

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: P955581

Luminaire Tested: **GALN-SB8C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56060 lumens
Efficiency: N/A
Efficacy: 140.2 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): 399.8
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

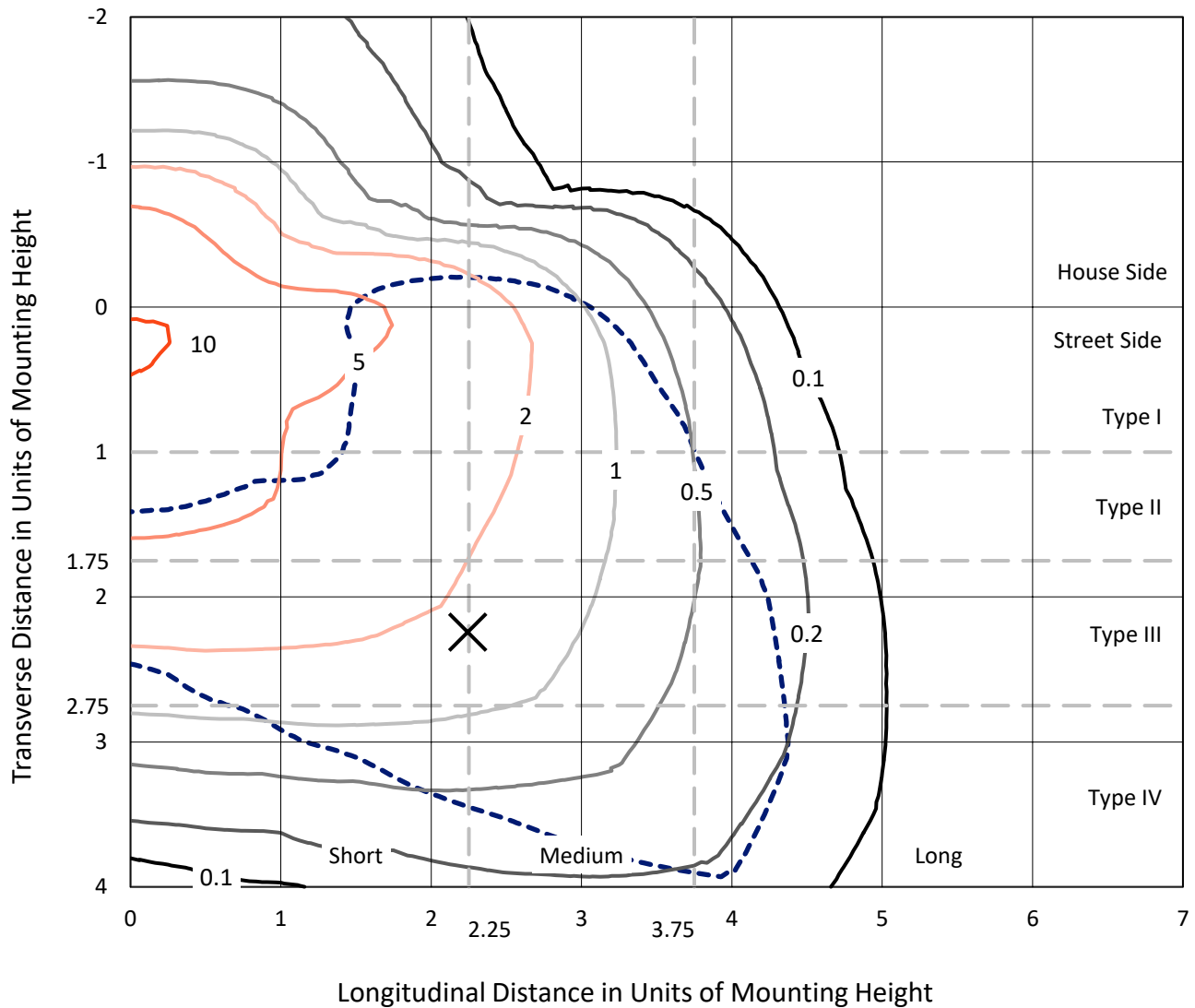


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

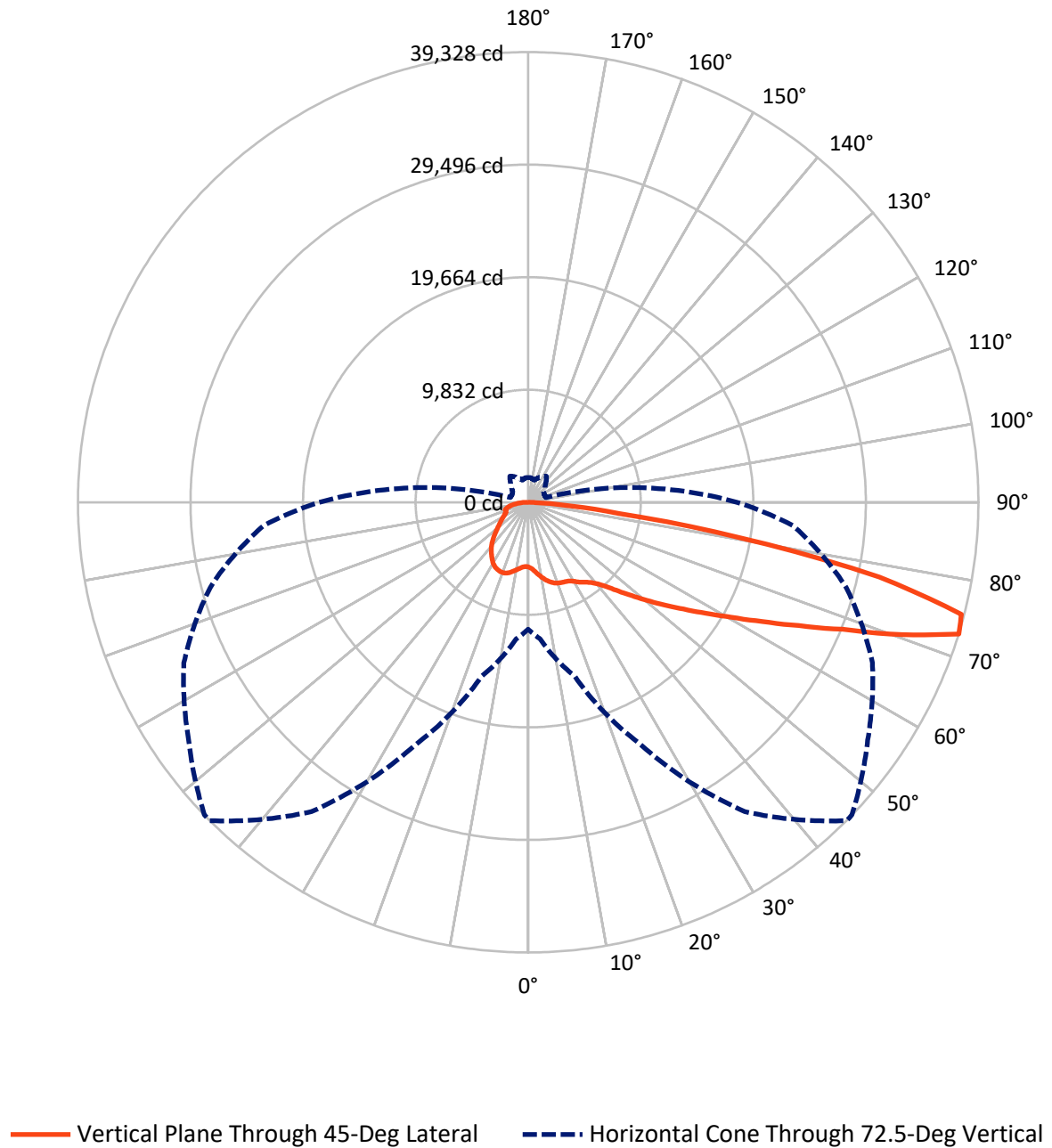


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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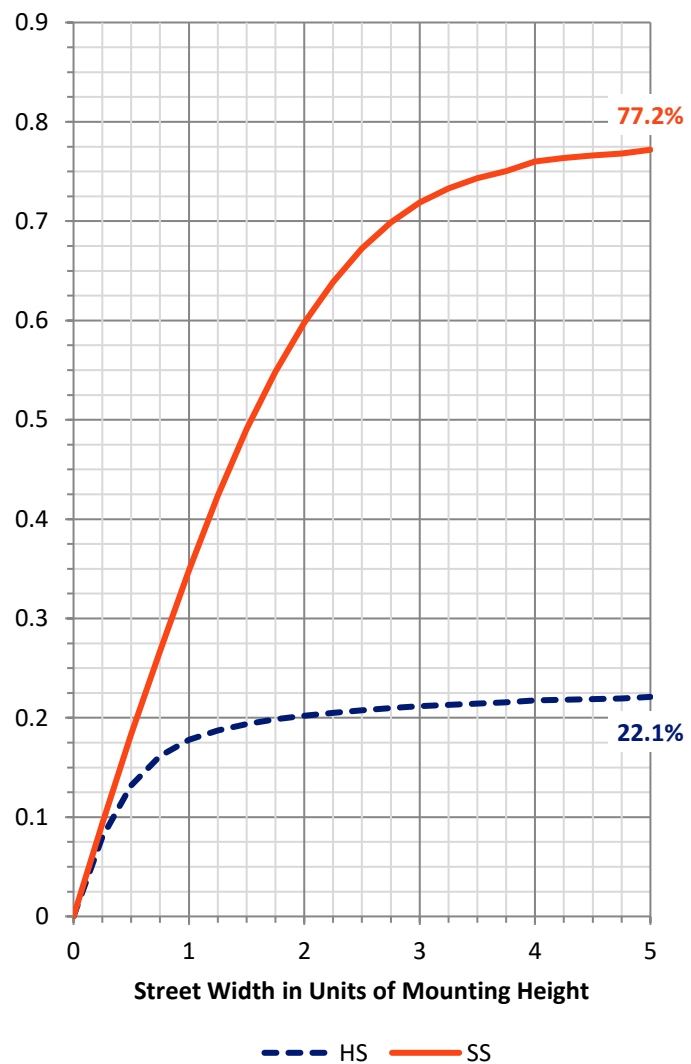
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12673.2	0.0	12673.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	43386.8	0.0	43386.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	56060.0	0.0	56060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.6	1.0
10°-20°	1919.1	3.4
20°-30°	3338.5	6.0
30°-40°	4785.8	8.5
40°-50°	6738.8	12.0
50°-60°	10321.8	18.4
60°-70°	14952.7	26.7
70°-80°	11940.6	21.3
80°-90°	1487.1	2.7
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°	56060.0	100.0
0°-180°	56060.0	100.0

Coefficient of Utilization



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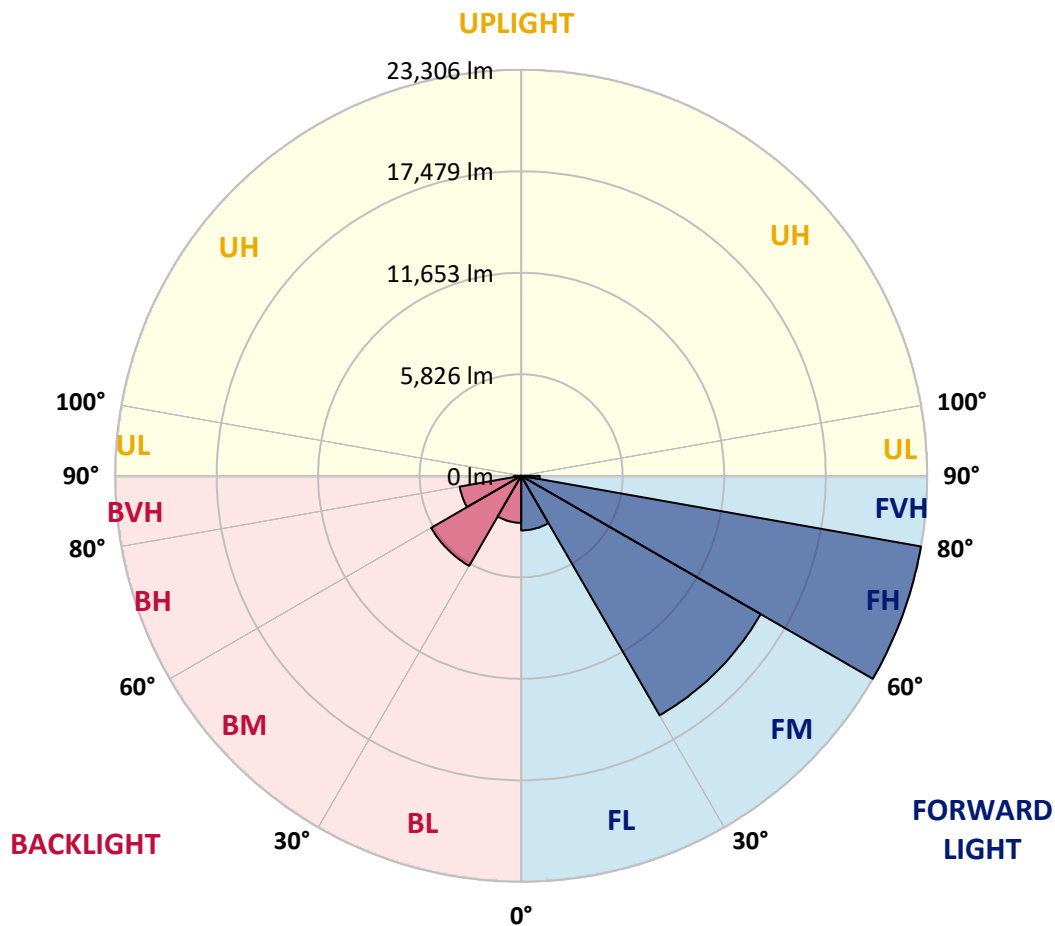
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3135.0	5.6			
