

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: P942638

Luminaire Tested: **GALN-SB6D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43336 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

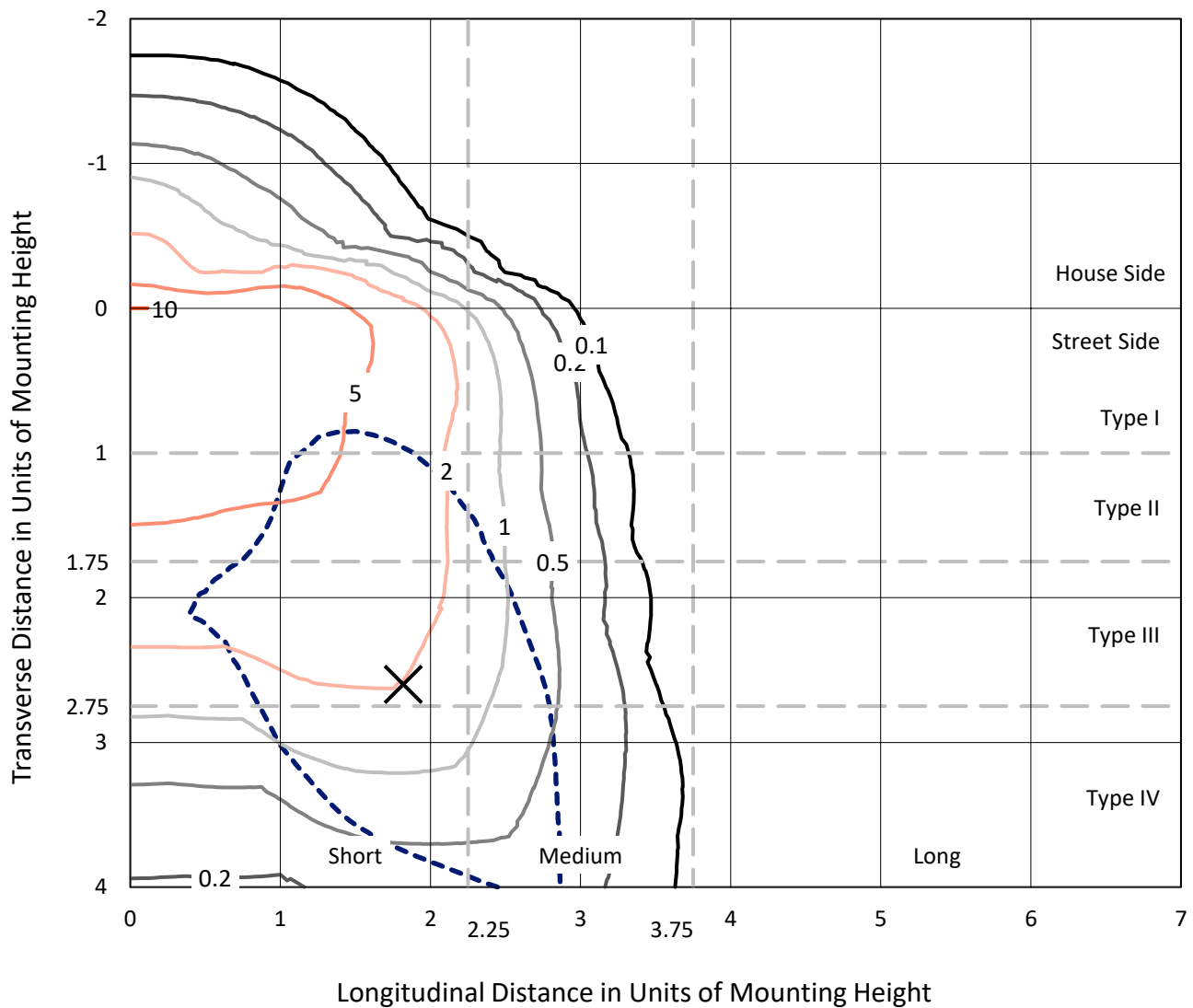


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Iso-Footcandle Lines of Horizontal Illumination

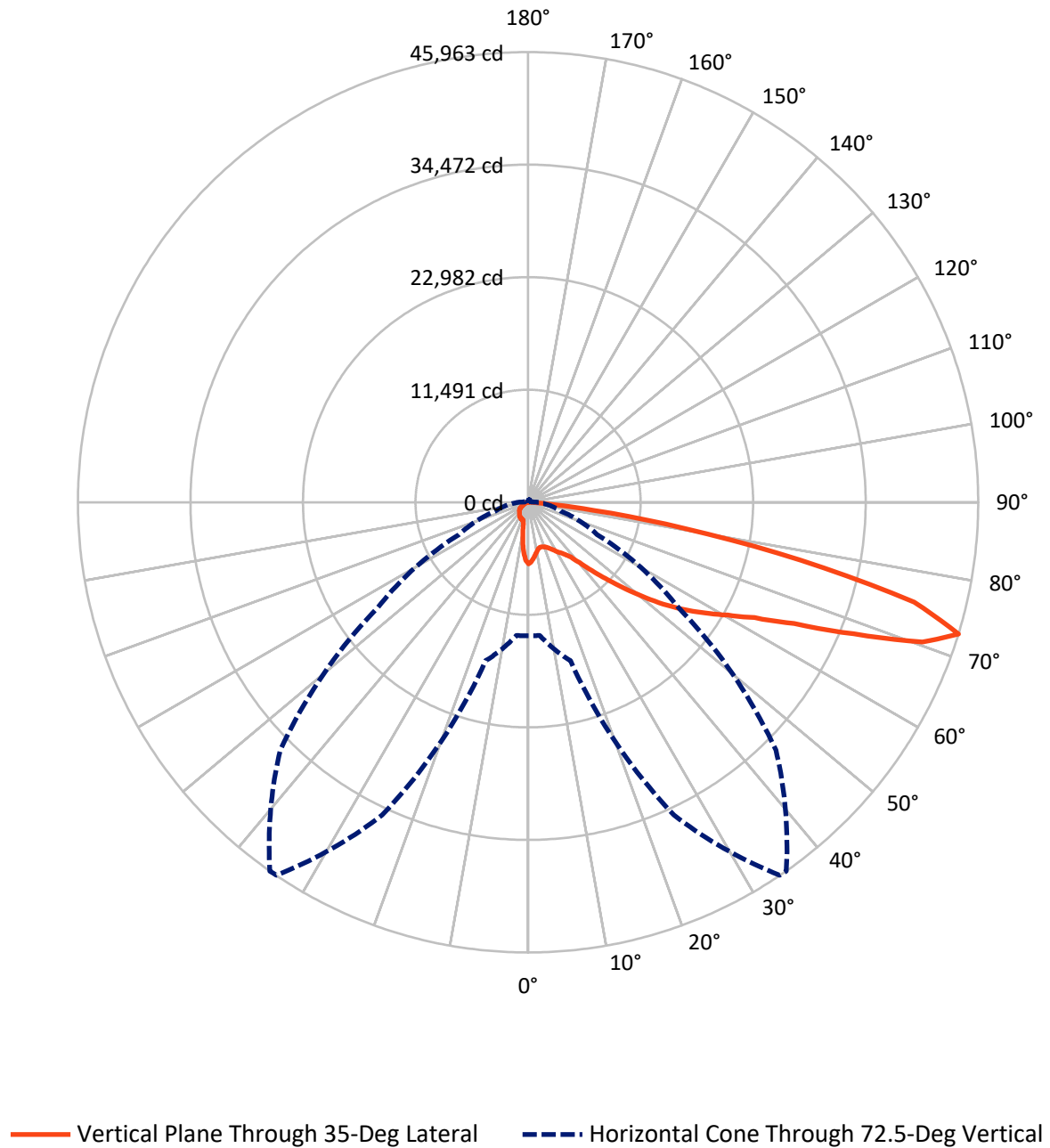
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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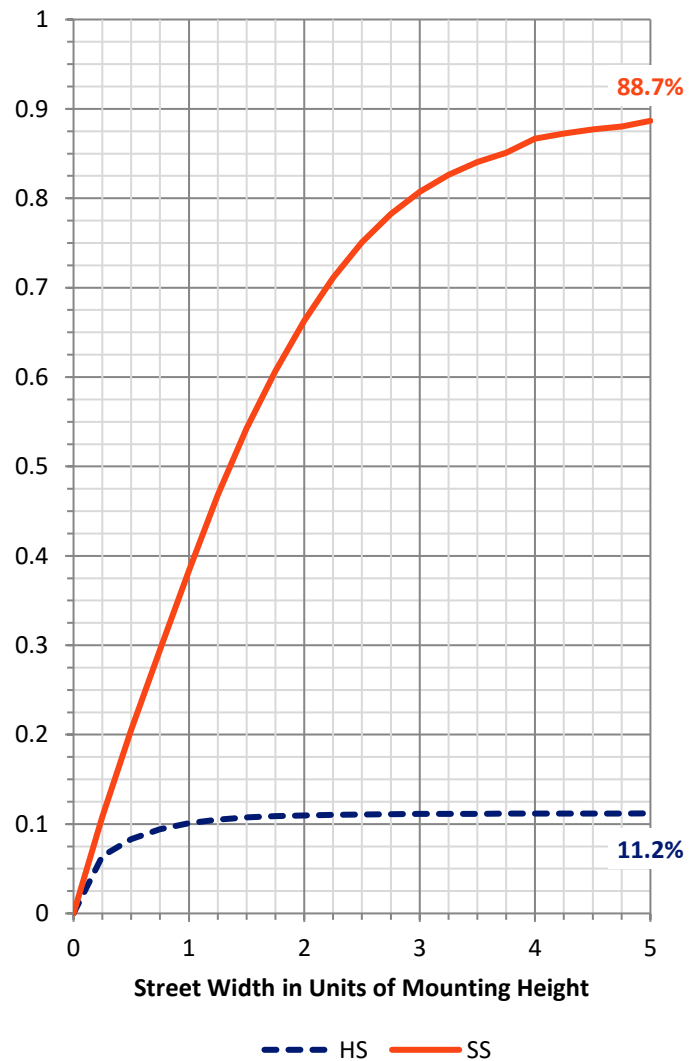
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4877.3	0.0	4877.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	38458.7	0.0	38458.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	43336.0	0.0	43336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.1	1.2
10°-20°	1207.4	2.8
20°-30°	1961.4	4.5
30°-40°	3272.5	7.6
40°-50°	6191.8	14.3
50°-60°	9838.6	22.7
60°-70°	12171.1	28.1
70°-80°	7565.6	17.5
80°-90°	611.4	1.4
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°	43336.0	100.0
0°-180°	43336.0	100.0

Coefficient of Utilization



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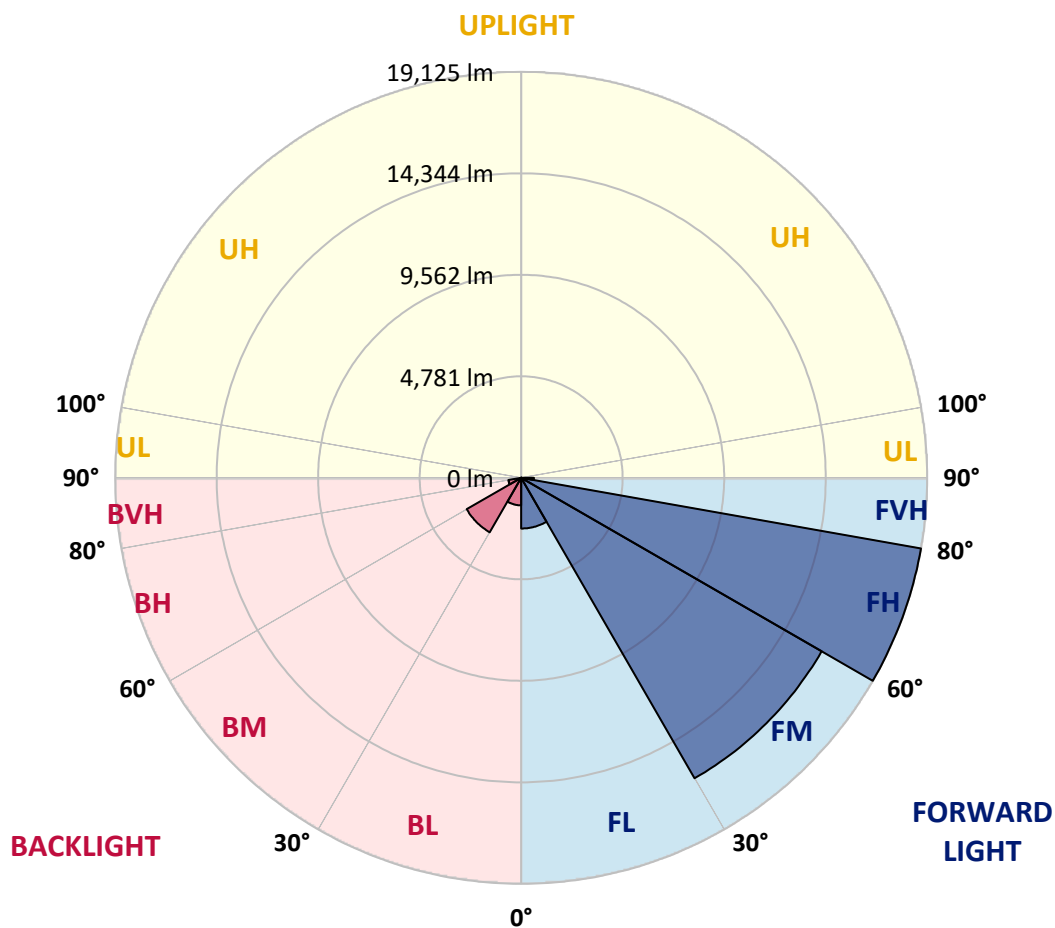
