

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: P953086

Luminaire Tested: **GALN-SB6D-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-730-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62759 lumens
Efficiency: N/A
Efficacy: 142.6 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): 440.1
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

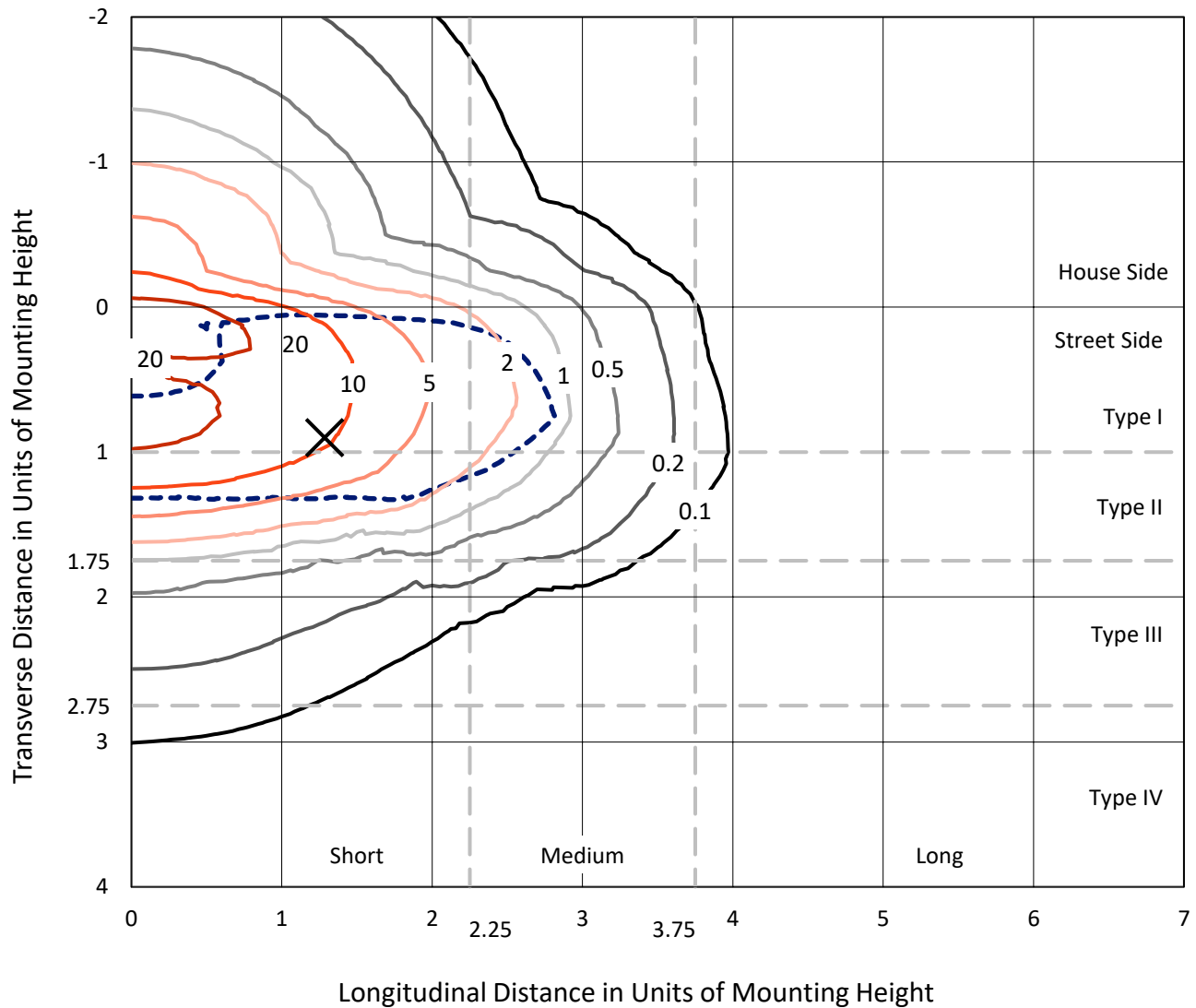


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

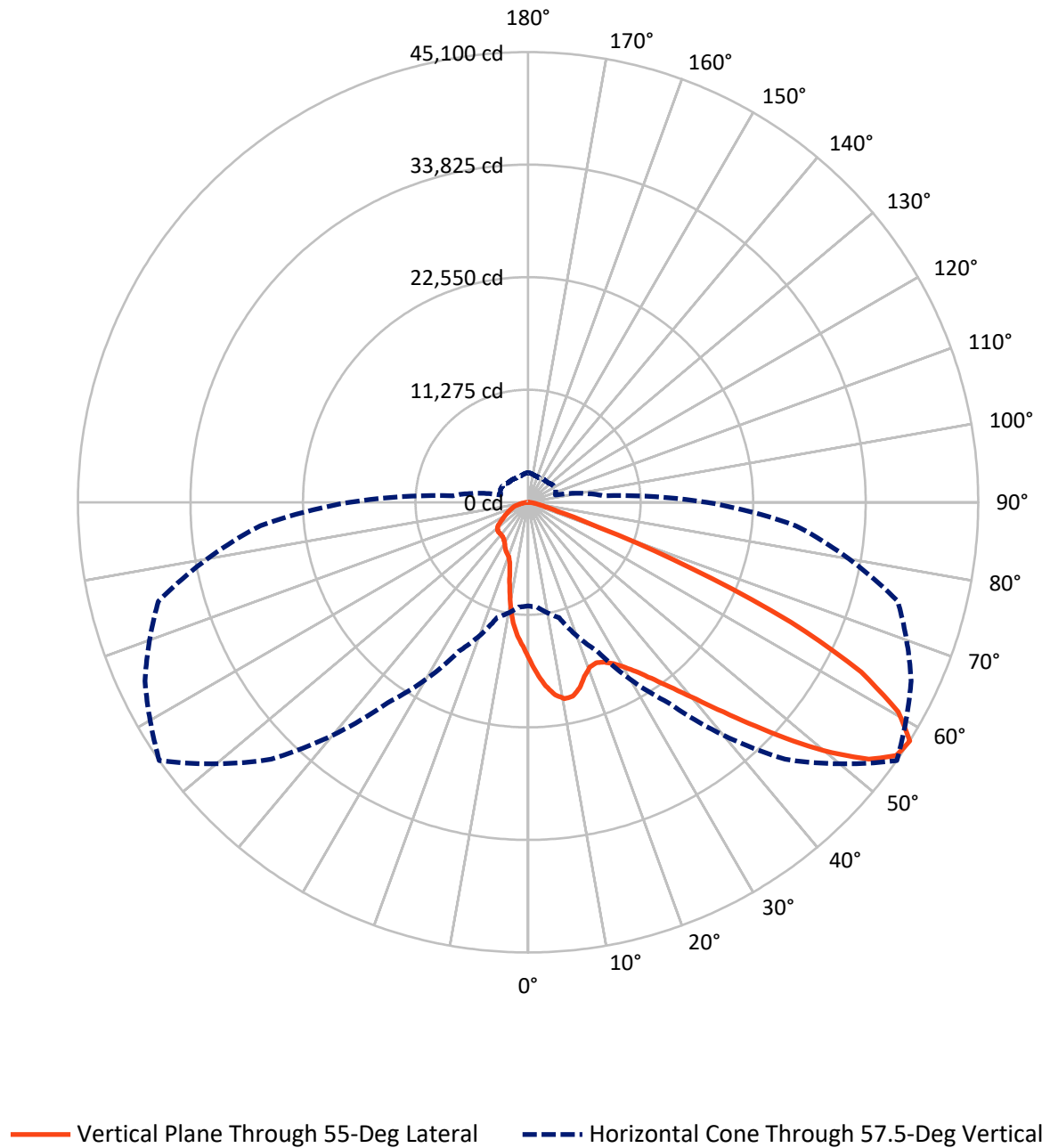


Based on 25 foot mounting height. Maximum calculated value = 30.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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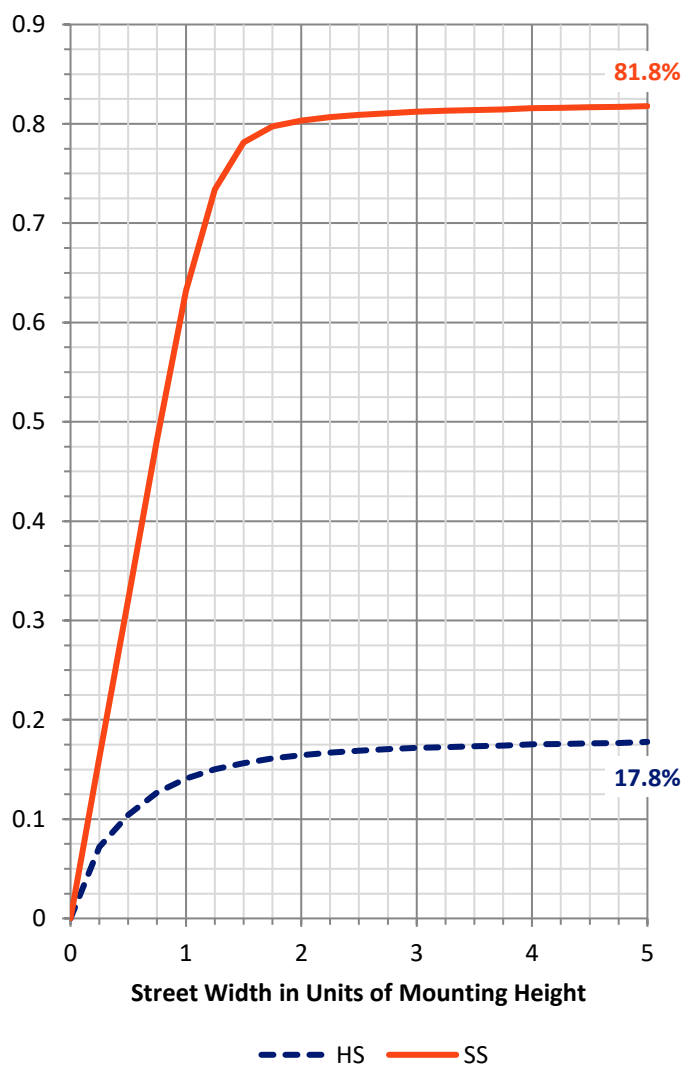
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11355.9	0.0	11355.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	51403.1	0.0	51403.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	62759.0	0.0	62759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1459.2	2.3
10°-20°	3683.1	5.9
20°-30°	5877.2	9.4
30°-40°	9305.1	14.8
40°-50°	14242.5	22.7
50°-60°	15255.0	24.3
60°-70°	9597.0	15.3
70°-80°	2838.0	4.5
80°-90°	501.8	0.8
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°	62759.0	100.0
0°-180°	62759.0	100.0

Coefficient of Utilization



