

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: P941958

Luminaire Tested: **GALN-SB5D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941958
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-SB5D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 36100 lumens
Efficiency: N/A
Efficacy: 98.9 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): 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

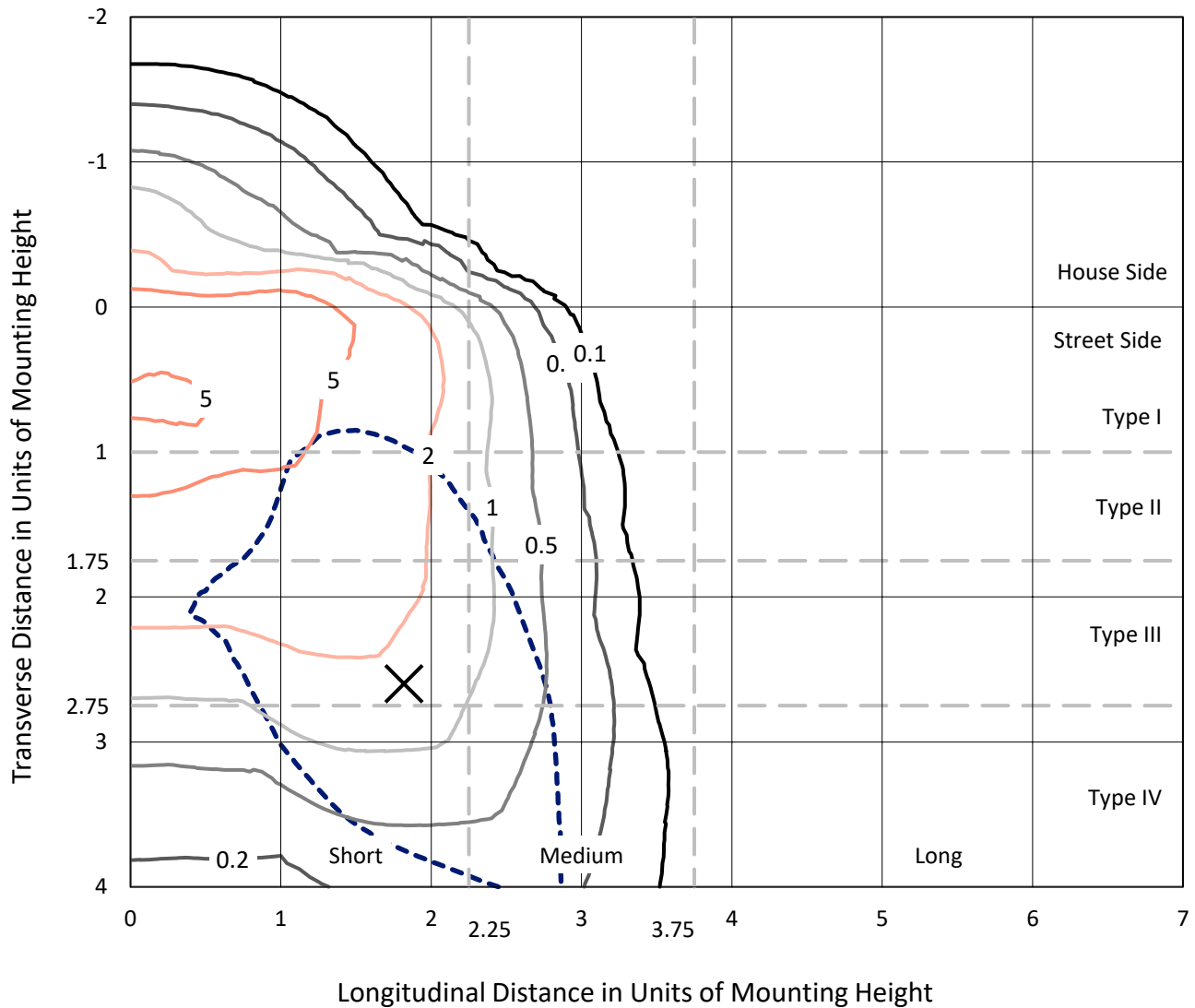


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Iso-Footcandle Lines of Horizontal Illumination

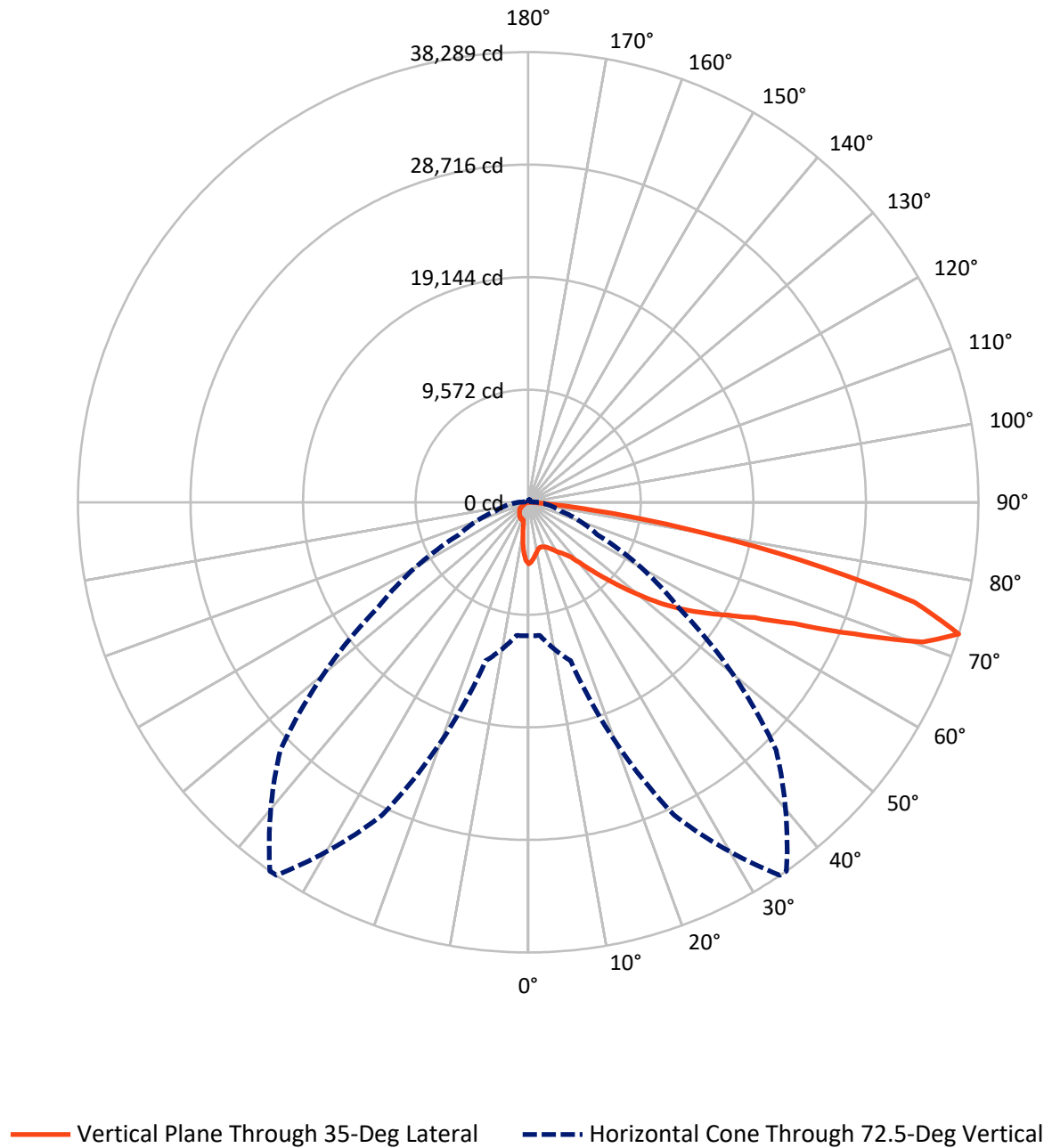
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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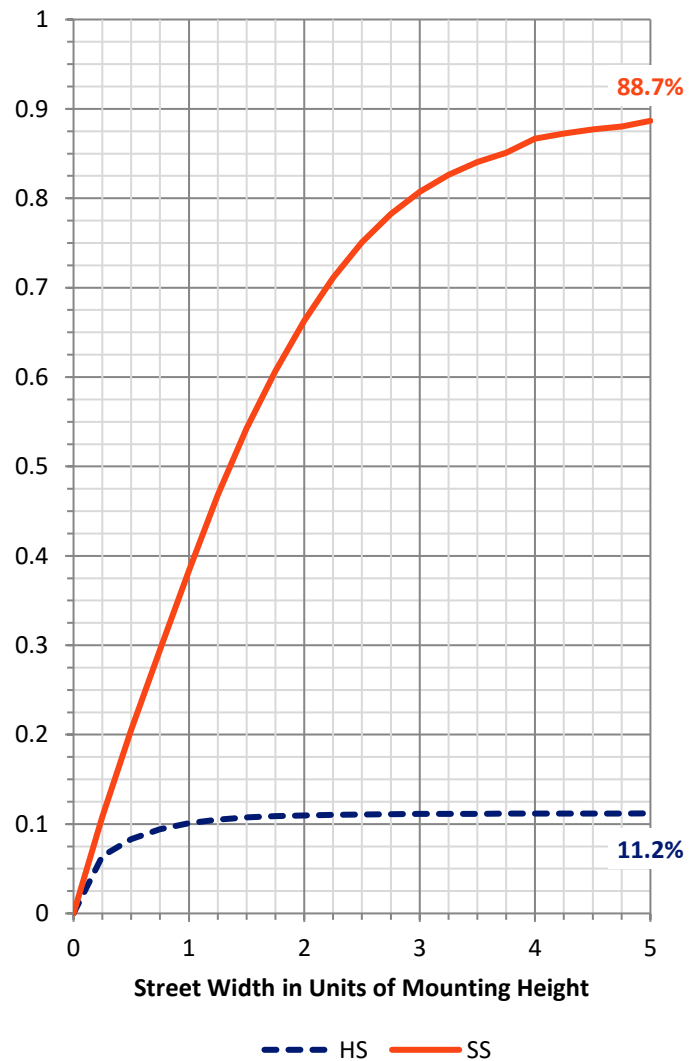
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4062.9	0.0	4062.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	32037.1	0.0	32037.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	36100.0	0.0	36100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.9	1.2
10°-20°	1005.8	2.8
20°-30°	1633.9	4.5
30°-40°	2726.1	7.6
40°-50°	5157.9	14.3
50°-60°	8195.9	22.7
60°-70°	10138.8	28.1
70°-80°	6302.4	17.5
80°-90°	509.3	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°	36100.0	100.0
