

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: P522864

Luminaire Tested: **GALN-SA7D-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522864
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-SA7D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 42848 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): 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

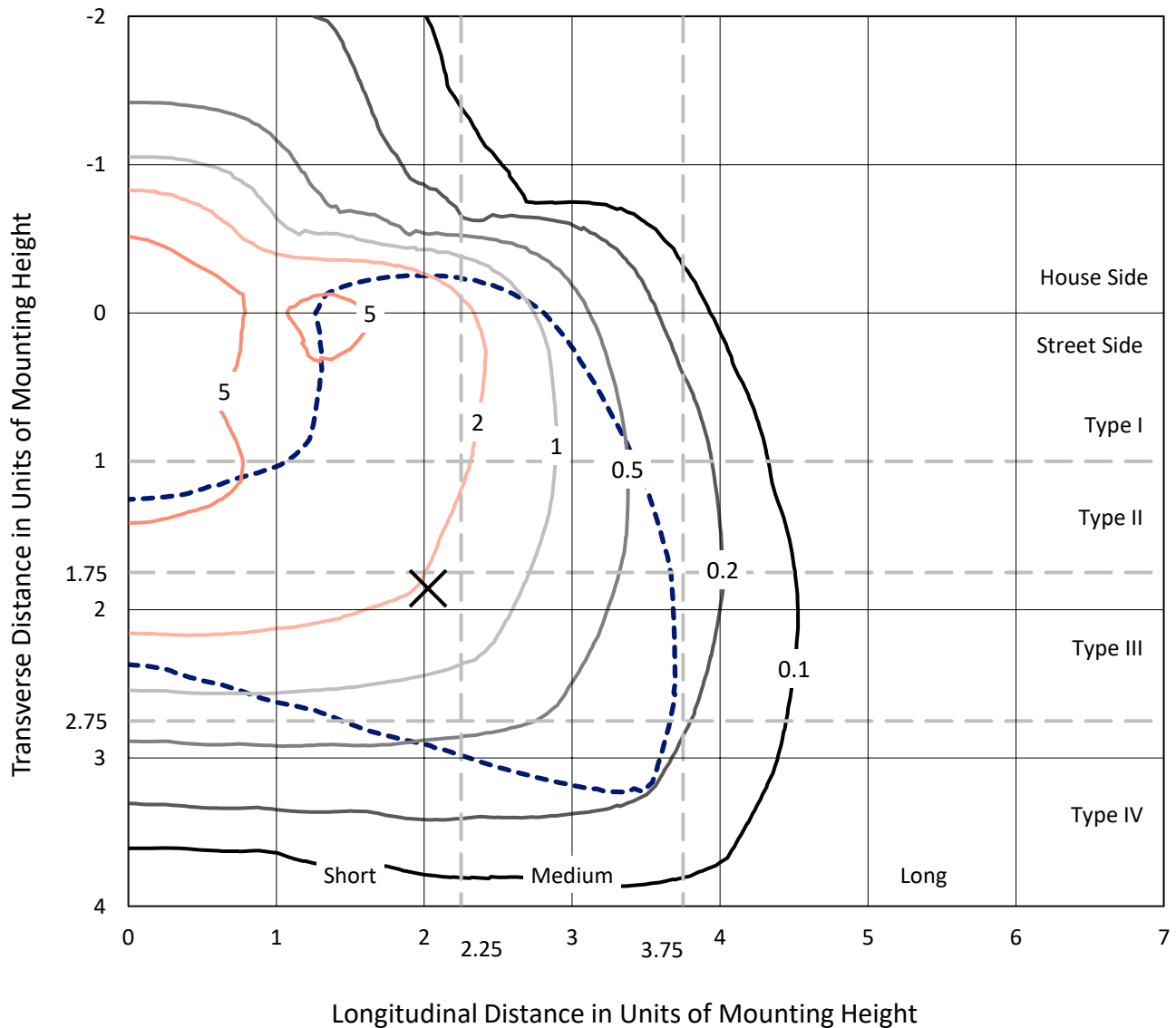


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

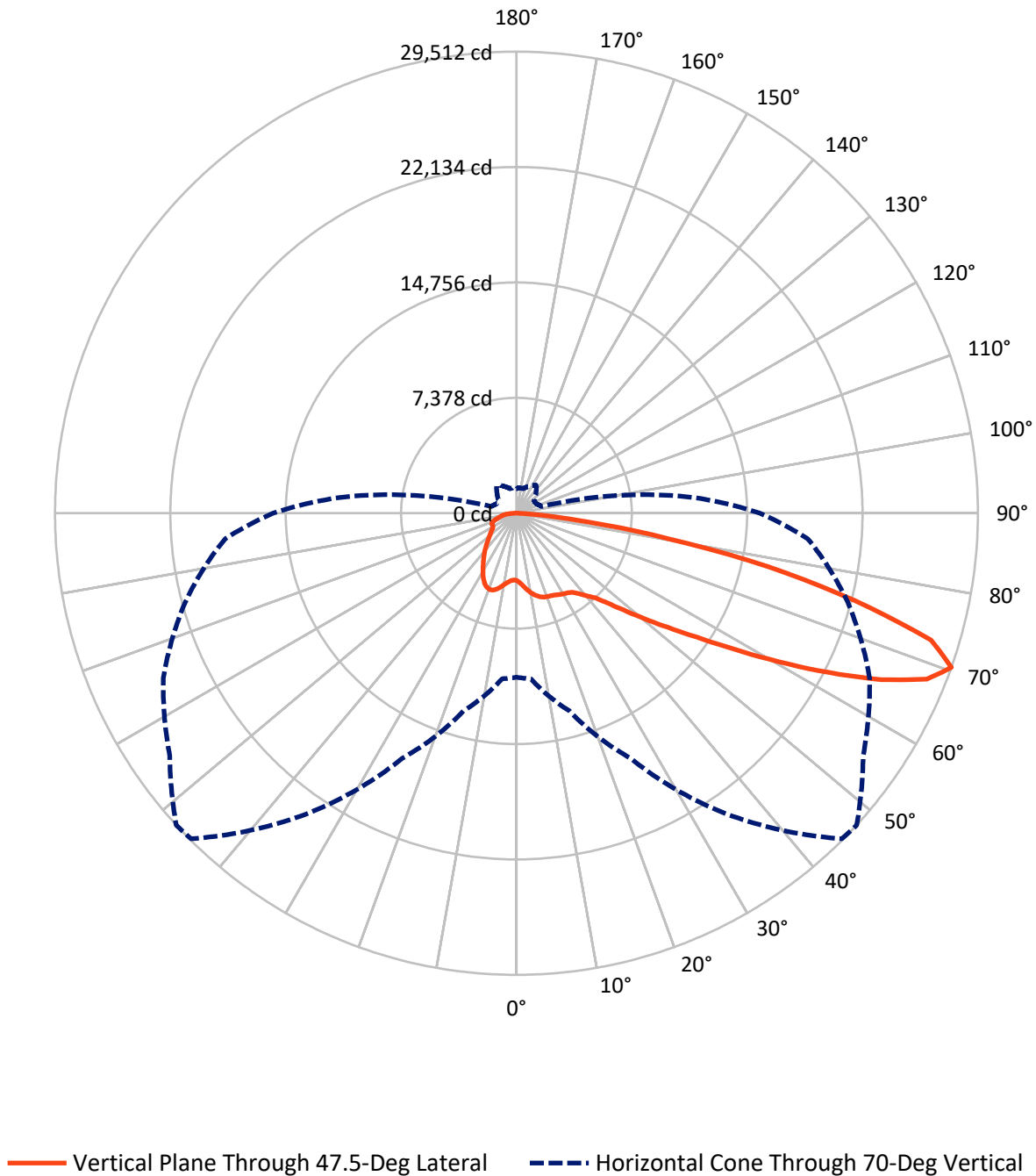


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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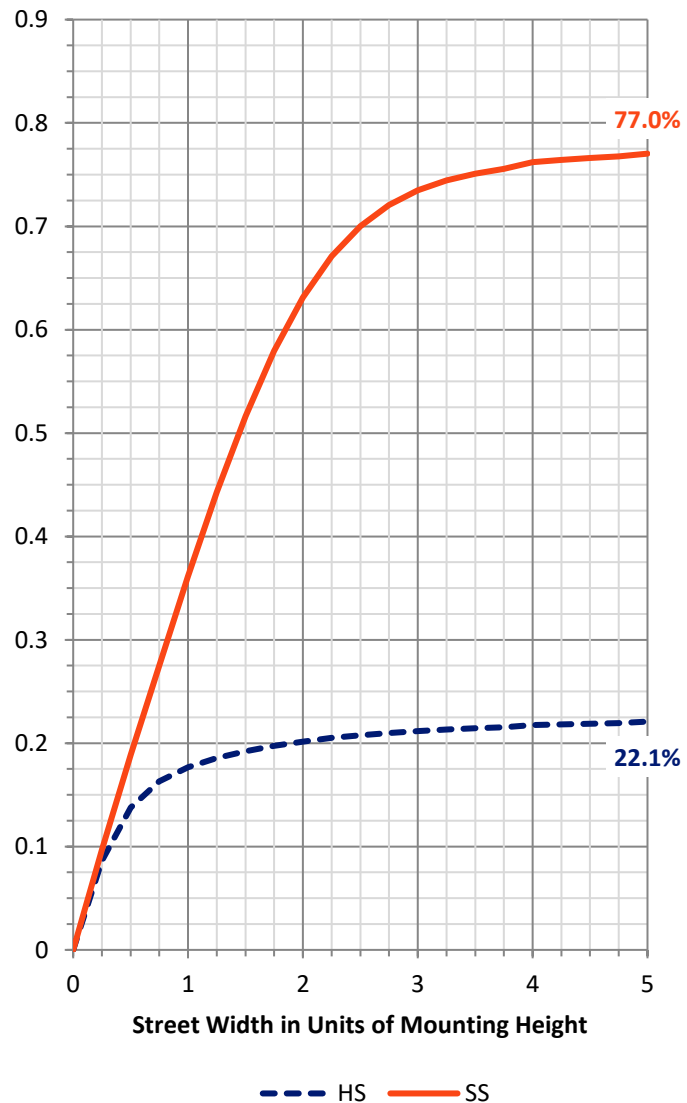
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9701.6	0.0	9701.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	33146.4	0.0	33146.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	42848.0	0.0	42848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.4	1.0
10°-20°	1482.3	3.5
20°-30°	2465.0	5.8
30°-40°	3493.8	8.2
40°-50°	5157.6	12.0
50°-60°	8933.1	20.8
60°-70°	12618.3	29.4
70°-80°	7253.7	16.9
80°-90°	1000.8	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°	42848.0	100.0
0°-180°	42848.0	100.0

Coefficient of Utilization



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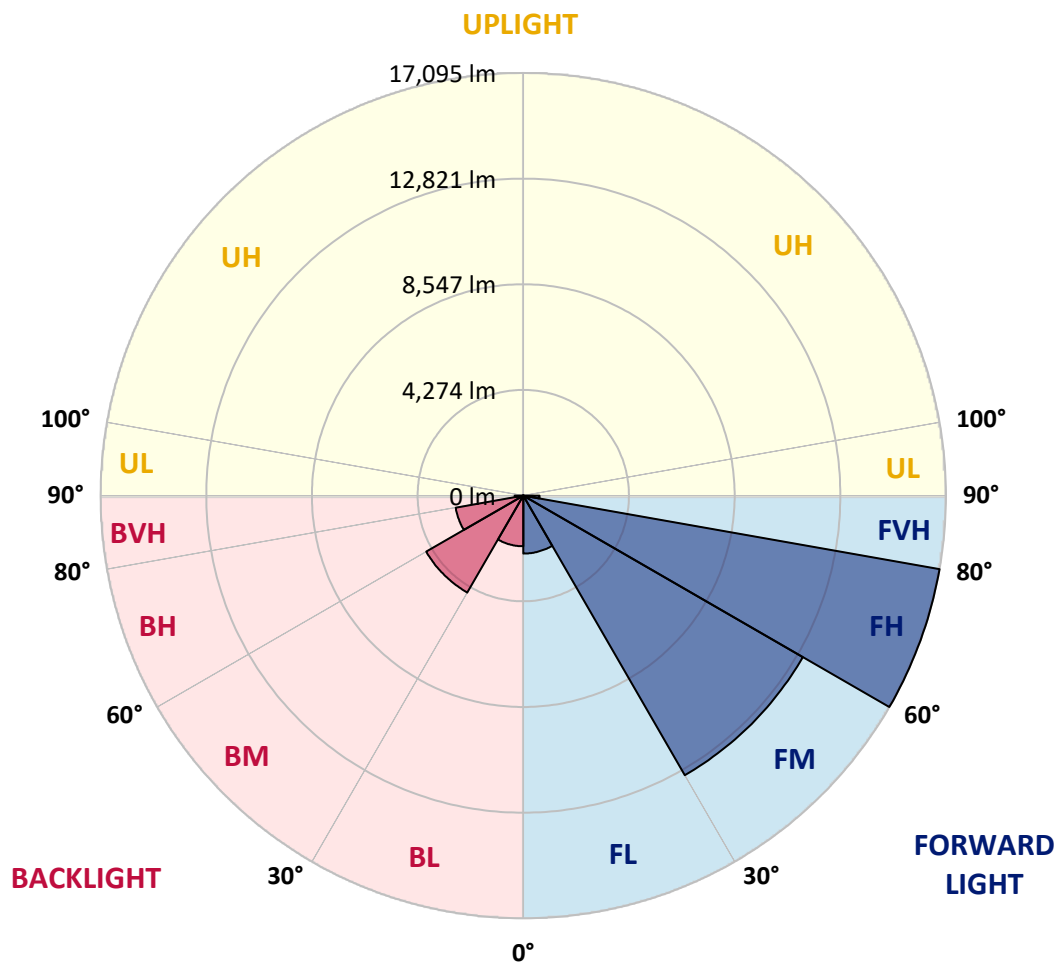