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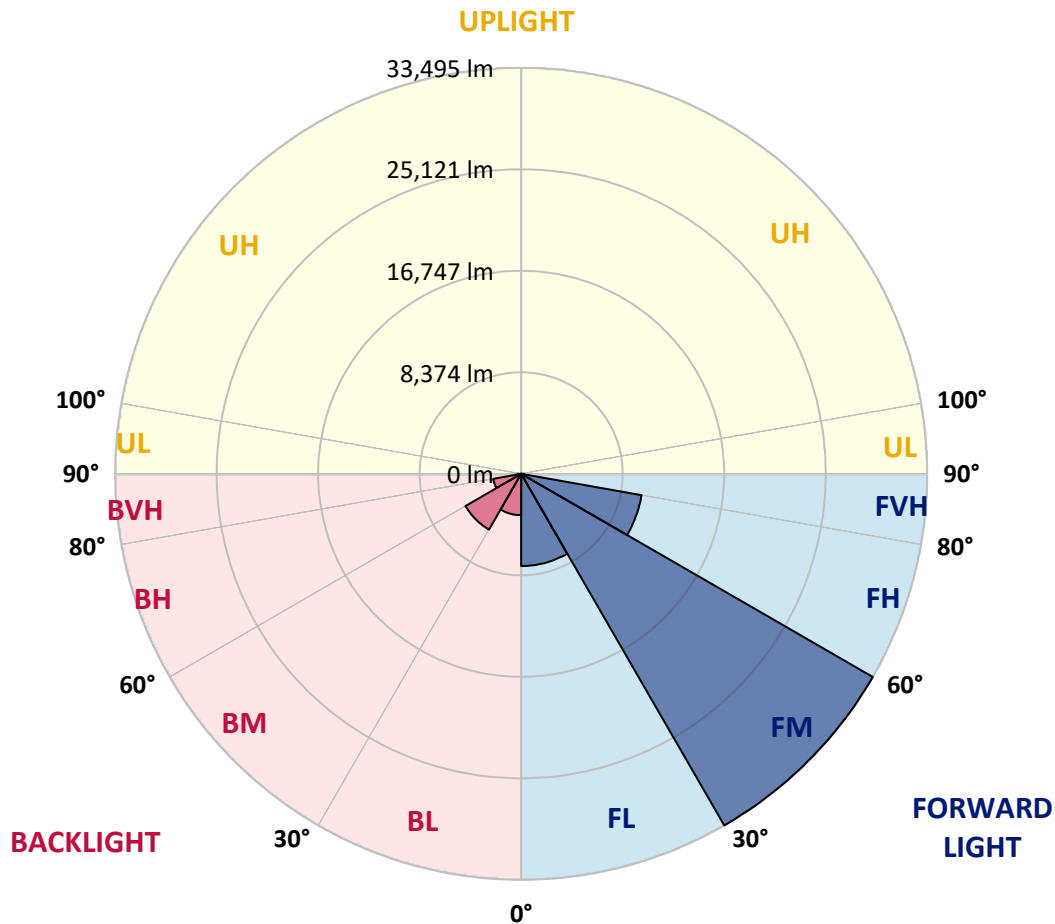
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7606.4	12.1			
FM	(30°-60°)	33494.9	53.4			
FH	(60°-80°)	10089.7	16.1			G4/12000
FVH	(80°-90°)	212.0	0.3			G2/225
BL	(0°-30°)	3413.2	5.4	B4/5000		
BM	(30°-60°)	5307.7	8.5	B4/8500		
BH	(60°-80°)	2345.3	3.7	B3/2500		G3/2500
BVH	(80°-90°)	289.8	0.5			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°	75°	85°	90°
0°	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4
2.5°	18041.8	18028.9	18100.2	17856.9	17691.4	17467.6	17172.3	16796.0	16390.5	15962.2	15777.3
5°	19667.3	19553.7	19628.3	19446.6	19265.0	18927.5	18489.6	17876.4	17126.9	16273.7	15819.5
7.5°	19411.0	19333.1	19524.5	19686.7	19823.0	19780.8	19459.6	18817.2	17850.4	16611.1	15952.5
10°	17344.3	17256.7	17526.0	18087.3	18911.3	19628.3	20017.6	19618.6	18590.1	16980.9	16082.2
12.5°	15521.0	15478.8	15657.2	16111.4	17026.4	18402.0	19946.3	20319.4	19359.0	17418.9	16257.4
15°	14742.3	14690.4	14804.0	15034.3	15618.3	16899.8	19297.4	20799.5	20115.0	17925.0	16536.5
17.5°	14570.4	14512.0	14560.6	14680.7	15057.0	16033.6	18317.6	21036.4	20903.4	18489.6	16770.0
20°	14888.3	14839.7	14846.1	14839.7	15102.5	15877.9	17636.3	20945.5	21591.2	19008.7	16997.2
