

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: P941957

Luminaire Tested: **GALN-SB5D-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47711 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

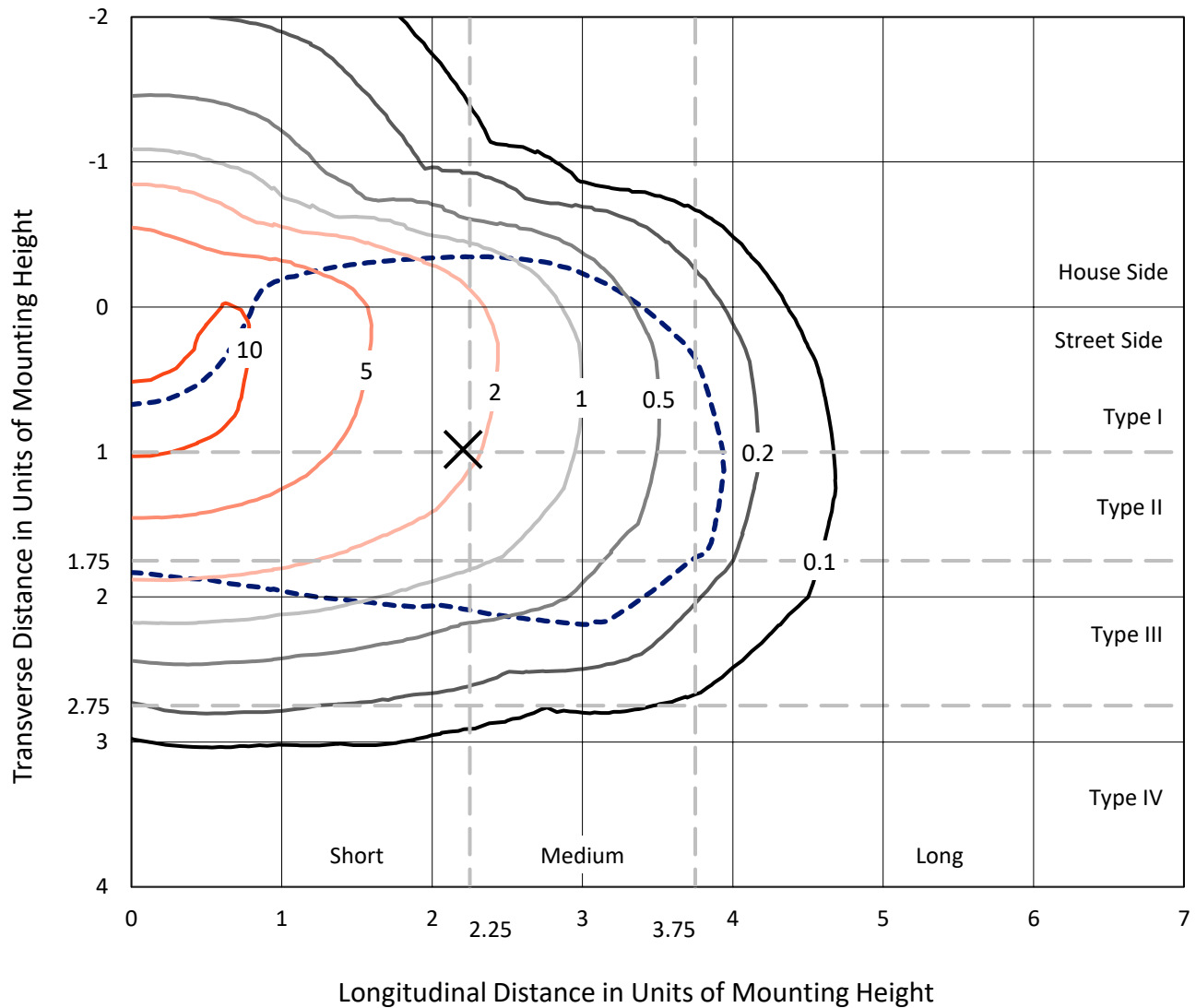


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

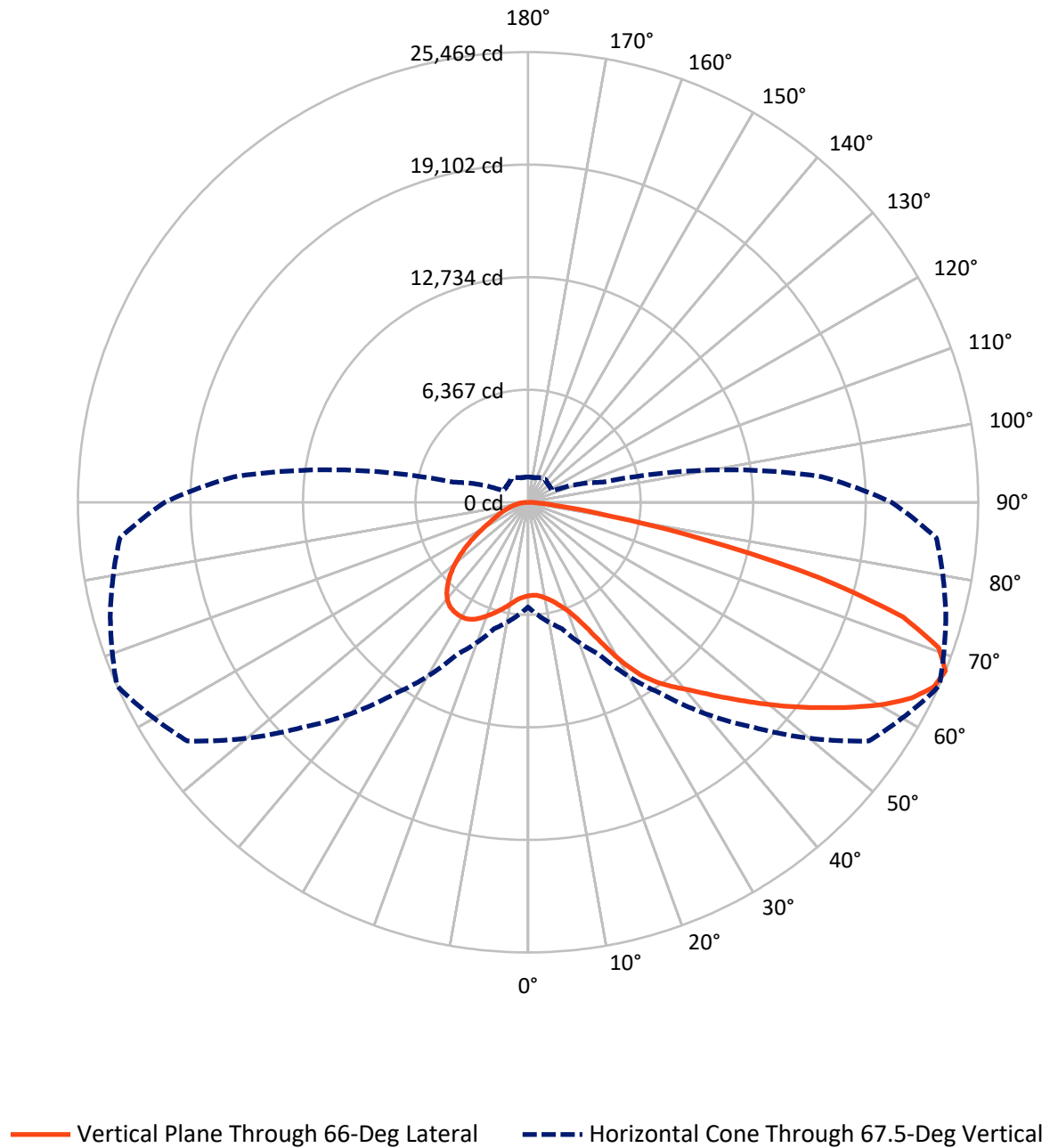


Based on 25 foot mounting height. Maximum calculated value = 12 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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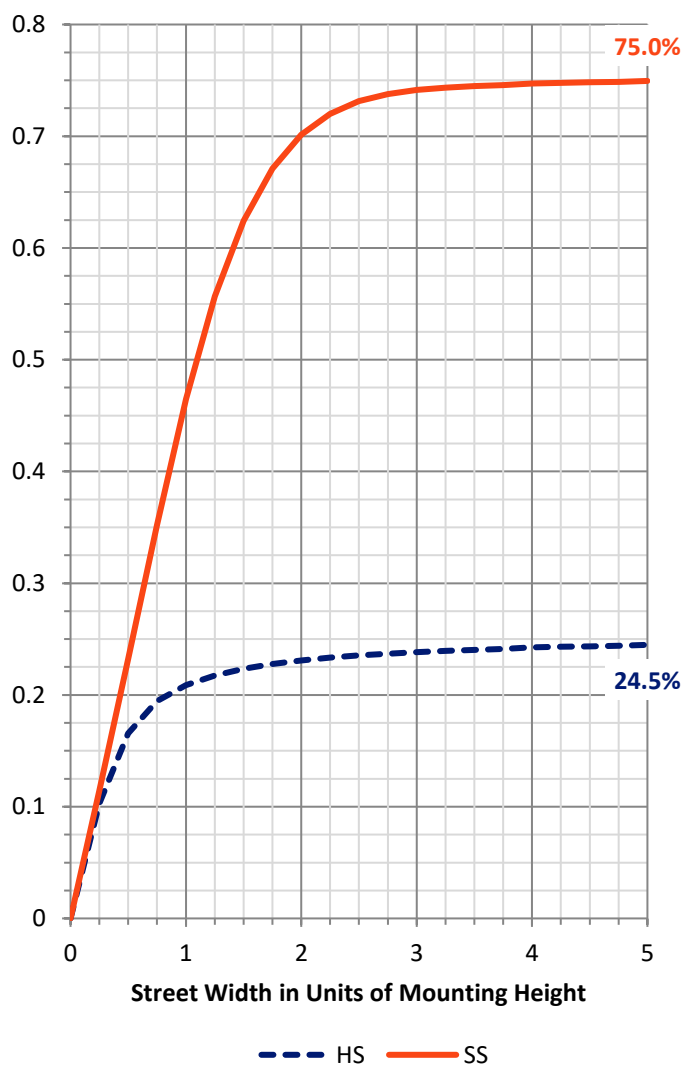
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11863.2	0.0	11863.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	35847.8	0.0	35847.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	47711.0	0.0	47711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.7	1.1
10°-20°	1733.4	3.6
20°-30°	3341.0	7.0
30°-40°	5858.1	12.3
40°-50°	8709.0	18.3
50°-60°	11039.6	23.1
60°-70°	10801.9	22.6
70°-80°	5152.6	10.8
80°-90°	550.7	1.2
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°	47711.0	100.0
0°-180°	47711.0	100.0

Coefficient of Utilization



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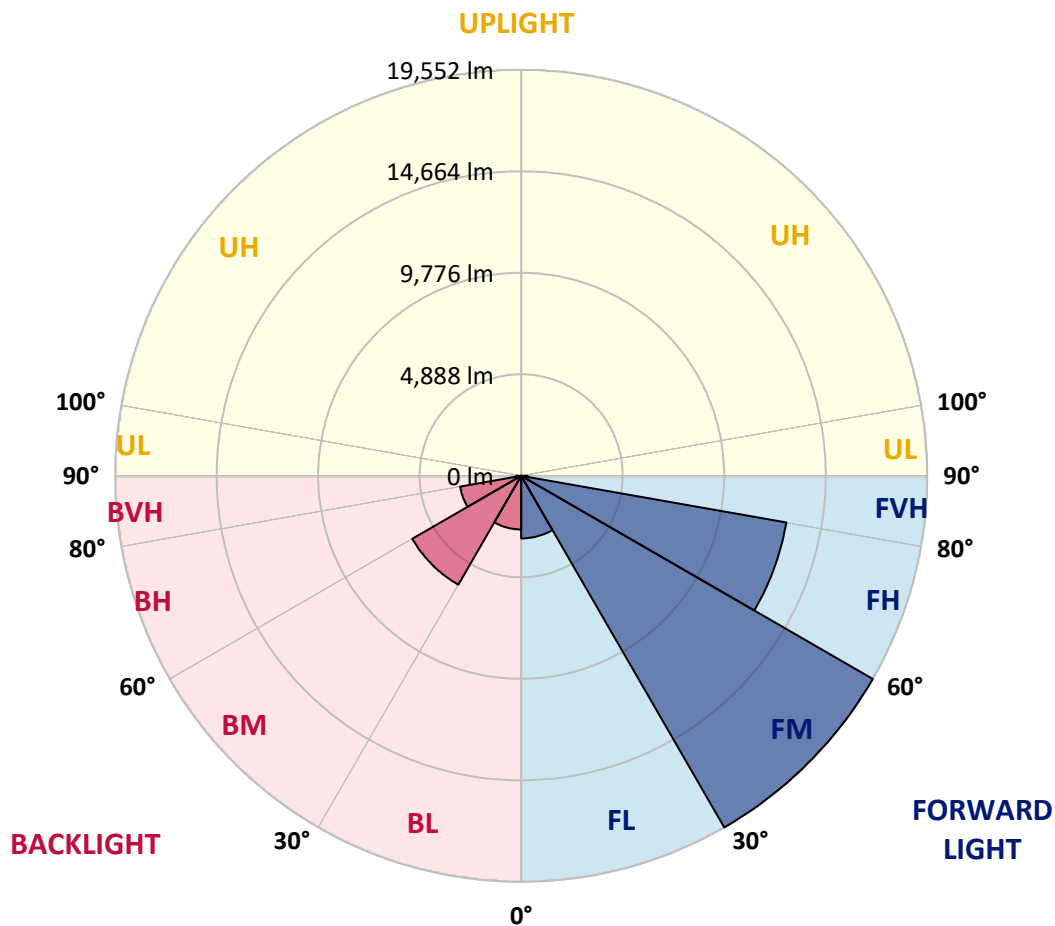
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3014.9	6.3			
