

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: P457109

Luminaire Tested: **GALN-SA8B-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27295 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 325
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

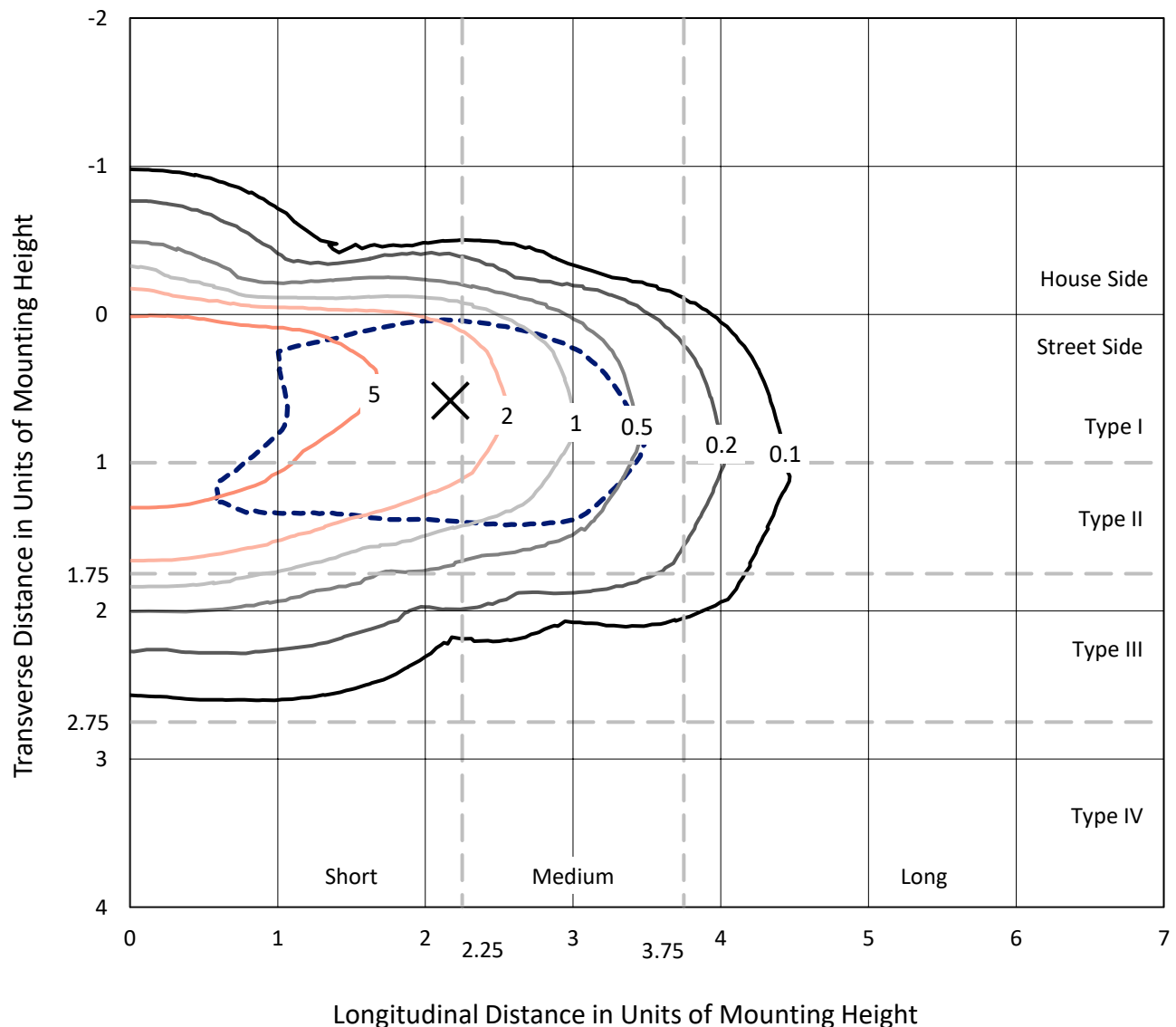


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

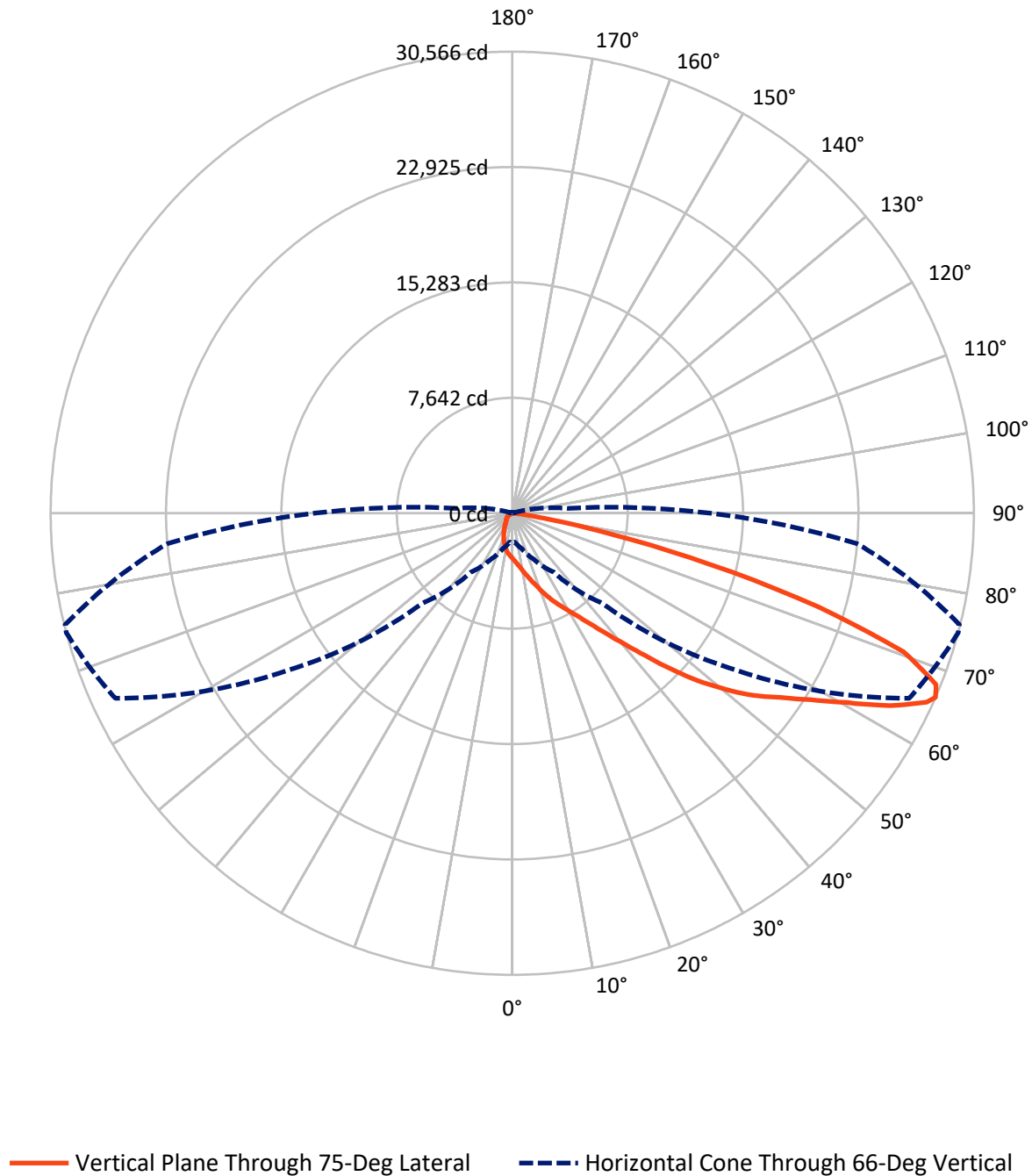


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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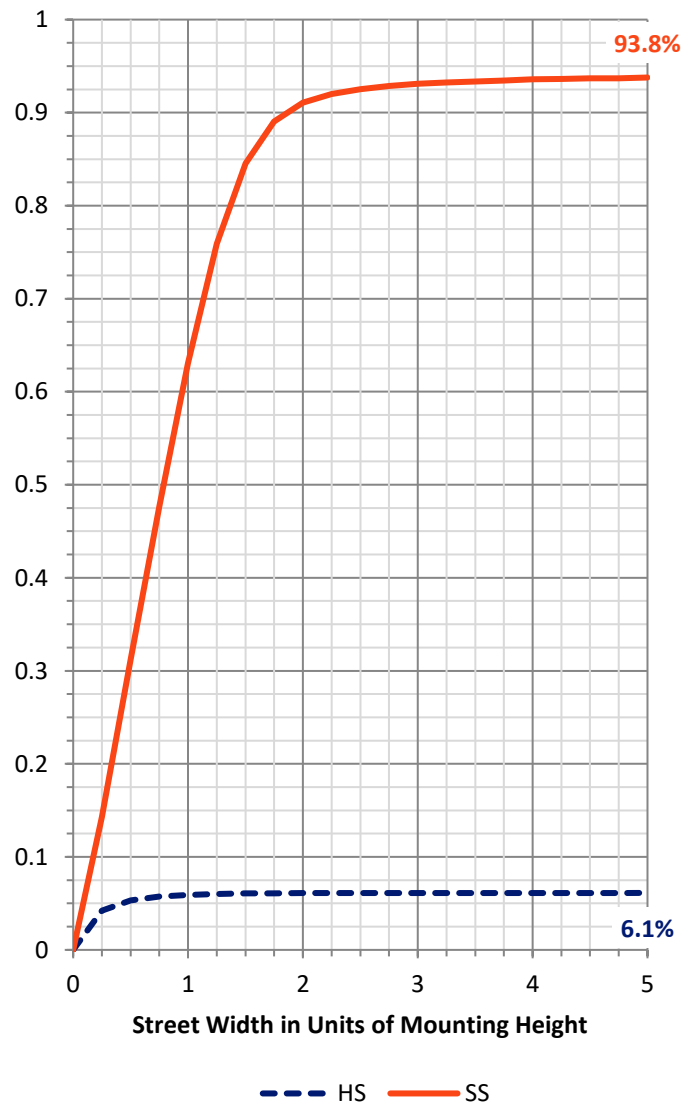
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1685.1	0.0	1685.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	25609.9	0.0	25609.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	27295.0	0.0	27295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	1.1
10°-20°	847.3	3.1
20°-30°	1463.1	5.4
30°-40°	2639.2	9.7
40°-50°	4767.8	17.5
50°-60°	7433.0	27.2
60°-70°	7061.0	25.9
70°-80°	2646.3	9.7
80°-90°	149.3	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°	27295.0	100.0
0°-180°	27295.0	100.0

Coefficient of Utilization



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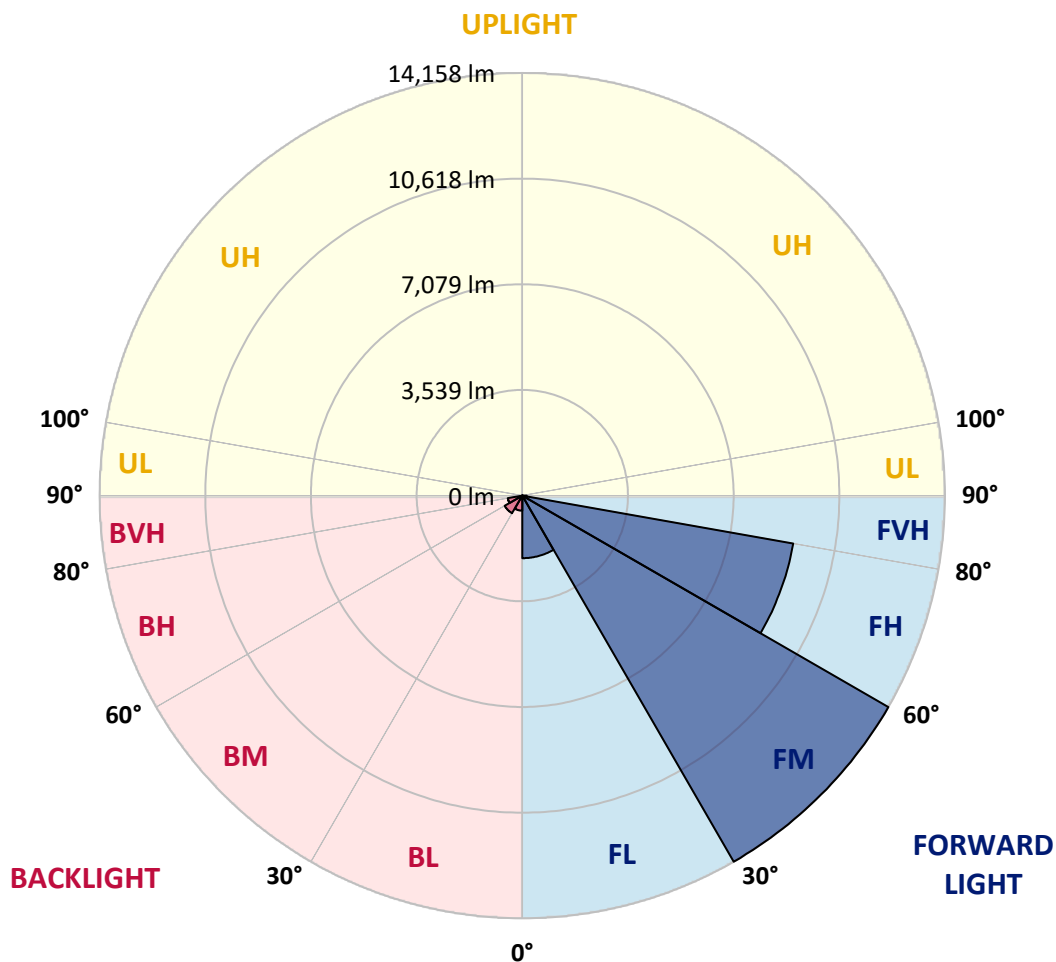
