

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: P456422

Luminaire Tested: **GALN-SA7C-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38826 lumens
Efficiency: N/A
Efficacy: 103.0 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): 377
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

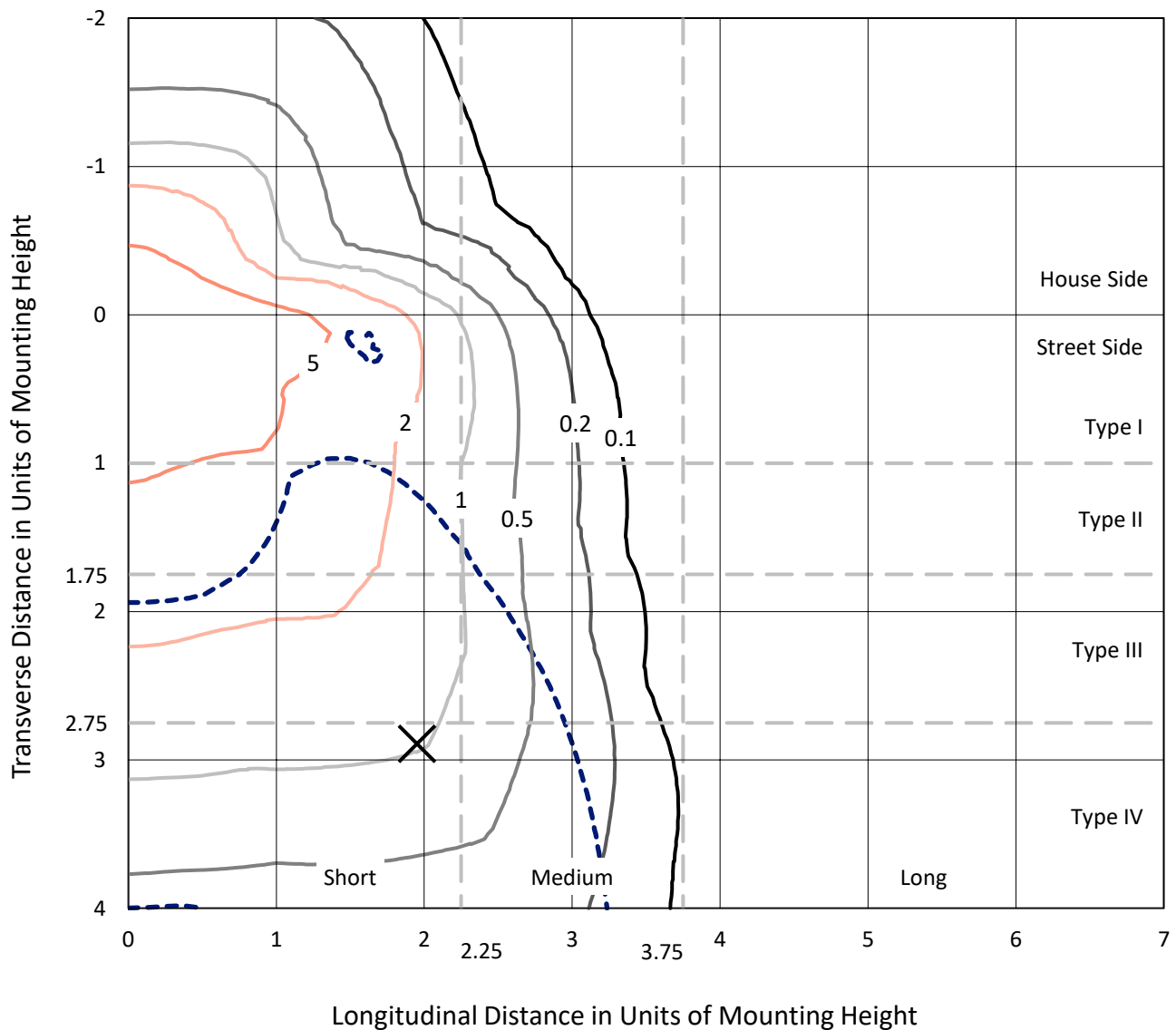


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

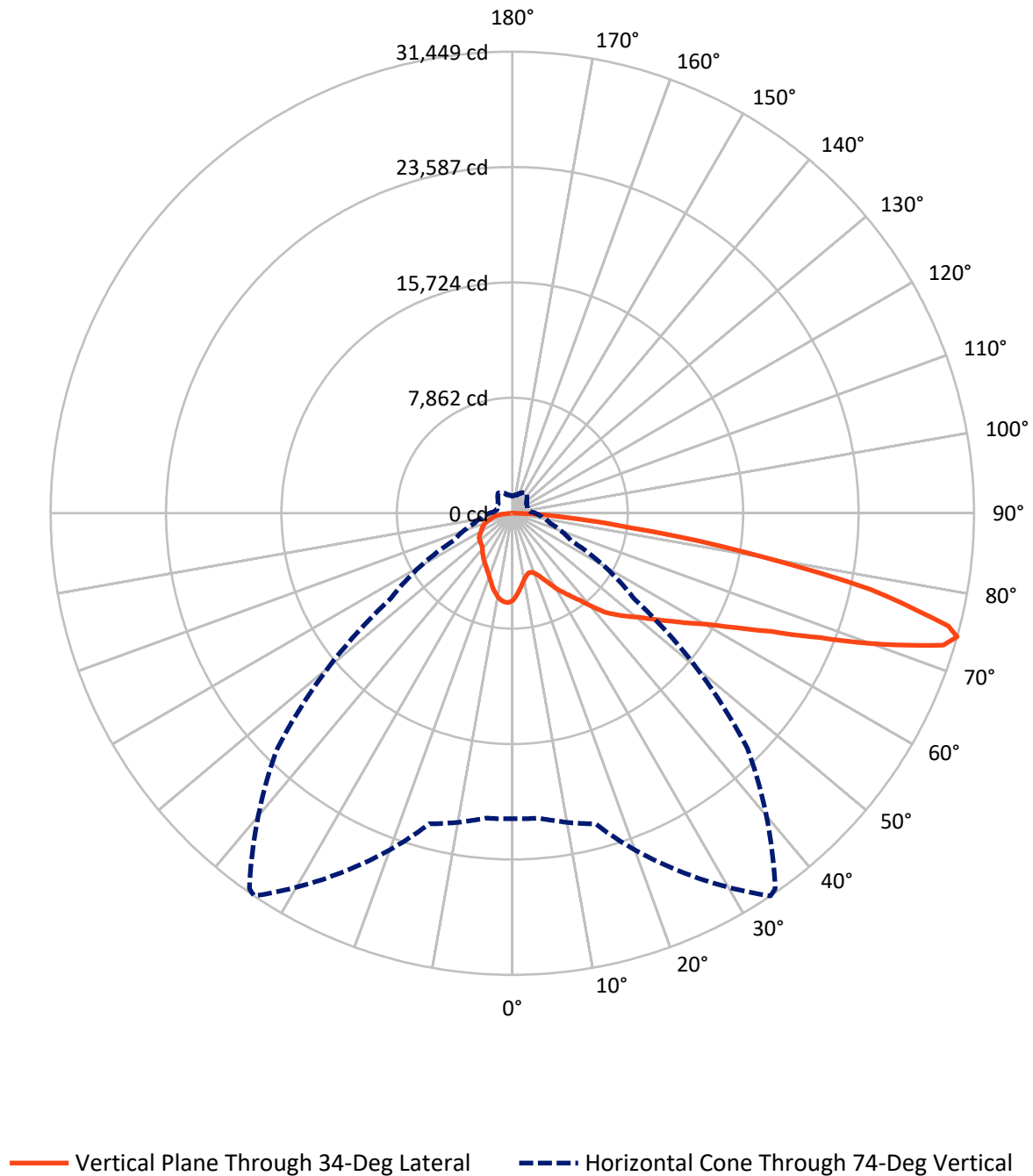


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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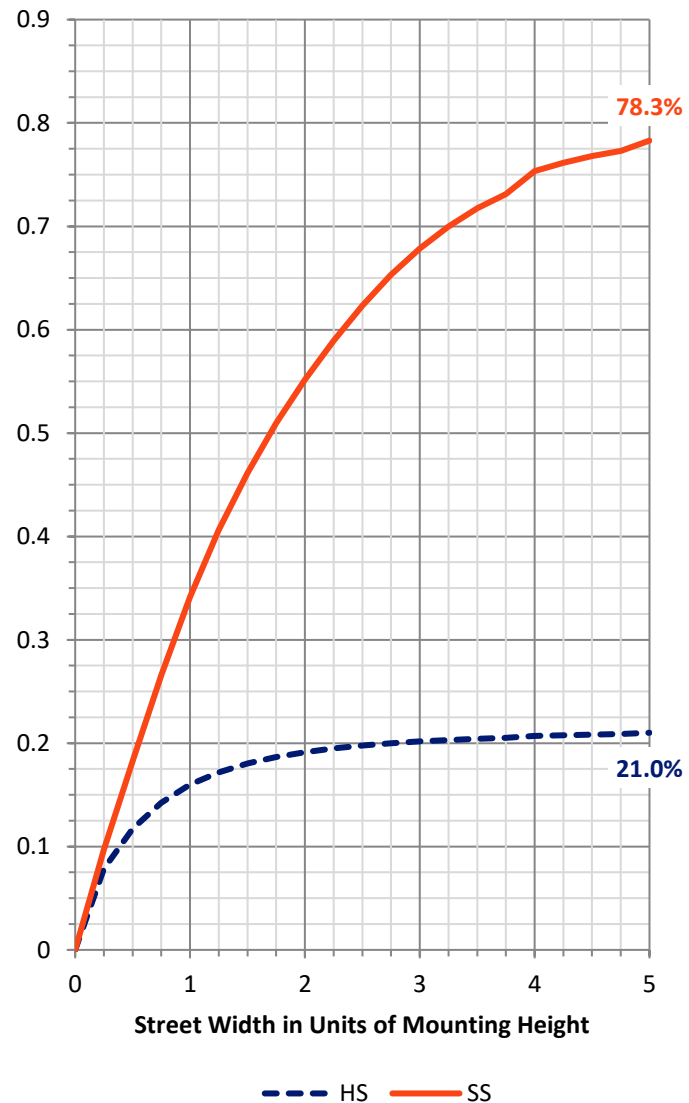
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8262.5	0.0	8262.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	30563.6	0.0	30563.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	38826.0	0.0	38826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.1	1.4
10°-20°	1475.8	3.8
20°-30°	2433.3	6.3
30°-40°	3644.7	9.4
40°-50°	5298.5	13.6
50°-60°	7400.7	19.1
60°-70°	9265.3	23.9
70°-80°	7661.6	19.7
80°-90°	1107.0	2.9
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°	38826.0	100.0
0°-180°	38826.0	100.0

Coefficient of Utilization



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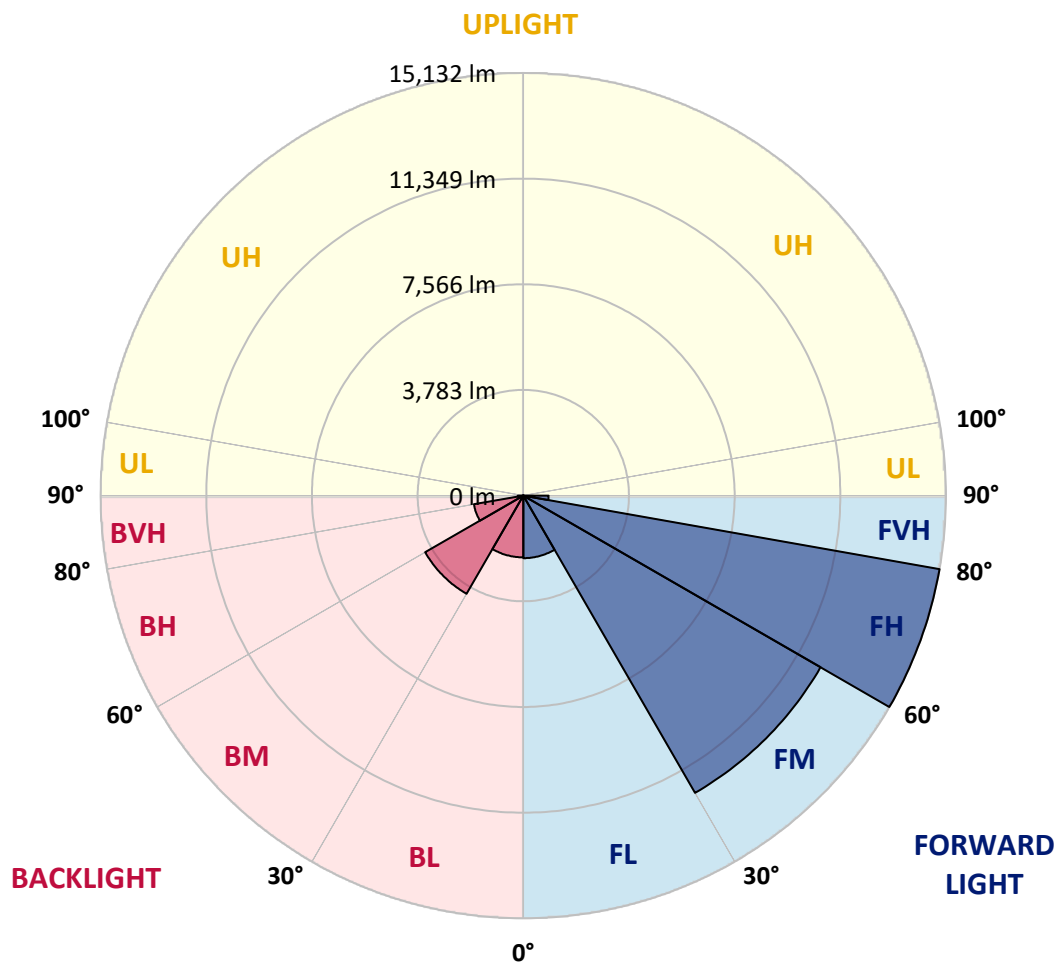
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2238.1	5.8			
