

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: P457332

Luminaire Tested: **GALN-SA8C-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37318 lumens
Efficiency: N/A
Efficacy: 87.0 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): 429
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

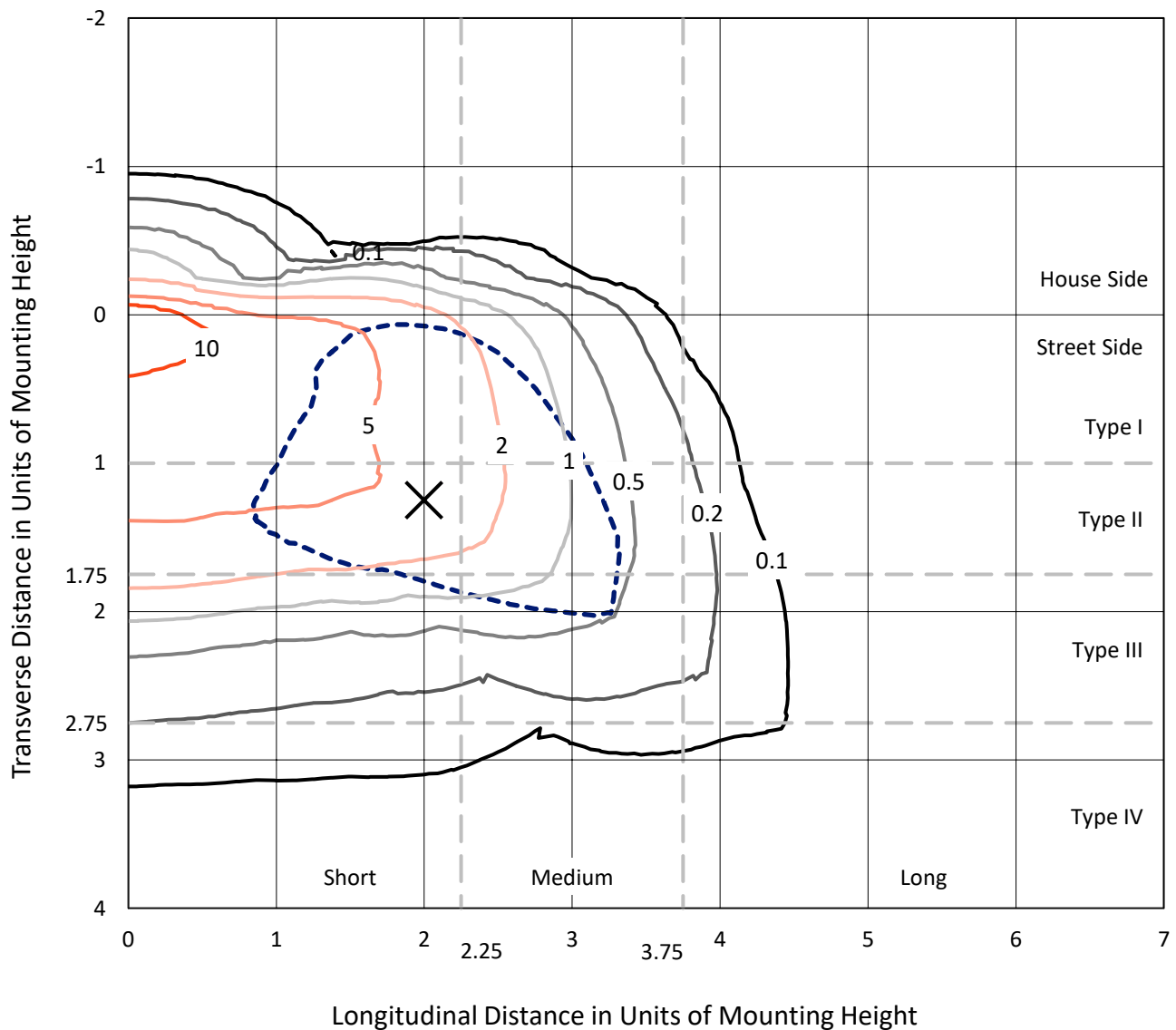


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

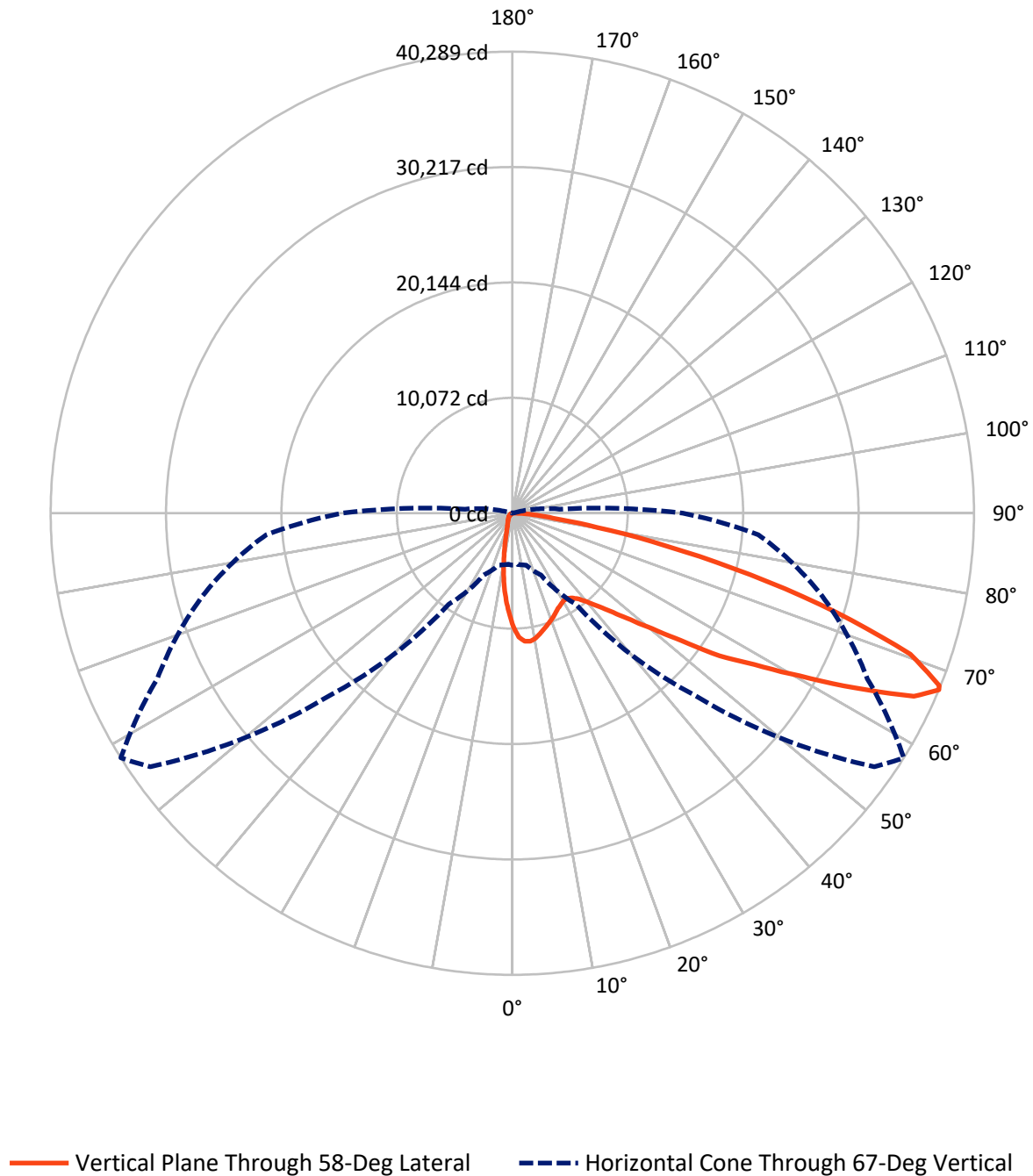


Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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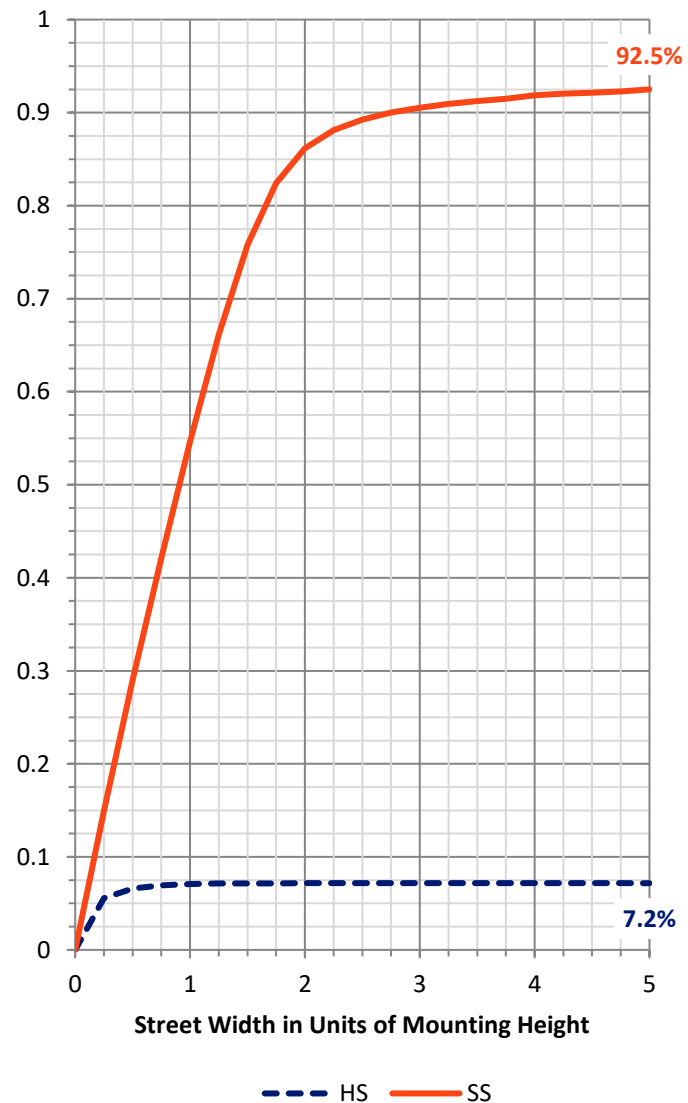
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2693.1	0.0	2693.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	34624.9	0.0	34624.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	37318.0	0.0	37318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.8	2.2
10°-20°	1733.8	4.6
20°-30°	2349.4	6.3
30°-40°	3258.5	8.7
40°-50°	5196.9	13.9
50°-60°	8983.3	24.1
60°-70°	10261.7	27.5
70°-80°	4278.2	11.5
80°-90°	453.6	1.2
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°	37318.0	100.0
0°-180°	37318.0	100.0

Coefficient of Utilization



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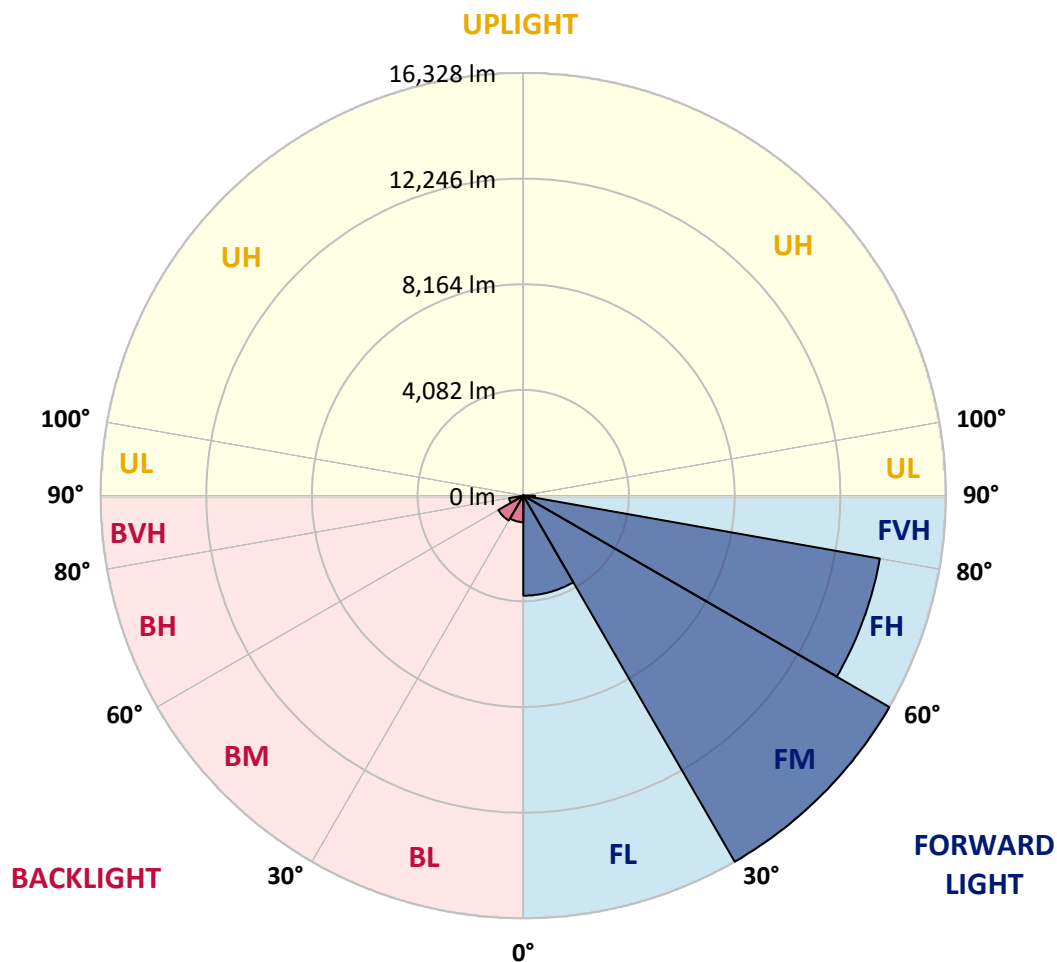