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2095.1	7.7			
FM	(30°-60°)	14157.9	51.9			
FH	(60°-80°)	9215.3	33.8			G4/12000
FVH	(80°-90°)	141.6	0.5			G2/225
BL	(0°-30°)	503.2	1.8	B2/1000		
BM	(30°-60°)	682.1	2.5	B1/1000		
BH	(60°-80°)	492.1	1.8	B1/500		G1/500
BVH	(80°-90°)	7.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0
2.5°	3566.2	3521.8	3536.0	3515.8	3469.4	3400.7	3340.2	3253.4	3166.6	3152.5	3055.6
5°	4036.5	4024.4	4008.2	3949.7	3917.4	3812.5	3687.3	3538.0	3358.4	3326.1	3150.5
7.5°	4357.4	4351.3	4359.4	4329.1	4300.9	4206.0	4072.8	3869.0	3590.5	3572.3	3279.6
10°	4462.3	4478.5	4508.7	4557.2	4601.6	4571.3	4470.4	4216.1	3891.2	3838.7	3427.0
12.5°	4401.8	4419.9	4492.6	4621.8	4765.1	4847.8	4807.4	4621.8	4210.1	4167.7	3592.5
15°	4246.4	4268.6	4371.5	4571.3	4827.6	5061.7	5162.7	5029.5	4581.4	4512.8	3792.3
17.5°	4016.3	4048.6	4195.9	4460.3	4811.5	5215.1	5499.7	5455.3	4977.0	4912.4	4010.2
20°	3842.7	3866.9	3992.1	4294.8	4742.9	5299.9	5820.6	5945.7	5465.4	5354.4	4266.6
22.5°	3957.8	3965.8	4008.2	4189.9	4619.8	5322.1	6103.2	6456.4	5984.1	5885.2	4533.0
25°	4520.9	4440.1	4397.7	4357.4	4593.5	5301.9	6359.5	6989.2	6500.8	6395.8	4797.4
27.5°	5408.9	5372.6	5158.6	4872.0	4817.5	5328.2	6529.0	7493.7	6987.1	6874.1	5055.7
