

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: P458261

Luminaire Tested: **GALN-SA9C-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50199 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 481
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

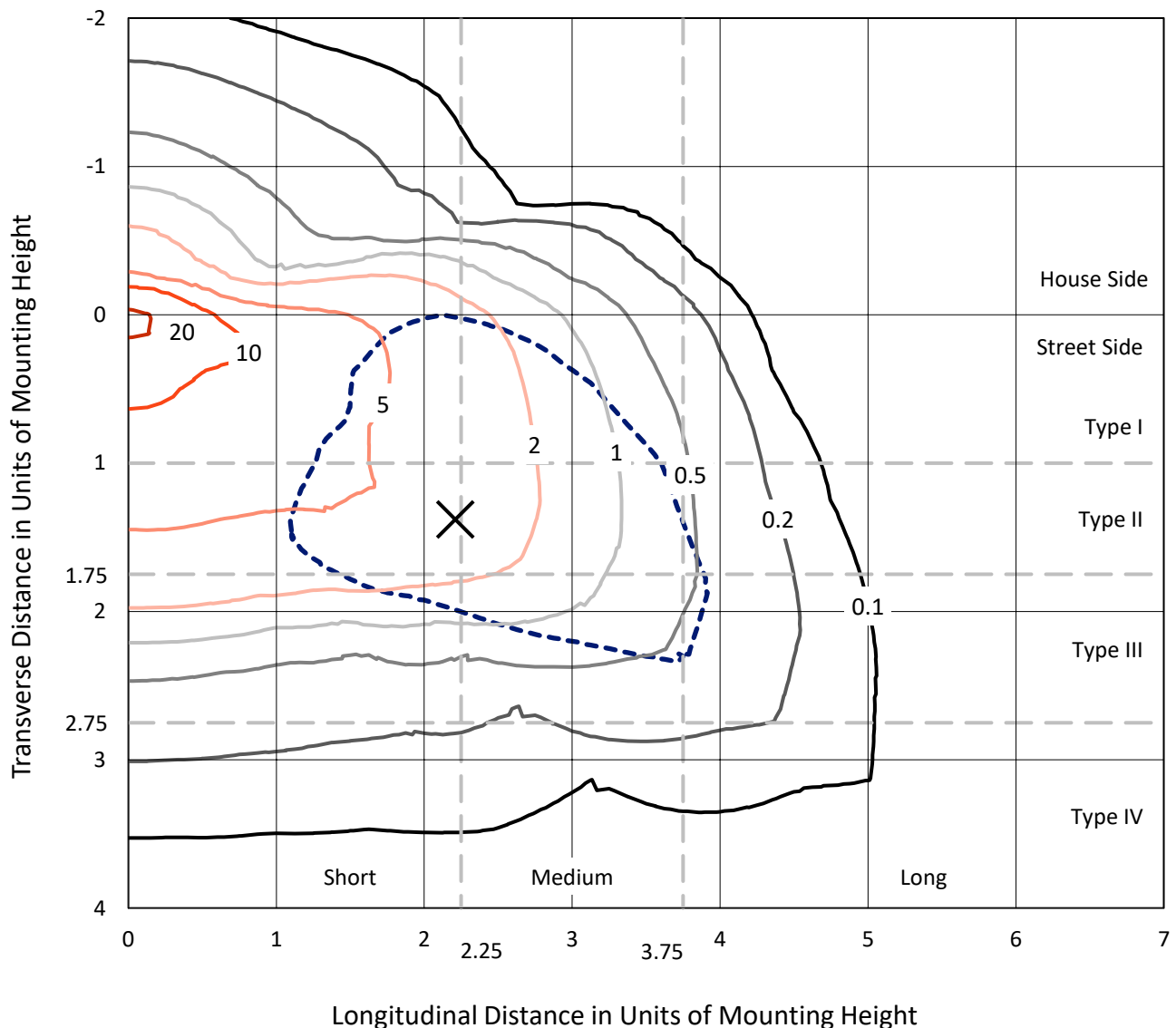


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Iso-Footcandle Lines of Horizontal Illumination

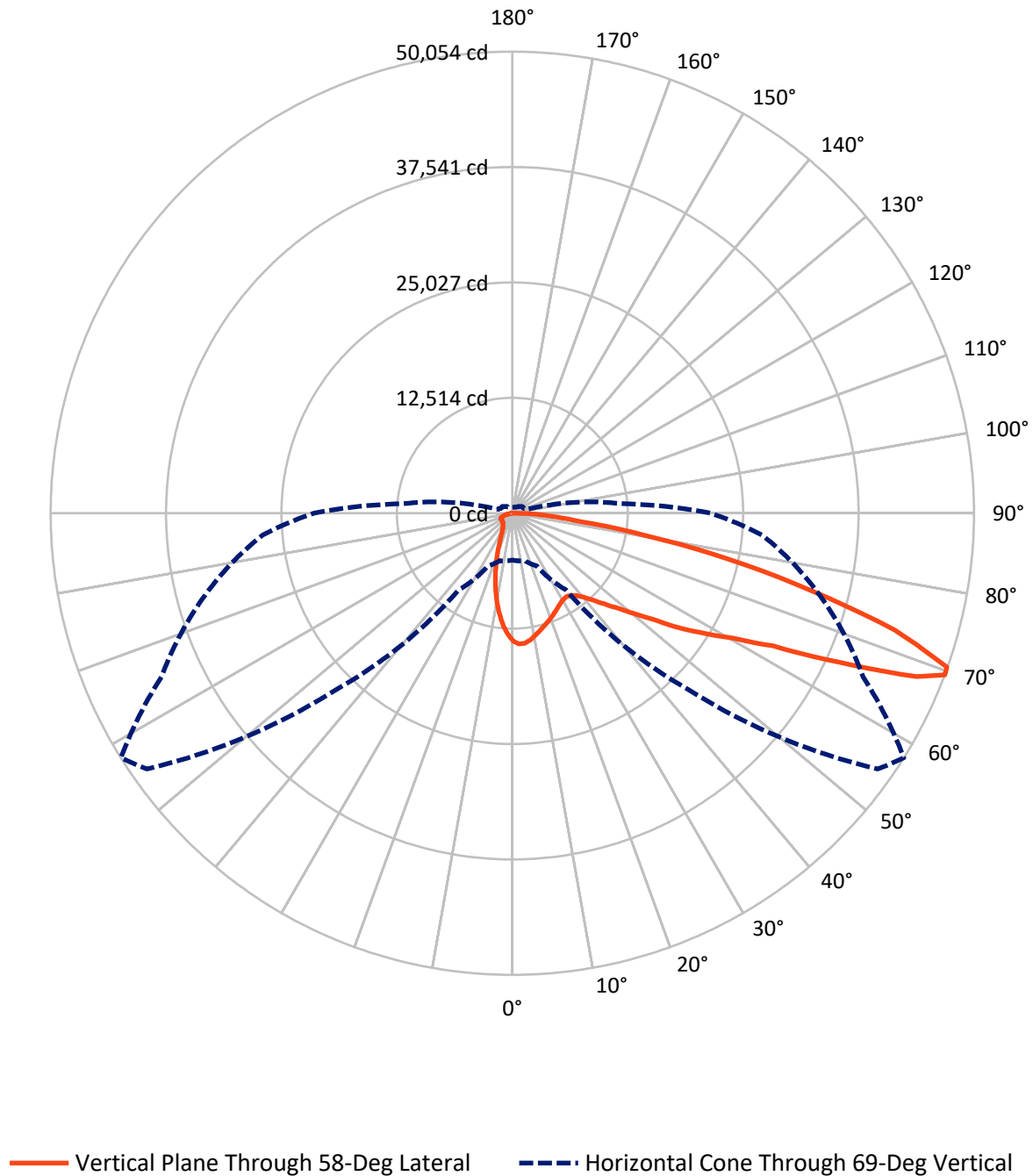
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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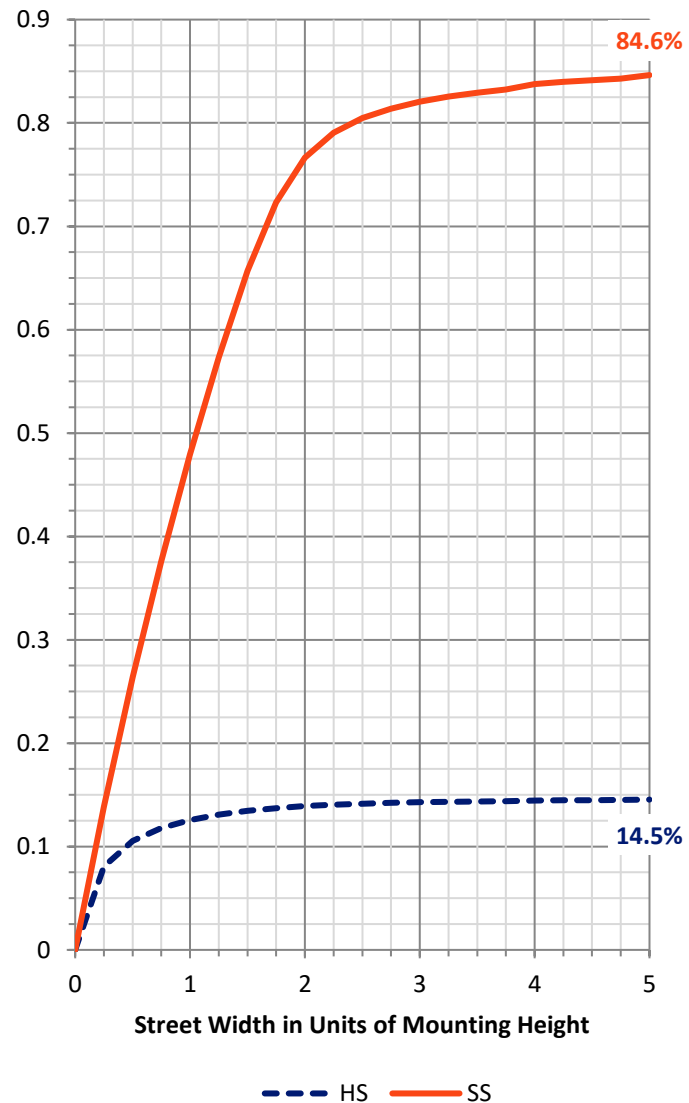
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7356.7	0.0	7356.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	42842.3	0.0	42842.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	50199.0	0.0	50199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1178.1	2.3
10°-20°	2586.9	5.2
20°-30°	3342.2	6.7
30°-40°	4340.9	8.6
40°-50°	6311.1	12.6
50°-60°	10070.4	20.1
60°-70°	13452.8	26.8
70°-80°	7755.0	15.4
80°-90°	1161.5	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°	50199.0	100.0
0°-180°	50199.0	100.0

Coefficient of Utilization



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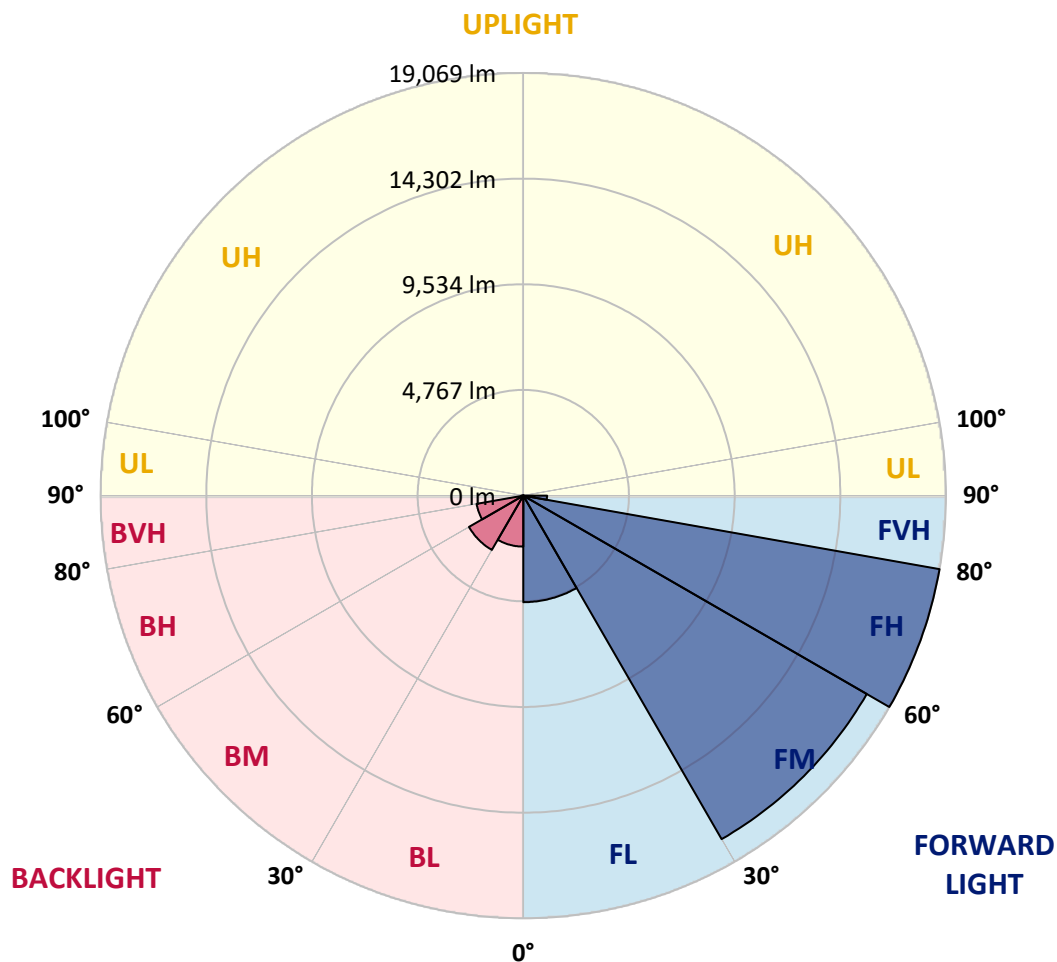
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4807.8	9.6			
