

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: P455243

Luminaire Tested: **GALN-SA6B-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26764 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 243
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

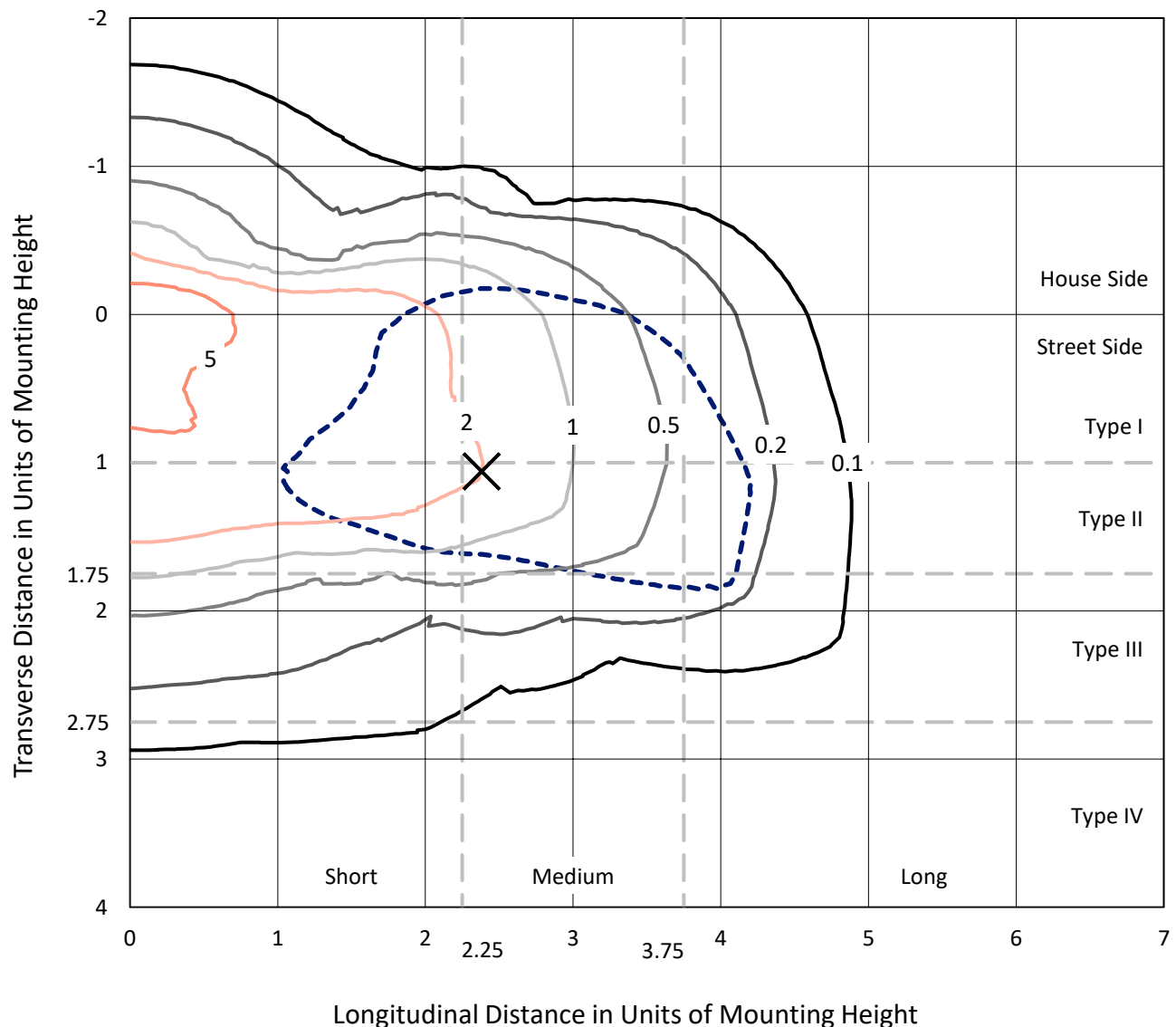


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

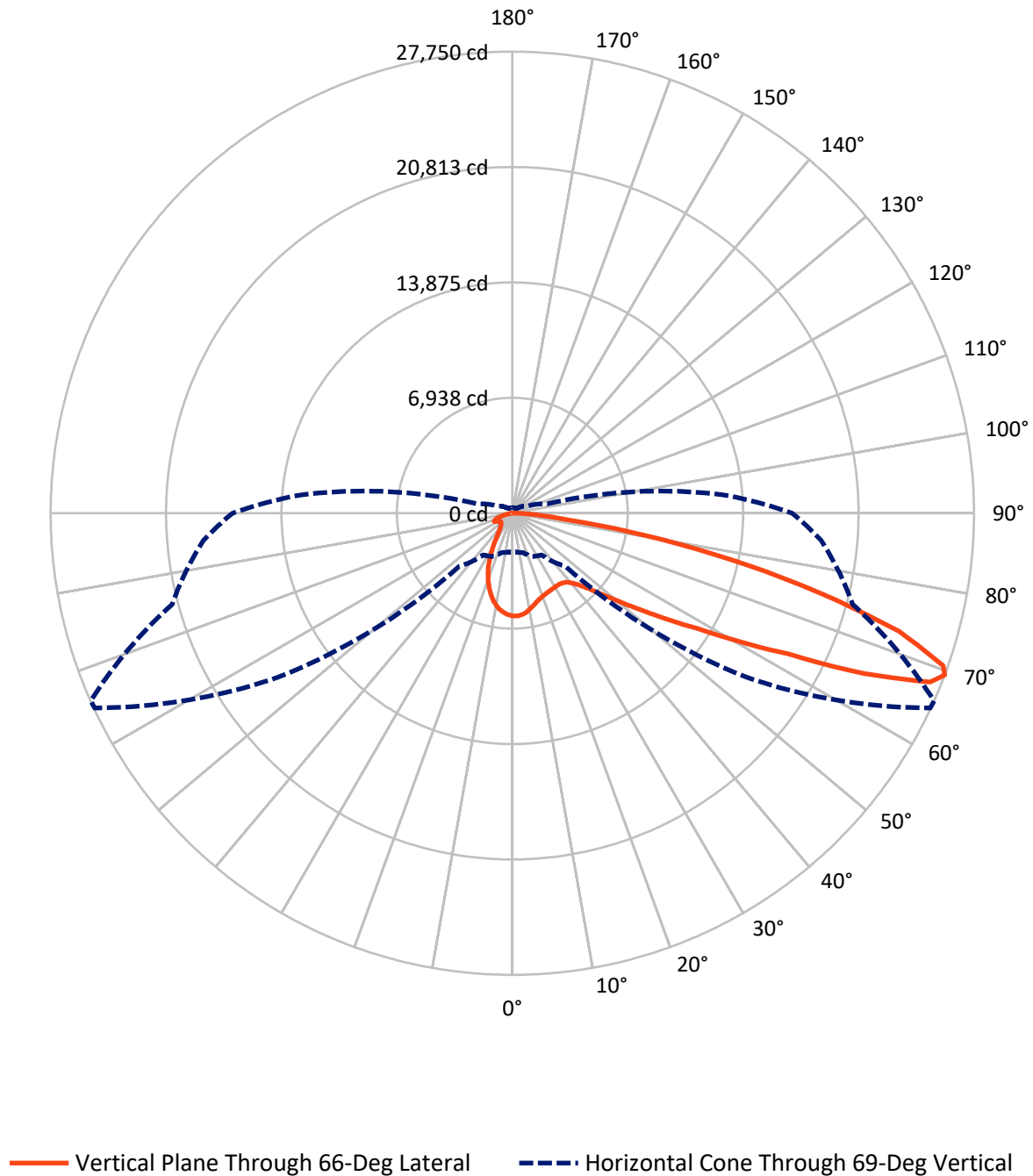


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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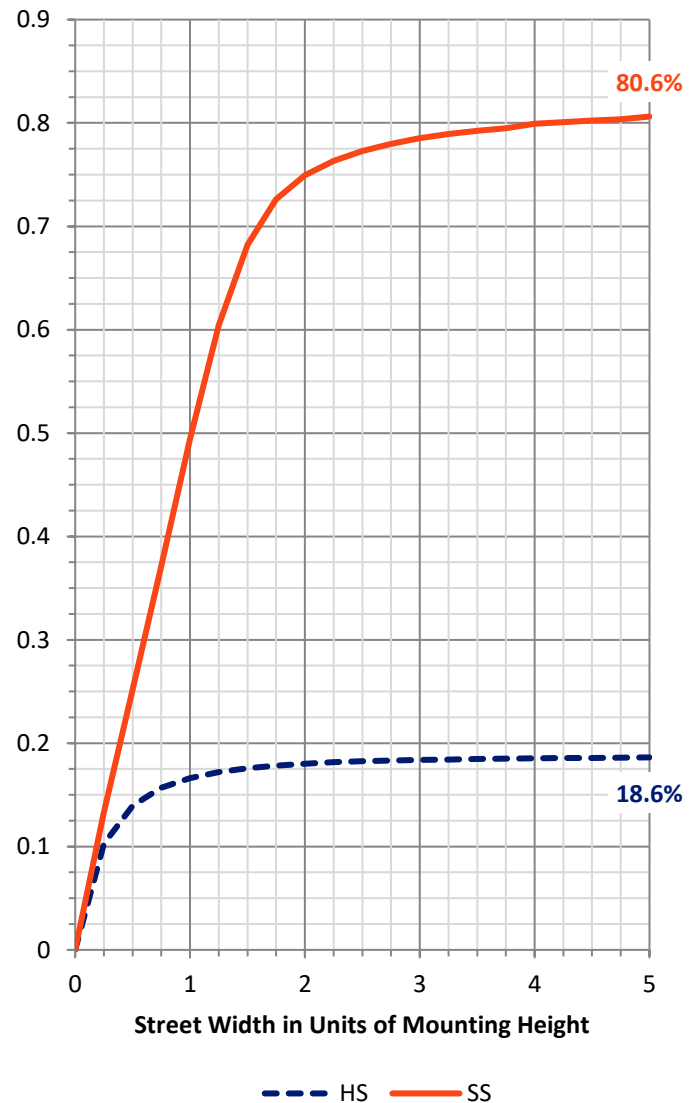
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5033.3	0.0	5033.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21730.7	0.0	21730.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	26764.0	0.0	26764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.7	2.0
10°-20°	1273.0	4.8
20°-30°	1733.1	6.5
30°-40°	2328.9	8.7
40°-50°	3477.4	13.0
50°-60°	5531.4	20.7
60°-70°	6803.3	25.4
70°-80°	4426.5	16.5
80°-90°	653.7	2.4
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°	26764.0	100.0
0°-180°	26764.0	100.0

Coefficient of Utilization



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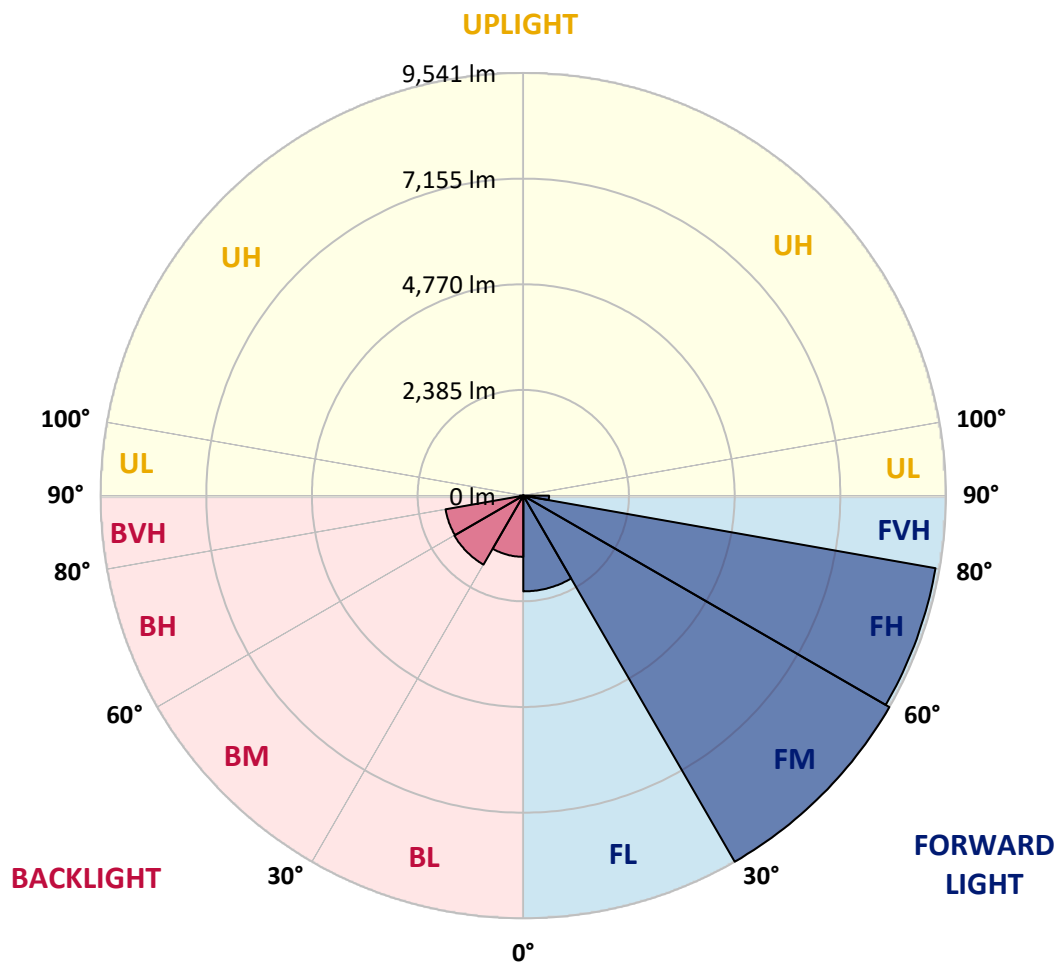
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2161.2	8.1			