30°	6375.6	6313.1	6181.9	5762.1	5340.3	5513.8	6652.1	7984.2	7562.3	7413.0	5291.8
32.5°	7263.6	7304.0	7108.2	6676.3	6187.9	5909.4	6811.6	8519.0	8222.3	8036.6	5566.3
35°	8299.0	8379.7	8079.0	7665.3	7094.1	6623.9	7122.4	9122.4	9059.9	8825.8	5990.1
37.5°	9350.5	9398.9	9215.3	8634.0	8119.4	7532.1	7707.7	9867.2	10091.2	9891.4	6496.7
40°	10234.5	10301.1	10165.9	9649.2	9100.2	8583.6	8557.3	10678.5	11318.3	11112.4	7251.5
42.5°	10910.6	10961.1	10965.1	10599.8	10105.3	9871.2	9641.1	11713.9	12856.2	12618.0	8127.5
45°	11764.3	11837.0	11794.6	11546.4	11177.0	11134.6	11015.6	12965.2	14696.8	14396.1	9263.7
47.5°	13084.3	13132.7	13027.7	12735.1	12359.7	12426.3	12355.7	14367.9	16573.8	16315.5	10440.4
50°	14000.5	14081.3	14230.6	14347.7	14075.2	13829.0	13619.1	15677.7	18355.9	18123.8	11643.2
52.5°	13990.4	14123.6	14595.9	15185.2	15780.6	15705.9	15102.5	17124.8	20057.3	19770.7	12773.4
55°	13047.9	13306.3	14000.5	15046.0	16694.9	17516.3	17241.8	18799.9	21526.6	21332.8	14083.3
57.5°	11102.3	11259.8	12224.5	13685.7	16184.3	18368.0	19720.2	21070.4	23288.5	23197.7	16117.7
60°	7467.5	7538.1	8779.3	10585.7	13778.5	17518.3	21536.6	23817.3	25458.1	25413.7	18493.1