FM	(30°-60°)	15879.1	28.3			
FH	(60°-80°)	23305.8	41.6			G5
FVH	(80°-90°)	1066.9	1.9			G5
BL	(0°-30°)	2698.2	4.8	B4/5000		
BM	(30°-60°)	5967.3	10.6	B4/8500		
BH	(60°-80°)	3587.5	6.4	B4/5000		G4/5000
BVH	(80°-90°)	420.2	0.7			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°	45°	46°	55°	65°	75°	85°
0°	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4
2.5°	5876.9	5915.2	5879.8	5847.3	5832.6	5794.2	5791.2	5767.6	5752.8	5711.5	5699.7
5°	6287.3	6337.6	6278.5	6213.5	6154.5	6060.0	6048.1	5980.2	5903.4	5814.8	5764.6
7.5°	6751.0	6795.3	6727.4	6629.9	6526.6	6370.0	6367.1	6243.0	6122.0	5971.4	5885.7
10°	7155.6	7214.6	7123.1	6990.2	6860.3	6683.1	6662.4	6520.6	6367.1	6172.2	6042.2
12.5°	7512.9	7554.3	7465.7	7303.2	7152.6	6975.4	6948.9	6792.3	6621.1	6399.6	6234.2
15°	7796.4	7849.6	7731.5	7557.2	7397.7	7223.5	7199.9	7058.1	6886.8	6653.5	6440.9
17.5°	7982.5	8026.8	7905.7	7710.8	7557.2	7412.5	7394.8	7276.7	7126.1	6889.8	6662.4
20°	8053.4	8100.6	7973.6	7775.8	7634.0	7521.8	7512.9	7427.3	7323.9	7108.3	6878.0
22.5°	8124.2	8168.5	8003.2	7796.4	7672.4	7601.5	7598.6	7542.5	7501.1	7323.9	7099.5
25°	8410.7	8422.5	8201.0	7902.7	7725.6	7663.5	7660.6	7657.6	7675.3	7536.5	7338.7
27.5°	8658.8	8655.8	8466.8	8186.2	7911.6	7781.7	7778.7	7808.2	7864.4	7749.2	7586.8
