

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: P456186

Luminaire Tested: **GALN-SA7B-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31232 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 286
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

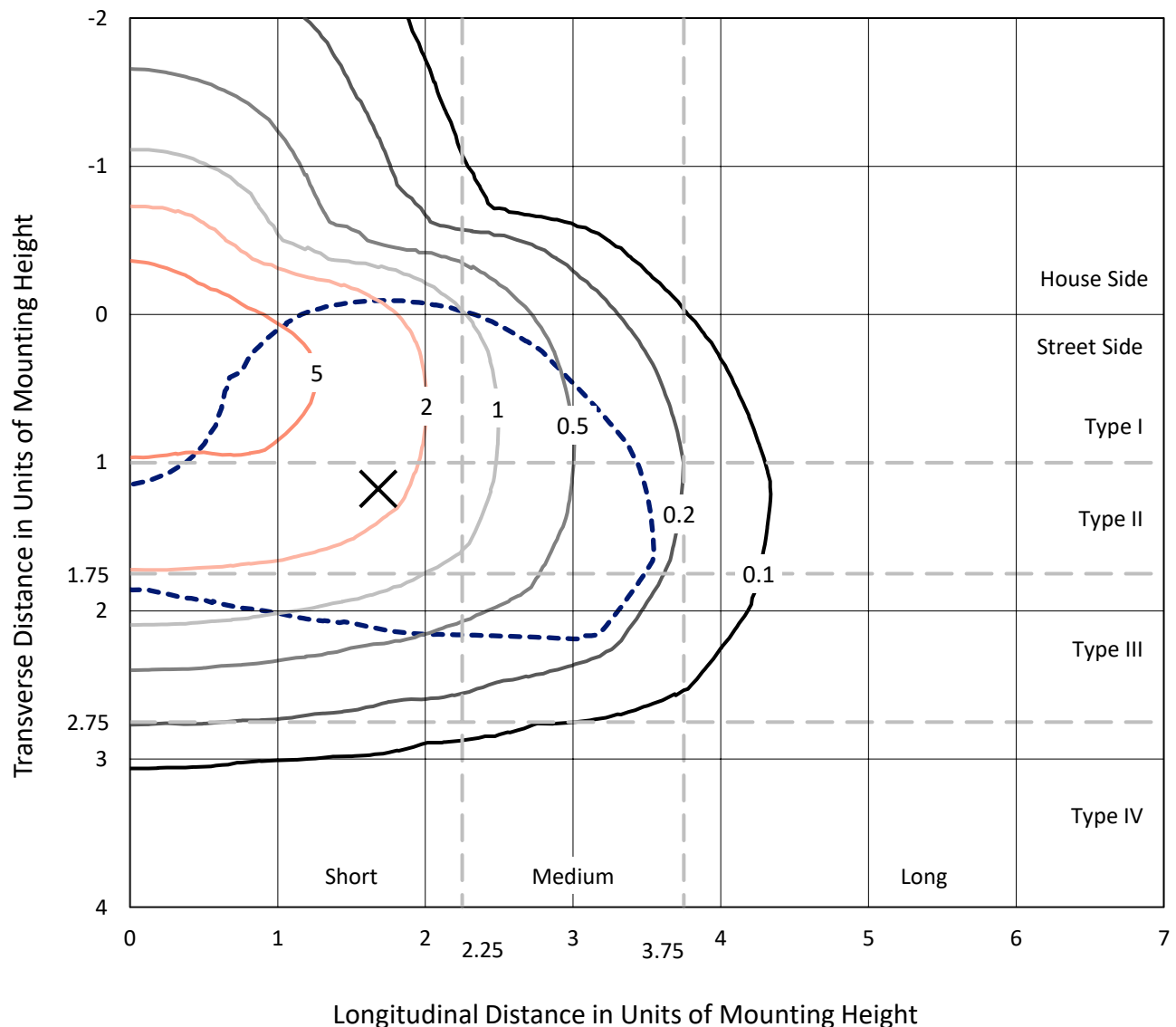


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

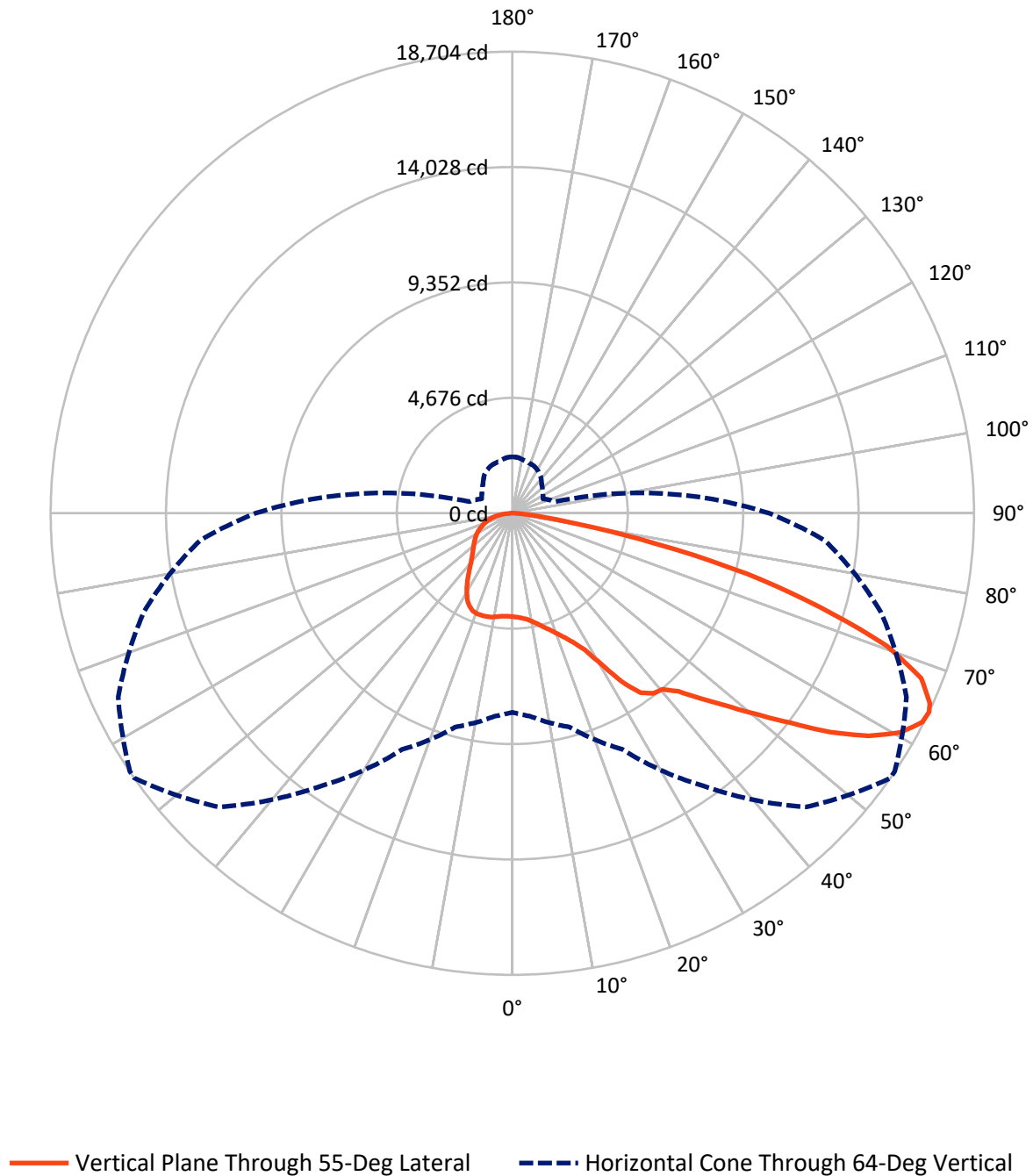


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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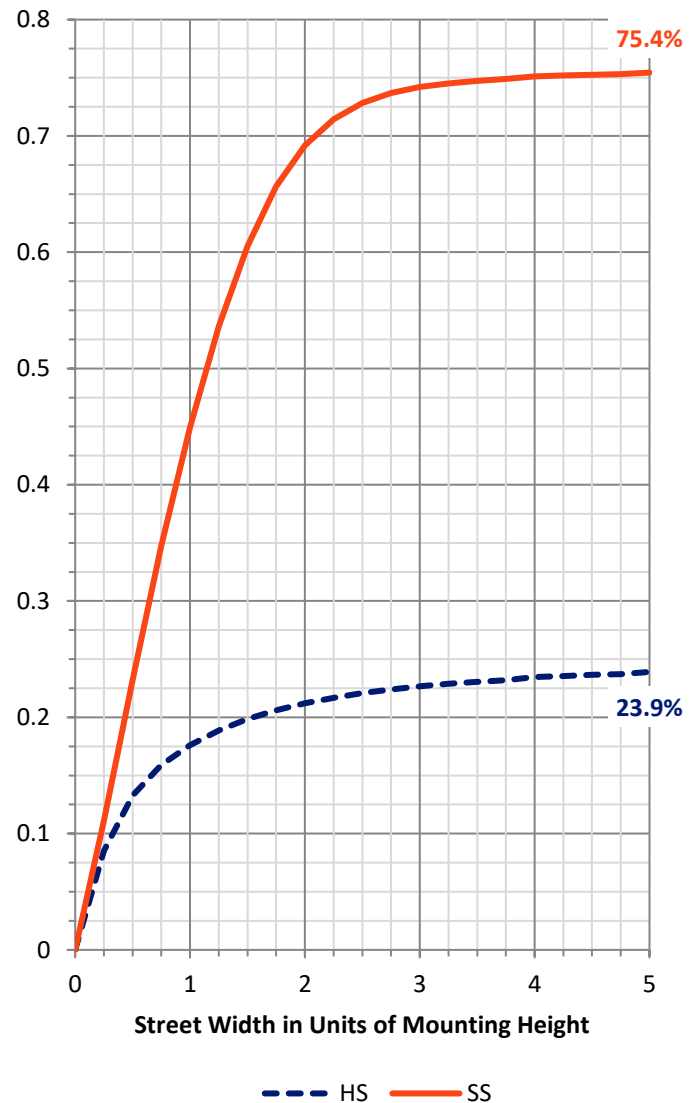
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7586.9	0.0	7586.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	23645.1	0.0	23645.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	31232.0	0.0	31232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.6	1.3
10°-20°	1286.1	4.1
20°-30°	2289.7	7.3
30°-40°	3522.9	11.3
40°-50°	4994.0	16.0
50°-60°	7228.7	23.1
60°-70°	7481.0	24.0
70°-80°	3503.3	11.2
80°-90°	518.6	1.7
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°	31232.0	100.0
0°-180°	31232.0	100.0

Coefficient of Utilization



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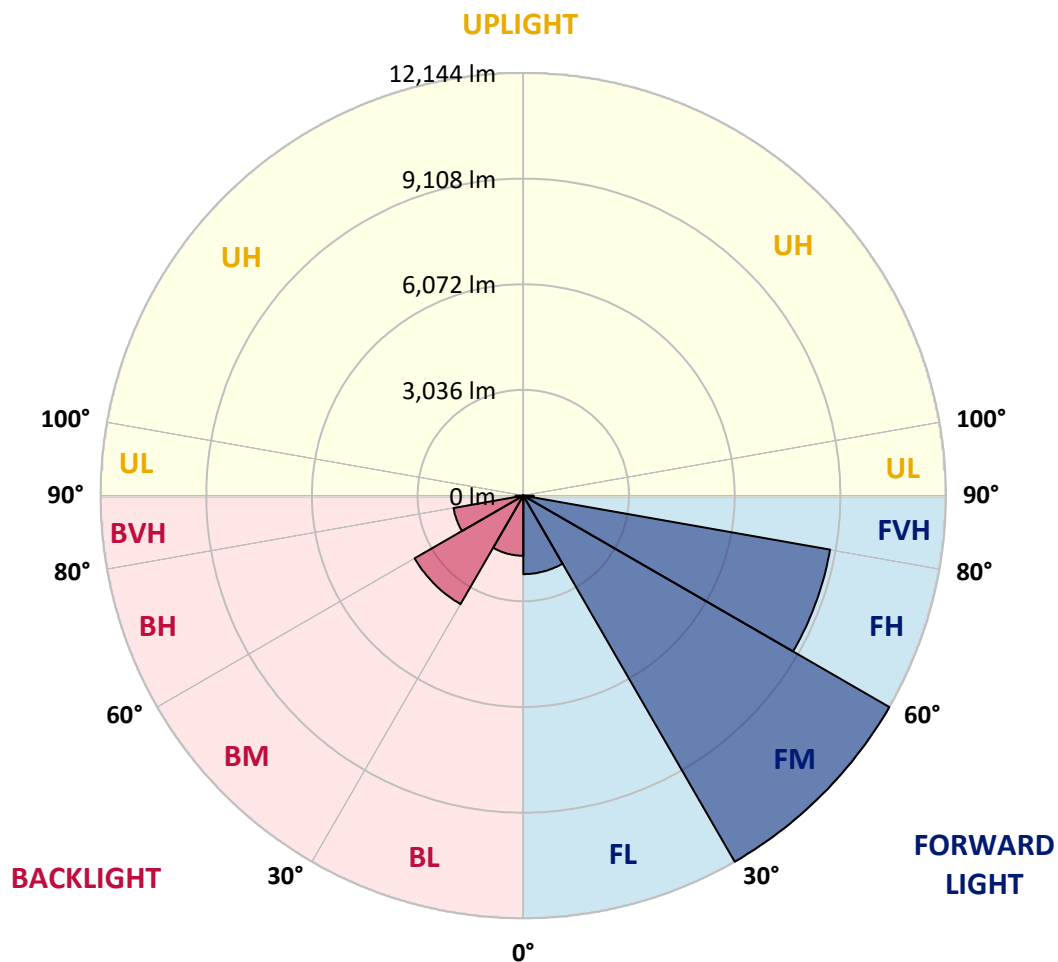
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2255.4	7.2			