22.5°	15657.2	15576.1	15579.4	15407.4	15550.2	16150.4	17457.9	20702.2	22204.3	19462.9	17169.1
25°	16909.6	16763.6	16792.8	16354.8	16315.8	16760.3	17736.9	20514.0	22814.3	19826.2	17201.5
27.5°	18622.6	18457.1	18369.5	17717.4	17405.9	17626.6	18304.6	20578.9	23391.8	20140.9	17120.4
30°	20763.8	20562.7	20384.3	19459.6	18895.1	18814.0	19187.1	21007.2	24073.1	20471.9	16980.9
32.5°	23388.5	23154.9	22830.5	21604.1	20809.3	20384.3	20329.1	21769.6	24871.2	20893.6	16909.6
35°	26512.8	26207.9	25747.2	24160.7	23154.9	22285.4	21834.5	22869.4	25964.5	21529.5	16990.7
37.5°	29731.2	29387.3	28965.6	27077.4	25841.3	24559.7	23670.8	24361.8	27421.3	22392.5	17204.8
40°	32699.8	32313.7	31921.2	30240.6	28913.7	27369.3	25919.1	26250.0	29202.4	23424.2	17568.2
42.5°	34451.8	34166.3	34017.0	33108.6	32083.4	30516.4	28715.7	28488.6	31204.2	24611.6	17983.4
45°	34373.9	34257.1	34717.8	35094.1	34850.8	33981.3	31992.5	30964.1	33212.4	25640.1	18366.3
47.5°	32537.6	32615.5	33643.9	35759.2	36690.4	37144.6	35723.5	33394.1	34957.9	26409.0	18538.2
50°	27541.3	27606.2	29987.5	34549.1	37164.0	39723.8	39425.4	35765.7	36310.8	26879.4	18499.3
52.5°	23586.4	23628.6	24650.6	30960.8	35600.3	41021.6	42760.5	38001.1	37300.3	27009.2	18281.9
55°	17766.1	17912.1	19057.3	24290.5	31531.8	39993.1	44791.5	40304.6	37926.5	27022.2	18054.8