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3863.3	10.4			
FM	(30°-60°)	16328.2	43.8			
FH	(60°-80°)	13983.1	37.5			G5
FVH	(80°-90°)	450.3	1.2			G3/500
BL	(0°-30°)	1022.6	2.7	B3/2500		
BM	(30°-60°)	1110.4	3.0	B2/2500		
BH	(60°-80°)	556.7	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.3	0.0			G0/10
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°	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7
2.5°	11481.2	11498.6	11433.8	11381.4	11246.8	11102.1	10910.1	10807.9	10633.3	10331.6	9997.4
5°	11750.5	11772.9	11763.0	11750.5	11698.1	11558.5	11314.1	11224.3	10967.5	10476.2	9872.7
7.5°	11152.0	11234.3	11244.3	11341.5	11433.8	11446.3	11354.0	11286.7	11049.8	10473.7	9650.8
10°	10359.0	10413.9	10493.7	10605.9	10827.8	11012.3	11102.1	11092.1	10955.0	10396.4	9391.4
12.5°	9558.5	9588.4	9710.6	9902.6	10174.5	10488.7	10728.1	10775.4	10777.9	10304.1	9174.5
15°	8870.2	8857.8	8952.5	9174.5	9556.0	9950.0	10378.9	10453.8	10573.4	10214.4	8972.5
17.5°	8281.7	8346.5	8361.5	8605.9	8957.5	9468.7	10014.9	10147.0	10386.4	10137.0	8805.4
20°	7917.6	7952.5	7984.9	8122.1	8438.8	8977.5	9673.2	9855.3	10211.9	10067.2	8618.4
22.5°	7810.4	7832.8	7805.4	7847.8	8072.2	8551.0	9301.6	9543.5	10044.8	10002.4	8466.2
