

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: P456883

Luminaire Tested: **GALN-SA8A-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22975 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244
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

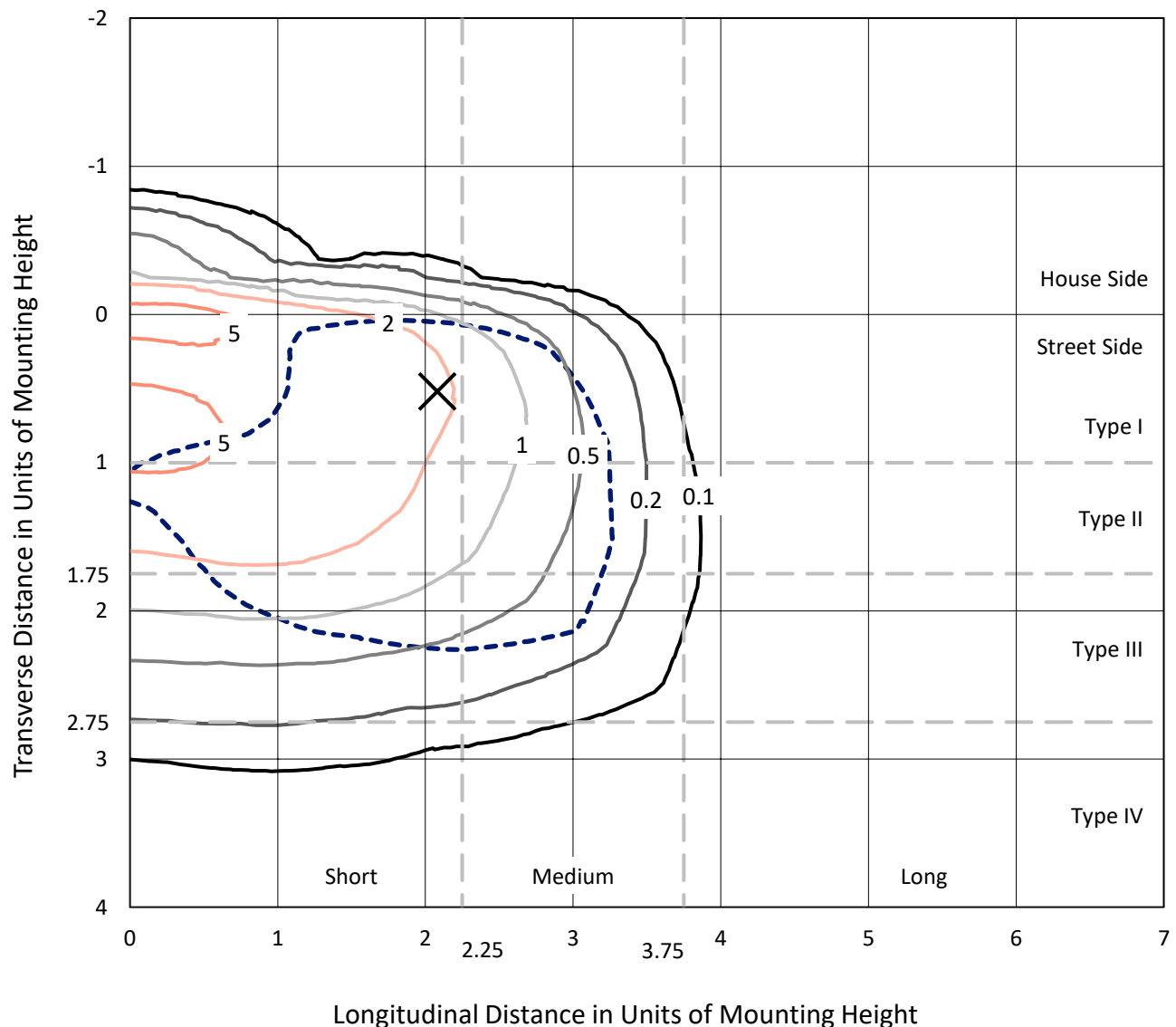


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



