

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: P456414

Luminaire Tested: **GALN-SA7C-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39134 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
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

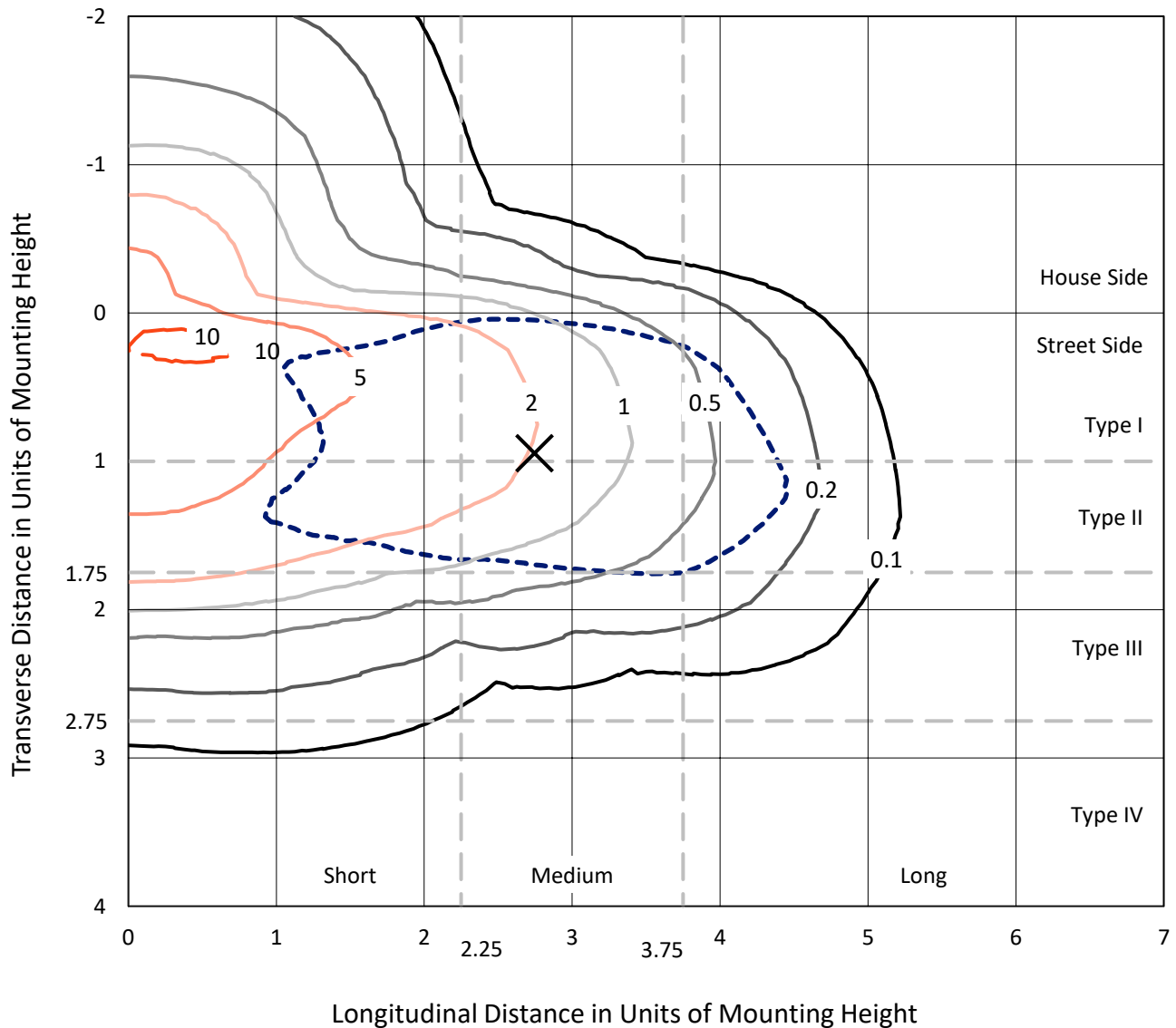


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

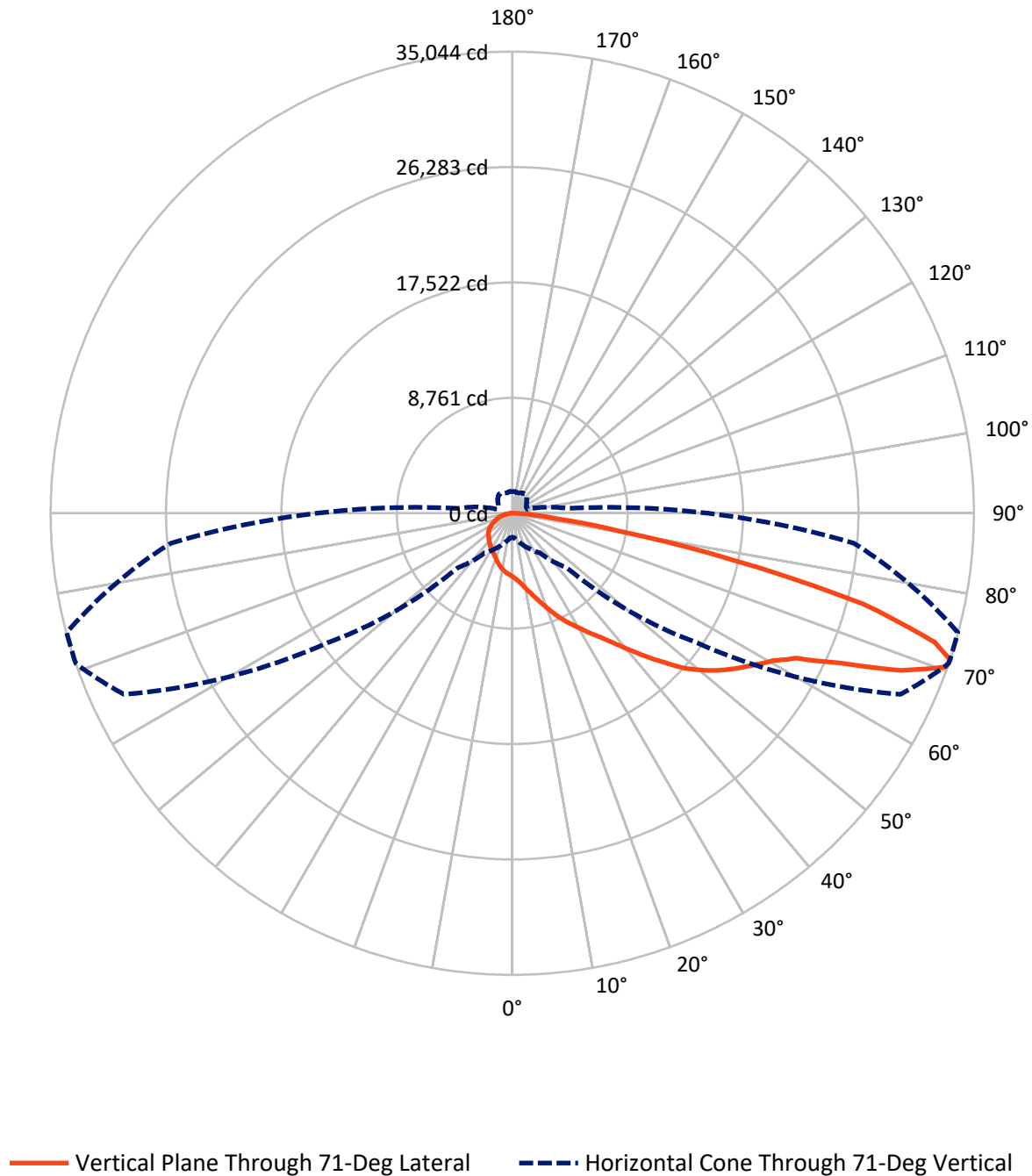


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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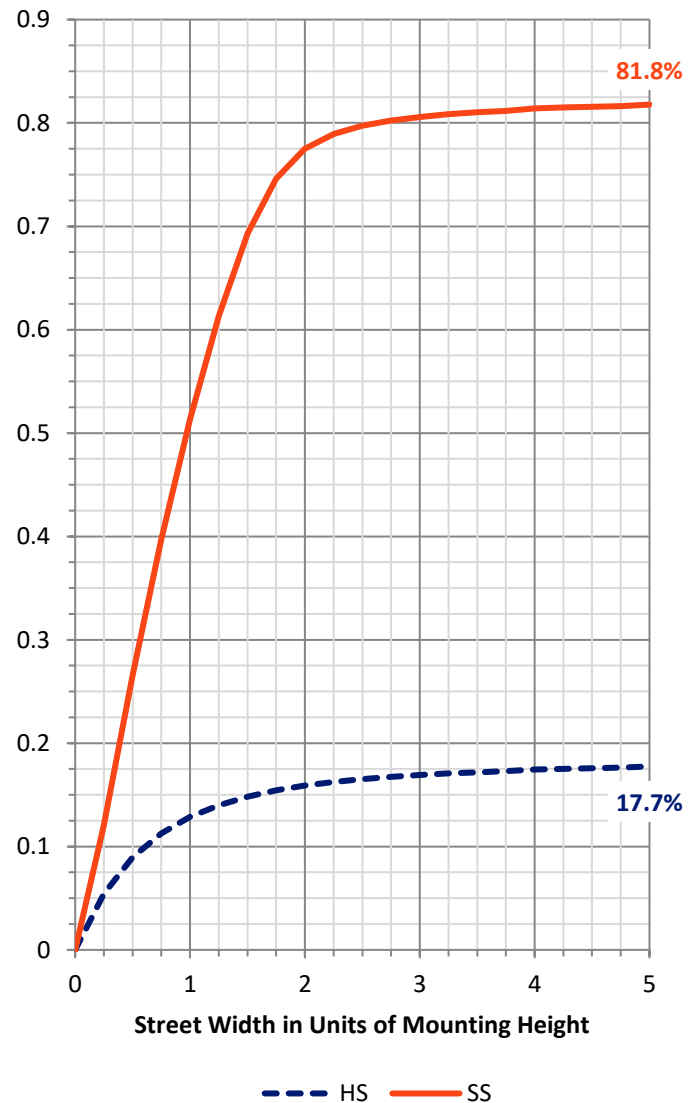
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7038.1	0.0	7038.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	32095.8	0.0	32095.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	39134.0	0.0	39134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.3	1.2
10°-20°	1566.8	4.0
20°-30°	2738.1	7.0
30°-40°	4072.5	10.4
40°-50°	6000.4	15.3
50°-60°	8400.6	21.5
60°-70°	9395.8	24.0
70°-80°	5739.3	14.7
80°-90°	738.3	1.9
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°	39134.0	100.0
0°-180°	39134.0	100.0

Coefficient of Utilization



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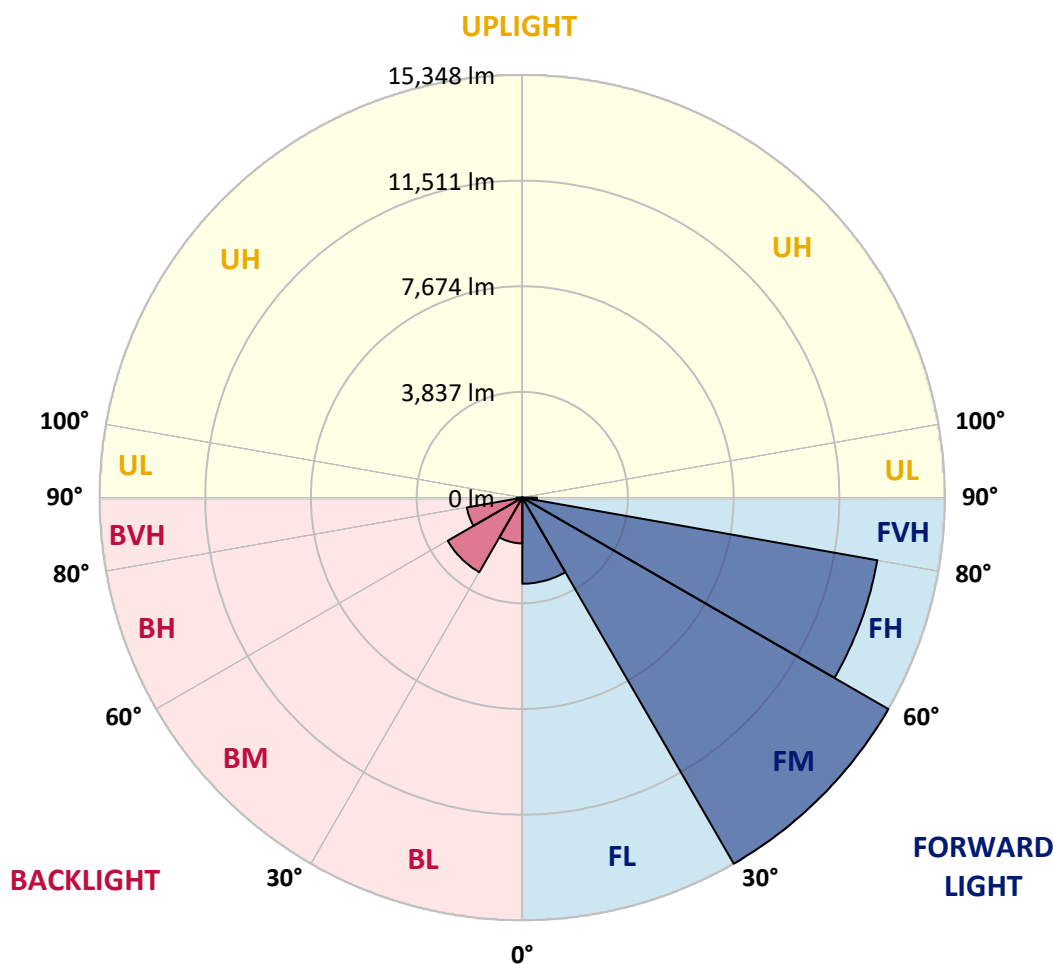
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3126.8	8.0			
FM	(30°-60°)	15347.6	39.2			