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2388.9	5.5			
FM	(30°-60°)	16342.0	37.7			
FH	(60°-80°)	19124.7	44.1			G5
FVH	(80°-90°)	603.1	1.4			G4/750
BL	(0°-30°)	1296.0	3.0	B3/2500		
BM	(30°-60°)	2960.9	6.8	B3/5000		
BH	(60°-80°)	612.0	1.4	B2/1000		G2/1000
BVH	(80°-90°)	8.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8
2.5°	6001.4	6052.2	6061.7	6077.6	6077.6	6096.7	6128.4	6172.9	6245.9	6284.0	6309.4
5°	5531.5	5569.6	5617.2	5655.3	5728.3	5737.9	5861.7	5982.4	6150.7	6277.7	6366.6
7.5°	5058.3	5102.8	5166.3	5258.4	5353.6	5382.2	5569.6	5772.8	6039.5	6277.7	6426.9
10°	4724.9	4728.1	4785.3	4877.3	5029.8	5064.7	5293.3	5582.3	5915.7	6239.6	6484.1
12.5°	4537.6	4559.8	4585.2	4655.1	4801.1	4823.4	5067.9	5407.6	5791.8	6217.3	6550.7
15°	4537.6	4553.4	4569.3	4604.3	4721.7	4740.8	4956.7	5296.5	5728.3	6226.9	6658.7
17.5°	4585.2	4610.6	4597.9	4639.2	4763.0	4775.7	4966.2	5264.7	5725.2	6287.2	6823.8
20°	4699.5	4718.6	4693.2	4718.6	4842.4	4867.8	5064.7	5325.1	5779.1	6392.0	7030.2
22.5°	4880.5	4890.0	4829.7	4848.8	4975.8	5007.5	5236.1	5496.5	5909.3	6560.3	7306.5
25°	5109.1	5128.2	5036.1	5058.3	5179.0	5217.1	5480.7	5753.7	6115.7	6792.1	7658.9
27.5°	5372.7	5382.2	5302.8	5299.7	5455.2	5509.2	5776.0	6071.3	6392.0	7084.2	8103.5
