

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: P943308

Luminaire Tested: **GALN-SB7D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943308
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-SB7D-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 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: 45264 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 512.8
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



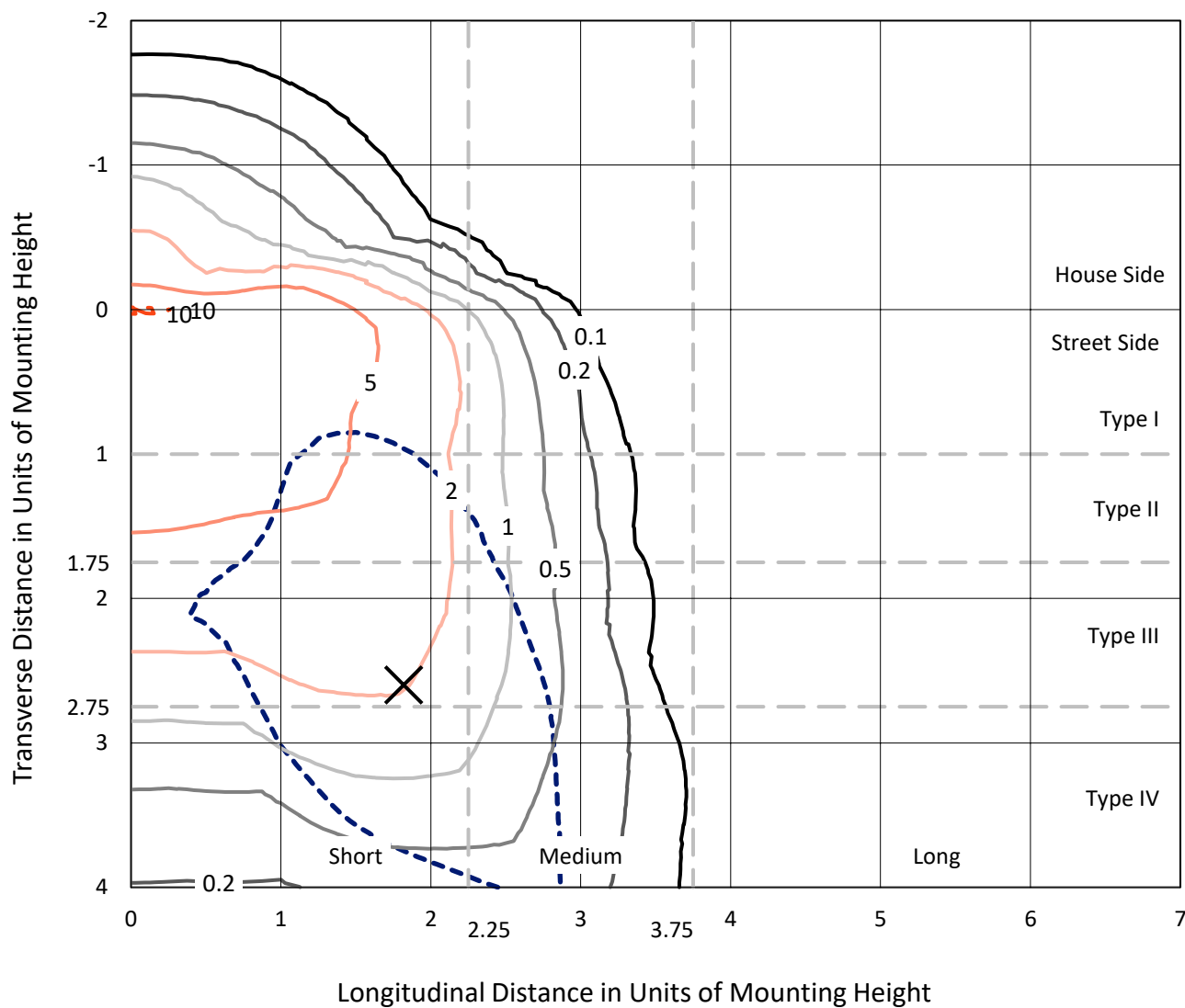
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

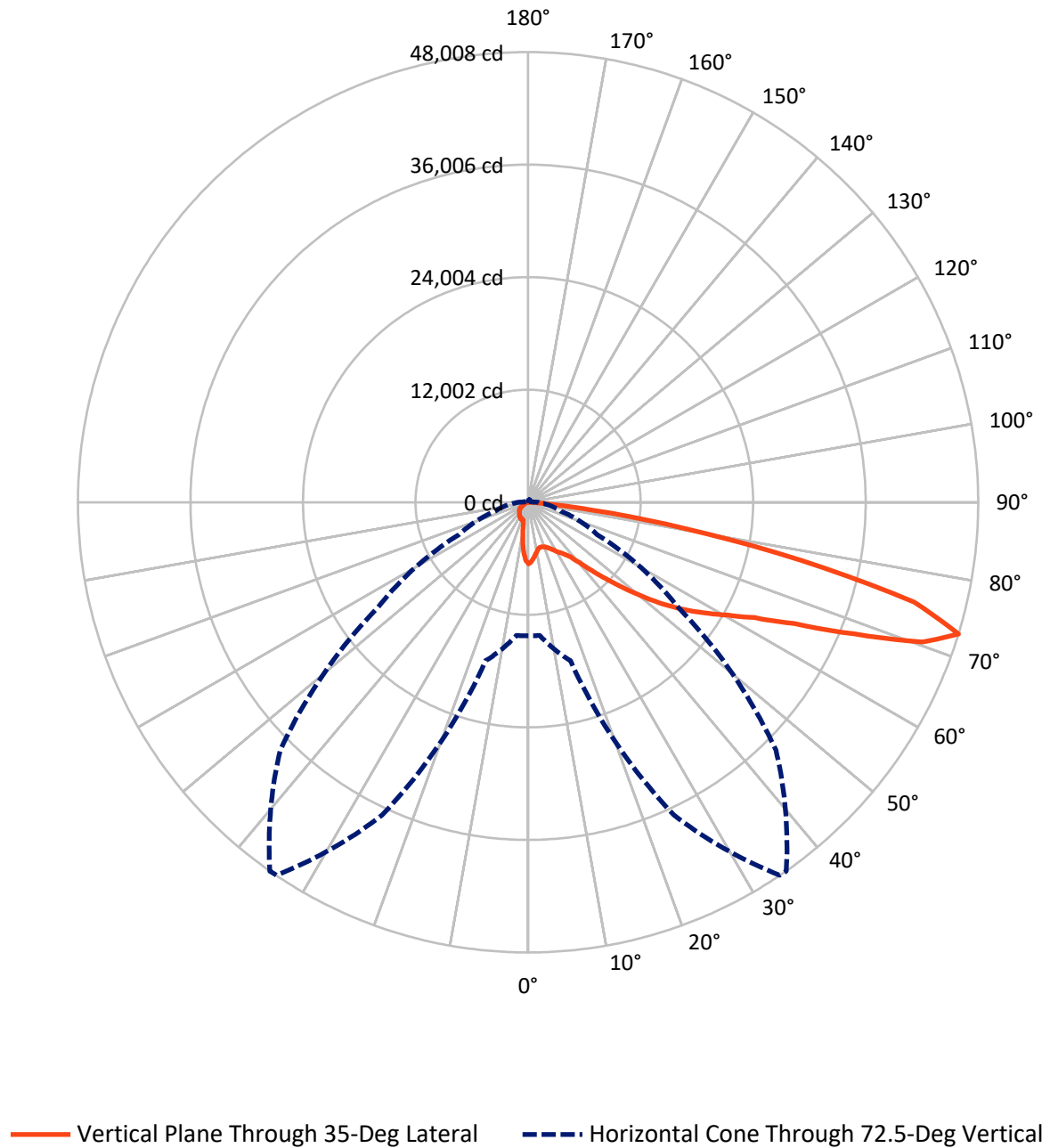
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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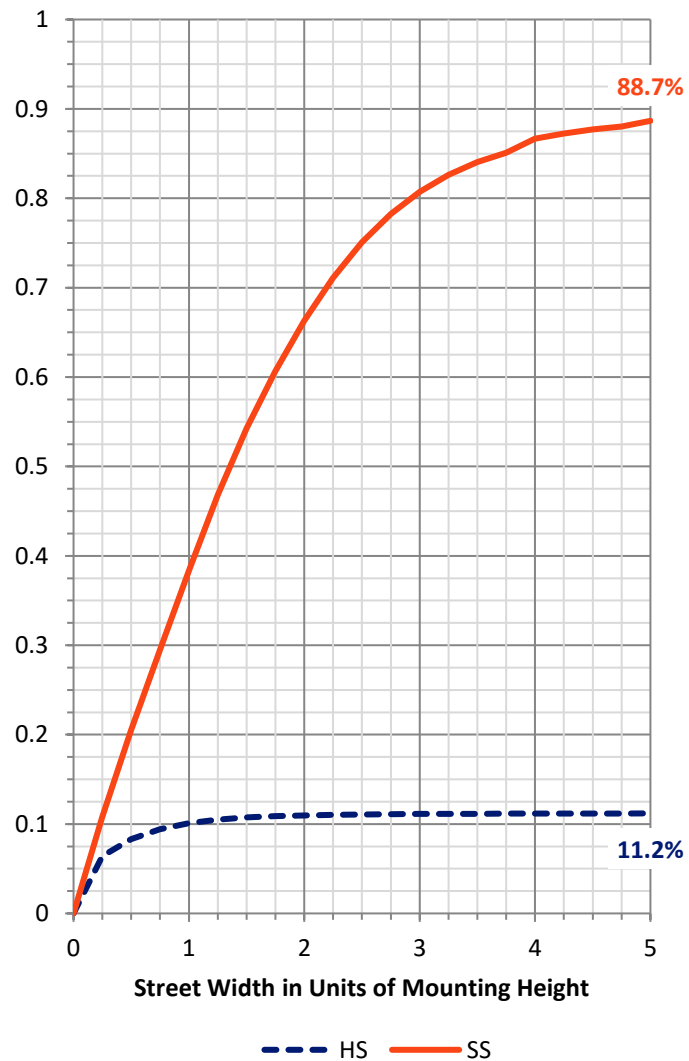
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5094.3	0.0	5094.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	40169.7	0.0	40169.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	45264.0	0.0	45264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.1	1.2
10°-20°	1261.1	2.8
20°-30°	2048.6	4.5
30°-40°	3418.1	7.6
40°-50°	6467.2	14.3
50°-60°	10276.4	22.7
60°-70°	12712.6	28.1
70°-80°	7902.2	17.5
80°-90°	638.6	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°	45264.0	100.0
0°-180°	45264.0	100.0

Coefficient of Utilization