FM	(30°-60°)	12286.2	31.6			
FH	(60°-80°)	15132.3	39.0			G5
FVH	(80°-90°)	906.9	2.3			G5
BL	(0°-30°)	2210.1	5.7	B3/2500		
BM	(30°-60°)	4057.7	10.5	B3/5000		
BH	(60°-80°)	1794.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	200.1	0.5			G2/225
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°	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0
2.5°	5478.4	5506.4	5521.4	5575.2	5588.1	5605.3	5650.5	5710.7	5788.2	5857.0	5917.2
5°	5022.4	5065.4	5091.3	5138.6	5231.1	5239.7	5360.1	5497.8	5654.8	5801.1	5921.5
7.5°	4590.1	4637.4	4658.9	4745.0	4867.6	4886.9	5063.3	5280.5	5542.9	5764.5	5949.5
10°	4265.3	4289.0	4336.3	4400.8	4547.1	4560.0	4790.1	5080.5	5420.3	5747.3	5996.8
12.5°	4088.9	4101.8	4112.6	4181.4	4325.5	4344.9	4585.8	4914.9	5323.6	5760.2	6074.2
15°	4114.7	4119.0	4071.7	4084.6	4200.8	4228.7	4467.5	4805.2	5263.3	5792.5	6190.4
17.5°	4332.0	4316.9	4200.8	4140.5	4222.3	4235.2	4443.8	4762.2	5235.4	5852.7	6310.8
20°	4674.0	4652.5	4452.4	4319.1	4366.4	4377.1	4521.3	4794.4	5263.3	5951.6	6498.0
22.5°	5099.9	5091.3	4788.0	4626.6	4624.5	4624.5	4699.8	4910.6	5347.2	6087.1	6693.7
25°	5695.7	5650.5	5254.7	5046.1	4988.0	4983.7	4975.1	5102.0	5454.8	6231.2	6926.0
27.5°	6306.5	6229.1	5876.3	5555.9	5431.1	5416.0	5360.1	5373.0	5592.4	6394.7	7190.6