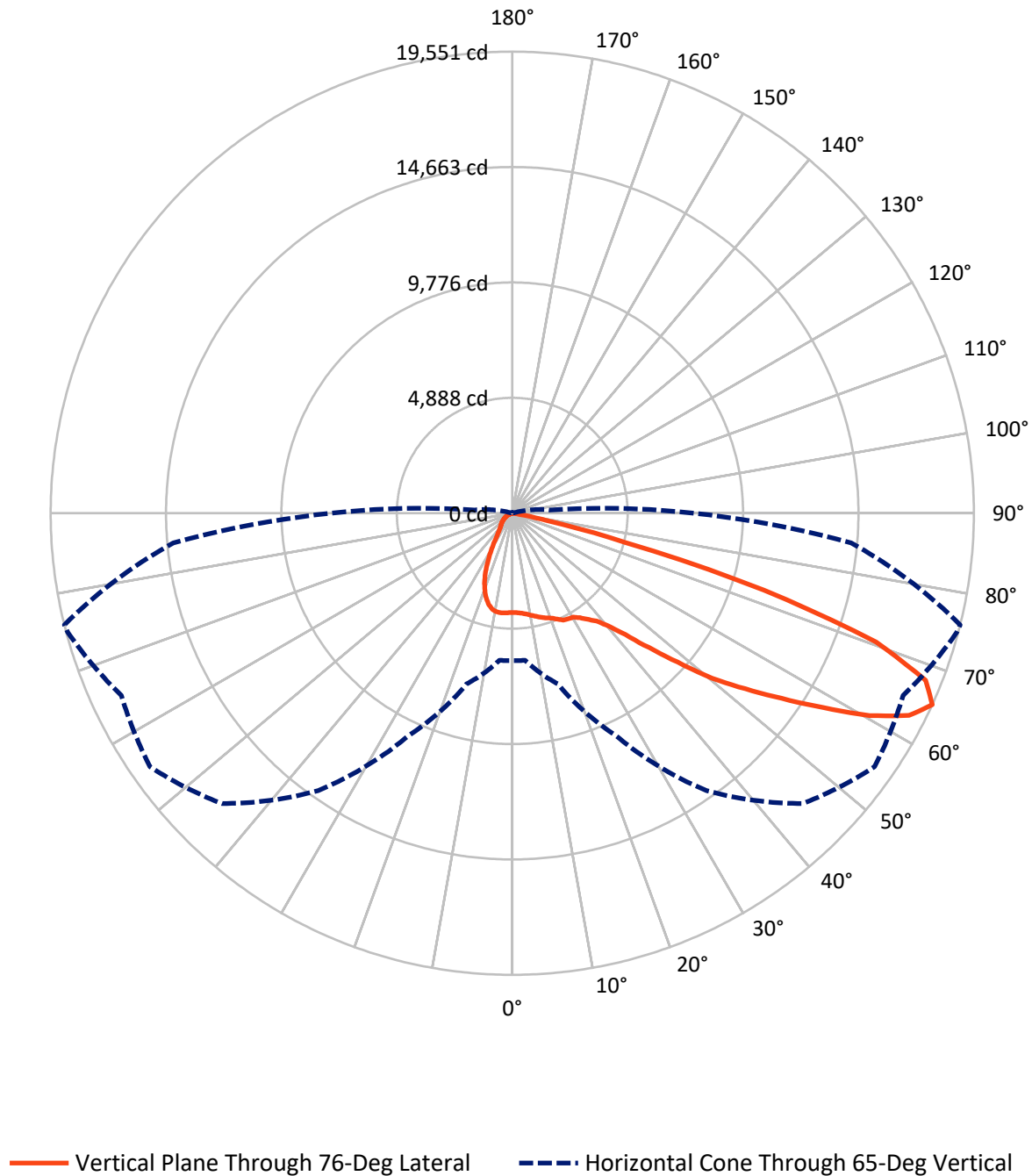
Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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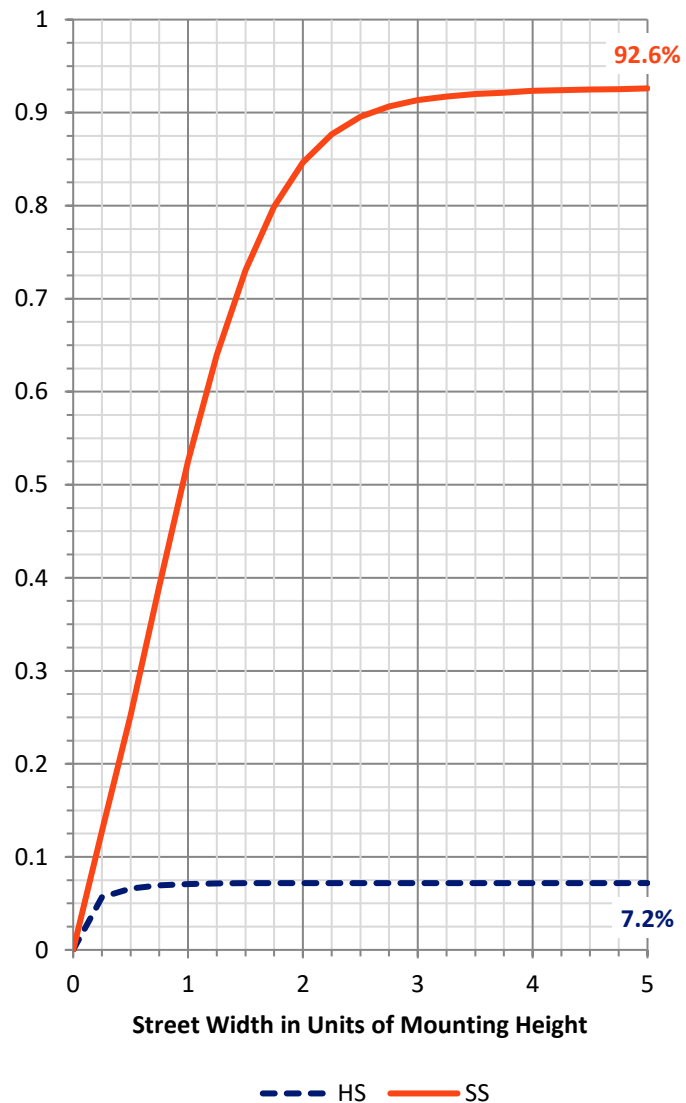
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1659.2	0.0	1659.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21315.7	0.0	21315.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	22975.0	0.0	22975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.2	1.5
10°-20°	770.9	3.4
20°-30°	1242.2	5.4
30°-40°	2159.9	9.4
40°-50°	3569.1	15.5
50°-60°	5513.5	24.0
60°-70°	6732.7	29.3
70°-80°	2555.2	11.1
80°-90°	85.3	0.4
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°	22975.0	100.0
0°-180°	22975.0	100.0

