

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: P522882

Luminaire Tested: **GALN-SA8B-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36539 lumens
Efficiency: N/A
Efficacy: 112.4 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): 325
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

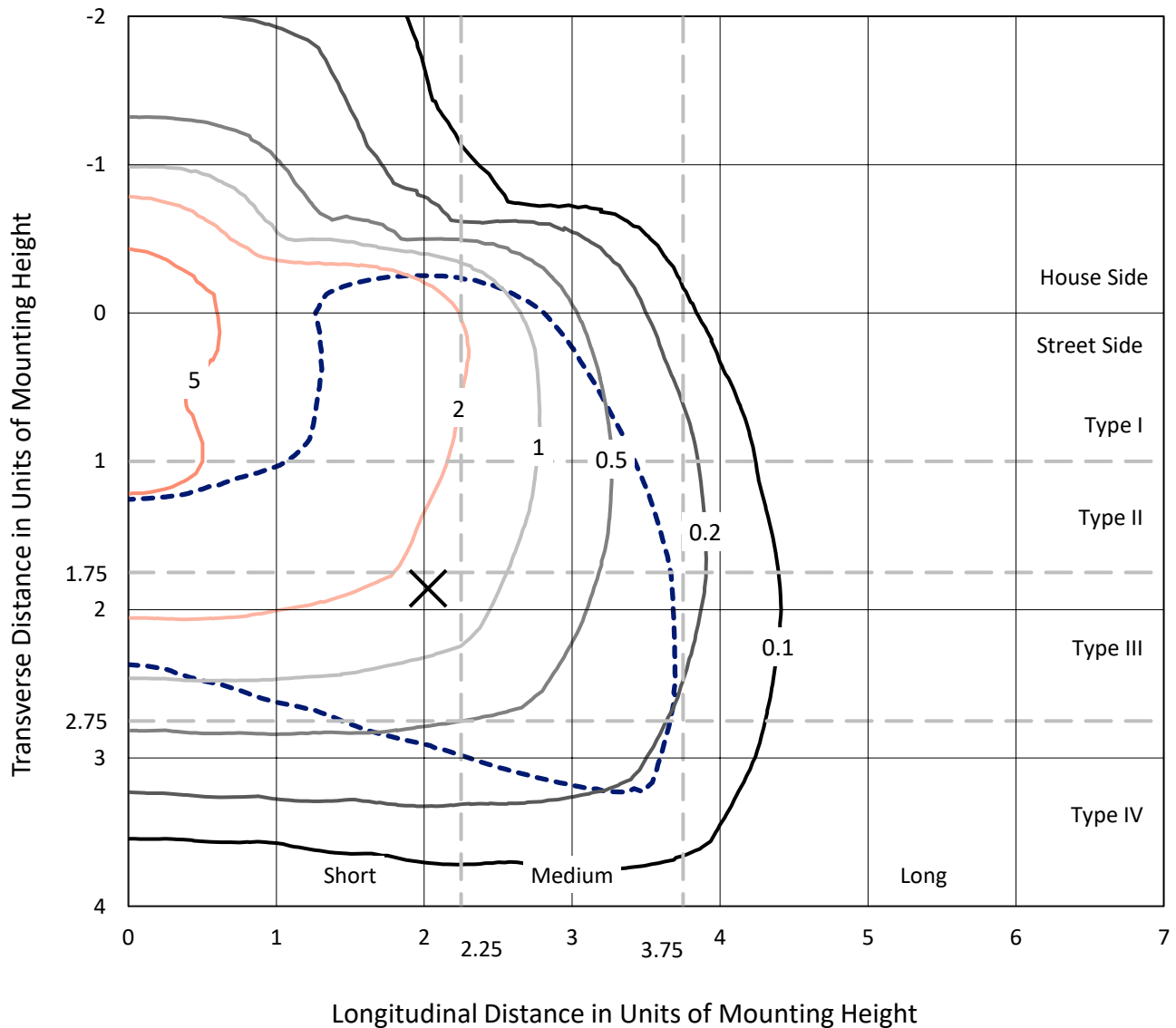


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

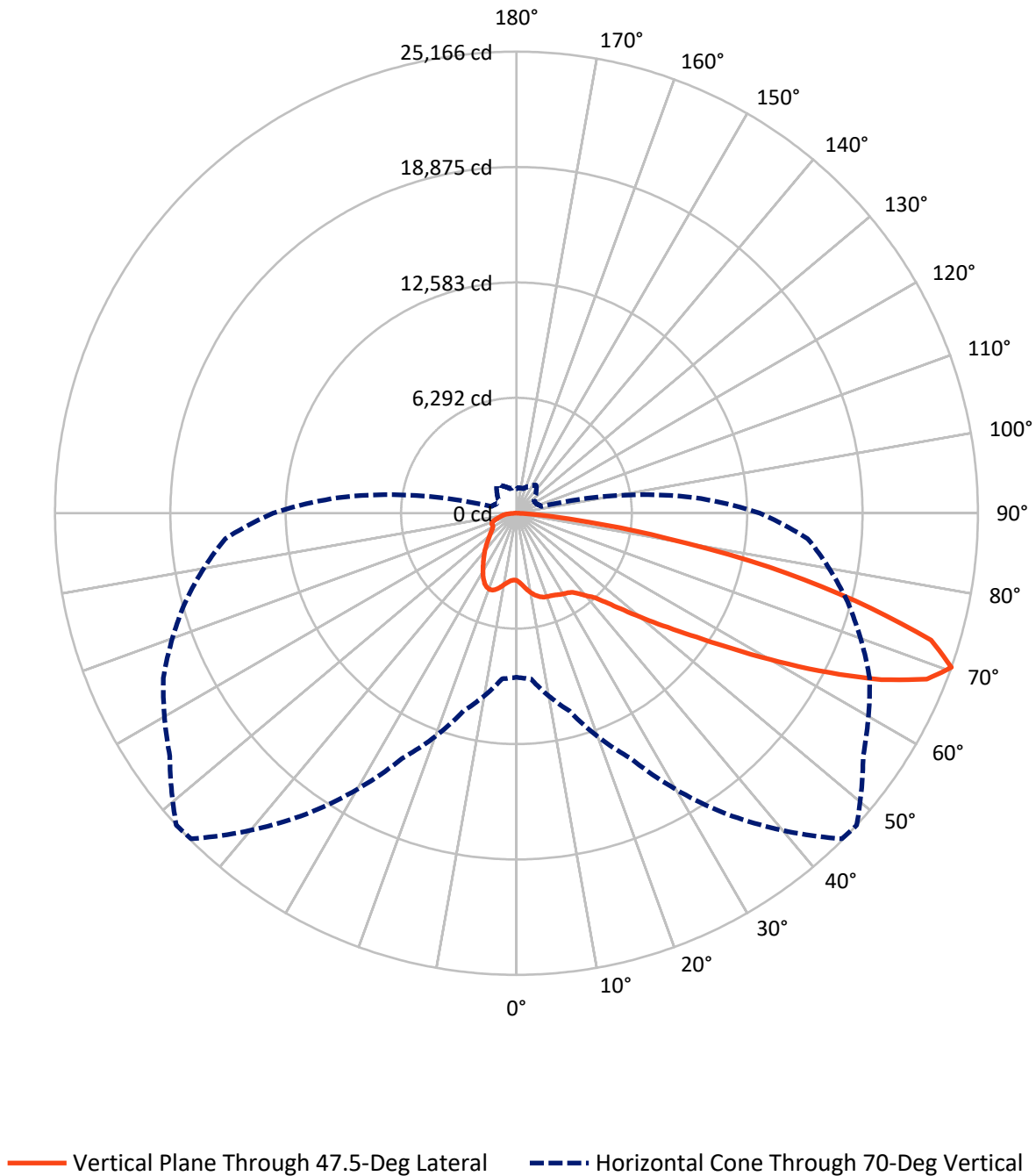


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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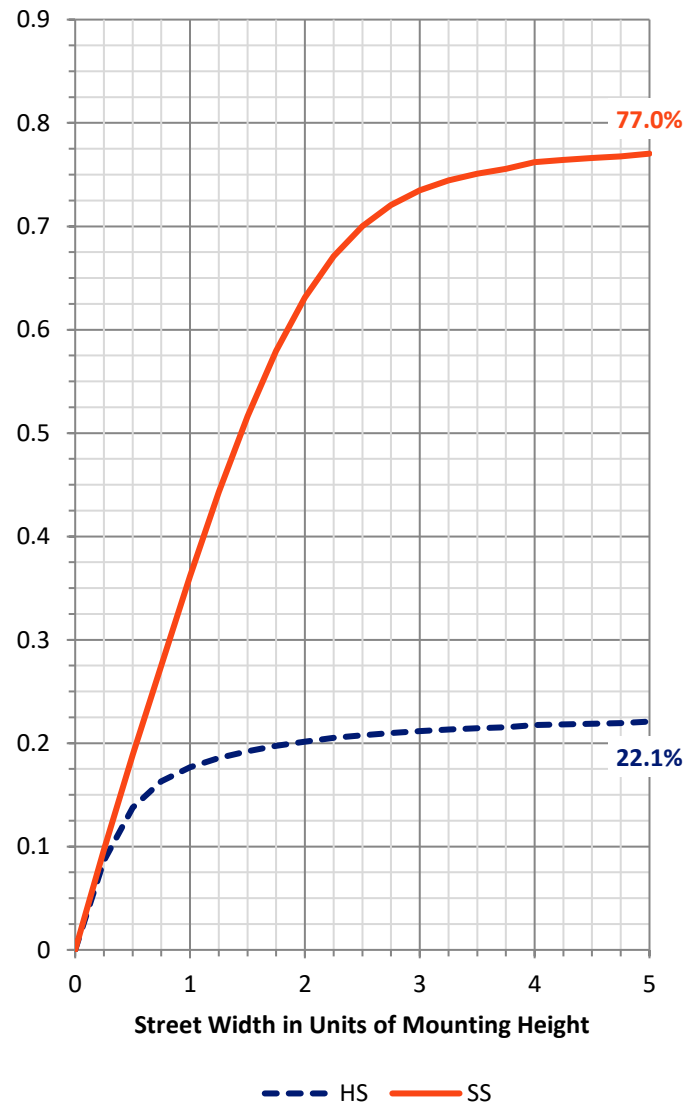
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8273.1	0.0	8273.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28265.9	0.0	28265.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	36539.0	0.0	36539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.1	1.0
10°-20°	1264.0	3.5
20°-30°	2102.1	5.8
30°-40°	2979.4	8.2
40°-50°	4398.2	12.0
50°-60°	7617.8	20.8
60°-70°	10760.4	29.4
70°-80°	6185.6	16.9
80°-90°	853.5	2.3
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°	36539.0	100.0
0°-180°	36539.0	100.0

Coefficient of Utilization



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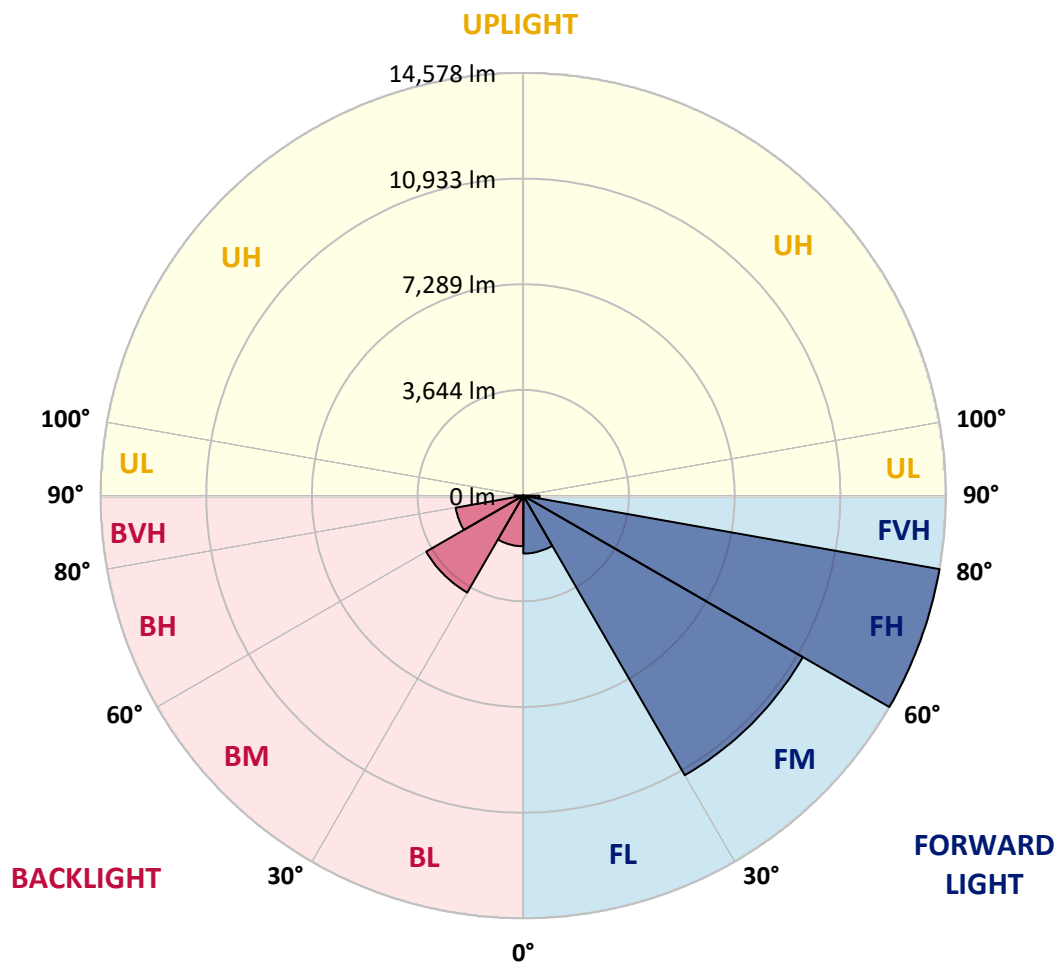
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1998.1	5.5			