25°	7892.7	7915.1	7850.3	7800.4	7877.7	8204.4	8942.5	9236.8	9910.1	9989.9	8351.5
27.5°	8092.2	8134.6	8044.8	7955.0	7910.1	8017.4	8660.8	9002.4	9817.8	10049.8	8299.2
30°	8403.9	8428.8	8361.5	8251.8	8149.5	8042.3	8513.6	8840.3	9792.9	10189.4	8294.2
32.5°	8743.0	8795.4	8758.0	8685.7	8553.5	8299.2	8556.0	8845.3	9852.8	10391.4	8356.5
35°	9162.0	9221.8	9256.8	9241.8	9072.2	8755.5	8825.3	9069.7	10012.4	10763.0	8526.1
37.5°	9573.5	9625.8	9822.8	9890.2	9740.5	9441.3	9349.0	9511.1	10364.0	11249.3	8832.8
40°	10044.8	10114.6	10391.4	10648.3	10575.9	10261.7	10092.2	10226.8	10902.6	11982.4	9413.9
42.5°	10496.1	10620.8	11042.3	11496.1	11563.5	11211.8	11099.6	11144.5	11700.6	13037.3	10224.3
45°	11137.0	11254.2	11797.9	12413.8	12730.5	12456.2	12341.5	12334.0	12795.4	14521.0	11538.5
47.5°	12062.2	12166.9	12807.8	13416.3	13979.9	14017.3	13800.3	13875.2	14171.9	16256.7	13149.5
50°	13196.9	13443.7	13865.2	14498.6	15251.7	15860.2	15927.5	15827.8	16082.1	18266.6	15084.6
52.5°	14845.2	14940.0	15326.5	15847.7	16730.5	17762.9	18563.4	18426.2	18346.4	20181.8	17039.7
55°	16074.6	16201.8	16802.8	17518.5	18812.8	20174.3	21910.0	21957.4	20949.9	22022.2	18952.4
57.5°	15703.1	15897.6	16807.8	18246.7	21092.0	23580.8	24872.5	24905.0	23358.8	23810.2	21112.0