FH	(60°-80°)	13090.2	33.4			G5
FVH	(80°-90°)	531.2	1.4			G4/750
BL	(0°-30°)	1660.3	4.2	B3/2500		
BM	(30°-60°)	3125.9	8.0	B3/5000		
BH	(60°-80°)	2044.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	207.1	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9
2.5°	5332.0	5306.2	5308.4	5271.8	5224.5	5172.9	5099.7	5035.2	4983.6	4953.5	4865.3
5°	5908.5	5882.7	5850.4	5770.8	5736.4	5609.5	5448.2	5301.9	5190.1	5127.7	4951.3
7.5°	6375.2	6368.8	6360.2	6315.0	6226.8	6050.4	5912.8	5659.0	5493.4	5375.1	5073.9
10°	6663.4	6674.2	6680.6	6689.3	6652.7	6560.2	6370.9	6050.4	5839.7	5689.1	5233.1
12.5°	6809.7	6820.5	6857.0	6936.6	6986.1	6975.3	6820.5	6506.4	6216.1	6018.2	5403.0
15°	6900.0	6917.2	6981.8	7087.2	7252.8	7358.2	7282.9	6992.5	6674.2	6439.8	5605.2
17.5°	6999.0	7018.3	7089.3	7239.9	7457.1	7685.1	7766.8	7517.3	7171.1	6891.4	5831.0
20°	7054.9	7080.7	7181.8	7379.7	7633.5	7964.7	8235.7	8104.5	7726.0	7416.3	6091.3
22.5°	7145.2	7166.7	7252.8	7463.6	7766.8	8182.0	8704.6	8676.7	8343.3	7943.2	6377.4
25°	7390.4	7424.9	7467.9	7594.8	7887.3	8403.5	9093.9	9287.5	8941.2	8493.8	6639.8
27.5°	7852.9	7880.8	7878.7	7895.9	8061.5	8594.9	9431.6	9891.9	9534.9	9050.9	6893.6
30°	8379.8	8390.6	8399.2	8360.5	8397.1	8790.7	9741.4	10489.9	10132.8	9623.1	7115.1