30°	9022.0	8989.5	8765.1	8472.7	8221.7	8020.9	8003.2	7976.6	8020.9	7929.3	7834.8
32.5°	9792.8	9689.4	9326.2	8806.4	8478.6	8325.0	8301.4	8136.0	8153.8	8097.7	8050.4
35°	10897.3	10761.4	10277.1	9438.4	8797.6	8579.0	8567.2	8357.5	8322.1	8271.9	8289.6
37.5°	12211.4	12043.1	11479.1	10353.9	9346.9	8874.3	8856.6	8667.6	8522.9	8469.8	8570.2
40°	13531.5	13318.9	12852.3	11470.2	10156.0	9367.5	9311.4	9025.0	8859.6	8771.0	8983.6
42.5°	14813.2	14636.0	14237.3	12722.4	11154.2	10088.1	9964.1	9473.8	9349.8	9267.1	9651.0
45°	15947.2	15787.8	15495.4	14060.1	12323.7	11068.6	10947.5	10147.2	10108.8	10108.8	10664.0
47.5°	16868.6	16833.2	16523.1	15424.5	13702.8	12184.9	11975.2	11083.3	11186.7	11346.2	12102.2
50°	17890.4	17793.0	17462.2	16768.2	15324.1	13463.6	13292.3	12232.1	12619.0	13056.1	14181.2
52.5°	18829.6	18882.7	18513.6	18168.0	17155.1	14890.0	14588.8	13587.6	14423.4	15146.9	16617.6
55°	19795.2	19798.2	19694.8	19647.6	19074.7	16467.0	16136.2	15217.8	16546.7	17444.5	19458.6
57.5°	20701.9	20707.8	20861.3	21277.7	21301.4	18286.2	17911.1	17220.1	18906.3	19821.8	22388.1
60°	21511.1	21552.4	21971.7	22946.3	23259.3	20371.1	20016.7	19585.6	21345.7	22267.1	25468.3
62.5°	21782.7	21933.4	22866.6	24251.6	25193.7	22928.6	22580.1	22323.2	23909.0	24765.5	28043.5