57.5°	10378.7	10537.7	11952.2	16487.8	24507.8	36408.1	45099.7	42348.5	38351.5	26918.4	17918.5
60°	5083.9	5152.0	5768.5	8665.7	15112.2	29500.9	42621.0	43338.0	38588.3	26863.2	17912.1
62.5°	3426.0	3416.3	3442.3	4276.1	7445.8	18953.5	37456.0	41605.6	38461.8	26652.3	17847.2
65°	2945.9	2910.2	2812.9	3001.0	3857.5	8668.9	28939.6	36434.1	37498.2	26123.5	17402.7
67.5°	2546.8	2550.1	2553.3	2494.9	2754.5	4000.3	17685.0	28699.5	34039.7	23618.9	15689.7
70°	2108.8	2138.0	2151.0	2151.0	2245.1	2624.7	7549.6	19670.5	26850.2	18518.8	12636.7
72.5°	1920.7	1859.0	1865.5	1833.1	1833.1	1998.5	3040.0	11150.8	16916.0	10417.6	7711.8
75°	1567.0	1606.0	1612.4	1589.7	1515.1	1524.8	1803.9	4678.4	7238.1	4321.5	3812.1
77.5°	1352.9	1352.9	1365.9	1349.6	1291.3	1142.0	1203.7	1813.6	2462.5	1771.4	1904.4
80°	1086.9	1083.6	1138.8	1171.2	1080.4	843.5	768.9	1002.5	1093.3	778.6	989.5
82.5°	528.8	561.3	781.9	892.2	820.8	609.9	470.4	622.9	584.0	343.9	444.5
85°	308.2	292.0	350.4	496.4	470.4	337.4	227.1	324.4	305.0	175.2	178.4
87.5°	97.3	90.8	71.4	168.7	136.3	94.1	61.6	94.1	84.4	38.9	38.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4	15725.4
2.5°	15546.9	15164.1	14784.5	14437.4	14226.5	14090.2	13954.0	13801.5	13743.1	13655.5
5°	15391.2	14651.5	13992.9	13425.1	12909.3	12503.7	12094.9	11764.0	11614.8	11715.4