FM	(30°-60°)	9540.6	35.6			
FH	(60°-80°)	9447.8	35.3			G4/12000
FVH	(80°-90°)	581.2	2.2			G4/750
BL	(0°-30°)	1381.7	5.2	B3/2500		
BM	(30°-60°)	1797.1	6.7	B2/2500		
BH	(60°-80°)	1782.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	72.5	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6
2.5°	5964.2	5987.9	6014.6	6044.2	6100.5	6131.6	6153.9	6179.1	6182.0	6195.4	6185.0
5°	5524.0	5552.1	5592.1	5648.5	5732.9	5864.9	6001.2	6112.4	6125.7	6188.0	6205.7
7.5°	5156.4	5172.7	5205.3	5295.7	5415.8	5562.5	5761.1	5986.4	6019.0	6167.2	6219.1
10°	4857.0	4873.3	4911.8	5005.2	5123.8	5307.6	5525.4	5821.9	5848.6	6103.5	6222.1
12.5°	4633.2	4648.0	4689.5	4781.4	4917.8	5089.7	5329.8	5644.0	5682.5	6019.0	6193.9
15°	4462.7	4490.9	4525.0	4600.6	4744.4	4910.4	5143.0	5481.0	5512.1	5930.1	6174.6
17.5°	4390.1	4403.5	4427.2	4496.8	4602.1	4765.1	4999.3	5353.5	5390.6	5867.8	6170.2
20°	4393.1	4406.4	4410.9	4449.4	4525.0	4665.8	4897.0	5252.7	5297.2	5813.0	6177.6
22.5°	4493.9	4495.4	4479.0	4465.7	4495.4	4612.4	4824.4	5177.1	5229.0	5789.3	6183.5
25°	4649.5	4676.2	4652.5	4590.2	4535.4	4591.7	4796.2	5135.6	5184.5	5755.2	6176.1
27.5°	4901.5	4905.9	4886.6	4802.2	4659.9	4618.4	4784.4	5104.5	5146.0	5730.0	6139.1