0°-180°	36100.0	100.0

Coefficient of Utilization



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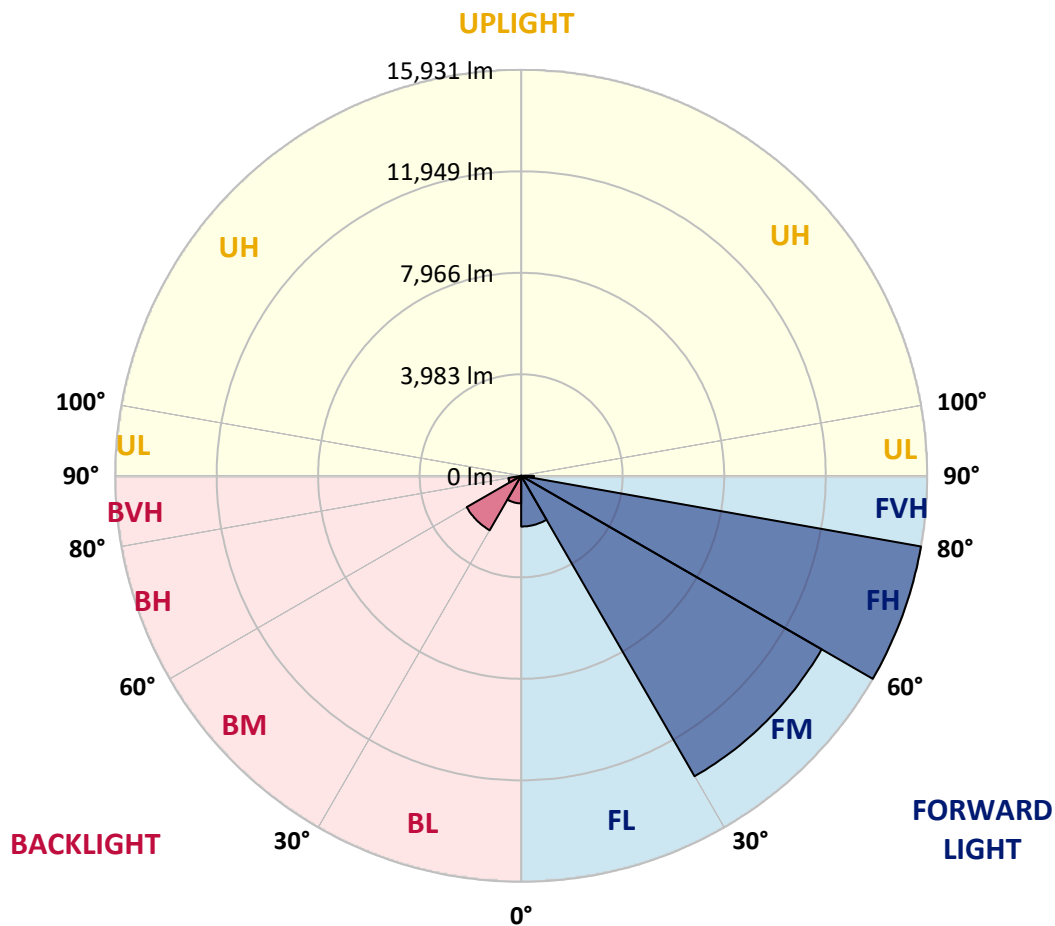
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1990.0	5.5			
FM	(30°-60°)	13613.3	37.7			
FH	(60°-80°)	15931.4	44.1			G5
FVH	(80°-90°)	502.4	1.4			G4/750
BL	(0°-30°)	1079.6	3.0	B3/2500		
BM	(30°-60°)	2466.5	6.8	B2/2500		
BH	(60°-80°)	509.8	1.4	B2/1000		G2/1000
BVH	(80°-90°)	6.9	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°	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1
2.5°	4999.3	5041.6	5049.6	5062.8	5062.8	5078.7	5105.1	5142.2	5203.0	5234.7	5255.9
5°	4607.8	4639.6	4679.3	4711.0	4771.8	4779.8	4882.9	4983.5	5123.6	5229.5	5303.5
7.5°	4213.7	4250.8	4303.7	4380.4	4459.7	4483.5	4639.6	4808.9	5031.1	5229.5	5353.8
10°	3936.0	3938.6	3986.2	4062.9	4189.9	4219.0	4409.5	4650.2	4927.9	5197.7	5401.4
12.5°	3779.9	3798.4	3819.6	3877.8	3999.5	4018.0	4221.7	4504.7	4824.7	5179.2	5456.9
15°	3779.9	3793.1	3806.4	3835.5	3933.3	3949.2	4129.1	4412.1	4771.8	5187.1	5546.9
17.5°	3819.6	3840.8	3830.2	3864.6	3967.7	3978.3	4137.0	4385.7	4769.2	5237.4	5684.4
20°	3914.8	3930.7	3909.5	3930.7	4033.8	4055.0	4219.0	4435.9	4814.2	5324.7	5856.4
22.5°	4065.6	4073.5	4023.3	4039.1	4144.9	4171.4	4361.8	4578.7	4922.6	5464.9	6086.5
