

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: P534420

Luminaire Tested: **GALN-SA9D-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

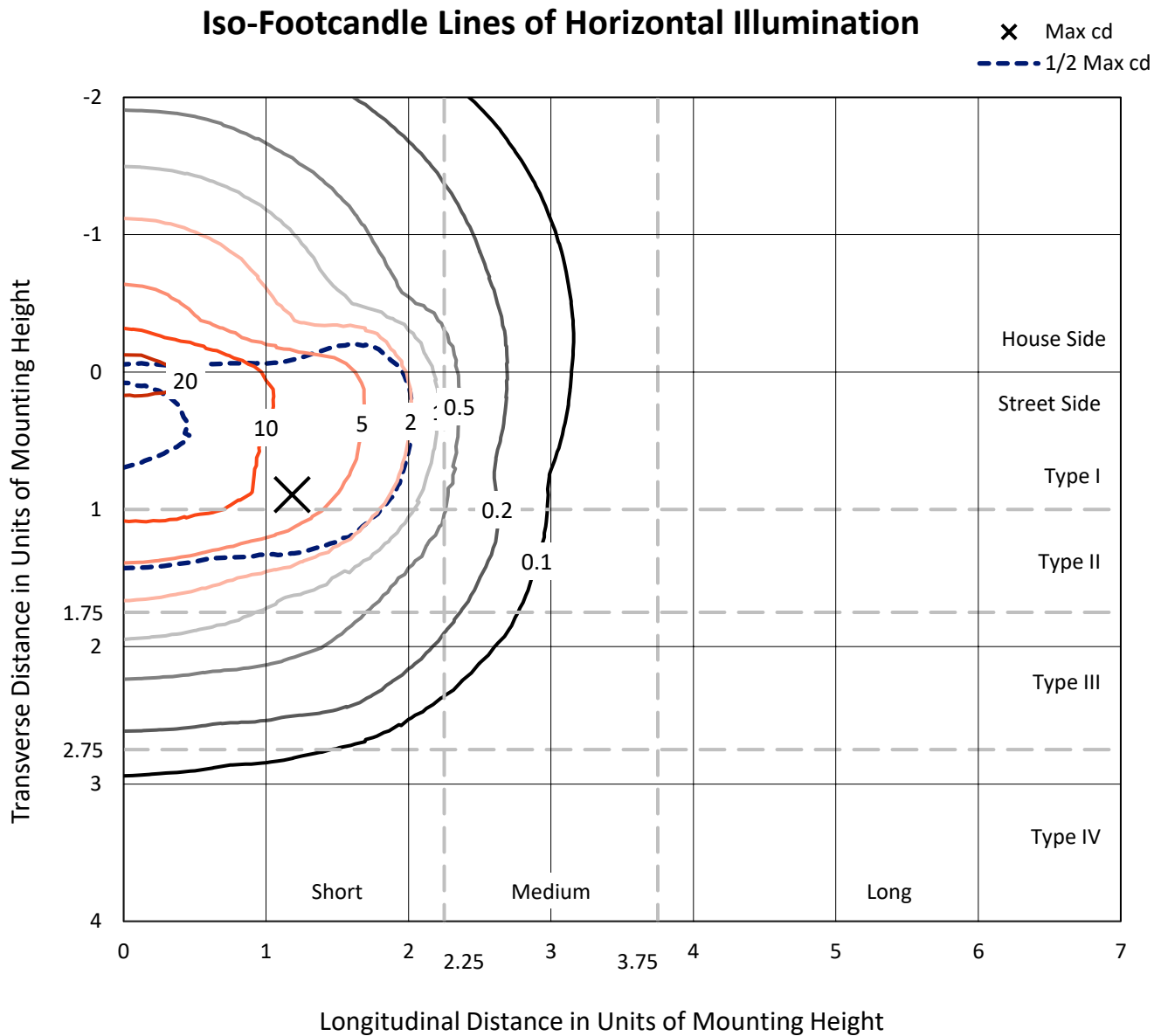
Lumens per Lamp: N/A
Luminaire Lumens: 47235 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 552
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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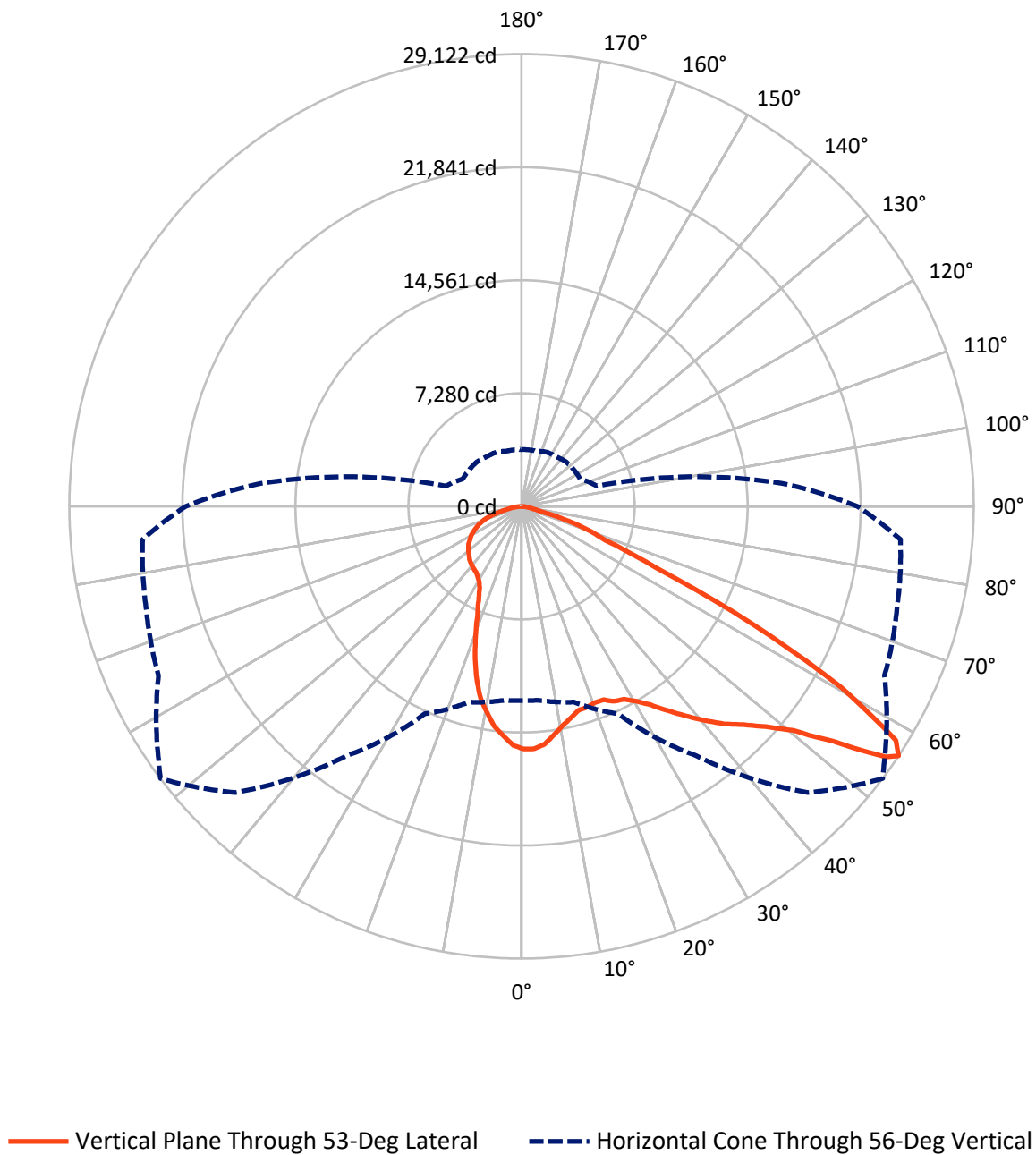


Based on 25 foot mounting height. Maximum calculated value = 25 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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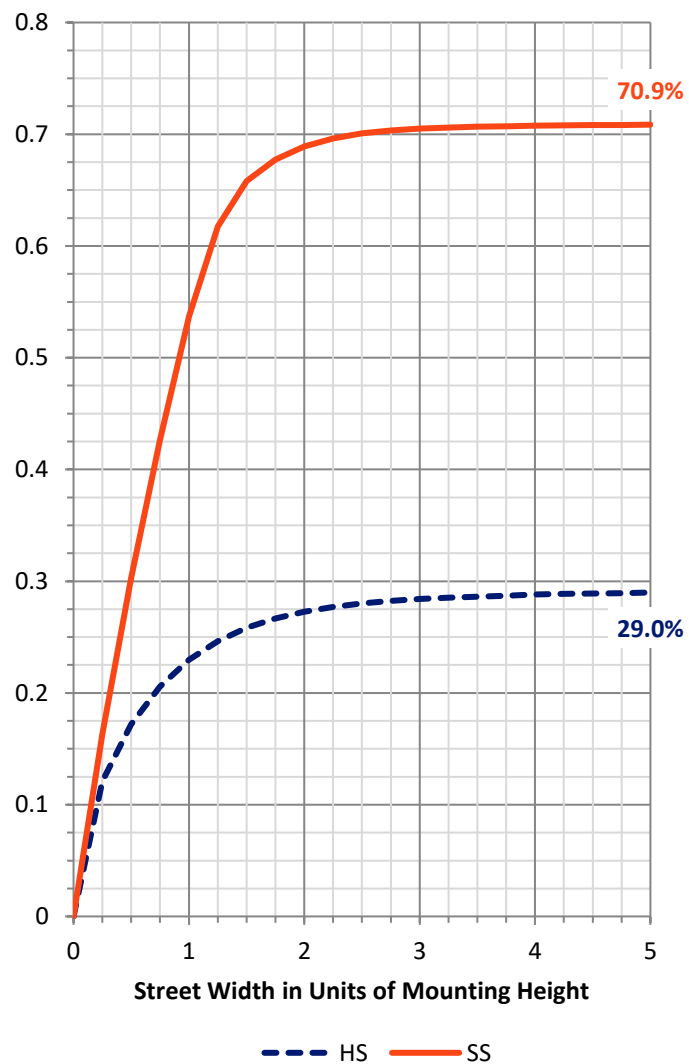
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13784.2	0.0	13784.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	33450.8	0.0	33450.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	47235.0	0.0	47235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1383.4	2.9
10°-20°	3455.3	7.3
20°-30°	5095.1	10.8
30°-40°	7279.9	15.4
40°-50°	10019.8	21.2
50°-60°	11840.7	25.1
60°-70°	6310.3	13.4
70°-80°	1600.9	3.4
80°-90°	249.6	0.5
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°	47235.0	100.0
0°-180°	47235.0	100.0

Coefficient of Utilization



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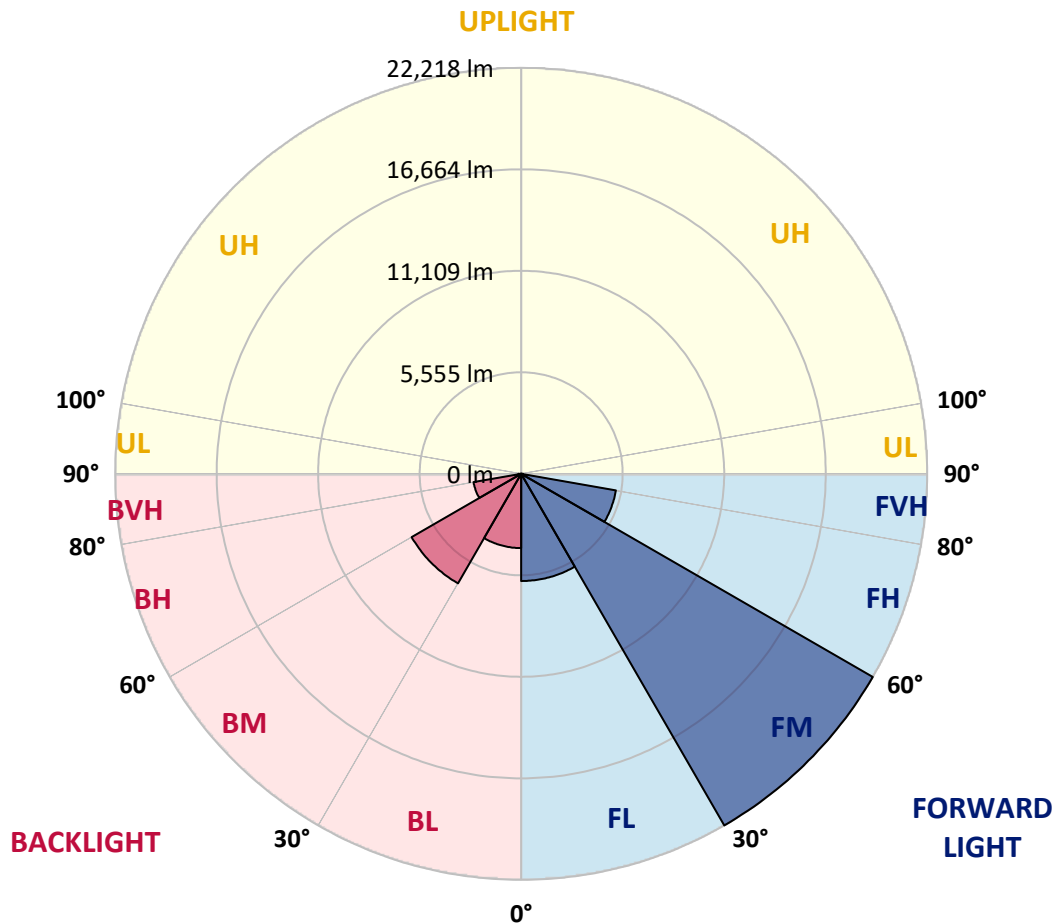