FM	(30°-60°)	19551.6	41.0			
FH	(60°-80°)	12969.2	27.2			G5
FVH	(80°-90°)	312.2	0.7			G3/500
BL	(0°-30°)	2584.2	5.4	B4/5000		
BM	(30°-60°)	6055.1	12.7	B4/8500		
BH	(60°-80°)	2985.4	6.3	B4/5000		G4/5000
BVH	(80°-90°)	238.5	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8
2.5°	5236.6	5266.7	5259.2	5246.7	5244.2	5249.2	5256.7	5264.2	5261.7	5274.2	5294.3
5°	5221.6	5251.7	5249.2	5249.2	5259.2	5279.2	5291.8	5304.3	5291.8	5306.8	5334.4
7.5°	5231.6	5254.2	5264.2	5274.2	5299.3	5336.9	5367.0	5394.6	5379.5	5397.1	5432.2
10°	5359.5	5377.0	5387.0	5387.0	5404.6	5447.2	5477.3	5527.4	5514.9	5542.5	5587.6
12.5°	5592.6	5610.1	5610.1	5600.1	5612.6	5640.2	5650.2	5705.4	5682.8	5728.0	5773.1
15°	5878.4	5913.5	5885.9	5868.3	5873.3	5900.9	5898.4	5941.0	5918.5	5956.1	5996.2
17.5°	6194.2	6239.3	6194.2	6191.7	6181.7	6211.8	6214.3	6251.9	6211.8	6239.3	6266.9
20°	6567.7	6630.4	6592.8	6605.3	6582.8	6595.3	6607.8	6663.0	6600.3	6620.4	6612.8
22.5°	7094.1	7169.3	7129.2	7176.9	7161.8	7151.8	7149.3	7247.1	7149.3	7156.8	7084.1
25°	7861.2	7951.5	7881.3	7946.4	7946.4	7979.0	8016.6	8142.0	7979.0	7931.4	7743.4
27.5°	8994.3	9084.5	8946.6	8986.8	8974.2	9054.4	9014.3	9325.2	9149.7	9072.0	8693.5
30°	10358.0	10518.4	10257.7	10247.7	10235.1	10363.0	10420.6	10626.2	10448.2	10370.5	9914.3
