

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: P522828

Luminaire Tested: **GALN-SA6D-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522828
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-SA6D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36479 lumens
Efficiency: N/A
Efficacy: 99.1 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): 368
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

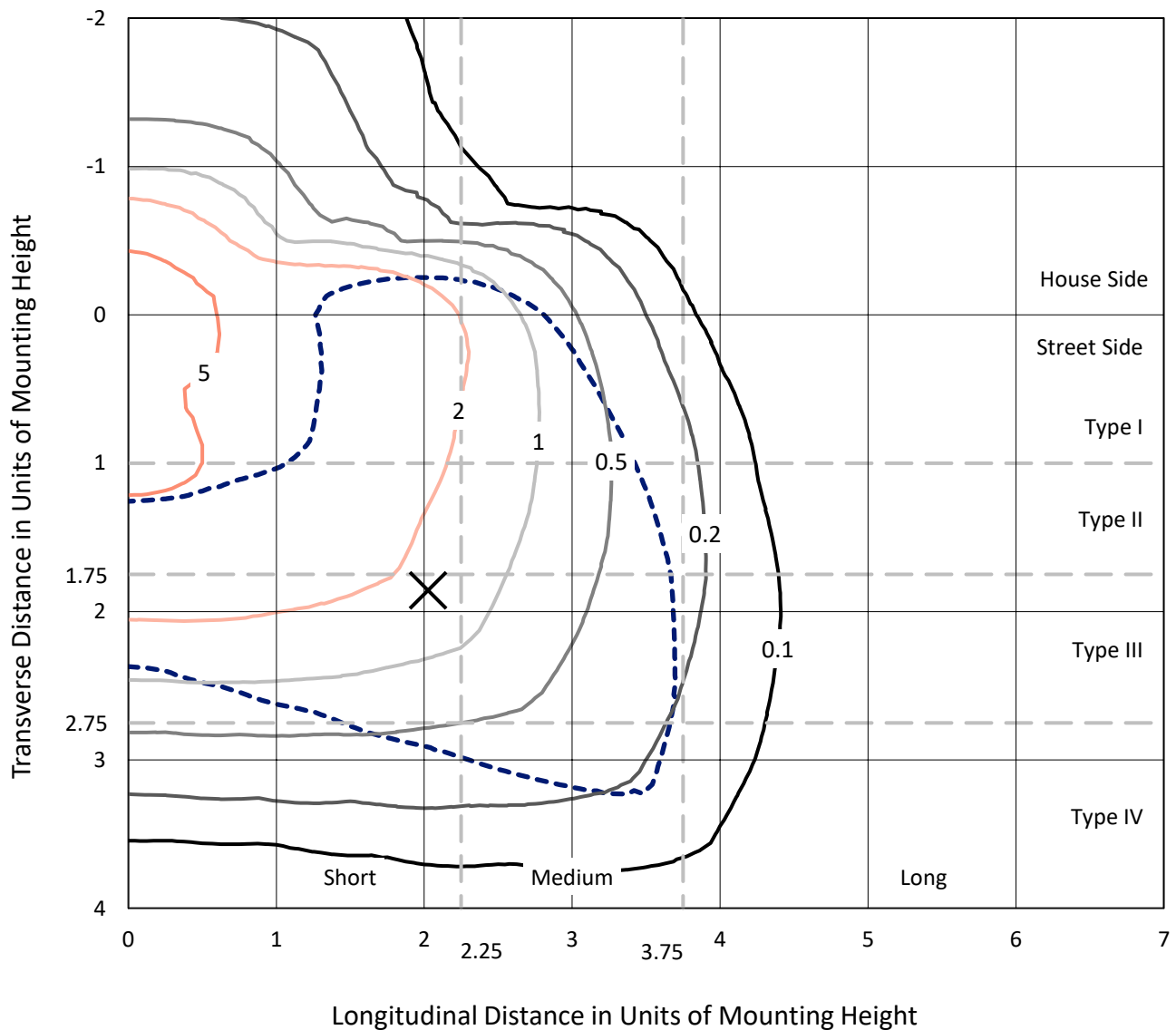


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

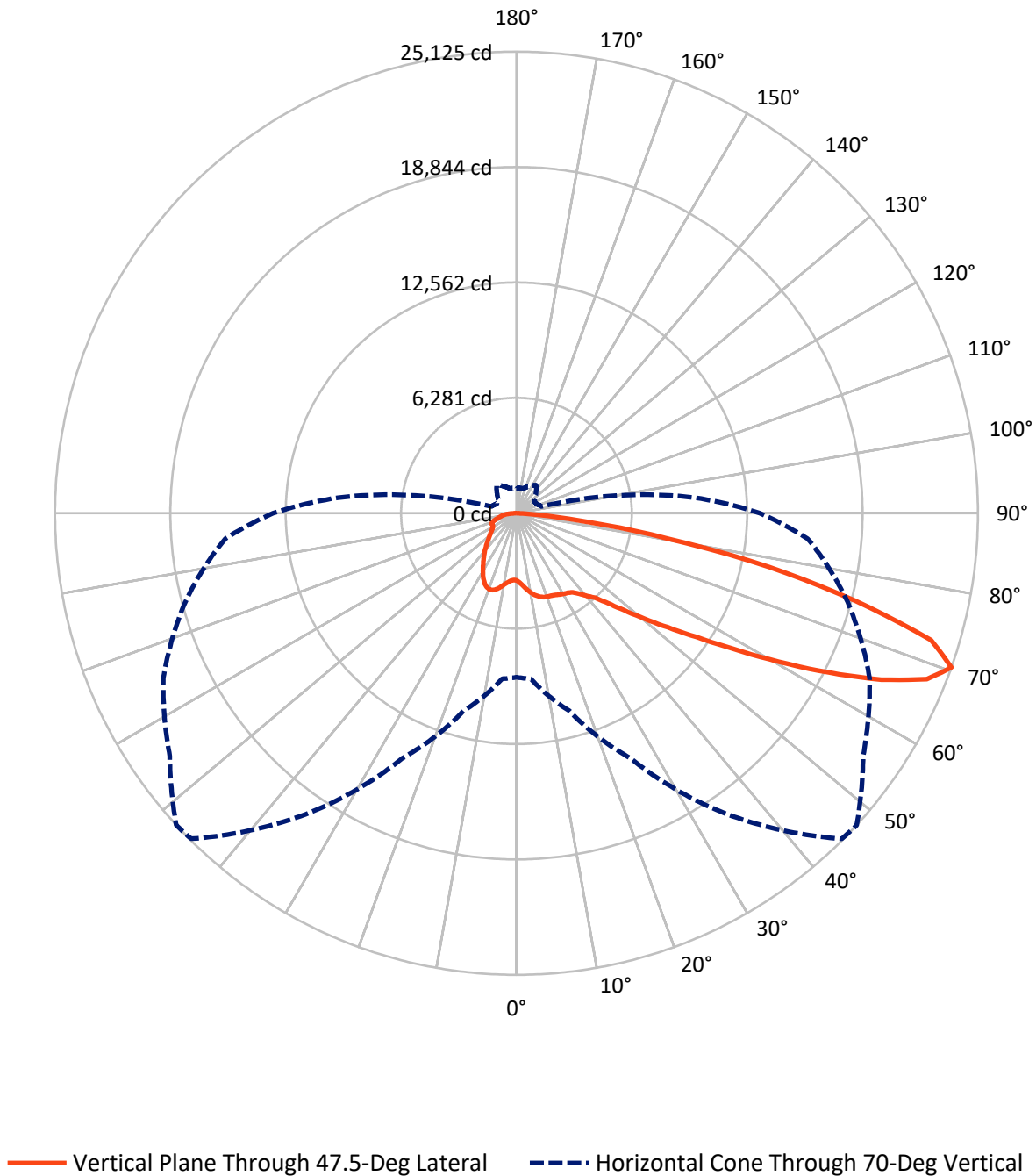


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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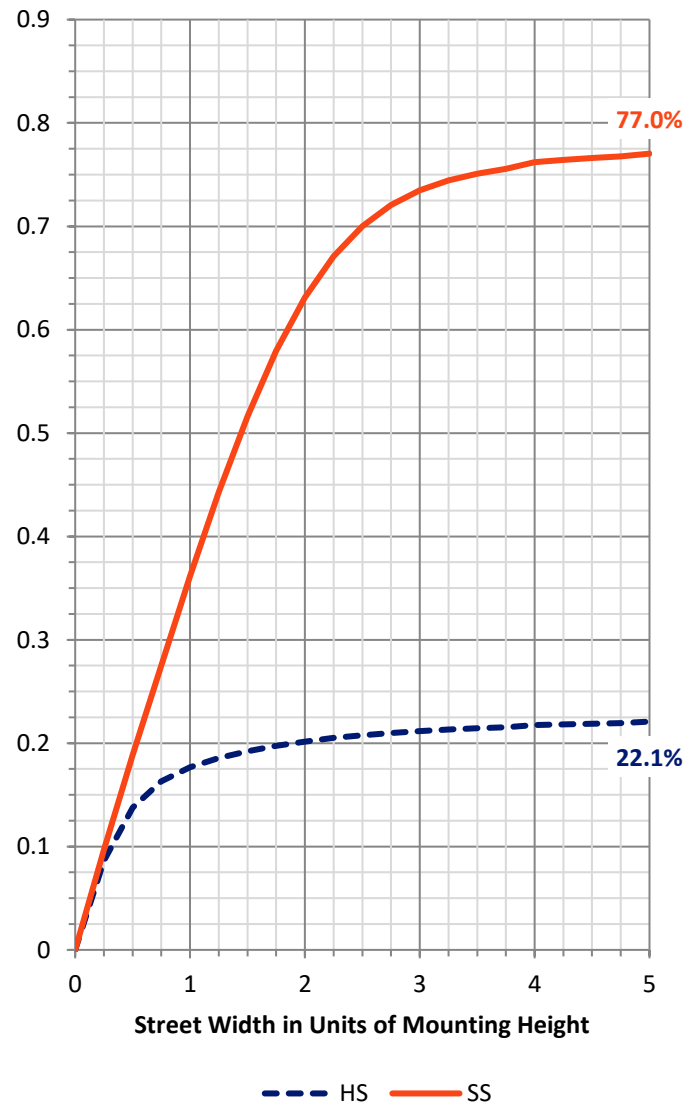
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8259.6	0.0	8259.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28219.4	0.0	28219.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	36479.0	0.0	36479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.5	1.0
10°-20°	1262.0	3.5
20°-30°	2098.6	5.8
30°-40°	2974.5	8.2
40°-50°	4390.9	12.0
50°-60°	7605.3	20.8
60°-70°	10742.7	29.4
70°-80°	6175.5	16.9
80°-90°	852.1	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°	36479.0	100.0
0°-180°	36479.0	100.0

Coefficient of Utilization