FM	(30°-60°)	12143.9	38.9			
FH	(60°-80°)	8948.9	28.7			G4/12000
FVH	(80°-90°)	296.9	1.0			G3/500
BL	(0°-30°)	1728.0	5.5	B3/2500		
BM	(30°-60°)	3601.8	11.5	B3/5000		
BH	(60°-80°)	2035.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	221.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4
2.5°	4237.4	4235.7	4240.9	4235.7	4239.1	4227.0	4221.7	4225.2	4220.0	4211.3	4195.6
5°	4289.6	4287.9	4289.6	4282.7	4286.1	4279.2	4267.0	4270.5	4261.8	4242.6	4220.0
7.5°	4378.4	4371.4	4371.4	4369.7	4362.7	4352.3	4343.6	4340.1	4331.4	4307.0	4272.2
10°	4493.3	4493.3	4495.1	4481.1	4489.8	4470.7	4462.0	4460.2	4430.6	4399.3	4350.6
12.5°	4644.8	4653.5	4648.3	4641.3	4637.8	4630.8	4601.2	4608.2	4575.1	4521.2	4462.0
15°	4832.8	4846.7	4838.0	4834.5	4825.8	4799.7	4787.5	4782.3	4738.8	4660.4	4582.1
17.5°	5081.7	5064.3	5057.4	5048.7	5012.1	4993.0	4972.1	4968.6	4930.3	4838.0	4716.1
20°	5299.4	5323.7	5309.8	5301.1	5264.5	5228.0	5212.3	5207.1	5174.0	5073.0	4878.1
22.5°	5558.8	5564.0	5569.2	5548.3	5530.9	5503.0	5475.2	5466.5	5454.3	5349.8	5111.3
25°	5835.6	5856.5	5839.0	5818.2	5797.3	5795.5	5821.6	5818.2	5812.9	5712.0	5421.2
27.5°	6286.5	6305.6	6310.8	6288.2	6208.1	6215.1	6274.3	6293.4	6373.5	6206.4	5819.9
30°	6540.6	6559.8	6603.3	6688.6	6815.7	6927.1	7069.9	7113.4	7190.0	6874.9	6293.4