32.5°	11831.9	11999.9	11689.0	11598.8	11551.2	11628.9	11581.3	11746.7	11623.9	11503.5	10939.5
35°	13391.1	13556.6	13260.8	13085.3	12894.8	12731.9	12561.4	12604.0	12488.7	12305.7	11721.6
37.5°	14865.1	15168.4	14855.1	14667.1	14316.1	13997.8	13521.5	13323.5	13215.7	13047.7	12458.6
40°	16366.7	16539.6	16301.5	16141.1	15760.0	15261.2	14499.1	14080.5	13935.1	13772.2	13273.3
42.5°	17472.2	17637.6	17509.8	17399.5	17101.1	16522.1	15536.9	15013.0	14802.4	14619.5	14195.8
45°	18349.5	18472.3	18392.1	18432.2	18304.4	17742.9	16612.3	16013.2	15795.1	15572.0	15238.6
47.5°	18703.0	18833.3	18961.2	19199.3	19417.4	19003.8	17767.9	17096.1	16865.5	16637.4	16309.0
50°	18662.9	18795.7	19166.7	19673.1	20349.9	20212.0	18986.2	18249.2	18036.2	17775.5	17472.2
52.5°	18342.0	18492.4	18968.7	19811.0	20888.9	21117.0	20227.1	19440.0	19239.4	18928.6	18625.3
55°	17499.7	17590.0	18304.4	19497.6	21016.7	21748.7	21442.9	20708.4	20507.8	20074.2	19743.3
57.5°	15938.0	16068.4	17108.7	18652.8	20695.8	22177.3	22510.7	22042.0	21849.0	21224.8	20878.8
60°	13900.0	14108.1	15298.8	17234.0	19878.6	22174.8	23480.9	23353.0	23192.6	22357.8	21996.9
62.5°	11593.8	11834.4	12980.0	15228.6	18449.8	21545.6	24087.5	24451.0	24368.3	23403.2	22941.9
65°	8904.0	9069.5	10210.1	12634.1	16226.3	20194.5	24157.7	25200.5	25215.5	24197.8	23435.7