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2343.1	5.5			
FM	(30°-60°)	13055.0	30.5			
FH	(60°-80°)	17094.6	39.9			G5
FVH	(80°-90°)	653.8	1.5			G4/750
BL	(0°-30°)	2047.6	4.8	B3/2500		
BM	(30°-60°)	4529.5	10.6	B3/5000		
BH	(60°-80°)	2777.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	347.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-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°	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4
2.5°	4578.9	4562.8	4560.5	4526.1	4507.8	4473.4	4459.6	4427.5	4388.6	4349.6	4312.9
5°	4938.8	4938.8	4922.8	4874.6	4799.0	4721.0	4686.6	4624.7	4514.7	4425.2	4349.6
7.5°	5308.0	5312.6	5280.5	5209.4	5101.6	4975.5	4943.4	4851.7	4695.8	4565.1	4452.8
10°	5626.7	5626.7	5583.1	5486.8	5351.6	5214.0	5181.9	5078.7	4904.4	4741.7	4594.9
12.5°	5869.7	5869.7	5812.4	5686.3	5539.6	5415.8	5379.1	5280.5	5117.7	4936.5	4750.8
15°	6028.0	6016.5	5952.3	5810.1	5668.0	5560.2	5535.0	5452.4	5303.4	5120.0	4911.3
17.5°	6034.8	6030.2	5968.3	5849.1	5725.3	5651.9	5635.9	5580.8	5463.9	5289.7	5069.5
20°	5901.8	5911.0	5869.7	5784.9	5725.3	5693.2	5686.3	5668.0	5585.4	5422.6	5202.5
22.5°	5759.7	5775.7	5736.8	5690.9	5686.3	5718.4	5723.0	5727.6	5674.9	5516.6	5314.9
25°	5725.3	5736.8	5697.8	5656.5	5681.7	5766.6	5784.9	5803.3	5762.0	5629.0	5447.9