32.5°	6697.3	6704.3	6782.6	6941.0	7322.3	7738.4	8126.6	8142.3	8191.0	7748.8	6726.9
35°	6944.5	6949.7	7012.4	7186.5	7633.9	8326.8	8927.4	8946.6	8906.5	8020.4	6928.9
37.5°	7249.2	7263.1	7303.2	7447.7	7982.1	8819.5	9259.9	9246.0	8890.9	8236.3	7285.7
40°	7693.1	7693.1	7646.1	7841.1	8349.4	9101.5	9376.6	9352.2	9258.2	8861.3	7828.9
42.5°	8084.8	8077.9	8189.3	8321.6	8809.0	9536.8	9865.8	9905.8	10060.8	9646.4	8446.9
45°	8594.9	8626.3	8688.9	8929.2	9590.7	10280.1	10704.9	10743.2	10962.6	10570.9	9169.4
47.5°	9110.2	9120.7	9317.4	9637.7	10558.7	11288.1	11636.3	11699.0	11899.2	11652.0	9947.6
50°	9475.8	9575.1	9890.2	10395.0	11556.2	12517.2	12788.8	12863.6	13217.1	12828.8	10854.6
52.5°	9862.3	9959.8	10344.5	11114.0	12701.7	13774.2	14108.4	14158.9	14526.2	14019.6	11782.5
55°	10193.1	10283.6	10720.6	11751.2	13614.0	15057.2	15663.0	15603.9	15779.7	14937.1	12498.1
57.5°	10247.0	10320.2	10870.3	12158.6	14299.9	16157.5	17026.2	17061.0	16857.3	15623.0	13088.2
60°	9829.2	9978.9	10610.9	12115.1	14608.1	16923.5	18042.9	18067.3	17489.3	15974.7	13323.3
62.5°	9089.3	9073.7	9837.9	11415.2	14176.3	17097.6	18641.8	18615.6	17736.5	15805.8	13095.2
64°	8067.4	8255.4	8969.2	10555.2	13479.9	16829.5	18704.4	18690.5	17618.1	15454.1	12707.0
65°	7444.2	7433.7	8138.8	9851.9	12787.0	16425.6	18593.0	18573.9	17370.9	15139.0	12405.8