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5868.3	12.4			
FM	(30°-60°)	22218.4	47.0			
FH	(60°-80°)	5263.8	11.1			G3/7500
FVH	(80°-90°)	100.3	0.2			G2/225
BL	(0°-30°)	4065.5	8.6	B4/5000		
BM	(30°-60°)	6922.0	14.7	B4/8500		
BH	(60°-80°)	2647.4	5.6	B4/5000		G4/5000
BVH	(80°-90°)	149.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2
2.5°	15433.3	15300.0	15378.8	15348.5	15596.9	15669.6	15633.3	15663.6	15802.9	15736.3	15596.9
5°	14421.4	14609.2	14645.6	14736.5	14881.9	15166.7	15390.9	15451.5	15518.1	15827.2	15796.9
7.5°	13500.3	13627.6	13560.9	13827.6	14142.6	14603.2	14875.8	14924.3	15536.3	15706.0	15833.2
10°	12918.6	12791.4	13094.4	13167.1	13524.6	14051.8	14379.0	14578.9	15136.4	15809.0	15887.8
12.5°	12379.4	12336.9	12518.7	12724.7	13124.7	13670.0	14003.3	14082.1	14942.5	15651.4	16021.1
15°	11979.4	11931.0	12112.7	12264.2	12730.8	13215.6	13639.7	13863.9	14730.4	15560.5	15905.9
17.5°	11664.4	11658.3	11761.3	12034.0	12512.7	12918.6	13603.4	13615.5	14621.3	15699.9	16002.9
20°	11646.2	11640.1	11658.3	11961.3	12397.5	12894.4	13488.2	13597.3	14621.3	15603.0	16008.9
22.5°	11797.7	11700.7	11809.8	12003.7	12318.8	12936.8	13530.6	13773.0	14972.8	16081.7	16281.6
25°	12040.0	12064.3	12124.9	12191.5	12373.3	13033.8	13906.3	14106.3	15384.8	16493.7	16657.3
27.5°	12482.4	12470.3	12494.5	12530.8	12688.4	13124.7	14057.8	14572.9	16245.3	17226.9	17063.3