62.5°	4278.7	4308.9	5209.1	6732.9	9804.6	14846.2	21690.0	27205.9	28059.6	28083.8	21242.0
65°	2302.8	2319.0	3045.5	3951.7	5965.9	10581.6	19504.3	29062.7	30162.6	30209.0	22945.4
66°	1988.0	1911.3	2423.9	3368.4	4746.9	8422.1	18121.8	28996.1	30566.3	30515.8	22884.8
67.5°	1511.7	1580.3	1935.5	2589.4	3517.8	5988.1	14961.2	27706.4	30259.5	30102.1	21954.4
70°	1081.8	1110.0	1378.5	1846.7	2395.7	3285.7	9560.4	23012.0	27502.6	27290.7	19126.9
72.5°	698.3	728.6	976.8	1336.1	1731.7	1794.2	5352.4	16626.3	21203.6	21173.4	14404.2
75°	498.5	526.8	645.8	956.6	1301.8	1110.0	2577.3	11205.3	13479.8	13389.0	8910.5
77.5°	361.3	375.4	431.9	625.7	930.4	795.2	1194.8	5984.1	6710.7	7027.5	3937.6
80°	207.9	220.0	300.7	381.4	629.7	542.9	571.2	2401.7	2476.4	2357.3	1231.1
82.5°	102.9	117.1	179.6	260.4	393.6	365.3	262.4	722.5	762.9	742.7	310.8
85°	24.2	30.3	100.9	171.6	191.7	163.5	127.1	211.9	262.4	256.3	119.1
87.5°	2.0	4.0	36.3	30.3	32.3	54.5	44.4	54.5	84.8	78.7	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°	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0	2985.0
2.5°	3011.2	2972.9	2861.9	2752.9	2662.1	2567.2	2480.4	2430.0	2409.8	2387.6	2397.7
5°	3053.6	2960.8	2736.7	2543.0	2353.3	2191.8	2062.6	1979.9	1939.5	1933.5	1923.4