25°	4256.0	4271.9	4195.2	4213.7	4314.2	4346.0	4565.5	4793.0	5094.6	5658.0	6380.1
27.5°	4475.6	4483.5	4417.4	4414.7	4544.4	4589.3	4811.5	5057.5	5324.7	5901.3	6750.4
30°	4726.9	4750.7	4687.2	4676.6	4840.6	4877.7	5097.2	5382.9	5663.3	6266.4	7276.8
32.5°	4925.3	4943.8	4906.7	4933.2	5099.8	5128.9	5443.7	5843.1	6194.9	6784.8	7993.6
35°	5210.9	5221.5	5136.9	5184.5	5374.9	5449.0	5917.2	6488.5	6864.2	7435.5	8930.0
37.5°	6245.2	6245.2	5885.5	5650.0	5832.5	5898.7	6565.3	7300.6	7689.4	8308.4	10109.8
40°	7676.2	7652.4	7126.0	6644.6	6620.8	6750.4	7488.4	8324.3	8755.4	9355.9	11437.6
42.5°	9202.5	9165.4	8448.6	7972.5	7893.1	7938.1	8554.4	9586.0	10025.1	10633.5	12866.0
45°	10556.8	10546.2	9890.2	9250.1	9107.2	9250.1	9884.9	11062.0	11376.8	12016.9	14291.7
47.5°	11691.5	11691.5	11212.8	10794.8	10720.8	10805.4	11686.3	12699.3	12670.3	13490.2	15680.4
50°	12998.3	12987.7	12532.7	12352.8	12429.5	12548.6	13760.1	14424.0	14008.7	14937.1	16921.0
52.5°	13913.5	13977.0	13820.9	13791.8	14183.3	14389.6	15865.6	16111.6	15206.9	16310.0	17849.5
55°	14638.2	14712.3	14892.2	15095.9	15849.7	16119.5	17905.0	17711.9	16209.5	17500.3	18383.8
57.5°	15664.6	15558.8	15836.5	16238.6	17458.0	17783.3	19880.9	19222.3	17016.2	18465.8	18442.0