60°	13795.4	13887.6	15191.9	17112.0	21286.5	27271.5	29074.5	28812.7	25810.2	25810.2	23019.7
62.5°	9782.9	9927.6	10984.9	13810.3	19224.2	28553.3	34106.9	33565.7	29186.7	27722.9	24156.8
65°	6251.8	6112.2	6812.9	8718.1	14321.5	26660.6	38488.4	38520.8	32363.7	28488.5	23535.9
67°	4528.6	4473.8	4675.8	5960.0	9710.6	22411.2	38580.6	40288.8	34189.1	28004.7	21550.9
67.5°	4142.1	4184.5	4331.6	5376.5	8822.8	20393.8	38161.7	40184.1	34600.6	27712.9	20832.7
70°	3139.6	3067.3	3226.9	3803.0	5289.2	12865.2	32827.6	36855.0	34089.4	24817.7	16645.7
72.5°	2309.2	2301.7	2523.7	3109.7	4072.3	6852.8	24643.1	29550.8	27850.1	18897.5	10481.2
75°	1558.6	1628.4	1982.5	2598.5	3690.7	4443.8	16800.3	21438.7	19334.0	10730.6	4284.2
77.5°	887.8	892.8	1276.8	2087.3	3314.2	3576.0	9955.0	13658.2	10234.3	3568.5	1271.8
80°	384.0	421.4	633.4	1516.2	2748.1	3167.0	5708.2	7506.2	4139.6	755.6	411.5
82.5°	142.1	167.1	279.3	932.7	2005.0	2608.5	3448.8	3583.5	1404.0	266.8	256.9
85°	0.0	5.0	102.2	436.4	1044.9	1164.6	2304.2	2124.7	620.9	127.2	167.1
87.5°	0.0	0.0	0.0	44.9	137.2	433.9	715.7	798.0	149.6	44.9	39.9
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°	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7	9892.7
2.5°	9817.8	9655.8	9249.3	8842.8	8541.1	8289.2	7910.1	7703.2	7593.4	7431.3	7441.3