7.5°	3110.1	2950.7	2603.5	2300.8	2052.6	1872.9	1725.6	1606.5	1570.2	1537.9	1511.7
10°	3178.7	2932.5	2438.0	2046.5	1782.1	1556.1	1362.3	1221.0	1148.4	1128.2	1142.3
12.5°	3251.4	2898.2	2264.5	1812.4	1507.6	1219.0	1039.4	968.8	948.6	940.5	942.5
15°	3324.0	2855.8	2082.8	1586.3	1200.9	972.8	890.0	871.9	863.8	859.8	855.7
17.5°	3390.6	2787.2	1879.0	1366.3	972.8	831.5	801.2	785.1	768.9	762.9	752.8
20°	3469.4	2708.5	1695.3	1120.1	823.4	752.8	716.5	686.2	662.0	645.8	643.8
22.5°	3544.0	2607.6	1503.6	928.4	750.8	676.1	617.6	585.3	557.0	536.9	542.9
25°	3584.4	2484.5	1332.0	809.3	684.2	599.4	534.8	494.5	464.2	454.1	452.1
27.5°	3584.4	2333.1	1164.5	740.7	623.6	530.8	464.2	425.8	405.7	391.5	393.6
30°	3556.1	2165.6	1009.1	688.2	571.2	470.3	407.7	373.4	357.2	347.1	345.1
32.5°	3533.9	2006.1	875.9	637.8	516.7	417.8	363.3	337.0	320.9	310.8	310.8
35°	3568.2	1868.9	773.0	587.3	466.2	377.4	329.0	304.8	288.6	280.5	278.5
37.5°	3659.1	1743.8	694.3	532.8	419.8	343.1	304.8	276.5	260.4	250.3	246.2
40°	3883.1	1673.1	635.7	482.4	375.4	314.8	276.5	250.3	230.1	220.0	218.0
42.5°	4242.3	1675.1	579.2	435.9	341.1	290.6	252.3	222.0	199.8	189.7	187.7
45°	4783.2	1751.8	534.8	391.5	310.8	264.4	226.0	193.8	173.6	163.5	163.5