30°	5674.3	5702.9	5626.7	5614.0	5810.9	5855.3	6118.9	6461.8	6798.4	7522.4	8735.4
32.5°	5912.5	5934.7	5890.3	5922.0	6122.1	6157.0	6534.9	7014.3	7436.7	8144.8	9595.9
35°	6255.4	6268.1	6166.5	6223.7	6452.3	6541.2	7103.3	7789.1	8240.0	8925.9	10720.0
37.5°	7497.0	7497.0	7065.2	6782.5	7001.6	7081.0	7881.2	8764.0	9230.7	9973.8	12136.2
40°	9214.9	9186.3	8554.4	7976.5	7947.9	8103.5	8989.4	9992.8	10510.4	11231.2	13730.2
42.5°	11047.0	11002.6	10142.1	9570.5	9475.2	9529.2	10269.1	11507.5	12034.6	12764.9	15444.9
45°	12672.8	12660.1	11872.6	11104.2	10932.7	11104.2	11866.3	13279.3	13657.2	14425.6	17156.4
47.5°	14035.0	14035.0	13460.3	12958.6	12869.7	12971.3	14028.7	15244.8	15209.9	16194.3	18823.5
50°	15603.7	15591.0	15044.8	14828.9	14921.0	15063.9	16518.2	17315.2	16816.6	17931.2	20312.7
52.5°	16702.3	16778.5	16591.2	16556.3	17026.2	17273.9	19045.7	19341.0	18255.1	19579.2	21427.3
55°	17572.4	17661.3	17877.2	18121.7	19026.7	19350.6	21493.9	21262.1	19458.5	21008.1	22068.7
57.5°	18804.4	18677.4	19010.8	19493.5	20957.3	21347.9	23865.9	23075.3	20427.0	22167.1	22138.5
60°	20300.0	20319.1	20376.2	20985.9	22884.7	23386.4	26203.0	24789.9	21049.4	22878.4	21363.7
62.5°	22097.3	22125.8	22243.3	23180.0	25472.6	25945.8	28692.4	26193.4	21335.2	22678.3	19363.3
