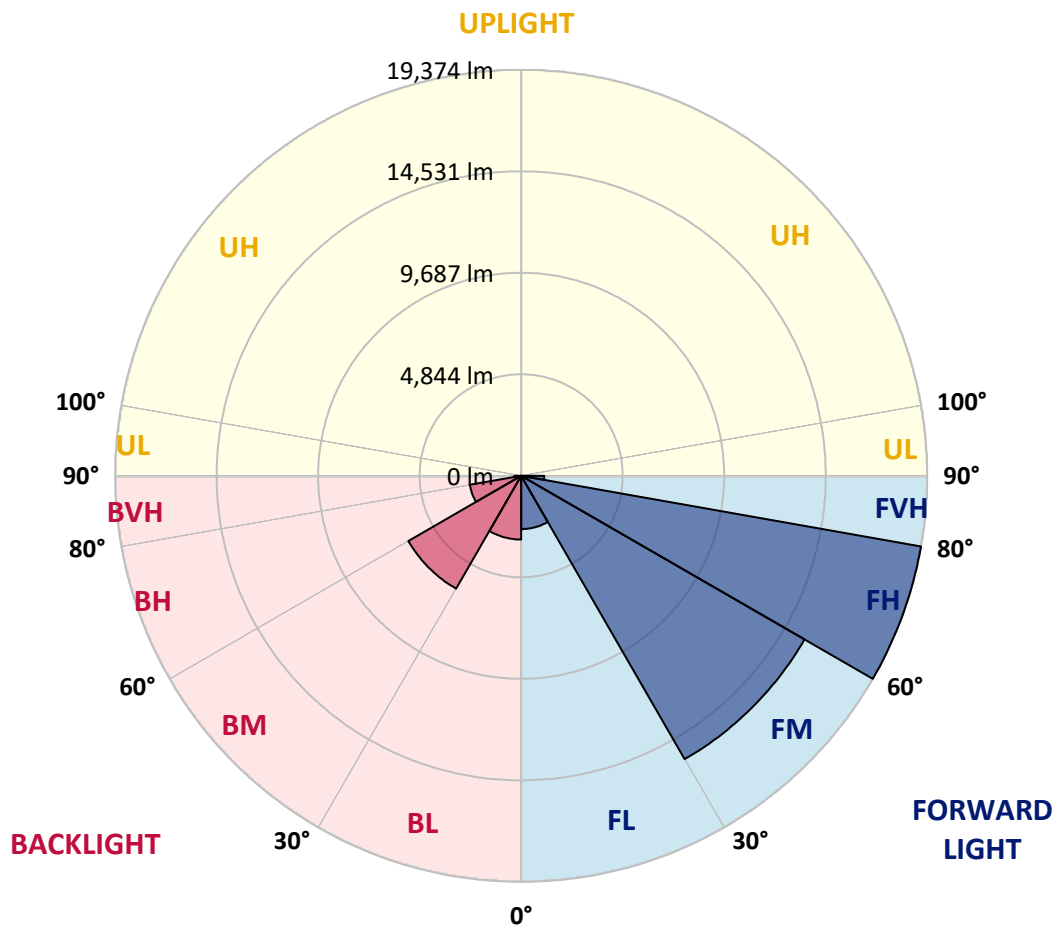
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2542.2	5.0			
FM	(30°-60°)	15610.7	30.8			
FH	(60°-80°)	19374.1	38.2			G5
FVH	(80°-90°)	1102.4	2.2			G5
BL	(0°-30°)	3040.2	6.0	B4/5000		
BM	(30°-60°)	6215.9	12.3	B4/8500		
BH	(60°-80°)	2487.2	4.9	B3/2500		G3/2500
BVH	(80°-90°)	320.4	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2
2.5°	6229.0	6267.4	6283.8	6275.6	6316.7	6311.2	6368.8	6440.0	6538.7	6634.6	6774.4
5°	5749.4	5790.6	5826.2	5859.1	5938.5	5963.2	6053.6	6190.7	6371.5	6555.1	6785.3
7.5°	5302.8	5338.4	5393.2	5453.5	5587.8	5612.4	5763.1	5976.9	6229.0	6497.6	6815.5
10°	4938.3	4973.9	5031.4	5100.0	5267.1	5297.3	5489.1	5774.1	6103.0	6442.8	6848.4
12.5°	4782.1	4793.0	4825.9	4894.4	5039.7	5058.9	5269.9	5596.0	5979.6	6401.7	6897.7
15°	4773.8	4795.8	4798.5	4834.1	4954.7	4962.9	5157.5	5480.9	5902.9	6393.4	6971.7
17.5°	4856.1	4872.5	4847.8	4869.8	4971.2	4984.9	5138.3	5426.1	5878.2	6429.1	7097.7
20°	5075.3	5089.0	5015.0	4984.9	5058.9	5069.8	5220.5	5461.7	5902.9	6503.1	7270.4
22.5°	5541.2	5549.4	5368.5	5245.2	5250.7	5256.2	5387.7	5606.9	5998.8	6637.3	7489.6
25°	6267.4	6261.9	5974.2	5735.7	5598.7	5568.6	5656.3	5842.6	6160.5	6815.5	7771.9
27.5°	7116.9	7075.8	6788.1	6431.8	6133.1	6089.3	6070.1	6149.5	6390.7	7051.2	8117.2
30°	8076.1	8037.7	7728.0	7262.2	6848.4	6777.1	6596.2	6555.1	6733.3	7371.8	8596.8
32.5°	9128.4	9103.7	8733.8	8169.3	7615.7	7533.5	7229.3	7119.7	7259.4	7856.8	9265.4
35°	10010.8	9988.9	9682.0	9101.0	8424.1	8322.7	8013.0	7889.7	7961.0	8478.9	10139.6
37.5°	10808.3	10797.3	10534.3	10076.6	9377.8	9254.5	8906.4	8865.3	8851.6	9298.3	11200.2
40°	11548.2	11520.8	11246.8	11005.6	10487.7	10375.3	10068.4	10032.8	9928.6	10306.8	12400.5
42.5°	12367.6	12296.4	11899.0	11786.6	11646.9	11553.7	11370.1	11375.6	11145.4	11444.1	13672.1
45°	13036.3	12995.2	12586.8	12521.1	12671.8	12633.4	12792.4	12833.5	12386.8	12636.2	14992.9
47.5°	13754.3	13715.9	13370.6	13324.0	13732.3	13743.3	14305.1	14318.8	13598.1	13874.8	16316.6
50°	14639.4	14584.6	14242.1	14299.6	14757.3	14798.4	15826.0	15732.9	14713.4	15132.7	17629.3
52.5°	15223.1	15256.0	15182.0	15275.2	15900.0	15938.4	17322.3	17083.9	15817.8	16374.1	18917.3