FM	(30°-60°)	17893.3	35.6			
FH	(60°-80°)	19068.7	38.0			G5
FVH	(80°-90°)	1072.6	2.1			G5
BL	(0°-30°)	2299.4	4.6	B3/2500		
BM	(30°-60°)	2829.1	5.6	B3/5000		
BH	(60°-80°)	2139.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	89.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1
2.5°	14387.2	14426.4	14415.2	14401.2	14378.8	14317.2	14216.4	14199.6	14135.2	13998.0	13827.3
5°	14166.0	14199.6	14202.4	14222.0	14250.0	14238.8	14166.0	14157.6	14062.4	13877.7	13592.1
7.5°	13407.3	13452.1	13550.1	13659.3	13757.3	13849.7	13872.1	13886.1	13827.3	13614.5	13233.8
10°	12553.4	12598.2	12643.0	12805.4	13046.2	13275.7	13466.1	13491.3	13505.3	13309.3	12844.6
12.5°	11607.2	11699.6	11794.8	12035.5	12357.5	12718.6	13054.6	13107.8	13203.0	13054.6	12508.7
15°	10803.7	10898.9	11036.1	11251.6	11640.8	12161.5	12634.6	12721.4	12909.0	12833.4	12195.1
17.5°	10246.6	10280.2	10375.4	10621.7	11041.7	11590.4	12223.1	12396.7	12696.2	12676.6	11926.3
20°	9807.0	9849.0	9907.8	10059.0	10495.7	11075.3	11839.5	12063.5	12469.5	12536.7	11660.4
22.5°	9622.3	9653.1	9644.7	9725.8	10022.6	10604.9	11450.4	11716.4	12267.9	12441.5	11414.0
25°	9633.5	9661.5	9619.5	9599.9	9776.2	10190.6	11044.5	11383.2	12105.5	12377.1	11190.0
27.5°	9821.0	9840.6	9762.2	9683.8	9697.8	9933.0	10708.5	11083.7	11968.3	12405.1	11002.5