5°	9571.0	9241.8	8526.1	7785.5	7187.0	6603.4	5905.2	5623.4	5386.5	5251.8	5162.0
7.5°	9204.4	8718.1	7658.3	6670.7	5750.6	4730.6	3965.0	3453.8	3109.7	2982.5	2860.3
10°	8802.9	8157.0	6778.0	5408.9	4132.1	3079.8	2431.4	1962.6	1795.5	1640.9	1655.8
12.5°	8431.3	7645.8	5970.0	4269.3	2895.2	1957.6	1526.2	1334.1	1279.3	1261.8	1261.8
15°	8127.1	7157.0	5102.2	3209.4	1985.0	1406.5	1221.9	1169.6	1149.6	1144.6	1144.6
17.5°	7802.9	6693.2	4319.2	2371.5	1443.9	1177.0	1114.7	1079.8	1072.3	1067.3	1067.3
20°	7513.6	6226.9	3576.0	1765.6	1167.1	1059.8	1019.9	997.5	990.0	985.0	987.5
22.5°	7239.3	5812.9	2877.8	1334.1	1027.4	965.1	925.2	902.7	887.8	875.3	877.8
25°	6994.9	5413.9	2314.2	1092.3	925.2	870.3	830.4	798.0	765.6	750.6	748.1
27.5°	6822.9	5064.8	1803.0	935.2	832.9	773.1	723.2	683.3	640.9	618.4	613.5
30°	6680.7	4710.7	1426.4	825.4	740.6	683.3	620.9	563.6	518.7	496.3	486.3
32.5°	6588.5	4374.0	1124.7	735.7	663.3	593.5	523.7	466.3	416.5	394.0	389.0
35°	6573.5	4092.2	920.2	660.8	593.5	518.7	446.4	384.0	341.6	319.2	314.2
37.5°	6680.7	3875.3	770.6	601.0	536.2	453.9	374.1	316.7	279.3	261.8	259.3
40°	6967.5	3738.1	668.3	551.1	483.8	394.0	319.2	269.3	231.9	214.5	214.5
42.5°	7513.6	3743.1	601.0	503.7	431.4	336.7	271.8	224.4	192.0	177.1	172.1