65°	21973.4	22094.1	23405.5	26609.4	29406.9	29873.7	31597.9	27177.8	20903.3	20849.3	15765.6
67.5°	20017.4	20214.3	22408.4	30705.6	35338.5	35859.2	35109.8	27371.5	19039.4	16213.3	10285.0
70°	17451.7	17521.6	20160.3	34389.0	42206.7	42733.8	38253.4	25240.8	14447.8	9043.4	4607.4
72.5°	13628.6	13644.5	16740.4	35243.2	45934.6	45963.2	35786.2	18737.7	7770.1	3473.8	1600.4
75°	9735.6	9640.4	11212.2	28581.3	40412.7	40736.5	26828.5	8789.4	2969.0	1641.7	797.0
77.5°	5220.3	5325.1	6344.3	16950.0	27917.7	28470.2	14638.4	2533.9	1511.5	1117.7	527.1
80°	1613.1	1702.0	2600.6	7760.6	15813.2	16146.6	5426.7	1127.2	1054.2	797.0	346.1
82.5°	508.1	527.1	1213.0	3261.1	6563.4	6715.9	1571.8	638.2	720.8	527.1	203.2
85°	146.1	149.2	539.8	1216.2	1622.6	1654.4	441.4	247.7	412.8	327.1	104.8
87.5°	15.9	50.8	203.2	203.2	142.9	139.7	47.6	54.0	117.5	41.3	19.1
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°	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8	6280.8
2.5°	6293.5	6296.7	6255.4	6185.6	6109.4	6045.9	5966.5	5903.0	5858.5	5845.8	5868.0
5°	6338.0	6315.8	6198.3	5985.5	5731.5	5512.4	5267.9	5074.2	4947.2	4893.2	4912.3
7.5°	6404.7	6341.2	6084.0	5664.8	5179.0	4747.1	4308.9	3969.2	3753.3	3645.3	3661.2