65°	21322.0	21667.6	23472.0	25329.5	27184.1	25967.4	25621.9	25341.3	26572.8	27379.0	30158.0
67.5°	20191.0	20636.9	23436.5	26460.6	29599.8	29623.5	29301.6	28643.0	29428.6	29738.6	30846.1
70°	17211.2	17878.6	21372.3	26882.9	32372.9	34623.2	34313.1	32618.0	32278.4	30778.2	28908.8
72.5°	11089.2	11987.0	15737.6	23407.0	32990.1	39327.7	39309.9	36206.1	33179.1	28758.2	23185.5
75°	4045.9	4595.2	7312.1	14692.1	27692.1	39088.5	39203.6	35591.9	30287.9	22213.9	14444.1
77.5°	1473.6	1612.4	2386.2	5646.5	17031.1	31362.9	31602.1	28454.0	21558.3	11148.3	5723.3
80°	773.7	850.5	1222.6	2191.3	7297.3	18625.8	19000.8	16910.0	10132.4	3357.8	1715.8
82.5°	428.2	463.7	685.1	1190.1	3286.9	7964.8	8189.2	6680.1	3564.5	1423.4	708.8
85°	230.3	245.1	321.9	649.7	1606.5	2761.2	2823.3	1996.4	1420.5	835.8	342.6
87.5°	67.9	82.7	106.3	206.7	629.0	620.2	634.9	395.7	561.1	422.3	112.2
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°	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4	5655.4
2.5°	5681.9	5673.1	5640.6	5625.8	5608.1	5605.2	5619.9	5622.9	5625.8	5628.8	5640.6
5°	5735.1	5705.6	5676.0	5658.3	5664.2	5667.2	5696.7	5717.4	5732.1	5744.0	5749.9
7.5°	5838.5	5814.8	5764.6	5761.7	5770.5	5797.1	5835.5	5882.8	5909.3	5930.0	5935.9
10°	5992.0	5947.7	5888.7	5897.5	5915.2	5953.6	6033.4	6071.8	6116.1	6154.5	6145.6