67.5°	5374.2	5398.6	6095.0	7602.6	10395.0	14846.6	17867.1	17795.7	16396.0	14094.5	11260.3
70°	3255.5	3269.4	3816.1	5043.4	7461.6	12001.9	16105.2	16108.7	14904.0	12534.6	9583.8
72.5°	1714.8	1751.4	1970.7	2863.8	4531.6	8420.8	13065.6	13375.5	12795.8	10697.9	7571.3
75°	954.0	959.2	1114.2	1411.9	2311.9	4712.7	9820.5	9909.3	10130.4	8610.6	5598.8
77.5°	727.7	738.1	786.9	912.2	1258.7	2184.9	5943.5	6389.2	7139.5	6070.6	3194.6
80°	590.2	600.6	642.4	717.3	837.4	1035.8	2761.1	3001.3	3821.3	2694.9	1246.5
82.5°	459.6	452.6	506.6	555.4	609.3	612.8	1133.3	1253.5	1556.4	1159.5	539.7
85°	341.2	341.2	384.7	374.3	393.4	358.6	499.6	551.9	623.2	492.7	250.7
87.5°	135.8	149.7	252.4	226.3	175.8	141.0	184.5	195.0	215.9	193.2	104.5
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°	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4	4190.4
2.5°	4197.4	4202.6	4190.4	4181.7	4178.2	4173.0	4167.8	4169.5	4176.5	4183.4	4181.7
5°	4218.2	4220.0	4199.1	4188.7	4181.7	4174.7	4174.7	4179.9	4193.9	4204.3	4204.3
7.5°	4270.5	4270.5	4240.9	4221.7	4211.3	4199.1	4195.6	4197.4	4207.8	4221.7	4223.5
10°	4352.3	4345.3	4307.0	4277.4	4258.3	4228.7	4202.6	4188.7	4193.9	4202.6	4202.6
12.5°	4451.5	4432.4	4383.6	4343.6	4296.6	4240.9	4186.9	4159.1	4157.3	4166.0	4162.5