67.5°	5928.5	6404.8	7395.0	9480.6	13248.3	17986.0	23541.0	25323.3	25468.7	24471.0	23187.6
70°	2892.8	3519.5	4489.6	6161.6	9480.6	14599.4	21929.2	24315.6	24639.0	23673.9	21708.6
72.5°	1200.7	1403.8	1932.7	3040.7	5442.2	9851.6	18690.4	21583.2	22182.4	20976.6	18251.8
75°	809.7	877.4	1105.5	1559.2	2479.2	4858.1	13478.9	16093.4	17058.5	15842.8	12949.9
77.5°	624.2	666.8	804.7	1090.4	1474.0	1837.5	7214.5	9698.7	10197.5	9440.5	6738.2
80°	491.3	523.9	601.6	794.6	1045.3	982.7	2459.1	4394.4	4682.6	3928.1	2165.8
82.5°	426.2	438.7	431.2	539.0	694.4	574.0	807.2	1621.9	1789.8	1298.5	706.9
85°	308.3	343.4	358.5	333.4	368.5	290.8	330.9	574.0	631.7	564.0	398.6
87.5°	125.3	185.5	228.1	215.6	135.4	82.7	102.8	168.0	193.0	210.6	130.4
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°	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8	5291.8
2.5°	5296.8	5314.3	5326.9	5341.9	5351.9	5367.0	5397.1	5414.6	5417.1	5429.7	5427.1
5°	5344.4	5369.5	5397.1	5437.2	5482.3	5519.9	5577.6	5617.7	5632.7	5645.2	5642.7
7.5°	5447.2	5482.3	5532.4	5602.6	5667.8	5717.9	5788.1	5835.7	5883.4	5900.9	5903.4
10°	5600.1	5650.2	5722.9	5818.2	5888.4	5953.6	6026.3	6066.4	6114.0	6134.1	6144.1
12.5°	5790.6	5843.3	5938.5	6071.4	6136.6	6181.7	6206.7	6196.7	6206.7	6224.3	6229.3