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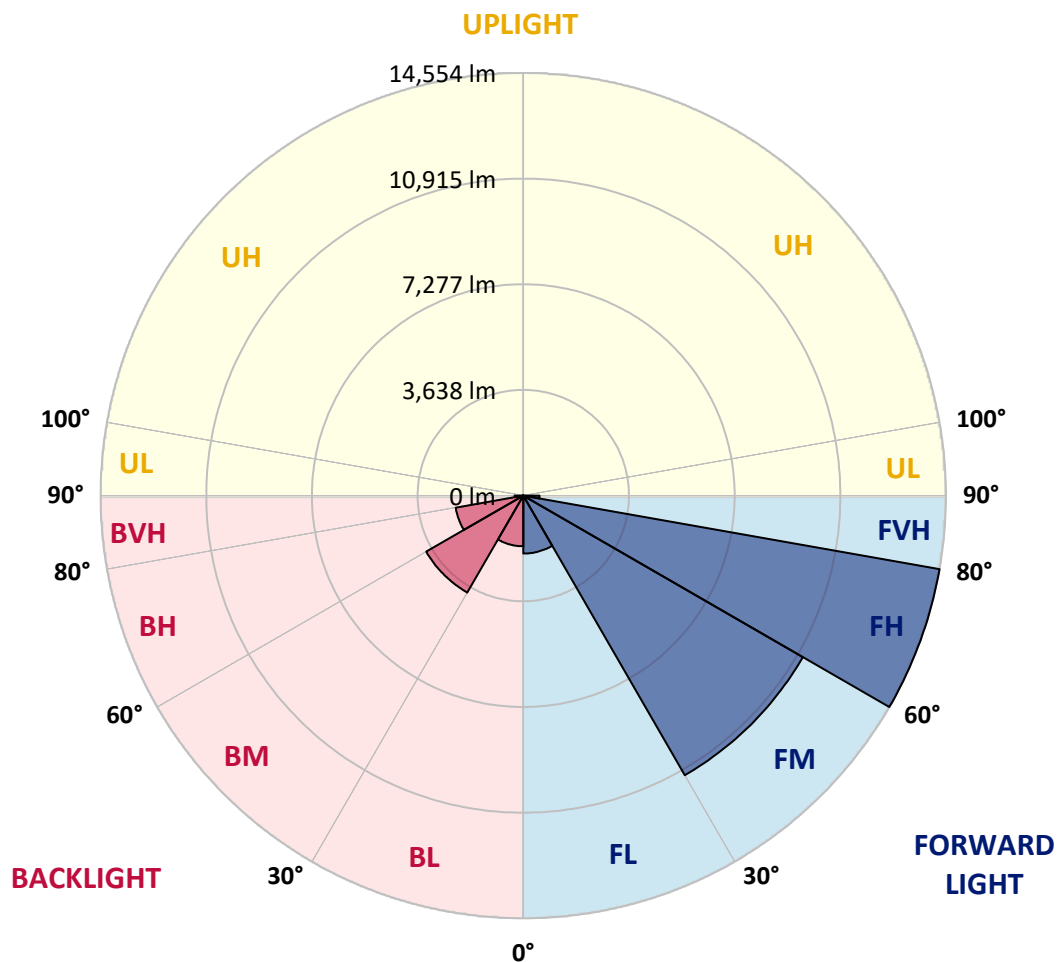
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1994.8	5.5			
FM	(30°-60°)	11114.4	30.5			
FH	(60°-80°)	14553.6	39.9			G5
FVH	(80°-90°)	556.6	1.5			G4/750
BL	(0°-30°)	1743.2	4.8	B3/2500		
BM	(30°-60°)	3856.2	10.6	B3/5000		
BH	(60°-80°)	2364.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	295.5	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°	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1
2.5°	3898.3	3884.6	3882.6	3853.4	3837.7	3808.5	3796.7	3769.4	3736.2	3703.0	3671.8
5°	4204.7	4204.7	4191.1	4150.1	4085.6	4019.3	3990.0	3937.3	3843.6	3767.5	3703.0
7.5°	4519.0	4522.9	4495.6	4435.1	4343.3	4236.0	4208.6	4130.5	3997.8	3886.5	3790.9
10°	4790.3	4790.3	4753.3	4671.3	4556.1	4439.0	4411.6	4323.8	4175.4	4036.8	3911.9
12.5°	4997.3	4997.3	4948.5	4841.1	4716.2	4610.8	4579.5	4495.6	4357.0	4202.8	4044.7
15°	5131.9	5122.2	5067.5	4946.5	4825.5	4733.7	4712.3	4642.0	4515.1	4358.9	4181.3
17.5°	5137.8	5133.9	5081.2	4979.7	4874.3	4811.8	4798.1	4751.3	4651.7	4503.4	4316.0
20°	5024.6	5032.4	4997.3	4925.0	4874.3	4846.9	4841.1	4825.5	4755.2	4616.6	4429.2
22.5°	4903.6	4917.2	4884.0	4845.0	4841.1	4868.4	4872.3	4876.2	4831.3	4696.6	4524.9
25°	4874.3	4884.0	4850.9	4815.7	4837.2	4909.4	4925.0	4940.6	4905.5	4792.3	4638.1