30°	10073.0	10109.4	10059.0	9963.8	9860.2	9871.4	10492.9	10862.5	11903.9	12503.1	10912.9
32.5°	10397.7	10431.3	10408.9	10333.4	10199.0	10050.6	10439.7	10781.3	11909.5	12701.8	10893.3
35°	10739.3	10806.5	10842.9	10837.3	10728.1	10470.5	10649.7	10932.5	12043.9	13035.0	11008.1
37.5°	11125.6	11181.6	11338.4	11439.2	11338.4	11038.9	11122.8	11318.8	12340.7	13516.5	11260.0
40°	11500.8	11584.8	11814.4	12127.9	12088.7	11825.6	11845.1	11973.9	12864.2	14233.2	11752.8
42.5°	11892.7	11993.5	12393.9	12858.6	12951.0	12746.6	12799.8	12914.6	13608.9	15227.1	12598.2
45°	12396.7	12517.1	13009.8	13589.3	13953.3	13827.3	13978.4	14034.4	14605.6	16520.5	13712.5
47.5°	13046.2	13186.2	13793.7	14516.0	15031.1	15145.9	15409.1	15375.5	15840.2	18051.9	15157.1
50°	14140.8	14219.2	14793.1	15529.4	16237.7	16755.7	17041.2	17094.4	17371.6	19541.3	16772.5
52.5°	15442.6	15512.6	15927.0	16570.9	17458.4	18555.8	19261.3	19087.7	19154.9	21355.4	18662.2
55°	16906.8	17024.4	17287.6	17715.9	18866.6	20481.9	21898.5	21940.5	21195.8	23091.2	20473.5
57.5°	18040.7	18239.5	18690.2	19300.5	20759.1	22623.6	24527.4	24555.4	23603.5	24944.5	22472.5
60°	17469.6	17704.7	18735.0	20221.6	23242.4	26361.1	27668.5	27509.0	25946.8	27055.4	24910.9
62.5°	15005.9	15047.9	16545.7	18869.4	24006.7	31361.2	32343.9	31669.2	29073.9	29731.9	27388.6
65°	9711.8	9986.2	11173.2	14429.2	21495.4	34135.6	40535.5	38976.2	33458.1	32769.4	29463.1