27.5°	5899.6	5890.4	5814.7	5725.3	5741.3	5856.0	5881.2	5901.8	5881.2	5766.6	5612.9
30°	6392.5	6362.7	6211.4	5950.0	5867.5	5947.7	5972.9	6030.2	6030.2	5945.4	5791.8
32.5°	7218.0	7160.6	6883.2	6369.6	6083.0	6034.8	6060.1	6154.1	6202.2	6135.7	5968.3
35°	8219.9	8160.3	7763.7	7073.5	6477.4	6209.1	6202.2	6307.7	6436.1	6287.0	6069.2
37.5°	9226.5	9164.6	8687.7	7912.7	7052.9	6576.0	6534.7	6571.4	6626.4	6353.5	6209.1
40°	10233.1	10159.7	9742.4	8850.5	7756.8	7062.0	6954.3	6789.2	6766.3	6571.4	6479.6
42.5°	11230.5	11164.0	10953.0	9902.9	8600.6	7536.7	7371.6	7087.3	7174.4	7057.5	6977.2
45°	12237.0	12241.6	12016.9	11083.7	9618.6	8412.5	8190.1	7745.3	7951.7	7908.1	7954.0
47.5°	13129.0	13117.5	13037.3	12230.2	10882.0	9540.6	9254.0	8738.1	9091.2	9251.7	9602.5
50°	13993.4	13986.5	13991.1	13530.2	12349.4	10882.0	10565.5	10024.4	10820.1	11377.2	12005.5
52.5°	15231.5	15270.5	14993.1	14871.6	14133.2	12466.3	12117.8	11558.4	12863.0	13741.2	14967.9
55°	16474.3	16442.2	16224.3	16350.5	15999.6	14341.9	13977.3	13532.5	15137.5	16098.2	17941.7
57.5°	17205.7	17217.2	17439.6	18056.3	18304.0	16680.6	16350.5	16006.5	17694.1	18375.1	20587.7
60°	17863.7	17916.5	18556.2	19721.0	20392.8	19553.6	19260.1	18925.3	20039.7	20310.2	22885.1
62.5°	18070.1	18232.9	19349.5	21092.1	22428.9	22795.7	22431.1	21692.8	22272.9	22167.5	24442.0