32.5°	9020.8	9042.3	8969.2	8870.3	8840.1	9081.0	9997.3	11087.8	10840.5	10203.8	7334.5
35°	9777.9	9833.8	9685.4	9511.2	9388.6	9498.3	10341.5	11698.7	11565.3	10945.9	7624.9
37.5°	10642.6	10711.4	10573.8	10231.8	10057.5	10087.7	10791.0	12453.6	12481.6	11791.2	8057.2
40°	11350.2	11440.6	11444.9	10960.9	10696.4	10730.8	11361.0	13266.7	13587.1	12836.5	8567.0
42.5°	11817.0	11905.1	11997.6	11713.7	11436.3	11632.0	12025.6	14148.5	14830.4	14105.5	9278.9
45°	12328.9	12408.5	12460.1	12331.0	12176.2	12683.8	12827.9	15086.3	16155.3	15522.9	10057.5
47.5°	12922.5	13010.7	13060.2	12937.6	12879.5	13606.5	13692.5	15961.7	17570.6	16899.5	10917.9
50°	13714.0	13780.7	13754.9	13677.5	13664.6	14314.1	14522.8	16781.2	18738.5	18381.5	11810.5
52.5°	14699.1	14778.7	14806.7	14697.0	14647.5	14819.6	15191.7	17527.6	19801.0	19654.8	12763.4
55°	15294.9	15421.8	15847.7	16019.8	16138.1	15473.5	15912.2	18351.4	20753.9	20996.9	13787.2
57.5°	14531.4	14694.8	15647.7	16508.0	17620.1	17108.1	16933.9	19211.7	21706.7	22298.2	15013.2
60°	12668.7	12705.3	13933.4	15518.6	17755.6	19209.6	19065.4	20579.7	22739.2	23610.3	16628.5
62.5°	8788.5	8865.9	10317.8	12847.2	16082.2	19966.7	22691.8	22941.3	24219.0	25574.0	18996.6
65°	4531.9	4430.8	5753.6	8074.4	12124.5	18168.5	25629.9	27284.0	27428.1	28645.5	22330.5