FM	(30°-60°)	11132.7	30.5			
FH	(60°-80°)	14577.5	39.9			G5
FVH	(80°-90°)	557.5	1.5			G4/750
BL	(0°-30°)	1746.1	4.8	B3/2500		
BM	(30°-60°)	3862.6	10.6	B3/5000		
BH	(60°-80°)	2368.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	296.0	0.8			G3/500
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°	35°	45°	47.5°	55°	65°	75°	85°
0°	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1
2.5°	3904.7	3891.0	3889.0	3859.7	3844.0	3814.7	3803.0	3775.6	3742.4	3709.1	3677.9
5°	4211.6	4211.6	4198.0	4156.9	4092.4	4025.9	3996.6	3943.8	3849.9	3773.7	3709.1
7.5°	4526.4	4530.3	4503.0	4442.4	4350.5	4242.9	4215.5	4137.3	4004.4	3892.9	3797.1
10°	4798.2	4798.2	4761.1	4678.9	4563.6	4446.3	4418.9	4330.9	4182.3	4043.5	3918.3
12.5°	5005.5	5005.5	4956.6	4849.1	4723.9	4618.3	4587.1	4503.0	4364.2	4209.7	4051.3
15°	5140.4	5130.6	5075.9	4954.6	4833.4	4741.5	4720.0	4649.6	4522.5	4366.1	4188.2
17.5°	5146.3	5142.3	5089.6	4987.9	4882.3	4819.7	4806.0	4759.1	4659.4	4510.8	4323.1
20°	5032.9	5040.7	5005.5	4933.1	4882.3	4854.9	4849.1	4833.4	4763.0	4624.2	4436.5
22.5°	4911.6	4925.3	4892.1	4853.0	4849.1	4876.4	4880.3	4884.3	4839.3	4704.4	4532.3
25°	4882.3	4892.1	4858.8	4823.6	4845.1	4917.5	4933.1	4948.8	4913.6	4800.2	4645.7