10°	6461.8	6334.8	5893.4	5201.2	4458.2	3804.1	3213.5	2803.8	2575.2	2467.2	2470.4
12.5°	6515.8	6331.6	5645.8	4651.9	3645.3	2845.1	2295.8	2092.6	2029.0	2006.8	2000.5
15°	6617.4	6341.2	5334.6	4023.2	2835.6	2149.7	1949.7	1946.5	1959.2	1952.8	1949.7
17.5°	6757.1	6350.7	4982.1	3356.3	2187.8	1895.7	1886.2	1914.7	1933.8	1924.3	1921.1
20°	6938.1	6388.8	4607.4	2695.9	1879.8	1832.2	1854.4	1879.8	1895.7	1879.8	1876.6
22.5°	7192.2	6455.5	4197.8	2165.6	1781.4	1794.1	1813.1	1841.7	1857.6	1835.4	1832.2
25°	7503.3	6560.3	3794.5	1883.0	1733.7	1749.6	1778.2	1809.9	1829.0	1806.8	1803.6
27.5°	7906.6	6728.6	3423.0	1819.5	1686.1	1695.6	1736.9	1784.5	1809.9	1781.4	1781.4
30°	8490.9	7004.8	3102.3	1848.1	1657.5	1635.3	1692.5	1759.1	1787.7	1762.3	1759.1
32.5°	9265.7	7395.4	2905.4	1892.5	1644.8	1565.4	1619.4	1705.2	1752.8	1736.9	1736.9
35°	10281.8	7989.2	2829.2	1943.3	1635.3	1492.4	1530.5	1622.6	1705.2	1721.0	1721.0
37.5°	11513.8	8814.8	2851.5	1965.5	1606.7	1432.1	1451.1	1530.5	1638.5	1689.3	1702.0
40°	12914.1	9776.9	2978.5	1943.3	1575.0	1381.3	1384.5	1444.8	1540.0	1616.3	1641.7
42.5°	14358.9	10901.0	3213.5	1860.8	1546.4	1336.8	1327.3	1368.6	1432.1	1486.1	1508.3
45°	15733.9	12056.8	3445.3	1746.4	1511.5	1292.4	1270.1	1286.0	1298.7	1320.9	1333.6