60°	16910.4	16926.3	16973.9	17481.8	19063.6	19481.5	21827.8	20650.7	17534.7	19058.3	17796.5
62.5°	18407.6	18431.4	18529.3	19309.6	21219.4	21613.5	23901.5	21819.8	17772.7	18891.6	16130.1
65°	18304.4	18404.9	19497.4	22166.3	24496.7	24885.5	26321.9	22639.8	17413.0	17368.0	13133.2
67.5°	16675.0	16839.0	18666.8	25578.6	29437.8	29871.6	29247.4	22801.2	15860.3	13506.1	8567.6
70°	14537.7	14595.9	16794.0	28646.9	35159.3	35598.4	31866.1	21026.3	12035.4	7533.4	3838.1
72.5°	11353.0	11366.2	13945.2	29358.5	38264.7	38288.5	29810.8	15609.0	6472.7	2893.8	1333.2
75°	8110.0	8030.7	9340.0	23809.0	33664.8	33934.6	22348.8	7321.8	2473.2	1367.5	663.9
77.5°	4348.6	4435.9	5285.0	14119.8	23256.1	23716.4	12194.1	2110.8	1259.1	931.1	439.1
80°	1343.7	1417.8	2166.4	6464.7	13172.8	13450.6	4520.6	939.0	878.2	663.9	288.3
82.5°	423.2	439.1	1010.4	2716.6	5467.5	5594.5	1309.3	531.7	600.4	439.1	169.3
85°	121.7	124.3	449.7	1013.1	1351.7	1378.1	367.7	206.3	343.9	272.5	87.3
87.5°	13.2	42.3	169.3	169.3	119.0	116.4	39.7	45.0	97.9	34.4	15.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1	5232.1
2.5°	5242.7	5245.3	5210.9	5152.7	5089.3	5036.4	4970.2	4917.3	4880.3	4869.7	4888.2
5°	5279.7	5261.2	5163.3	4986.1	4774.5	4592.0	4388.3	4226.9	4121.1	4076.2	4092.0