27.5°	5030.9	5023.1	4958.6	4882.3	4896.0	4993.7	5015.3	5032.9	5015.3	4917.5	4786.5
30°	5451.3	5425.9	5296.8	5073.9	5003.5	5072.0	5093.5	5142.3	5142.3	5070.0	4939.0
32.5°	6155.2	6106.3	5869.7	5431.7	5187.3	5146.3	5167.8	5247.9	5289.0	5232.3	5089.6
35°	7009.6	6958.8	6620.5	6032.0	5523.6	5294.9	5289.0	5378.9	5488.4	5361.3	5175.6
37.5°	7868.0	7815.2	7408.5	6747.6	6014.4	5607.7	5572.5	5603.8	5650.7	5418.0	5294.9
40°	8726.3	8663.8	8307.9	7547.3	6614.7	6022.2	5930.3	5789.5	5770.0	5603.8	5525.6
42.5°	9576.9	9520.2	9340.3	8444.8	7334.2	6427.0	6286.2	6043.7	6118.0	6018.3	5949.9
45°	10435.2	10439.2	10247.5	9451.7	8202.3	7173.9	6984.2	6604.9	6780.9	6743.7	6782.8
47.5°	11195.8	11186.1	11117.6	10429.4	9279.7	8135.9	7891.4	7451.5	7752.6	7889.5	8188.6
50°	11933.0	11927.1	11931.0	11538.0	10531.1	9279.7	9009.9	8548.4	9226.9	9702.0	10237.8
52.5°	12988.8	13022.1	12785.5	12681.8	12052.2	10630.8	10333.6	9856.5	10969.0	11717.9	12764.0
55°	14048.6	14021.2	13835.5	13943.0	13643.8	12230.2	11919.3	11540.0	12908.7	13727.9	15299.9
57.5°	14672.3	14682.1	14871.7	15397.7	15608.9	14224.5	13943.0	13649.7	15088.8	15669.5	17556.3
60°	15233.5	15278.4	15824.0	16817.2	17390.1	16674.5	16424.2	16138.8	17089.0	17319.7	19515.5
62.5°	15409.4	15548.3	16500.5	17986.5	19126.4	19439.2	19128.4	18498.8	18993.4	18903.5	20843.1