30°	6855.0	6805.5	6474.3	6119.4	5971.0	5936.6	5781.7	5710.7	5822.6	6689.4	7612.1
32.5°	7274.4	7244.3	6986.2	6663.6	6444.2	6437.7	6211.9	6153.8	6181.8	7046.4	8093.9
35°	7614.3	7625.0	7493.8	7214.2	6962.6	6926.0	6775.4	6702.3	6620.6	7562.7	8700.5
37.5°	8078.9	8102.6	8093.9	7853.0	7545.5	7554.1	7519.7	7399.2	7182.0	8139.1	9373.8
40°	8590.8	8608.0	8605.9	8513.4	8352.1	8360.7	8347.8	8210.1	7885.3	8872.6	10122.3
42.5°	9298.5	9216.7	9003.8	9096.3	9190.9	9231.8	9320.0	9188.8	8743.5	9655.5	10825.6
45°	10090.0	9935.1	9453.3	9496.4	9847.0	9924.4	10410.5	10229.8	9674.9	10554.6	11653.7
47.5°	10589.0	10436.3	10029.8	10021.2	10485.8	10561.1	11421.4	11354.8	10522.3	11524.7	12664.7
50°	11034.3	11012.8	10554.6	10664.3	11118.2	11230.0	12522.7	12460.3	11367.7	12669.0	13766.0
52.5°	11694.6	11520.4	11154.7	11380.6	11980.7	12126.9	13615.4	13432.6	12144.1	13679.9	14835.0
55°	11991.4	11950.6	11929.1	12124.8	12948.6	13054.0	14677.9	14258.5	12806.6	14536.0	15648.0
57.5°	12785.1	12709.8	12922.8	13056.1	14088.6	14249.9	15787.8	15121.0	13387.4	15215.7	16043.8
60°	13813.3	13772.4	13968.1	14209.0	15361.9	15607.1	17052.6	15856.7	13854.1	15557.7	15826.5
62.5°	15349.0	15344.7	15308.2	15824.4	17166.6	17392.4	18504.4	16572.9	13927.3	15301.7	14703.8
65°	17551.6	17474.2	17155.8	17719.4	19412.1	19676.7	20016.6	16973.0	13486.3	13987.5	12380.8