67.5°	6131.1	6061.2	6553.9	8239.3	14784.7	31691.6	47526.2	47279.8	39191.7	34687.2	28967.6
69°	5084.1	5162.5	5330.5	6315.9	10173.8	27058.2	48352.1	50054.2	41971.7	34536.0	27167.4
70°	4611.0	4647.4	4823.7	5599.2	7850.1	22662.8	46997.0	49978.6	43063.6	33903.3	25862.8
72.5°	3659.1	3656.3	3958.6	4658.6	5868.0	12937.0	38589.8	43391.1	41843.0	30958.1	21369.4
75°	2780.0	2824.8	3158.0	3941.9	5406.0	7069.0	26929.4	33416.1	33418.9	24451.8	13334.5
77.5°	2004.5	2032.5	2421.7	3309.1	5092.5	5730.8	17937.1	23967.5	22531.3	11204.0	4191.0
80°	1313.0	1329.8	1626.6	2620.4	4591.4	5406.0	10635.7	14670.0	10627.3	2973.2	1385.8
82.5°	719.5	803.5	993.9	1696.6	3684.3	4994.5	6464.3	7424.6	3986.6	1324.2	722.3
85°	361.1	383.5	559.9	991.1	2407.7	4132.2	4501.8	4258.2	2057.7	657.9	375.1
87.5°	106.4	134.4	232.4	383.5	977.1	2152.9	2505.7	2248.1	792.3	238.0	78.4
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°	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1	13872.1
2.5°	13757.3	13706.9	13482.9	13281.3	13096.6	12900.6	12735.4	12589.8	12603.8	12606.6	12458.3
5°	13443.7	13328.9	12903.4	12505.9	12169.9	11744.4	11380.4	11145.2	11027.7	10870.9	10926.9
7.5°	13018.2	12797.0	12206.3	11545.6	10926.9	10375.4	9776.2	9364.7	9101.5	8846.8	8880.4
10°	12578.6	12223.1	11363.6	10490.1	9689.4	8807.6	8043.3	7388.2	6901.0	6719.1	6598.7