12.5°	6148.5	6110.2	6042.2	6048.1	6077.7	6145.6	6222.4	6269.6	6299.2	6328.7	6340.5
15°	6352.3	6284.4	6210.6	6210.6	6263.7	6337.6	6373.0	6411.4	6429.1	6461.6	6473.4
17.5°	6562.0	6473.4	6375.9	6370.0	6435.0	6470.4	6491.1	6497.0	6502.9	6538.4	6550.2
20°	6771.7	6674.2	6535.4	6523.6	6538.4	6532.5	6529.5	6523.6	6532.5	6576.8	6594.5
22.5°	6978.4	6866.2	6674.2	6621.1	6579.7	6523.6	6520.6	6517.7	6523.6	6567.9	6597.4
25°	7220.6	7084.7	6827.8	6668.3	6529.5	6452.7	6461.6	6464.5	6470.4	6505.9	6553.1
27.5°	7483.4	7332.8	6969.5	6653.5	6402.5	6349.4	6334.6	6343.5	6364.1	6420.2	6476.4
30°	7746.2	7569.0	7099.5	6594.5	6243.0	6169.2	6122.0	6142.6	6207.6	6263.7	6325.7
32.5°	7985.4	7808.2	7202.8	6464.5	6039.3	5924.1	5862.1	5888.7	5953.6	5974.3	6048.1
35°	8266.0	8065.2	7247.1	6257.8	5817.8	5640.6	5557.9	5519.5	5552.0	5531.3	5596.3
37.5°	8579.0	8369.3	7241.2	5986.1	5557.9	5354.1	5239.0	5094.3	5026.3	4955.5	4999.8
40°	9042.7	8741.4	7170.4	5658.3	5236.0	5050.0	4843.2	4598.1	4444.6	4305.8	4314.6
42.5°	9674.7	9258.3	7040.4	5298.0	4872.8	4698.5	4418.0	4131.5	3889.4	3659.0	3638.3
45°	10616.7	9934.5	6878.0	4914.1	4480.0	4308.7	4004.5	3682.6	3408.0	3112.7	3077.2
47.5°	11975.2	10844.1	6724.4	4477.0	4066.5	3910.0	3635.4	3337.1	3012.3	2725.8	2693.3
50°	13841.6	12149.4	6582.7	4051.8	3659.0	3540.9	3322.3	3018.2	2690.4	2460.0	2445.2