47.5°	16934.1	12869.7	3378.6	1641.7	1463.8	1241.6	1203.5	1197.1	1159.0	1155.8	1152.7
50°	17762.9	13047.5	3000.7	1536.9	1394.0	1184.4	1124.1	1086.0	1019.3	987.5	990.7
52.5°	18026.5	12345.8	2451.4	1432.1	1279.7	1108.2	1022.5	962.1	879.6	851.0	847.8
55°	17677.2	10970.8	1959.2	1305.1	1120.9	1006.6	911.3	831.9	765.3	730.3	730.3
57.5°	16823.0	9221.2	1549.6	1155.8	952.6	892.3	797.0	717.6	660.5	625.5	619.2
60°	15406.8	7322.4	1225.7	978.0	812.9	768.4	670.0	619.2	568.4	527.1	517.6
62.5°	13257.1	5226.6	962.1	774.8	679.5	628.7	571.6	533.5	473.1	416.0	406.4
65°	10345.3	3197.6	743.0	568.4	546.2	520.8	485.8	450.9	377.9	320.7	311.2
67.5°	6525.3	1514.6	530.3	428.7	431.8	419.1	403.3	374.7	320.7	269.9	263.6
70°	2873.7	733.5	349.3	327.1	320.7	320.7	333.4	323.9	273.1	225.4	215.9
72.5°	978.0	393.7	260.4	247.7	231.8	228.6	279.4	269.9	219.1	174.6	165.1
75°	511.2	263.6	190.5	177.8	139.7	168.3	222.3	209.6	155.6	114.3	104.8
77.5°	333.4	187.3	130.2	114.3	79.4	111.1	165.1	146.1	92.1	57.2	50.8
80°	209.6	123.8	76.2	54.0	38.1	60.3	88.9	63.5	34.9	12.7	9.5
82.5°	111.1	63.5	28.6	19.1	15.9	19.1	22.2	15.9	6.4	0.0	0.0
85°	44.5	22.2	9.5	6.4	3.2	0.0	6.4	3.2	0.0	0.0	0.0
87.5°	15.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)