30°	5239.4	5226.0	5208.3	5114.9	4891.1	4720.6	4809.6	5076.4	5119.3	5692.9	6094.6
32.5°	5581.8	5623.3	5607.0	5497.3	5206.8	4919.2	4891.1	5073.4	5109.0	5664.8	6045.7
35°	5944.9	5964.2	6041.2	5984.9	5687.0	5240.9	5043.7	5119.3	5147.5	5666.2	6011.6
37.5°	6229.5	6281.3	6462.2	6511.1	6230.9	5666.2	5291.3	5249.8	5261.6	5738.9	6024.9
40°	6573.3	6662.2	6894.9	7095.0	6911.2	6219.1	5712.2	5491.4	5506.2	5913.8	6112.4
42.5°	7009.1	7071.3	7384.1	7655.3	7625.6	6949.8	6222.1	5887.1	5894.5	6262.1	6356.9
45°	7518.9	7607.9	7959.1	8366.7	8436.4	7776.8	6958.7	6485.9	6481.4	6803.1	6813.4
47.5°	8171.1	8225.9	8574.2	9018.9	9300.5	8815.8	7852.4	7345.5	7298.1	7591.6	7507.1
50°	8771.3	8857.3	9121.1	9607.3	10308.3	10032.7	9027.8	8460.1	8348.9	8623.1	8480.8
52.5°	9023.3	9113.7	9336.0	9939.3	11172.4	11606.7	10520.3	9789.6	9604.3	9814.8	9762.9
55°	8586.1	8703.2	8910.7	9644.3	11551.9	13422.3	12533.0	11326.6	11191.7	11101.3	11116.1
57.5°	7410.7	7521.9	7802.0	8611.3	11098.3	14739.9	15406.9	13302.3	13013.2	12596.8	12667.9
60°	5641.0	5710.7	5856.0	6752.7	9754.0	15082.3	18670.6	15799.7	15615.9	14086.3	14136.7
62.5°	4006.2	4084.8	4185.6	4633.2	7141.0	14117.4	21225.8	19287.2	18630.6	15629.2	15580.3
65°	3253.3	3200.0	3321.5	3530.5	4190.0	10941.2	21800.9	24127.9	23223.8	17661.3	16982.4