30°	13130.7	13088.3	13185.3	13312.5	13167.1	13415.5	14560.7	14948.5	17045.1	17966.1	17517.7
32.5°	13718.5	13876.0	14057.8	14112.3	13936.6	13985.1	15227.3	15621.1	17711.6	18875.0	18075.2
35°	14451.7	14578.9	14821.3	14991.0	14960.7	14815.2	16136.2	16657.3	18675.1	19541.6	18663.0
37.5°	15166.7	15318.2	15718.1	16221.0	15942.3	15875.6	17105.7	17535.9	18972.0	19899.1	19093.2
40°	16318.0	16311.9	17002.7	17263.2	17511.7	17396.5	18111.6	18257.0	19129.5	19820.3	19105.3
42.5°	17669.2	17584.4	18287.3	18693.3	19014.4	19026.5	19159.8	19111.4	19202.2	19420.4	18978.0
45°	18953.8	19135.6	19844.5	20571.7	20892.8	20929.2	20044.5	19953.6	19329.5	19305.3	18735.7
47.5°	20523.2	20565.6	21147.3	22104.7	22850.0	22595.5	21189.7	20989.8	19887.0	20074.8	19141.7
50°	20614.1	20929.2	21450.3	22577.3	24867.8	24801.1	22674.3	22298.6	20783.8	21165.5	20274.8
52.5°	18711.4	18638.7	19256.8	21098.8	24716.3	26994.6	25134.4	24237.6	22710.6	22419.8	22110.8
55°	14257.8	14427.4	14972.8	16833.0	21462.4	27024.9	28485.3	27752.1	24770.8	24274.0	23916.5
56°	12506.6	12530.8	13045.9	14742.5	19584.0	26061.5	29121.5	28527.7	25794.9	25037.5	24492.1
57.5°	10367.6	10228.3	10494.9	11422.0	16530.1	24025.5	28424.7	29006.4	26994.6	25861.5	25104.1
60°	8162.0	8131.7	8022.6	8192.3	10446.4	18099.4	23662.0	24970.8	26873.5	25085.9	24043.7