12.5°	12127.9	11660.4	10568.5	9406.7	8300.8	7245.4	6161.9	5459.2	4921.7	4636.2	4672.5
15°	11716.4	11148.0	9739.8	8323.2	6887.0	5630.0	4549.4	3880.3	3505.1	3426.7	3471.5
17.5°	11335.6	10590.9	8964.3	7270.6	5593.6	4221.8	3418.3	3040.4	2889.2	2847.2	2844.4
20°	10943.7	10117.8	8093.7	6145.1	4359.0	3272.7	2805.2	2628.8	2600.8	2617.6	2620.4
22.5°	10546.1	9532.7	7197.8	5028.1	3471.5	2676.4	2452.5	2404.9	2427.3	2466.5	2472.1
25°	10179.4	9017.5	6335.5	4048.2	2771.6	2351.7	2242.5	2242.5	2292.9	2351.7	2354.5
27.5°	9877.0	8519.2	5476.0	3214.0	2320.9	2116.5	2080.1	2099.7	2169.7	2214.5	2217.3
30°	9627.9	8054.5	4664.1	2575.6	2040.9	1928.9	1920.5	1954.1	2004.5	2046.5	2049.3
32.5°	9440.3	7645.7	3905.5	2164.1	1847.7	1786.2	1783.4	1808.5	1836.5	1847.7	1858.9
35°	9367.5	7307.0	3211.2	1903.7	1719.0	1679.8	1679.8	1677.0	1688.2	1693.8	1699.4
37.5°	9426.3	7046.6	2673.6	1735.8	1623.8	1595.8	1579.0	1562.2	1556.6	1556.6	1559.4
40°	9675.5	6909.4	2273.3	1626.6	1556.6	1514.6	1483.8	1464.2	1444.6	1450.2	1455.8
42.5°	10204.6	6934.6	2001.7	1553.8	1497.8	1439.0	1394.2	1371.8	1357.8	1374.6	1371.8
45°	11047.3	7186.6	1828.1	1503.4	1439.0	1363.4	1321.4	1299.0	1299.0	1324.2	1332.6
47.5°	12225.9	7668.1	1735.8	1464.2	1394.2	1304.6	1262.6	1245.8	1251.4	1293.4	1296.2