67.5°	2675.3	2619.0	2739.0	3111.0	3186.6	6351.0	19728.9	27270.0	27089.2	19871.1	18406.8
69°	2368.5	2338.8	2444.1	2868.0	3059.2	4510.2	17187.0	27707.2	27750.2	21173.9	18626.1
70°	2134.3	2146.1	2248.4	2744.9	3001.3	3718.7	14689.6	27104.0	27468.6	21824.6	18389.0
72.5°	1571.1	1596.3	1738.6	2273.6	2946.5	3155.5	8741.7	23674.3	24319.1	21863.1	16822.4
75°	1098.3	1086.4	1212.4	1711.9	2783.5	3127.3	5134.2	18309.0	19039.7	18897.4	14135.2
77.5°	718.8	738.1	838.9	1209.4	2341.8	3103.6	3346.7	12989.5	13463.8	12638.3	8360.8
80°	506.9	505.4	561.7	825.6	1737.1	2982.1	2740.5	8187.4	8067.3	4966.7	2479.6
82.5°	290.5	311.3	376.5	581.0	1162.0	2624.9	2521.1	3915.8	3574.9	1415.4	837.4
85°	161.6	169.0	223.8	351.3	678.8	1977.2	2201.0	1781.5	1680.8	591.4	360.2
87.5°	51.9	56.3	93.4	177.9	308.3	933.8	1246.5	822.6	758.9	213.4	145.3
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°	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6	6180.6
2.5°	6189.4	6207.2	6159.8	6113.9	6072.4	6014.6	5962.7	5919.7	5890.1	5885.6	5870.8
5°	6210.2	6211.7	6121.3	5999.7	5881.2	5750.7	5615.9	5519.5	5429.1	5378.7	5353.5
7.5°	6225.0	6211.7	6048.6	5851.5	5623.3	5386.1	5149.0	4959.3	4812.5	4754.7	4777.0
10°	6219.1	6177.6	5939.0	5623.3	5291.3	4937.0	4596.1	4329.4	4084.8	3958.8	3961.8