15°	6008.7	6066.4	6174.2	6317.0	6362.2	6322.1	6266.9	6216.8	6209.3	6214.3	6231.8
17.5°	6266.9	6309.5	6434.9	6555.2	6522.6	6357.2	6236.8	6156.6	6116.5	6104.0	6121.5
20°	6627.9	6627.9	6730.7	6805.9	6587.8	6307.0	6119.0	5988.7	5905.9	5870.8	5863.3
22.5°	7066.6	7026.5	7091.6	7039.0	6575.2	6166.6	5905.9	5680.3	5555.0	5504.9	5497.3
25°	7623.1	7575.4	7557.9	7232.0	6485.0	5943.5	5519.9	5246.7	5136.4	5108.8	5113.8
27.5°	8462.8	8342.5	8114.4	7337.3	6319.6	5592.6	5068.7	4815.5	4752.8	4755.3	4762.9
30°	9580.9	9340.2	8781.2	7354.8	6048.8	5096.3	4607.4	4426.9	4396.9	4409.4	4452.0
32.5°	10616.1	10388.0	9463.0	7274.6	5632.7	4609.9	4193.8	4073.5	4028.4	4043.4	4063.5
35°	11428.3	11365.7	10094.7	7161.8	5121.3	4153.7	3822.8	3720.0	3632.3	3612.2	3627.3
37.5°	12195.4	12170.3	10568.5	7003.9	4615.0	3830.3	3524.5	3389.1	3261.3	3191.1	3193.6
40°	13037.7	13012.6	10879.4	6760.7	4166.2	3549.6	3256.3	3078.3	2920.4	2792.5	2805.1
42.5°	13985.2	13837.3	11027.3	6412.3	3785.2	3311.4	3038.2	2797.5	2589.5	2471.7	2479.2
45°	15020.5	14687.1	11024.8	5968.6	3464.3	3093.3	2805.1	2464.1	2271.1	2160.8	2155.8
47.5°	16118.5	15499.3	10889.4	5477.3	3153.5	2852.7	2444.1	2183.4	2055.5	1987.9	1972.8
50°	17251.6	16258.9	10658.8	4913.3	2835.2	2579.5	2218.5	2040.5	1942.7	1880.1	1857.5