15°	4557.7	4536.8	4468.9	4395.8	4314.0	4232.2	4167.8	4127.7	4096.4	4087.7	4106.8
17.5°	4681.3	4637.8	4543.8	4442.8	4321.0	4214.8	4113.8	4032.0	3976.3	3960.6	3965.8
20°	4831.0	4773.6	4646.5	4488.1	4315.7	4152.1	3995.4	3885.7	3795.2	3767.3	3770.8
22.5°	5038.2	4939.0	4752.7	4510.7	4272.2	4033.7	3816.1	3673.3	3563.7	3520.1	3546.3
25°	5273.2	5165.3	4853.7	4505.5	4159.1	3843.9	3603.7	3417.4	3318.2	3253.8	3267.7
27.5°	5597.1	5405.6	4961.6	4458.5	3997.1	3612.4	3333.9	3158.0	3067.5	3034.4	3050.1
30°	6011.4	5717.2	5078.3	4331.4	3741.2	3319.9	3062.3	2947.4	2893.4	2851.6	2865.6
32.5°	6310.8	5936.5	5104.4	4117.3	3464.4	3053.6	2877.7	2792.4	2733.2	2693.2	2701.9
35°	6525.0	6122.8	5092.2	3854.4	3175.4	2834.2	2731.5	2661.9	2566.1	2479.1	2463.4
37.5°	6812.2	6356.1	5003.4	3567.1	2889.9	2686.2	2613.1	2484.3	2346.8	2230.1	2224.9
40°	7252.7	6629.4	4813.6	3229.4	2646.2	2576.6	2487.8	2320.6	2172.7	2078.7	2071.7
42.5°	7707.0	6881.9	4556.0	2874.3	2446.0	2461.7	2353.7	2188.3	2097.8	2036.9	2029.9
45°	8262.4	7155.2	4277.4	2566.1	2298.0	2353.7	2237.1	2141.3	2087.4	2047.3	2036.9
47.5°	8863.0	7435.5	3964.1	2289.3	2172.7	2254.5	2188.3	2144.8	2115.2	2087.4	2075.2
50°	9510.6	7748.8	3669.9	2066.5	2059.5	2151.8	2183.1	2167.4	2150.0	2141.3	2130.9
52.5°	10220.9	8069.2	3422.6	1909.8	1960.3	2078.7	2184.9	2197.0	2197.0	2191.8	2184.9