67.5°	2789.7	2834.9	3454.3	4714.7	7168.9	13204.3	25322.4	32590.2	31830.9	32416.0	25425.6
70°	2095.0	2150.9	2576.8	3226.3	4370.6	7549.6	20364.6	33876.4	34936.8	34786.3	26367.7
71°	1821.8	1879.9	2323.0	2936.0	3671.6	5826.7	17157.6	32530.0	35044.4	35018.6	26012.8
72.5°	1552.9	1589.5	1935.8	2486.4	3095.1	4084.5	12890.3	29174.6	33549.5	34407.7	24745.9
75°	1219.6	1247.5	1402.4	1897.1	2437.0	2507.9	6917.2	21872.4	27555.0	29189.7	20601.2
77.5°	993.7	1013.1	1092.6	1408.8	1879.9	1776.6	3628.5	14236.7	17263.0	18908.4	12135.3
80°	789.4	810.9	858.2	955.0	1408.8	1266.9	1731.5	7214.1	8339.0	8321.8	4843.8
82.5°	613.0	619.5	675.4	701.2	963.6	899.1	937.8	3054.3	3383.3	3495.2	1748.7
85°	387.2	406.5	597.9	537.7	576.4	527.0	462.4	1213.1	1494.9	1473.4	699.0
87.5°	118.3	124.8	202.2	228.0	256.0	230.1	169.9	357.0	436.6	473.2	174.2
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°	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9	4802.9
2.5°	4830.9	4807.2	4723.3	4654.5	4590.0	4519.0	4458.8	4441.6	4426.5	4420.1	4417.9
5°	4876.1	4805.1	4639.5	4504.0	4396.4	4297.5	4235.1	4207.1	4179.2	4179.2	4187.8
7.5°	4940.6	4811.5	4555.6	4353.4	4217.9	4125.4	4080.2	4075.9	4082.4	4088.8	4091.0
10°	5011.6	4807.2	4433.0	4181.3	4060.9	4017.9	4020.0	4056.6	4091.0	4116.8	4121.1
12.5°	5080.4	4781.4	4288.9	4020.0	3942.6	3951.2	4011.4	4093.1	4159.8	4196.4	4198.5