52.5°	16216.0	13924.3	6523.6	3641.3	3278.0	3233.7	3059.5	2776.0	2465.9	2271.0	2256.2
55°	18941.8	16047.6	6523.6	3248.5	2944.3	2959.1	2838.0	2575.2	2306.4	2132.2	2114.5
57.5°	21723.7	18197.6	6405.5	2885.3	2660.8	2722.8	2646.1	2415.7	2173.5	1993.4	1963.9
60°	24287.1	19999.0	5927.1	2554.5	2409.8	2507.3	2457.1	2259.2	1963.9	1813.3	1789.6
62.5°	26256.8	21014.9	5005.7	2291.7	2203.1	2315.3	2288.7	2052.5	1925.5	1863.5	1842.8
65°	27243.2	20849.5	3827.3	2058.4	2028.8	2203.1	2147.0	2138.1	2037.7	1966.8	1943.2
67.5°	26637.8	19426.1	2776.0	1887.1	1928.4	2099.7	2315.3	2350.7	2164.7	2025.9	2002.3
70°	23982.9	16850.9	2067.2	1724.7	1801.4	2102.7	2640.2	2460.0	2123.3	1960.9	1934.3
72.5°	18244.8	12565.8	1603.6	1553.4	1636.1	2117.4	2784.9	2409.8	2005.2	2167.6	2149.9
75°	10433.6	6898.7	1287.6	1343.7	1429.3	1978.6	2711.0	2279.9	1913.7	1990.5	1990.5
77.5°	3977.9	2652.0	1063.1	1137.0	1148.8	1727.6	2592.9	2271.0	1822.1	1777.8	1621.3
80°	1379.1	1036.6	880.1	903.7	888.9	1535.7	2486.6	1975.7	1491.4	1334.8	1290.5
82.5°	564.1	516.8	697.0	667.4	632.0	1193.1	2008.2	1615.4	1219.7	1077.9	1066.1
85°	245.1	327.8	460.7	404.6	366.2	826.9	1609.5	1367.3	1030.7	888.9	886.0
87.5°	50.2	124.0	194.9	183.1	189.0	552.2	1142.9	971.6	729.4	546.3	428.2
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)