7.5°	5335.3	5282.4	5068.1	4718.9	4314.2	3954.5	3589.5	3306.4	3126.6	3036.6	3049.9
10°	5382.9	5277.1	4909.4	4332.8	3713.8	3168.9	2676.9	2335.7	2145.2	2055.3	2057.9
12.5°	5427.8	5274.4	4703.1	3875.1	3036.6	2370.1	1912.4	1743.2	1690.2	1671.7	1666.4
15°	5512.5	5282.4	4443.8	3351.4	2362.1	1790.8	1624.1	1621.5	1632.1	1626.8	1624.1
17.5°	5628.9	5290.3	4150.2	2795.9	1822.5	1579.2	1571.2	1595.0	1610.9	1603.0	1600.3
20°	5779.6	5322.0	3838.1	2245.7	1565.9	1526.2	1544.8	1565.9	1579.2	1565.9	1563.3
22.5°	5991.3	5377.6	3496.9	1804.0	1483.9	1494.5	1510.4	1534.2	1547.4	1528.9	1526.2
25°	6250.5	5464.9	3161.0	1568.6	1444.3	1457.5	1481.3	1507.7	1523.6	1505.1	1502.4
27.5°	6586.4	5605.1	2851.5	1515.7	1404.6	1412.5	1446.9	1486.6	1507.7	1483.9	1483.9
30°	7073.1	5835.2	2584.3	1539.5	1380.8	1362.3	1409.9	1465.4	1489.2	1468.1	1465.4
32.5°	7718.5	6160.5	2420.3	1576.5	1370.2	1304.1	1349.0	1420.4	1460.1	1446.9	1446.9
35°	8565.0	6655.2	2356.8	1618.8	1362.3	1243.2	1275.0	1351.7	1420.4	1433.7	1433.7
37.5°	9591.3	7342.9	2375.3	1637.3	1338.4	1193.0	1208.8	1275.0	1364.9	1407.2	1417.8
40°	10757.8	8144.4	2481.1	1618.8	1312.0	1150.6	1153.3	1203.5	1282.9	1346.4	1367.5
42.5°	11961.4	9080.8	2676.9	1550.1	1288.2	1113.6	1105.7	1140.1	1193.0	1237.9	1256.4