15°	5157.8	4740.6	4114.6	3867.3	3841.5	3908.2	4020.0	4144.8	4245.8	4306.1	4312.5
17.5°	5222.3	4671.7	3931.8	3718.9	3751.1	3873.7	4028.6	4189.9	4312.5	4387.8	4400.7
20°	5295.5	4583.5	3742.5	3576.9	3669.4	3835.0	4011.4	4185.6	4312.5	4385.7	4402.9
22.5°	5353.6	4458.8	3561.9	3460.8	3596.3	3787.7	3953.3	4093.1	4196.4	4235.1	4260.9
25°	5377.2	4301.8	3391.9	3366.1	3538.2	3710.3	3822.1	3901.7	3934.0	3929.7	3940.4
27.5°	5364.3	4121.1	3245.7	3290.9	3465.1	3589.8	3645.8	3639.3	3581.2	3527.5	3553.3
30°	5310.5	3906.0	3123.1	3213.4	3370.4	3439.3	3430.7	3346.8	3237.1	3136.0	3142.4
32.5°	5213.7	3673.7	3009.1	3125.2	3237.1	3267.2	3209.1	3099.4	2942.4	2811.2	2791.8
35°	5132.0	3452.2	2908.0	3024.1	3103.7	3088.7	3032.7	2890.8	2748.8	2632.7	2613.3
37.5°	5119.1	3262.9	2811.2	2910.1	2955.3	2933.8	2865.0	2744.5	2692.9	2604.7	2594.0
40°	5187.9	3129.5	2712.3	2789.7	2811.2	2794.0	2718.7	2649.9	2697.2	2675.7	2675.7
42.5°	5375.1	3058.6	2624.1	2669.2	2686.5	2699.4	2645.6	2587.5	2645.6	2546.6	2514.4
45°	5671.9	3060.7	2544.5	2550.9	2602.6	2647.7	2611.2	2525.1	2495.0	2297.1	2258.4
47.5°	6108.5	3133.8	2480.0	2439.1	2531.6	2606.9	2555.3	2430.5	2297.1	2165.9	2142.3
50°	6618.3	3265.0	2421.9	2323.0	2437.0	2555.3	2516.5	2370.3	2232.6	2153.0	2138.0