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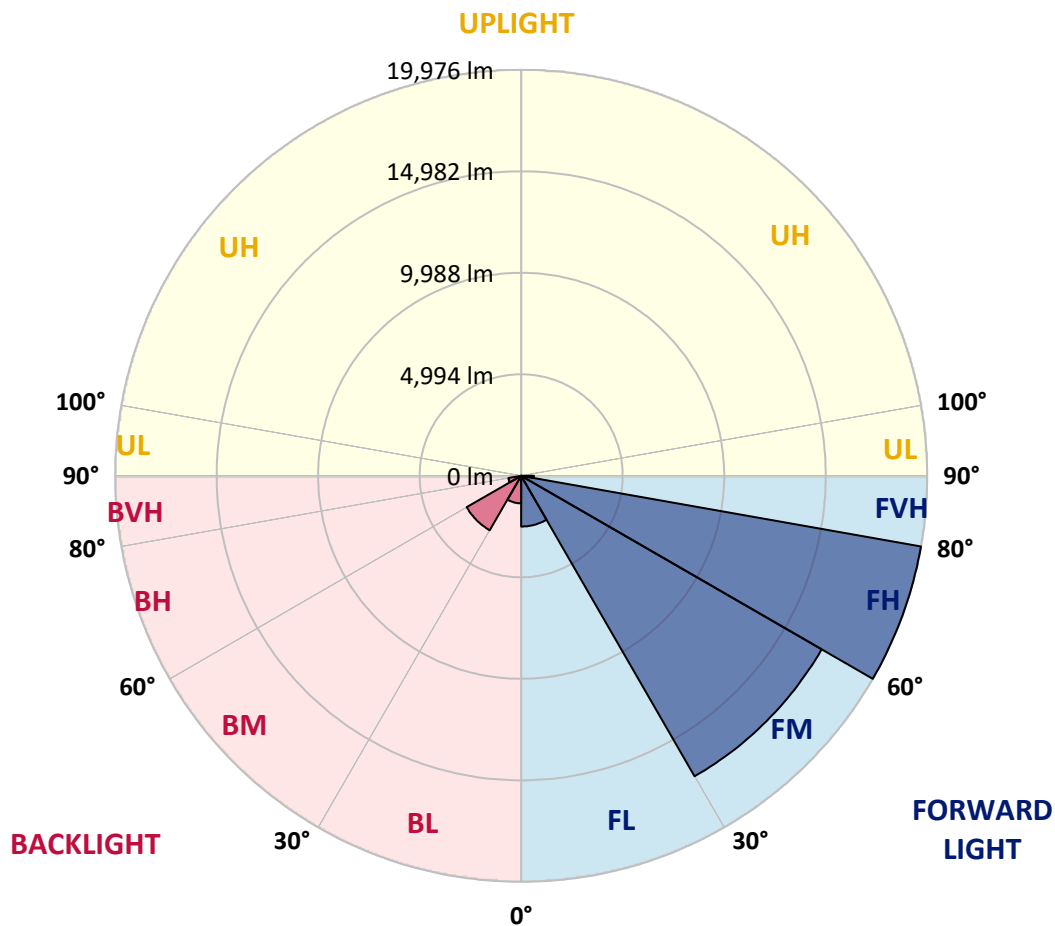
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2495.2	5.5			
FM	(30°-60°)	17069.0	37.7			
FH	(60°-80°)	19975.6	44.1			G5
FVH	(80°-90°)	629.9	1.4			G4/750
BL	(0°-30°)	1353.6	3.0	B3/2500		
BM	(30°-60°)	3092.7	6.8	B3/5000		
BH	(60°-80°)	639.3	1.4	B2/1000		G2/1000
BVH	(80°-90°)	8.7	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°	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3
2.5°	6268.4	6321.5	6331.4	6348.0	6348.0	6367.9	6401.1	6447.5	6523.8	6563.6	6590.1
5°	5777.5	5817.3	5867.1	5906.9	5983.2	5993.1	6122.5	6248.5	6424.3	6557.0	6649.8
7.5°	5283.4	5329.8	5396.1	5492.3	5591.8	5621.7	5817.3	6029.6	6308.2	6557.0	6712.8
10°	4935.1	4938.4	4998.1	5094.3	5253.5	5290.0	5528.8	5830.6	6178.9	6517.2	6772.5
12.5°	4739.4	4762.7	4789.2	4862.2	5014.7	5037.9	5293.3	5648.2	6049.5	6493.9	6842.2
15°	4739.4	4756.0	4772.6	4809.1	4931.8	4951.7	5177.2	5532.1	5983.2	6503.9	6954.9
17.5°	4789.2	4815.7	4802.5	4845.6	4974.9	4988.2	5187.2	5499.0	5979.9	6566.9	7127.4
20°	4908.6	4928.5	4902.0	4928.5	5057.8	5084.4	5290.0	5562.0	6036.2	6676.4	7343.0
22.5°	5097.6	5107.6	5044.6	5064.5	5197.1	5230.3	5469.1	5741.1	6172.2	6852.1	7631.5