45°	13106.7	10043.6	2870.0	1454.8	1259.1	1076.6	1058.1	1071.3	1081.9	1100.4	1111.0
47.5°	14106.6	10720.8	2814.4	1367.5	1219.4	1034.3	1002.5	997.2	965.5	962.8	960.2
50°	14797.0	10868.9	2499.7	1280.3	1161.2	986.6	936.4	904.6	849.1	822.6	825.3
52.5°	15016.5	10284.3	2042.1	1193.0	1066.0	923.2	851.7	801.5	732.7	708.9	706.3
55°	14725.5	9139.0	1632.1	1087.2	933.7	838.5	759.2	693.0	637.5	608.4	608.4
57.5°	14014.0	7681.5	1290.8	962.8	793.5	743.3	663.9	597.8	550.2	521.1	515.8
60°	12834.3	6099.7	1021.0	814.7	677.2	640.1	558.1	515.8	473.5	439.1	431.2
62.5°	11043.5	4353.9	801.5	645.4	566.1	523.7	476.1	444.4	394.1	346.5	338.6
65°	8617.9	2663.7	619.0	473.5	455.0	433.8	404.7	375.6	314.8	267.2	259.2
67.5°	5435.8	1261.7	441.7	357.1	359.7	349.2	335.9	312.1	267.2	224.8	219.5
70°	2393.9	611.0	291.0	272.5	267.2	267.2	277.7	269.8	227.5	187.8	179.9
72.5°	814.7	328.0	216.9	206.3	193.1	190.5	232.8	224.8	182.5	145.5	137.5
75°	425.9	219.5	158.7	148.1	116.4	140.2	185.2	174.6	129.6	95.2	87.3
77.5°	277.7	156.1	108.5	95.2	66.1	92.6	137.5	121.7	76.7	47.6	42.3
80°	174.6	103.2	63.5	45.0	31.7	50.3	74.1	52.9	29.1	10.6	7.9
82.5°	92.6	52.9	23.8	15.9	13.2	15.9	18.5	13.2	5.3	0.0	0.0
85°	37.0	18.5	7.9	5.3	2.6	0.0	5.3	2.6	0.0	0.0	0.0
87.5°	13.2	2.6	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)