45°	8366.5	3912.7	543.6	456.4	381.5	291.8	231.9	184.5	152.1	139.6	139.6
47.5°	9508.6	4249.3	493.8	409.0	336.7	249.4	197.0	149.6	122.2	109.7	109.7
50°	11002.4	4790.5	451.4	369.1	299.2	214.5	159.6	122.2	94.8	84.8	82.3
52.5°	12563.5	5458.8	401.5	334.2	256.9	182.0	129.7	94.8	72.3	64.8	62.3
55°	14286.6	6112.2	354.1	299.2	209.5	152.1	102.2	74.8	52.4	44.9	44.9
57.5°	16024.8	6753.0	296.8	249.4	164.6	112.2	79.8	54.9	34.9	27.4	27.4
60°	17496.1	6960.0	251.9	202.0	124.7	79.8	57.4	34.9	19.9	12.5	12.5
62.5°	17698.1	6261.8	212.0	154.6	89.8	54.9	29.9	19.9	7.5	5.0	5.0
65°	16600.8	5087.2	177.1	117.2	59.8	27.4	12.5	7.5	2.5	0.0	0.0
67°	14875.1	4124.6	144.6	87.3	42.4	17.5	7.5	2.5	0.0	0.0	0.0
67.5°	14433.8	3932.6	139.6	82.3	37.4	15.0	5.0	2.5	0.0	0.0	0.0
70°	11326.6	2945.1	99.7	49.9	22.4	10.0	0.0	0.0	0.0	0.0	0.0
72.5°	7039.8	1665.8	72.3	29.9	15.0	5.0	0.0	0.0	0.0	0.0	0.0
75°	2660.8	583.5	49.9	19.9	10.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	827.9	221.9	29.9	15.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	279.3	84.8	19.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	172.1	34.9	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	107.2	15.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	5.0	2.5	0.0	0.0	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)