55°	15653.4	15719.2	15949.4	16163.1	17105.8	17144.2	18733.6	18369.2	16733.1	17525.1	20128.5
57.5°	16207.0	16113.8	16544.0	16960.6	18251.3	18352.7	20106.6	19607.8	17544.3	18517.2	20958.9
60°	17001.7	16935.9	17270.3	17886.9	19533.9	19695.5	21559.0	20723.2	18139.0	19303.7	21120.6
62.5°	18613.1	18448.6	18500.7	19046.1	21150.7	21364.5	23197.8	21696.1	18434.9	19610.6	20254.6
65°	21021.9	20739.7	20476.6	20854.8	23428.0	23639.0	25047.6	22460.6	18325.3	19015.9	17955.4
67.5°	24055.6	23776.1	23452.7	23808.9	26782.3	26949.5	27330.4	22890.9	17462.1	16724.9	13891.3
70°	26557.6	26453.5	26839.9	28306.0	32139.9	32145.4	30257.2	22534.6	15097.1	11857.9	8037.7
72.5°	26226.0	26163.0	28199.1	32731.8	38892.3	38747.1	33027.8	19838.0	10169.8	5349.3	3011.7
75°	21515.2	21923.5	25077.8	32652.3	41317.6	41298.4	31331.5	12611.5	4206.6	2217.0	1556.6
77.5°	11537.3	12184.0	16281.0	24107.7	32255.0	32740.0	22027.7	4412.1	1806.0	1419.5	1077.0
80°	3762.6	4327.2	6489.4	12274.4	20958.9	20868.5	9440.8	1732.0	1235.9	1005.7	745.4
82.5°	1597.7	1663.4	2899.4	5796.0	10756.2	10589.1	3006.3	994.8	868.7	687.9	460.4
85°	624.8	698.8	1279.8	2680.2	4658.7	4557.4	1085.2	493.3	556.3	449.4	274.0
87.5°	205.5	249.4	457.7	918.0	1449.7	1397.6	265.8	169.9	241.2	205.5	98.7
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°	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2	6755.2
2.5°	6812.7	6856.6	6908.6	6985.4	7051.2	7106.0	7163.5	7199.1	7212.8	7253.9	7251.2
5°	6862.1	6958.0	7086.8	7212.8	7336.2	7410.2	7475.9	7508.8	7539.0	7560.9	7566.4
7.5°	6944.3	7067.6	7270.4	7434.8	7539.0	7599.2	7643.1	7632.1	7643.1	7648.6	7656.8
10°	7015.5	7188.2	7429.3	7585.5	7665.0	7667.8	7656.8	7618.4	7599.2	7602.0	7607.5
12.5°	7100.5	7292.3	7552.7	7684.2	7706.1	7645.8	7599.2	7533.5	7508.8	7497.8	7492.4
15°	7215.6	7434.8	7686.9	7736.3	7681.5	7604.7	7525.2	7418.4	7363.6	7319.7	7333.4
17.5°	7355.3	7596.5	7791.1	7755.4	7637.6	7511.5	7382.7	7221.1	7108.7	7062.1	7064.9
20°	7549.9	7766.4	7870.5	7714.3	7536.2	7344.4	7125.1	6927.8	6823.7	6777.1	6771.6
22.5°	7785.6	7993.9	7947.3	7643.1	7391.0	7084.0	6810.0	6664.8	6612.7	6579.8	6585.3