55°	10701.4	8292.0	3172.0	1782.7	1859.3	2019.5	2181.4	2228.4	2245.8	2238.8	2231.9
57.5°	11056.6	8413.9	2856.8	1673.0	1774.0	1962.0	2162.2	2231.9	2249.3	2258.0	2254.5
60°	11129.7	8300.7	2444.3	1558.1	1681.7	1878.5	2092.6	2179.6	2202.3	2256.2	2261.5
62.5°	10800.7	7952.5	2033.4	1445.0	1568.6	1751.4	1998.6	2120.4	2165.7	2249.3	2258.0
64°	10396.8	7562.6	1805.3	1373.6	1495.4	1680.0	1951.6	2104.8	2164.0	2275.4	2282.3
65°	10100.8	7278.8	1662.6	1328.3	1448.4	1633.0	1925.5	2110.0	2179.6	2315.4	2325.9
67.5°	9011.0	6302.1	1375.3	1222.1	1337.0	1552.9	1930.7	2153.5	2176.1	2331.1	2329.3
70°	7456.4	5017.3	1152.5	1124.6	1229.1	1488.5	1909.8	2083.9	2085.6	2188.3	2164.0
72.5°	5583.1	3708.2	999.3	1023.7	1109.0	1335.3	1803.6	1989.9	1960.3	1974.2	1949.8
75°	3835.2	2453.0	860.0	915.7	983.6	1180.3	1653.9	1807.1	1760.1	1742.7	1725.3
77.5°	2047.3	1356.2	715.5	809.5	854.8	1020.2	1443.2	1591.2	1542.5	1474.6	1451.9
80°	828.7	638.9	576.2	670.3	696.4	821.7	1201.2	1293.5	1256.9	1138.6	1100.3
82.5°	416.1	383.0	452.6	527.5	529.2	586.7	893.1	980.1	898.3	753.8	720.7
85°	217.6	224.6	311.6	370.8	327.3	316.8	536.2	593.7	544.9	473.5	426.5
87.5°	78.3	90.5	163.6	161.9	114.9	60.9	118.4	57.5	31.3	19.2	24.4
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)