65°	17040.6	17263.0	19264.7	21605.7	24247.1	25872.7	25641.2	24270.0	24176.0	23540.9	24696.5
67.5°	14330.4	14552.8	17123.2	20528.1	24999.2	28537.1	28305.5	26150.2	25331.6	23669.3	22770.5
70°	10485.3	10625.2	13083.1	17283.7	23488.2	29431.3	29511.5	27067.3	24918.9	21924.4	18696.1
72.5°	6041.7	6351.2	8073.2	12159.1	19189.0	27170.5	27727.7	25159.7	22309.6	18290.2	13071.7
75°	2597.8	2604.7	3732.8	6706.6	12996.0	21839.6	22378.4	20855.9	17519.8	12647.5	6979.5
77.5°	1235.9	1258.8	1641.7	2994.5	7153.8	15089.4	16543.1	14734.0	11205.3	6076.1	2636.8
80°	802.5	818.6	1004.3	1485.8	3508.1	8749.6	9763.0	8499.7	4943.4	2171.3	1137.3
82.5°	486.1	490.7	671.8	908.0	1930.6	3962.1	4670.6	3689.2	2109.4	1300.1	669.5
85°	295.8	298.1	408.1	561.8	1171.7	1368.8	1405.5	1394.1	1238.1	850.7	357.7
87.5°	142.2	146.7	210.9	266.0	460.9	424.2	401.3	465.5	584.7	458.6	153.6
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°	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4	4301.4
2.5°	4296.8	4290.0	4273.9	4267.0	4262.4	4264.7	4262.4	4262.4	4264.7	4264.7	4264.7
5°	4317.5	4306.0	4280.8	4280.8	4294.5	4326.6	4356.5	4379.4	4404.6	4402.3	4402.3
7.5°	4406.9	4386.3	4356.5	4365.6	4400.0	4450.5	4503.2	4553.6	4604.1	4608.7	4606.4
10°	4537.6	4517.0	4484.9	4496.3	4551.3	4627.0	4693.5	4766.9	4821.9	4838.0	4833.4