25°	5336.4	5356.3	5260.2	5283.4	5409.4	5449.2	5724.5	6009.7	6387.8	7094.2	7999.7
27.5°	5611.7	5621.7	5538.8	5535.4	5698.0	5754.3	6032.9	6341.4	6676.4	7399.4	8464.0
30°	5926.8	5956.6	5877.0	5863.8	6069.4	6115.8	6391.1	6749.3	7100.9	7857.1	9124.0
32.5°	6175.5	6198.8	6152.3	6185.5	6394.4	6430.9	6825.6	7326.4	7767.5	8507.1	10022.8
35°	6533.7	6547.0	6440.9	6500.6	6739.4	6832.2	7419.3	8135.7	8606.6	9323.0	11196.9
37.5°	7830.5	7830.5	7379.5	7084.3	7313.1	7396.1	8231.8	9153.9	9641.4	10417.5	12676.1
40°	9624.8	9595.0	8935.0	8331.3	8301.5	8464.0	9389.3	10437.4	10978.0	11730.9	14341.1
42.5°	11538.5	11492.1	10593.3	9996.3	9896.8	9953.2	10725.9	12019.4	12570.0	13332.8	16132.0
45°	13236.6	13223.4	12400.8	11598.2	11419.1	11598.2	12394.2	13870.1	14264.8	15067.4	17919.7
47.5°	14659.5	14659.5	14059.1	13535.1	13442.3	13548.4	14652.8	15923.1	15886.6	16914.8	19660.9
50°	16297.9	16284.6	15714.1	15488.6	15584.8	15734.0	17253.0	18085.5	17564.8	18728.9	21216.4
52.5°	17445.4	17525.0	17329.3	17292.8	17783.7	18042.4	19893.1	20201.5	19067.2	20450.3	22380.5
55°	18354.2	18447.0	18672.6	18927.9	19873.2	20211.5	22450.2	22208.1	20324.2	21942.7	23050.5
57.5°	19641.0	19508.3	19856.6	20360.7	21889.7	22297.6	24927.7	24101.9	21335.8	23153.3	23123.5
60°	21203.1	21223.0	21282.7	21919.5	23902.9	24426.9	27368.7	25892.8	21985.9	23896.2	22314.2