7.5°	15300.4	14229.7	13214.2	12172.8	11170.3	10368.9	9671.4	9181.5	8960.9	9016.1
10°	15219.2	13752.8	12205.2	10560.4	9119.9	8127.1	7413.3	7040.2	6900.7	6929.9
12.5°	15144.6	13217.5	10988.6	8824.6	7293.3	6637.9	6433.5	6436.8	6462.7	6482.2
15°	15131.7	12571.9	9629.2	7306.3	6307.0	6264.8	6485.5	6625.0	6699.6	6722.3
17.5°	15112.2	11799.7	8243.9	6271.3	6066.9	6352.4	6556.8	6647.7	6706.1	6709.3
20°	15034.3	10819.9	6965.6	5778.2	6015.0	6261.6	6388.1	6459.5	6508.2	6524.4
22.5°	14794.2	9729.8	5969.6	5557.6	5807.4	6005.3	6154.5	6235.6	6264.8	6284.3
25°	14362.7	8509.9	5281.8	5346.7	5518.6	5768.5	5888.5	5904.7	5895.0	5924.2
27.5°	13798.2	7202.5	4853.5	5061.2	5281.8	5495.9	5560.8	5551.1	5531.6	5564.1
30°	13116.9	6028.0	4581.0	4740.0	5041.7	5236.4	5294.8	5272.1	5233.1	5268.8
32.5°	12396.7	5067.7	4357.2	4516.1	4843.8	5035.2	5093.6	5070.9	5041.7	5070.9
35°	11725.1	4396.1	4149.5	4366.9	4688.1	4876.3	4950.9	4954.1	4954.1	4989.8
37.5°	11108.7	4003.5	3977.6	4272.8	4581.0	4749.7	4856.8	4863.3	4723.8	4733.5
40°	10537.7	3838.1	3899.7	4211.2	4477.2	4639.4	4645.9	4282.5	4026.2	4019.8
42.5°	10070.5	3805.6	3922.4	4204.7	4402.6	4409.1	3951.6	3669.4	3598.0	3601.2
45°	9632.5	3795.9	3974.3	4204.7	4292.3	3808.9	3500.7	3426.0	3432.5	3458.5