27.5°	5022.6	5014.8	4950.4	4874.3	4887.9	4985.5	5007.0	5024.6	5007.0	4909.4	4778.6
30°	5442.3	5416.9	5288.1	5065.6	4995.3	5063.6	5085.1	5133.9	5133.9	5061.7	4930.9
32.5°	6145.1	6096.3	5860.1	5422.8	5178.8	5137.8	5159.3	5239.3	5280.3	5223.7	5081.2
35°	6998.1	6947.4	6609.7	6022.1	5514.6	5286.2	5280.3	5370.1	5479.4	5352.5	5167.1
37.5°	7855.1	7802.4	7396.3	6736.5	6004.5	5598.5	5563.4	5594.6	5641.4	5409.1	5286.2
40°	8712.0	8649.5	8294.3	7534.9	6603.8	6012.3	5920.6	5780.0	5760.5	5594.6	5516.5
42.5°	9561.2	9504.5	9325.0	8430.9	7322.2	6416.4	6275.9	6033.8	6108.0	6008.4	5940.1
45°	10418.1	10422.0	10230.7	9436.2	8188.9	7162.1	6972.7	6594.0	6769.7	6732.6	6771.7
47.5°	11177.5	11167.7	11099.4	10412.3	9264.4	8122.5	7878.5	7439.3	7739.9	7876.5	8175.2
50°	11913.4	11907.5	11911.4	11519.1	10513.8	9264.4	8995.1	8534.4	9211.7	9686.1	10221.0
52.5°	12967.5	13000.7	12764.5	12661.0	12032.5	10613.3	10316.6	9840.3	10951.0	11698.7	12743.0
55°	14025.5	13998.2	13812.7	13920.1	13621.4	12210.1	11899.7	11521.0	12887.5	13705.4	15274.8
57.5°	14648.2	14658.0	14847.3	15372.4	15583.2	14201.2	13920.1	13627.3	15064.0	15643.8	17527.5
60°	15208.5	15253.3	15798.0	16789.6	17361.6	16647.1	16397.3	16112.3	17060.9	17291.3	19483.4
62.5°	15384.1	15522.7	16473.4	17956.9	19095.0	19407.3	19096.9	18468.4	18962.2	18872.5	20808.9