62.5°	6665.3	6513.9	6732.0	6974.4	7259.2	11228.1	16627.0	17396.5	21335.2	20026.3	18063.1
65°	5168.7	5096.0	5368.6	6156.4	6326.0	7131.9	9470.8	10064.7	12597.5	12373.3	10894.8
67.5°	3556.9	3569.0	3805.3	5005.1	5865.5	5792.8	5798.8	6107.9	6574.5	4883.9	4253.7
70°	2254.1	2248.0	2375.3	3223.6	4720.3	4768.7	4526.4	4435.5	4205.2	2544.9	2696.4
72.5°	1448.2	1405.8	1472.4	1781.5	2441.9	2823.7	2908.5	2963.0	2435.9	1999.6	2169.3
75°	818.0	775.6	751.4	830.1	963.4	1114.9	1224.0	1260.4	1411.8	1514.9	1605.7
77.5°	248.4	224.2	272.7	363.6	478.7	642.3	781.7	805.9	951.3	1072.5	1163.4
80°	109.1	121.2	169.7	242.4	339.3	454.5	551.4	587.8	684.7	775.6	799.8
82.5°	66.7	72.7	115.1	163.6	236.3	321.1	393.9	406.0	502.9	575.6	593.8
85°	24.2	30.3	60.6	97.0	151.5	206.0	206.0	224.2	206.0	206.0	224.2
87.5°	0.0	0.0	6.1	12.1	12.1	18.2	24.2	24.2	30.3	36.4	42.4
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°	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2	15627.2
2.5°	15669.6	15639.3	15590.8	15415.1	15396.9	15342.4	15039.4	14991.0	15039.4	14894.0	14906.1
5°	15639.3	15730.2	15366.6	15190.9	14863.7	14627.4	14354.7	14215.4	13966.9	13809.4	13985.1
7.5°	15772.6	15736.3	15281.8	14900.1	14409.3	13809.4	13330.7	13058.0	12621.7	12500.5	12591.4
10°	15724.2	15530.2	14997.0	14494.1	13567.0	13039.8	12264.2	11512.9	11100.8	10888.7	10858.4