12.5°	4686.6	4645.4	4617.8	4649.9	4737.1	4838.0	4902.2	4957.2	4996.2	5019.1	5009.9
15°	4838.0	4799.0	4766.9	4833.4	4938.8	5032.8	5064.9	5074.1	5081.0	5103.9	5099.3
17.5°	4984.7	4932.0	4920.5	5007.6	5108.5	5149.8	5131.4	5092.5	5062.7	5081.0	5078.7
20°	5115.4	5074.1	5069.5	5156.7	5195.6	5156.7	5078.7	5009.9	4957.2	4961.8	4959.5
22.5°	5239.2	5207.1	5211.7	5248.4	5186.5	5053.5	4925.1	4831.1	4773.8	4785.2	4792.1
25°	5376.8	5344.7	5356.1	5296.5	5092.5	4860.9	4675.2	4594.9	4572.0	4594.9	4611.0
27.5°	5555.6	5535.0	5528.1	5298.8	4925.1	4576.6	4365.6	4335.8	4356.5	4406.9	4432.1
30°	5748.2	5748.2	5711.5	5259.8	4695.8	4234.9	4051.5	4056.1	4127.2	4198.2	4223.5
32.5°	5933.9	5972.9	5858.3	5154.4	4400.0	3902.5	3762.6	3767.2	3829.1	3916.2	3939.2
35°	6087.6	6199.9	5984.4	4961.8	4051.5	3622.7	3517.3	3455.4	3457.6	3524.1	3542.5
37.5°	6298.5	6507.2	6057.8	4675.2	3680.1	3384.3	3265.0	3157.3	3086.2	3058.7	3058.7
40°	6665.4	6972.6	6076.1	4251.0	3329.2	3157.3	2987.6	2859.2	2721.6	2597.8	2574.9
42.5°	7286.7	7674.2	6039.4	3762.6	3012.8	2907.4	2742.3	2584.1	2393.8	2219.5	2205.7
45°	8387.3	8586.8	5940.8	3255.9	2730.8	2666.6	2506.1	2334.1	2132.4	1976.5	1965.0
47.5°	10150.5	9868.5	5810.1	2806.5	2474.0	2455.7	2331.8	2132.4	1930.6	1822.8	1811.4
50°	12725.4	11886.2	5791.8	2480.9	2267.6	2276.8	2175.9	1992.5	1816.0	1726.5	1712.8