62.5°	23080.3	23110.2	23232.9	24211.3	26605.9	27100.1	29969.0	27358.8	22284.4	23687.3	20224.7
65°	22951.0	23077.0	24446.8	27793.3	30715.2	31202.7	33003.7	28386.9	21833.3	21776.9	16467.0
67.5°	20908.0	21113.6	23405.4	32071.7	36910.6	37454.6	36671.8	28589.3	19886.4	16934.7	10742.5
70°	18228.1	18301.1	21057.2	35919.0	44084.5	44635.1	39955.3	26363.8	15090.6	9445.7	4812.4
72.5°	14234.9	14251.5	17485.2	36811.1	47978.2	48008.1	37378.3	19571.4	8115.8	3628.4	1671.6
75°	10168.8	10069.3	11711.0	29852.9	42210.6	42548.9	28022.1	9180.4	3101.0	1714.7	832.5
77.5°	5452.5	5562.0	6626.6	17704.1	29159.7	29736.8	15289.6	2646.7	1578.7	1167.4	550.6
80°	1684.8	1777.7	2716.3	8105.8	16516.8	16865.0	5668.1	1177.4	1101.1	832.5	361.5
82.5°	530.7	550.6	1266.9	3406.2	6855.5	7014.6	1641.7	666.6	752.9	550.6	212.3
85°	152.6	155.9	563.8	1270.3	1694.8	1728.0	461.0	258.7	431.2	341.6	109.4
87.5°	16.6	53.1	212.3	212.3	149.2	145.9	49.7	56.4	122.7	43.1	19.9
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°	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3	6560.3
2.5°	6573.5	6576.9	6533.7	6460.8	6381.2	6314.8	6231.9	6165.6	6119.2	6105.9	6129.1
5°	6620.0	6596.8	6474.0	6251.8	5986.5	5757.6	5502.3	5300.0	5167.3	5110.9	5130.8