12.5°	15657.5	15603.0	14712.2	13845.7	12870.2	11761.3	10670.6	9961.7	9289.1	8998.2	9040.6
15°	15736.3	15275.8	14179.0	13082.3	11785.5	10331.3	9155.8	8240.8	7774.2	7586.4	7586.4
17.5°	15699.9	15118.2	13924.5	12227.9	10585.8	8864.9	7574.3	7022.8	6828.9	6828.9	6883.5
20°	15718.1	15221.2	13409.5	11373.5	9167.9	7465.2	6526.0	6326.0	6410.8	6441.1	6471.4
22.5°	15821.1	14881.9	12906.5	10434.3	7853.0	6386.6	5926.1	5932.2	6083.6	6247.2	6216.9
25°	15948.3	14748.6	12294.5	9501.1	6847.1	5859.4	5714.0	5695.8	5811.0	5895.8	5907.9
27.5°	15839.3	14518.3	11670.4	8337.7	6023.0	5508.0	5477.7	5489.8	5526.2	5695.8	5641.3
30°	16196.8	14585.0	10888.7	7362.2	5568.6	5392.9	5356.5	5338.3	5392.9	5441.3	5398.9
32.5°	16639.1	14348.7	10307.0	6423.0	5344.4	5308.0	5235.3	5211.1	5241.4	5192.9	5217.1
35°	16833.0	14306.2	9549.6	5750.4	5168.7	5138.4	5096.0	5089.9	5096.0	5053.5	5017.2
37.5°	16942.1	14506.2	8683.1	5441.3	5059.6	5089.9	4992.9	4980.8	4871.8	4896.0	4914.2
40°	17129.9	14197.2	7980.2	5144.4	4992.9	4932.4	4847.5	4829.3	4756.6	4714.2	4756.6
42.5°	16857.3	14106.3	7289.5	5017.2	4896.0	4829.3	4768.7	4665.7	4641.5	4605.1	4580.9
45°	16639.1	13585.2	6671.4	4859.6	4780.9	4744.5	4629.4	4520.3	4429.4	4465.8	4411.2
47.5°	16802.7	13403.4	6059.4	4726.3	4623.3	4580.9	4465.8	4380.9	4290.1	4247.6	4235.5
50°	17457.1	13742.7	5544.4	4629.4	4490.0	4465.8	4314.3	4217.3	4132.5	4102.2	4114.3