65°	14531.5	14721.2	16428.1	18424.5	20676.9	22063.2	21865.7	20696.5	20616.3	20074.7	21060.2
67.5°	12220.4	12410.1	14601.9	17505.5	21318.2	24335.2	24137.7	22299.8	21601.8	20184.2	19417.7
70°	8941.4	9060.7	11156.7	14738.8	20029.7	25097.8	25166.2	23081.9	21249.8	18696.2	15943.2
72.5°	5152.1	5416.1	6884.5	10368.8	16363.6	23169.9	23645.0	21455.1	19024.7	15597.1	11147.0
75°	2215.3	2221.2	3183.2	5719.1	11082.4	18623.9	19083.4	17785.1	14940.2	10785.2	5951.8
77.5°	1053.9	1073.4	1400.0	2553.6	6100.4	12867.6	14107.2	12564.5	9555.4	5181.5	2248.6
80°	684.3	698.0	856.4	1267.0	2991.6	7461.3	8325.5	7248.2	4215.5	1851.6	969.8
82.5°	414.5	418.4	572.9	774.3	1646.3	3378.7	3982.9	3146.0	1798.8	1108.6	570.9
85°	252.2	254.2	348.0	479.0	999.1	1167.3	1198.6	1188.8	1055.8	725.4	305.0
87.5°	121.2	125.1	179.9	226.8	393.0	361.7	342.2	396.9	498.6	391.1	131.0
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°	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1	3668.1
2.5°	3664.2	3658.3	3644.6	3638.7	3634.8	3636.8	3634.8	3634.8	3636.8	3636.8	3636.8
5°	3681.8	3672.0	3650.5	3650.5	3662.2	3689.6	3715.0	3734.6	3756.1	3754.1	3754.1
7.5°	3758.0	3740.4	3715.0	3722.8	3752.2	3795.2	3840.1	3883.2	3926.2	3930.1	3928.1
10°	3869.5	3851.9	3824.5	3834.3	3881.2	3945.7	4002.4	4065.0	4111.9	4125.6	4121.7