7.5°	6689.6	6623.3	6354.6	5916.8	5409.4	4958.3	4500.7	4145.8	3920.2	3807.5	3824.1
10°	6749.3	6616.7	6155.6	5432.6	4656.5	3973.3	3356.4	2928.6	2689.8	2577.0	2580.3
12.5°	6805.7	6613.3	5896.9	4858.8	3807.5	2971.7	2397.9	2185.7	2119.3	2096.1	2089.5
15°	6911.8	6623.3	5571.9	4202.2	2961.7	2245.4	2036.4	2033.1	2046.4	2039.7	2036.4
17.5°	7057.8	6633.2	5203.8	3505.7	2285.2	1980.0	1970.1	1999.9	2019.8	2009.9	2006.6
20°	7246.8	6673.0	4812.4	2815.8	1963.4	1913.7	1936.9	1963.4	1980.0	1963.4	1960.1
22.5°	7512.1	6742.7	4384.6	2261.9	1860.6	1873.9	1893.8	1923.6	1940.2	1917.0	1913.7
25°	7837.2	6852.1	3963.4	1966.8	1810.9	1827.5	1857.3	1890.5	1910.4	1887.2	1883.8
27.5°	8258.4	7027.9	3575.3	1900.4	1761.1	1771.1	1814.2	1863.9	1890.5	1860.6	1860.6
30°	8868.6	7316.5	3240.3	1930.3	1731.3	1708.1	1767.8	1837.4	1867.3	1840.7	1837.4
32.5°	9677.9	7724.4	3034.7	1976.7	1718.0	1635.1	1691.5	1781.0	1830.8	1814.2	1814.2
35°	10739.2	8344.6	2955.1	2029.8	1708.1	1558.8	1598.6	1694.8	1781.0	1797.6	1797.6
37.5°	12026.1	9206.9	2978.3	2053.0	1678.2	1495.8	1515.7	1598.6	1711.4	1764.4	1777.7
40°	13488.7	10211.9	3111.0	2029.8	1645.0	1442.7	1446.0	1509.1	1608.6	1688.2	1714.7
42.5°	14997.7	11386.0	3356.4	1943.5	1615.2	1396.3	1386.3	1429.5	1495.8	1552.2	1575.4
45°	16433.8	12593.2	3598.5	1824.1	1578.7	1349.9	1326.6	1343.2	1356.5	1379.7	1393.0