47.5°	9142.6	3757.0	3984.1	4146.3	3974.3	3387.1	3296.3	3263.8	3250.8	3257.3
50°	8607.3	3617.5	3860.8	4029.5	3429.3	3205.4	3091.9	3082.1	3098.4	3108.1
52.5°	8042.7	3390.3	3649.9	3818.6	3179.5	3046.4	2919.9	2942.6	3014.0	3036.7
55°	7672.9	3124.3	3370.9	3396.8	3004.3	2897.2	2790.1	2842.1	2975.1	3017.2
57.5°	7575.6	2842.1	3052.9	3023.7	2780.4	2767.4	2702.5	2748.0	2916.7	2978.3
60°	7546.4	2589.0	2741.5	2718.8	2563.0	2624.7	2608.5	2631.2	2689.6	2709.0
62.5°	7319.3	2387.8	2462.5	2430.0	2368.4	2475.4	2514.4	2465.7	2511.1	2533.8
65°	6741.8	2225.6	2189.9	2167.2	2193.2	2290.5	2368.4	2271.0	2313.2	2378.1
67.5°	5787.9	2005.0	1907.7	1933.6	2014.7	2066.7	2167.2	2056.9	2092.6	2202.9
70°	4681.6	1726.0	1638.4	1713.0	1790.9	1897.9	1914.2	1839.5	1923.9	2047.2
72.5°	3312.5	1443.7	1382.1	1534.6	1560.5	1700.0	1664.4	1628.7	1745.5	1787.6
75°	2297.0	1164.7	1129.0	1245.8	1339.9	1460.0	1434.0	1476.2	1722.8	1742.2
77.5°	1453.5	905.2	882.5	957.1	1086.9	1219.9	1262.1	1742.2	2942.6	3059.4
80°	843.5	674.8	648.9	707.3	820.8	944.1	1216.6	2138.0	1940.1	1917.4
82.5°	470.4	463.9	431.5	447.7	548.3	681.3	1719.5	1505.4	1223.1	1262.1
85°	220.6	272.5	233.6	223.9	308.2	798.1	1148.5	859.8	571.0	558.0
87.5°	58.4	51.9	51.9	58.4	129.8	687.8	457.5	366.6	217.4	210.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)