67.5°	19855.2	19850.9	19592.8	20324.1	22636.4	22909.6	21907.2	16884.8	12262.5	11331.1	8793.0
70°	21765.3	21672.8	22001.9	23950.6	26755.4	27071.6	23561.3	15845.9	9767.4	7483.1	5224.6
72.5°	22223.4	22227.7	22911.7	26746.8	30711.0	30760.4	24157.1	12843.2	6536.7	4127.6	2613.4
74°	20812.4	20849.0	21909.4	26886.6	31448.7	31225.0	22634.2	10094.3	4420.2	2695.1	1884.2
75°	18997.0	18766.9	20300.5	25955.3	30683.0	30442.1	20851.1	8100.4	3372.7	2153.1	1649.8
77.5°	10156.7	10391.1	12757.2	19369.1	24927.1	24649.7	14138.1	3884.6	1821.8	1499.2	1187.3
80°	3615.7	3987.8	5605.3	10135.2	15981.4	16067.4	6747.5	1781.0	1282.0	1105.6	838.9
82.5°	1475.5	1516.4	2406.9	4497.6	8115.5	8192.9	2755.3	1058.3	916.3	761.4	501.2
85°	576.4	593.7	1064.7	2021.9	3463.0	3688.8	952.9	559.2	563.5	436.6	256.0
87.5°	193.6	219.4	436.6	673.2	1176.6	1152.9	277.5	165.6	202.2	189.3	79.6
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°	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0	5928.0
2.5°	5947.3	5988.2	6016.2	6046.3	6074.2	6082.8	6076.4	6095.7	6097.9	6100.0	6102.2
5°	5981.7	6037.7	6091.4	6121.5	6134.5	6123.7	6087.1	6067.8	6050.6	6037.7	6042.0
7.5°	6029.1	6108.6	6158.1	6171.0	6136.6	6087.1	5996.8	5925.8	5880.6	5850.5	5848.4
10°	6102.2	6179.6	6220.5	6183.9	6089.3	5968.8	5826.9	5693.5	5592.4	5562.3	5560.2