47.5°	17687.5	13442.3	3528.9	1714.7	1529.0	1296.8	1257.0	1250.4	1210.6	1207.2	1203.9
50°	18553.2	13628.0	3134.2	1605.2	1456.0	1237.1	1174.1	1134.3	1064.6	1031.5	1034.8
52.5°	18828.4	12895.0	2560.4	1495.8	1336.6	1157.5	1068.0	1004.9	918.7	888.9	885.5
55°	18463.6	11458.9	2046.4	1363.1	1170.8	1051.4	951.9	869.0	799.3	762.8	762.8
57.5°	17571.4	9631.5	1618.5	1207.2	995.0	932.0	832.5	749.6	689.9	653.4	646.7
60°	16092.2	7648.1	1280.2	1021.5	849.1	802.6	699.8	646.7	593.7	550.6	540.6
62.5°	13846.9	5459.2	1004.9	809.3	709.8	656.7	597.0	557.2	494.2	434.5	424.5
65°	10805.5	3339.8	776.1	593.7	570.5	543.9	507.4	471.0	394.7	335.0	325.0
67.5°	6815.7	1582.0	553.9	447.7	451.1	437.8	421.2	391.4	335.0	281.9	275.3
70°	3001.5	766.1	364.8	341.6	335.0	335.0	348.2	338.3	285.2	235.5	225.5
72.5°	1021.5	411.3	272.0	258.7	242.1	238.8	291.9	281.9	228.8	182.4	172.5
75°	534.0	275.3	199.0	185.7	145.9	175.8	232.2	218.9	162.5	119.4	109.4
77.5°	348.2	195.7	136.0	119.4	82.9	116.1	172.5	152.6	96.2	59.7	53.1
80°	218.9	129.3	79.6	56.4	39.8	63.0	92.9	66.3	36.5	13.3	9.9
82.5°	116.1	66.3	29.8	19.9	16.6	19.9	23.2	16.6	6.6	0.0	0.0
85°	46.4	23.2	9.9	6.6	3.3	0.0	6.6	3.3	0.0	0.0	0.0
87.5°	16.6	3.3	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)