52.5°	18316.9	16948.2	10380.5	4274.0	2511.8	2313.7	2118.2	1980.3	1877.6	1807.4	1777.3
55°	19307.1	17542.3	9987.0	3619.8	2248.6	2135.8	2070.6	1955.3	1837.5	1754.7	1722.1
57.5°	20187.0	17928.4	9307.6	3005.6	2060.6	2012.9	2020.5	1912.7	1777.3	1707.1	1662.0
60°	20919.0	18211.6	8302.4	2436.6	1907.6	1892.6	1942.7	1832.4	1674.5	1594.3	1559.2
62.5°	21357.6	18206.6	7069.1	1995.4	1777.3	1782.3	1840.0	1732.2	1571.7	1496.5	1474.0
65°	21320.0	17760.4	5715.4	1707.1	1652.0	1657.0	1732.2	1621.9	1486.5	1441.4	1438.9
67.5°	20565.5	16672.5	4384.3	1519.1	1514.1	1536.6	1624.4	1546.7	1433.9	1428.9	1436.4
70°	18522.5	14413.9	3158.5	1368.7	1371.2	1403.8	1519.1	1499.0	1406.3	1416.3	1413.8
72.5°	14852.6	10989.7	2120.7	1210.8	1213.3	1265.9	1418.8	1461.4	1378.7	1511.6	1531.6
75°	9891.7	6853.5	1363.7	1042.8	1045.3	1113.0	1331.1	1388.7	1303.5	1506.6	1519.1
77.5°	4752.8	3080.8	987.7	877.4	877.4	940.0	1150.6	1243.4	1110.5	1170.7	1072.9
80°	1641.9	1158.1	777.1	706.9	691.9	734.5	970.1	1077.9	957.6	882.4	827.2
82.5°	646.7	601.6	624.2	549.0	498.8	526.4	754.5	889.9	704.4	636.7	634.2
85°	371.0	391.1	441.2	363.5	288.3	323.4	554.0	639.2	531.4	468.8	478.8
87.5°	100.3	137.9	203.0	188.0	130.4	137.9	263.2	353.5	305.8	235.6	243.2
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)