52.5°	15825.4	14323.6	5913.3	2251.6	2086.5	2120.9	2070.5	1900.8	1744.9	1669.2	1655.5
55°	18833.6	16515.5	5986.7	2072.8	1916.8	1981.0	1987.9	1845.8	1703.6	1627.9	1618.8
57.5°	21275.5	18166.4	5661.1	1910.0	1770.1	1868.7	1919.1	1813.7	1683.0	1625.6	1616.5
60°	22974.6	18946.0	4734.8	1765.5	1662.3	1779.3	1893.9	1816.0	1733.4	1740.3	1744.9
62.5°	23515.7	18599.8	3551.7	1657.7	1589.0	1749.5	1935.2	1910.0	1825.1	1877.9	1887.0
65°	22619.2	17169.0	2574.9	1572.9	1524.8	1770.1	2059.0	1978.7	1793.0	1832.0	1832.0
67.5°	19617.8	14791.3	2004.0	1495.0	1451.4	1809.1	2182.8	1971.9	1717.4	1763.2	1721.9
70°	15561.7	11441.4	1669.2	1407.8	1373.4	1751.8	2194.3	1900.8	1627.9	1637.1	1559.2
72.5°	10327.1	7522.9	1435.3	1325.3	1254.2	1575.2	2100.3	1809.1	1540.8	1488.1	1410.1
75°	5060.4	3751.1	1251.9	1222.1	1098.3	1371.1	1971.9	1721.9	1446.8	1364.3	1320.7
77.5°	1960.4	1595.8	1068.5	1091.4	956.1	1208.3	1802.2	1598.1	1323.0	1210.6	1176.2
80°	951.5	905.7	875.9	910.3	786.5	1029.5	1646.3	1490.4	1208.3	1084.5	1034.1
82.5°	591.6	559.5	671.8	708.5	605.3	940.1	1561.4	1398.7	1063.9	898.8	857.5
85°	300.4	321.0	449.4	483.8	433.4	747.5	1286.3	1050.1	768.1	637.4	642.0
87.5°	114.6	153.6	236.2	254.5	231.6	394.4	708.5	612.2	493.0	334.8	309.5
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)