12.5°	3996.6	3961.4	3937.9	3965.3	4039.6	4125.6	4180.4	4227.3	4260.5	4280.1	4272.3
15°	4125.6	4092.4	4065.0	4121.7	4211.6	4291.8	4319.2	4327.0	4332.9	4352.4	4348.5
17.5°	4250.7	4205.8	4196.0	4270.3	4356.3	4391.5	4375.9	4342.6	4317.2	4332.9	4330.9
20°	4362.2	4327.0	4323.1	4397.4	4430.6	4397.4	4330.9	4272.3	4227.3	4231.2	4229.2
22.5°	4467.8	4440.4	4444.3	4475.6	4422.8	4309.4	4199.9	4119.7	4070.9	4080.6	4086.5
25°	4585.1	4557.7	4567.5	4516.7	4342.6	4145.2	3986.8	3918.3	3898.8	3918.3	3932.0
27.5°	4737.6	4720.0	4714.1	4518.6	4199.9	3902.7	3722.8	3697.4	3715.0	3758.0	3779.5
30°	4901.8	4901.8	4870.6	4485.4	4004.4	3611.4	3455.0	3458.9	3519.5	3580.1	3601.6
32.5°	5060.2	5093.5	4995.7	4395.4	3752.2	3327.9	3208.6	3212.5	3265.3	3339.6	3359.1
35°	5191.2	5287.0	5103.2	4231.2	3455.0	3089.3	2999.4	2946.6	2948.5	3005.2	3020.9
37.5°	5371.1	5549.0	5165.8	3986.8	3138.2	2886.0	2784.3	2692.4	2631.8	2608.3	2608.3
40°	5684.0	5946.0	5181.5	3625.1	2839.0	2692.4	2547.7	2438.2	2320.9	2215.3	2195.8
42.5°	6213.8	6544.3	5150.2	3208.6	2569.2	2479.3	2338.5	2203.6	2041.3	1892.7	1881.0
45°	7152.4	7322.5	5066.1	2776.5	2328.7	2274.0	2137.1	1990.5	1818.4	1685.4	1675.7
47.5°	8656.0	8415.5	4954.6	2393.2	2109.7	2094.1	1988.5	1818.4	1646.3	1554.4	1544.7
50°	10851.7	10136.1	4939.0	2115.6	1933.8	1941.6	1855.5	1699.1	1548.6	1472.3	1460.6