47.5°	5431.1	1901.2	496.5	353.2	282.6	240.2	199.8	167.5	147.3	139.3	139.3
50°	6133.4	2094.9	458.1	312.8	258.3	213.9	171.6	145.3	129.2	123.1	123.1
52.5°	6849.9	2329.0	419.8	280.5	232.1	185.7	147.3	129.2	115.0	111.0	109.0
55°	7790.4	2627.7	379.4	246.2	203.8	159.4	131.2	113.0	96.9	90.8	88.8
57.5°	9237.5	3077.8	335.0	216.0	167.5	133.2	113.0	94.9	76.7	66.6	64.6
60°	10983.3	3626.8	288.6	189.7	135.2	109.0	90.8	72.7	56.5	44.4	42.4
62.5°	12618.0	3975.9	244.2	159.4	107.0	82.7	64.6	54.5	40.4	28.3	26.2
65°	13340.6	3858.9	201.8	129.2	84.8	58.5	42.4	38.3	24.2	12.1	10.1
66°	13100.4	3685.3	185.7	117.1	76.7	50.5	36.3	32.3	18.2	6.1	6.1
67.5°	12392.0	3275.6	161.5	100.9	66.6	40.4	28.3	24.2	10.1	2.0	0.0
70°	10618.0	2650.0	127.1	74.7	48.4	28.3	16.1	12.1	6.1	0.0	0.0
72.5°	8155.7	1973.8	100.9	56.5	34.3	16.1	8.1	4.0	6.1	0.0	0.0
75°	4997.2	1128.2	78.7	42.4	22.2	10.1	6.1	0.0	6.1	2.0	0.0
77.5°	2218.0	506.6	52.5	28.3	16.1	8.1	4.0	0.0	4.0	2.0	0.0
80°	561.1	165.5	30.3	20.2	12.1	6.1	2.0	0.0	4.0	4.0	2.0
82.5°	153.4	60.5	22.2	16.1	10.1	6.1	2.0	0.0	4.0	4.0	4.0
85°	60.5	28.3	20.2	16.1	12.1	6.1	2.0	0.0	4.0	4.0	4.0
87.5°	28.3	20.2	20.2	18.2	14.1	6.1	2.0	0.0	4.0	2.0	4.0
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)