50°	13664.9	8505.2	1719.0	1444.6	1371.8	1262.6	1215.0	1198.2	1212.2	1257.0	1262.6
52.5°	15252.3	9583.1	1800.1	1447.4	1352.2	1237.4	1175.8	1150.6	1164.6	1201.0	1212.2
55°	17133.6	10932.5	2010.1	1458.6	1324.2	1223.4	1147.8	1091.8	1108.6	1133.8	1136.6
57.5°	19054.1	12634.6	2379.7	1461.4	1301.8	1198.2	1100.2	1027.5	1027.5	1044.3	1052.7
60°	21400.2	14488.0	2866.8	1464.2	1304.6	1161.8	1035.9	954.7	943.5	951.9	954.7
62.5°	23729.5	16039.0	2948.0	1455.8	1332.6	1125.4	965.9	881.9	862.3	859.5	853.9
65°	24756.9	15750.6	2416.1	1416.6	1363.4	1103.0	909.9	811.9	778.3	767.1	767.1
67.5°	23082.8	13323.3	1816.9	1363.4	1343.8	1080.6	856.7	753.1	713.9	691.5	691.5
69°	21509.4	11850.7	1632.2	1327.0	1293.4	1044.3	823.1	722.3	674.7	649.5	641.1
70°	20294.4	10837.3	1553.8	1296.2	1245.8	1002.3	797.9	699.9	646.7	618.7	613.1
72.5°	16195.7	8502.4	1360.6	1178.6	1061.1	842.7	708.3	629.9	579.5	548.7	540.3
75°	9333.9	4608.2	1128.2	1024.7	853.9	655.1	599.1	548.7	509.5	481.5	473.1
77.5°	2872.4	1780.6	817.5	809.1	627.1	506.7	478.7	459.1	431.1	400.3	394.7
80°	1209.4	907.1	554.3	545.9	417.1	352.8	344.4	341.6	330.4	305.2	296.8
82.5°	663.5	512.3	386.3	336.0	252.0	204.4	212.8	215.6	207.2	182.0	165.2
85°	324.8	280.0	187.6	151.2	114.8	72.8	70.0	84.0	78.4	56.0	61.6
87.5°	64.4	78.4	50.4	22.4	11.2	0.0	0.0	0.0	0.0	0.0	0.0
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)