52.5°	19020.5	14669.8	5192.9	4429.4	4362.8	4253.7	4168.9	4047.7	3993.1	3896.2	3956.8
55°	21001.9	16178.6	5102.0	4241.6	4205.2	4108.3	3993.1	3902.3	3799.2	3720.5	3702.3
56°	21638.1	16899.7	5029.3	4168.9	4108.3	4053.7	3902.3	3847.7	3684.1	3665.9	3653.8
57.5°	22153.2	17535.9	5041.4	4029.5	3968.9	3920.4	3829.5	3696.2	3587.2	3520.5	3550.8
60°	20989.8	16414.9	4811.2	3817.4	3805.3	3714.4	3587.2	3526.6	3393.3	3314.5	3296.3
62.5°	15603.0	11143.2	3902.3	3544.8	3538.7	3441.7	3296.3	3229.7	3205.4	3096.4	3096.4
65°	8986.1	6986.5	3375.1	3320.6	3272.1	3175.1	3029.7	2975.2	2914.6	2878.2	2847.9
67.5°	3835.6	3623.5	3066.1	3060.0	3005.5	2884.3	2738.9	2654.0	2575.2	2502.5	2538.9
70°	2781.3	2823.7	2769.1	2738.9	2672.2	2520.7	2393.5	2290.5	2169.3	2120.8	2157.1
72.5°	2205.6	2296.5	2375.3	2381.3	2302.6	2126.9	1987.5	1848.1	1714.8	1648.2	1678.5
75°	1672.4	1733.0	1811.8	1829.9	1714.8	1593.6	1460.3	1314.9	1211.9	1133.1	1145.2
77.5°	1205.8	1193.7	1266.4	1254.3	1199.8	1114.9	993.7	860.4	745.3	672.6	678.7
80°	824.1	842.3	884.7	878.6	812.0	757.4	666.5	557.5	472.6	412.0	399.9
82.5°	575.6	605.9	642.3	612.0	557.5	502.9	436.3	357.5	290.9	242.4	230.3
85°	206.0	236.3	272.7	290.9	309.0	296.9	248.4	200.0	145.4	121.2	115.1
87.5°	42.4	48.5	54.5	54.5	54.5	48.5	42.4	42.4	36.4	18.2	18.2
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)