52.5°	13495.2	12214.5	5042.6	1920.1	1779.3	1808.6	1765.6	1620.9	1488.0	1423.4	1411.7
55°	16060.5	14083.8	5105.2	1767.6	1634.6	1689.3	1695.2	1574.0	1452.8	1388.2	1380.4
57.5°	18142.9	15491.6	4827.5	1628.7	1509.5	1593.5	1636.6	1546.6	1435.2	1386.3	1378.5
60°	19591.7	16156.3	4037.6	1505.6	1417.6	1517.3	1615.0	1548.6	1478.2	1484.0	1488.0
62.5°	20053.2	15861.1	3028.7	1413.7	1355.0	1491.9	1650.2	1628.7	1556.4	1601.4	1609.2
65°	19288.7	14641.0	2195.8	1341.3	1300.3	1509.5	1755.8	1687.4	1529.0	1562.3	1562.3
67.5°	16729.2	12613.4	1708.9	1274.8	1237.7	1542.7	1861.4	1681.5	1464.5	1503.6	1468.4
70°	13270.4	9756.8	1423.4	1200.5	1171.2	1493.8	1871.2	1620.9	1388.2	1396.1	1329.6
72.5°	8806.5	6415.2	1224.0	1130.1	1069.5	1343.3	1791.0	1542.7	1313.9	1269.0	1202.5
75°	4315.3	3198.8	1067.6	1042.2	936.6	1169.2	1681.5	1468.4	1233.8	1163.4	1126.2
77.5°	1671.8	1360.9	911.2	930.7	815.3	1030.4	1536.8	1362.8	1128.2	1032.4	1003.1
80°	811.4	772.3	746.9	776.2	670.7	877.9	1403.9	1270.9	1030.4	924.8	881.8
82.5°	504.5	477.1	572.9	604.2	516.2	801.7	1331.5	1192.7	907.2	766.5	731.3
85°	256.1	273.7	383.2	412.6	369.5	637.4	1096.9	895.5	655.0	543.6	547.5
87.5°	97.8	131.0	201.4	217.0	197.5	336.3	604.2	522.1	420.4	285.5	264.0
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)