65°	14507.7	14697.0	16401.2	18394.2	20643.0	22027.0	21829.8	20662.5	20582.5	20041.7	21025.6
67.5°	12200.3	12389.7	14577.9	17476.7	21283.2	24295.3	24098.1	22263.2	21566.3	20151.0	19385.8
70°	8926.7	9045.8	11138.4	14714.6	19996.8	25056.6	25124.9	23044.0	21214.9	18665.5	15917.0
72.5°	5143.7	5407.2	6873.2	10351.7	16336.7	23131.8	23606.2	21419.9	18993.5	15571.5	11128.7
75°	2211.7	2217.5	3177.9	5709.8	11064.2	18593.3	19052.0	17755.9	14915.6	10767.5	5942.1
77.5°	1052.2	1071.7	1397.7	2549.4	6090.4	12846.5	14084.1	12543.9	9539.7	5172.9	2244.9
80°	683.2	696.9	855.0	1264.9	2986.6	7449.0	8311.8	7236.3	4208.6	1848.6	968.2
82.5°	413.8	417.7	572.0	773.0	1643.6	3373.1	3976.3	3140.9	1795.9	1106.8	570.0
85°	251.8	253.8	347.5	478.3	997.5	1165.4	1196.6	1186.8	1054.1	724.2	304.5
87.5°	121.0	124.9	179.6	226.4	392.4	361.1	341.6	396.3	497.8	390.4	130.8
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°	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1
2.5°	3658.1	3652.3	3638.6	3632.8	3628.9	3630.8	3628.9	3628.9	3630.8	3630.8	3630.8
5°	3675.7	3666.0	3644.5	3644.5	3656.2	3683.5	3708.9	3728.4	3749.9	3747.9	3747.9
7.5°	3751.8	3734.3	3708.9	3716.7	3746.0	3788.9	3833.8	3876.8	3919.7	3923.6	3921.7
10°	3863.1	3845.5	3818.2	3828.0	3874.8	3939.2	3995.9	4058.3	4105.2	4118.8	4114.9