52.5°	7184.0	3430.7	2350.9	2193.9	2320.8	2531.6	2525.1	2361.7	2172.4	2118.6	2105.7
55°	7883.0	3594.1	2262.7	2043.3	2217.6	2512.2	2501.5	2290.7	2159.5	2120.8	2116.5
57.5°	8696.0	3830.7	2135.8	1890.6	2099.3	2432.7	2409.0	2247.7	2116.5	2088.5	2086.4
60°	10005.9	4198.5	1955.2	1750.8	1978.8	2292.8	2323.0	2174.5	2047.6	2041.2	2039.0
62.5°	11728.8	4714.7	1768.0	1606.7	1839.0	2112.2	2198.2	2075.6	1974.5	2006.8	2011.1
65°	14107.7	5149.2	1574.4	1484.1	1684.1	1937.9	2079.9	1983.1	1892.8	1955.2	1955.2
67.5°	15658.4	5157.8	1398.1	1357.2	1527.1	1791.7	1955.2	1873.4	1787.4	1892.8	1897.1
70°	15335.8	4519.0	1251.8	1223.9	1374.4	1634.7	1817.5	1753.0	1654.0	1748.7	1714.3
71°	14815.3	4164.1	1193.7	1172.2	1314.2	1559.4	1753.0	1699.2	1600.3	1662.6	1643.3
72.5°	13985.1	3615.6	1099.1	1103.4	1223.9	1464.8	1662.6	1606.7	1507.8	1542.2	1535.7
75°	11821.3	3157.5	939.9	959.3	1051.8	1303.4	1482.0	1438.9	1337.9	1337.9	1331.4
77.5°	7390.4	2206.8	780.8	791.5	892.6	1116.3	1273.3	1236.8	1140.0	1107.7	1099.1
80°	2757.4	1140.0	610.9	623.8	686.1	879.7	1053.9	1019.5	920.6	884.0	849.6
82.5°	1043.2	572.1	449.5	438.8	505.5	671.1	825.9	785.1	707.6	619.5	593.6
85°	393.6	283.9	275.3	266.7	296.8	397.9	511.9	503.3	421.6	359.2	352.7
87.5°	103.2	92.5	107.5	79.6	83.9	75.3	77.4	32.3	15.1	6.5	4.3
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)