12.5°	6194.7	6282.9	6280.7	6173.2	6007.5	5792.5	5562.3	5407.4	5269.8	5200.9	5228.9
15°	6315.1	6381.8	6319.4	6125.8	5863.4	5568.8	5284.8	5074.0	4919.2	4846.0	4850.3
17.5°	6454.9	6513.0	6347.4	6042.0	5661.2	5282.7	4953.6	4753.6	4631.0	4577.2	4572.9
20°	6629.2	6646.4	6347.4	5895.7	5401.0	4949.3	4635.3	4495.4	4426.6	4398.7	4407.3
22.5°	6816.3	6781.9	6313.0	5689.2	5059.0	4600.8	4390.0	4327.7	4293.3	4289.0	4293.3
25°	7027.1	6930.3	6242.0	5409.6	4701.9	4299.7	4177.1	4187.9	4194.3	4194.3	4209.4
27.5°	7285.2	7091.6	6123.7	5056.8	4284.7	4020.1	3985.7	4061.0	4095.4	4101.8	4112.6
30°	7625.0	7268.0	5928.0	4615.9	3929.7	3768.4	3828.7	3929.7	3968.5	3992.1	3987.8
32.5°	8029.4	7461.6	5663.4	4175.0	3643.7	3592.1	3665.2	3768.4	3811.4	3824.4	3807.1
35°	8504.8	7681.0	5314.9	3762.0	3394.2	3424.3	3510.3	3542.6	3581.3	3581.3	3589.9
37.5°	9016.7	7857.3	4889.1	3383.4	3200.6	3310.3	3372.7	3342.5	3325.3	3303.8	3314.6
40°	9537.2	7988.6	4336.3	3009.2	3007.0	3192.0	3209.2	3123.1	3054.3	3032.8	3022.1
42.5°	9991.1	8070.3	3837.3	2718.8	2824.2	3075.8	3088.7	2951.1	2841.4	2776.9	2755.3
45°	10526.7	8164.9	3349.0	2477.9	2654.2	2983.3	3015.6	2830.6	2669.3	2533.8	2499.4
47.5°	11260.1	8380.0	2964.0	2290.7	2531.6	2925.3	2970.4	2731.7	2518.7	2342.4	2314.4
50°	12088.2	8674.7	2665.0	2163.8	2437.0	2873.6	2929.6	2630.6	2378.9	2183.2	2161.7