12.5°	3990.0	3954.9	3931.4	3958.8	4032.9	4118.8	4173.5	4220.3	4253.5	4273.0	4265.2
15°	4118.8	4085.6	4058.3	4114.9	4204.7	4284.8	4312.1	4319.9	4325.8	4345.3	4341.4
17.5°	4243.8	4198.9	4189.1	4263.3	4349.2	4384.3	4368.7	4335.5	4310.1	4325.8	4323.8
20°	4355.0	4319.9	4316.0	4390.2	4423.4	4390.2	4323.8	4265.2	4220.3	4224.2	4222.3
22.5°	4460.4	4433.1	4437.0	4468.3	4415.5	4302.3	4193.0	4113.0	4064.2	4073.9	4079.8
25°	4577.6	4550.2	4560.0	4509.2	4335.5	4138.4	3980.2	3911.9	3892.4	3911.9	3925.6
27.5°	4729.8	4712.3	4706.4	4511.2	4193.0	3896.3	3716.7	3691.3	3708.9	3751.8	3773.3
30°	4893.8	4893.8	4862.6	4478.0	3997.8	3605.4	3449.3	3453.2	3513.7	3574.2	3595.7
32.5°	5051.9	5085.1	4987.5	4388.2	3746.0	3322.4	3203.3	3207.2	3259.9	3334.1	3353.6
35°	5182.7	5278.4	5094.9	4224.2	3449.3	3084.2	2994.5	2941.7	2943.7	3000.3	3015.9
37.5°	5362.3	5539.9	5157.3	3980.2	3133.0	2881.2	2779.7	2688.0	2627.5	2604.0	2604.0
40°	5674.6	5936.2	5172.9	3619.1	2834.4	2688.0	2543.5	2434.2	2317.1	2211.7	2192.2
42.5°	6203.6	6533.5	5141.7	3203.3	2565.0	2475.2	2334.7	2200.0	2037.9	1889.6	1877.9
45°	7140.6	7310.4	5057.8	2771.9	2324.9	2270.2	2133.6	1987.2	1815.4	1682.7	1672.9
47.5°	8641.7	8401.6	4946.5	2389.3	2106.3	2090.6	1985.2	1815.4	1643.6	1551.9	1542.1
50°	10833.9	10119.4	4930.9	2112.1	1930.6	1938.4	1852.5	1696.3	1546.0	1469.9	1458.2