12.5°	6186.5	6118.3	5775.9	5366.9	4879.2	4404.9	3883.2	3523.1	3240.0	3072.5	3020.6
15°	6158.3	6039.7	5584.7	5018.5	4412.4	3735.0	3099.2	2654.5	2417.4	2285.5	2284.0
17.5°	6128.7	5964.2	5375.7	4649.5	3875.8	3004.3	2337.3	1997.9	1886.8	1900.1	1877.9
20°	6097.6	5875.2	5157.9	4238.9	3222.2	2241.0	1750.4	1612.6	1643.7	1704.5	1713.4
22.5°	6062.0	5780.4	4923.7	3786.9	2534.5	1686.7	1419.9	1399.1	1479.2	1574.0	1587.4
25°	6007.1	5661.8	4628.7	3314.1	1955.0	1359.1	1243.5	1258.3	1336.9	1416.9	1425.8
27.5°	5930.1	5515.1	4330.8	2724.2	1468.8	1166.4	1136.8	1156.1	1194.6	1243.5	1255.4
30°	5826.3	5349.1	3988.5	2214.3	1176.8	1070.1	1058.3	1068.6	1090.9	1111.6	1117.5
32.5°	5722.6	5189.0	3643.1	1695.6	1049.4	1006.4	994.5	994.5	994.5	997.5	999.0
35°	5626.2	5037.8	3272.6	1320.6	982.7	956.0	939.7	921.9	918.9	908.6	908.6
37.5°	5572.9	4900.0	2878.3	1105.7	933.8	914.5	892.3	862.6	846.3	847.8	844.8
40°	5583.2	4809.6	2519.6	984.1	893.7	873.0	838.9	804.8	794.4	794.4	791.5
42.5°	5700.3	4779.9	2175.8	920.4	855.2	831.5	788.5	757.4	751.4	750.0	752.9
45°	5970.1	4852.5	1867.5	878.9	822.6	787.0	744.0	715.9	709.9	709.9	708.5
47.5°	6496.2	5088.2	1646.7	852.2	798.9	752.9	708.5	680.3	669.9	667.0	667.0
50°	7314.4	5599.5	1482.1	828.5	769.2	721.8	675.9	643.3	626.9	625.5	624.0