52.5°	12847.5	8833.9	2406.9	2049.8	2344.5	2779.0	2875.8	2557.5	2241.3	2024.0	2004.7
55°	13262.6	8575.8	2153.1	1938.0	2217.6	2656.4	2800.5	2456.4	2107.9	1940.1	1912.2
57.5°	13318.6	8042.3	1922.9	1817.5	2084.3	2505.8	2660.7	2333.8	2021.9	1882.1	1858.4
60°	12886.2	7246.5	1744.4	1718.6	1948.7	2335.9	2503.7	2226.2	1933.7	1817.5	1793.9
62.5°	11810.8	6381.8	1619.7	1628.3	1811.1	2157.4	2387.5	2123.0	1849.8	1746.6	1725.0
65°	9961.0	5267.6	1499.2	1535.8	1688.5	2017.6	2282.1	2036.9	1765.9	1692.8	1673.4
67.5°	6919.5	3802.8	1400.3	1439.0	1572.3	1875.6	2159.5	1944.4	1671.3	1632.6	1602.4
70°	3830.8	2340.2	1284.1	1329.3	1451.9	1716.4	2021.9	1804.6	1533.6	1516.4	1473.4
72.5°	2013.3	1490.6	1152.9	1202.4	1288.4	1512.1	1811.1	1651.9	1398.1	1325.0	1269.0
74°	1572.3	1221.7	1064.7	1116.3	1174.4	1391.7	1686.3	1542.2	1301.3	1215.3	1172.3
75°	1370.1	1088.4	989.4	1056.1	1107.7	1309.9	1589.5	1464.8	1247.5	1165.8	1127.1
77.5°	967.9	815.2	808.7	888.3	916.3	1148.6	1432.5	1333.6	1112.0	1026.0	989.4
80°	679.7	610.9	641.0	690.4	729.2	1015.2	1329.3	1152.9	912.0	810.9	798.0
82.5°	443.1	400.1	458.1	503.3	516.2	748.5	1073.3	875.4	664.6	539.9	501.2
85°	204.3	200.0	262.4	256.0	253.8	365.7	636.7	511.9	382.9	286.1	268.9
87.5°	51.6	49.5	64.5	53.8	64.5	55.9	58.1	15.1	2.2	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)