25°	8067.9	8246.0	8002.1	7539.0	7152.5	6738.7	6527.7	6481.1	6456.5	6431.8	6431.8
27.5°	8435.1	8531.0	8043.2	7385.5	6779.8	6371.5	6294.8	6303.0	6294.8	6253.7	6261.9
30°	8920.1	8900.9	8081.6	7136.1	6352.3	6039.9	6045.4	6081.0	6086.5	6059.1	6072.8
32.5°	9558.7	9364.1	8100.7	6812.7	5944.0	5749.4	5754.9	5793.3	5820.7	5774.1	5796.0
35°	10331.5	9904.0	8070.6	6407.1	5628.9	5472.7	5431.6	5442.5	5450.7	5406.9	5437.0
37.5°	11233.1	10509.6	7936.3	5957.7	5368.5	5201.4	5113.7	5039.7	4995.8	4954.7	4982.1
40°	12222.4	11170.0	7689.7	5519.2	5078.0	4913.6	4782.1	4642.3	4494.3	4439.5	4464.2
42.5°	13258.2	11849.7	7391.0	5100.0	4743.7	4609.4	4469.7	4266.9	4044.9	3932.5	3946.2
45°	14332.5	12545.7	7097.7	4686.2	4401.1	4343.6	4181.9	3938.0	3696.9	3554.4	3543.4
47.5°	15384.8	13203.4	6667.5	4269.6	4080.5	4143.5	4017.5	3792.8	3524.2	3299.5	3274.8
50°	16390.6	13820.0	5963.2	3847.6	3820.2	4083.3	3962.7	3639.3	3332.4	3044.6	3020.0
52.5°	17388.1	14318.8	5061.6	3463.9	3680.4	4066.8	3891.4	3535.2	3159.7	2858.3	2825.4
55°	18234.9	14576.4	4192.9	3135.1	3477.6	3927.1	3806.5	3411.8	2915.8	2595.2	2567.8
57.5°	18717.2	14368.1	3469.4	2811.7	3198.1	3696.9	3661.2	3148.8	2625.3	2378.7	2345.8
60°	18508.9	13524.1	2877.5	2529.4	2932.3	3447.5	3409.1	2888.4	2403.4	2170.4	2137.5
62.5°	17360.7	11915.4	2408.8	2282.8	2691.1	3192.6	3157.0	2688.4	2233.5	2008.7	1973.1
65°	15047.8	9692.9	2044.4	2077.3	2447.2	2885.7	2937.8	2521.2	2099.2	1879.9	1844.3
67.5°	11477.0	7021.0	1759.4	1899.1	2208.8	2584.2	2735.0	2400.6	1986.8	1778.5	1745.7
70°	6541.4	3987.3	1518.2	1726.5	1997.8	2304.7	2578.8	2304.7	1866.2	1693.6	1671.7
72.5°	2480.1	1830.6	1312.7	1553.8	1795.0	2069.0	2406.1	2154.0	1726.5	1597.7	1575.8
75°	1323.6	1115.4	1104.4	1351.0	1562.1	1838.8	2189.6	2006.0	1622.3	1688.1	1742.9
77.5°	901.6	789.2	923.5	1156.5	1307.2	1584.0	1959.4	1781.3	1405.8	1400.4	1290.7
80°	624.8	559.0	750.9	931.7	1011.2	1331.9	1710.0	1529.2	1145.5	1068.8	1022.2
82.5°	375.4	364.5	561.8	696.1	715.3	1027.7	1416.8	1282.5	937.2	816.7	822.1
85°	205.5	216.5	359.0	408.3	416.5	718.0	1109.9	992.0	720.7	605.6	611.1
87.5°	57.5	74.0	131.5	161.7	200.1	372.7	660.4	589.2	361.7	252.1	252.1
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)