52.5°	8451.2	6396.9	1418.4	810.7	736.6	689.2	638.8	607.7	586.9	582.5	579.5
55°	9780.7	7510.0	1505.9	797.4	702.5	652.1	600.3	567.7	548.4	539.5	538.0
57.5°	11320.6	8846.9	1837.9	779.6	671.4	612.1	561.7	529.1	508.4	498.0	495.0
60°	12703.5	10220.9	2417.4	769.2	644.7	569.1	517.3	487.6	468.4	458.0	456.5
62.5°	14222.7	11531.1	3109.5	797.4	632.9	527.6	475.8	449.1	432.8	422.4	422.4
65°	15845.6	12842.8	3567.5	892.3	650.7	495.0	431.3	409.1	394.3	386.8	385.4
67.5°	16939.5	13296.3	2939.1	990.1	695.1	459.5	388.3	370.5	361.6	354.2	354.2
69°	16820.9	12722.7	2168.4	1015.3	708.5	441.7	364.6	351.3	339.4	336.4	333.5
70°	16445.9	12069.1	1817.1	999.0	698.1	425.4	349.8	333.5	323.1	320.1	318.7
72.5°	14648.1	10466.9	1353.2	868.5	594.3	369.1	309.8	294.9	286.1	281.6	281.6
75°	12169.9	8555.0	1056.8	690.7	465.4	311.3	265.3	253.4	246.0	243.1	241.6
77.5°	6820.8	4777.0	758.9	541.0	352.8	252.0	222.3	211.9	204.5	201.6	201.6
80°	1900.1	1365.1	446.1	357.2	240.1	191.2	176.4	169.0	158.6	151.2	155.6
82.5°	715.9	591.4	254.9	214.9	152.7	127.5	123.0	117.1	112.6	102.3	102.3
85°	348.3	287.5	163.0	114.1	84.5	66.7	63.7	60.8	57.8	50.4	51.9
87.5°	120.1	127.5	71.1	41.5	25.2	16.3	13.3	7.4	7.4	7.4	7.4
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)