52.5°	13473.1	12194.5	5034.3	1916.9	1776.4	1805.6	1762.7	1618.3	1485.5	1421.1	1409.4
55°	16034.2	14060.6	5096.8	1764.7	1631.9	1686.6	1692.4	1571.4	1450.4	1386.0	1378.1
57.5°	18113.1	15466.1	4819.6	1626.1	1507.0	1590.9	1633.9	1544.1	1432.8	1384.0	1376.2
60°	19559.6	16129.8	4031.0	1503.1	1415.2	1514.8	1612.4	1546.0	1475.8	1481.6	1485.5
62.5°	20020.3	15835.1	3023.7	1411.3	1352.8	1489.4	1647.5	1626.1	1553.8	1598.7	1606.5
65°	19257.0	14617.0	2192.2	1339.1	1298.1	1507.0	1752.9	1684.6	1526.5	1559.7	1559.7
67.5°	16701.8	12592.7	1706.1	1272.7	1235.6	1540.2	1858.4	1678.8	1462.1	1501.1	1466.0
70°	13248.6	9740.7	1421.1	1198.6	1169.3	1491.4	1868.1	1618.3	1386.0	1393.8	1327.4
72.5°	8792.0	6404.7	1222.0	1128.3	1067.8	1341.1	1788.1	1540.2	1311.8	1266.9	1200.5
75°	4308.2	3193.6	1065.8	1040.4	935.0	1167.3	1678.8	1466.0	1231.7	1161.5	1124.4
77.5°	1669.0	1358.6	909.7	929.2	814.0	1028.7	1534.3	1360.6	1126.3	1030.7	1001.4
80°	810.1	771.1	745.7	775.0	669.6	876.5	1401.6	1268.8	1028.7	923.3	880.4
82.5°	503.6	476.3	572.0	603.2	515.3	800.3	1329.3	1190.8	905.8	765.2	730.1
85°	255.7	273.3	382.6	411.9	368.9	636.4	1095.1	894.0	653.9	542.7	546.6
87.5°	97.6	130.8	201.1	216.7	197.2	335.8	603.2	521.2	419.7	285.0	263.5
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)