Coefficient of Utilization



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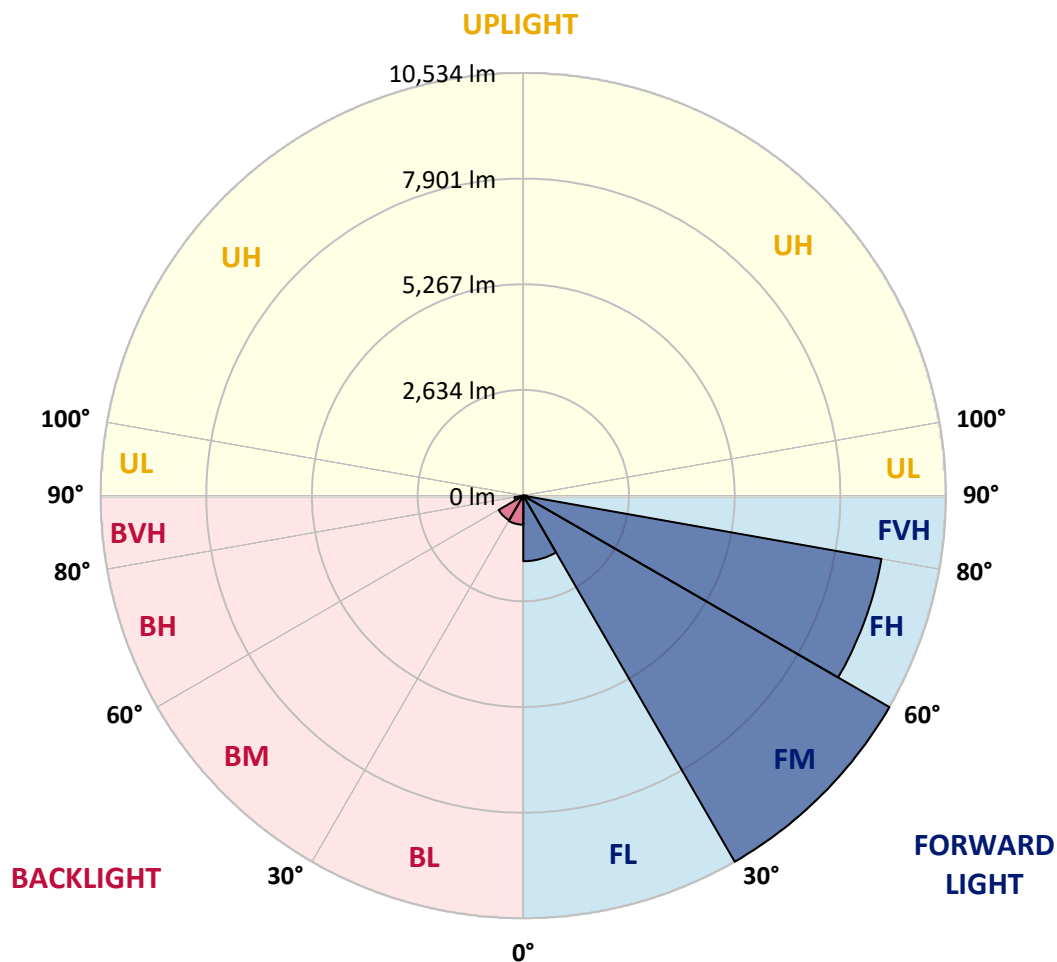
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1634.4	7.1			
FM	(30°-60°)	10534.4	45.9			
FH	(60°-80°)	9062.9	39.4			G4/12000
FVH	(80°-90°)	84.1	0.4			G1/100
BL	(0°-30°)	724.9	3.2	B2/1000		
BM	(30°-60°)	708.0	3.1	B1/1000		
BH	(60°-80°)	225.1	1.0	B1/500		G1/500
BVH	(80°-90°)	1.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9
2.5°	4016.3	4017.9	4027.7	4052.0	4089.3	4120.1	4146.1	4188.3	4217.5	4220.7	4230.4
5°	3738.9	3719.5	3738.9	3802.2	3859.0	3944.9	4050.4	4155.8	4249.9	4256.4	4301.8
7.5°	3427.5	3443.7	3474.5	3539.4	3646.5	3777.9	3930.3	4118.5	4296.9	4313.2	4402.4
10°	3111.2	3146.9	3197.2	3296.1	3445.3	3615.7	3823.3	4092.6	4371.6	4394.3	4548.4
12.5°	2819.2	2835.4	2897.1	3030.1	3215.0	3455.1	3742.2	4078.0	4454.3	4481.9	4704.1
15°	2595.4	2616.4	2670.0	2790.0	2996.0	3304.2	3675.7	4073.1	4535.4	4574.3	4859.8
17.5°	2553.2	2566.2	2588.9	2670.0	2850.0	3184.2	3615.7	4071.5	4613.3	4660.3	5004.2
20°	2726.7	2715.4	2692.7	2684.6	2783.5	3091.7	3571.9	4084.4	4687.9	4741.4	5156.7
22.5°	3161.5	3176.1	3043.1	2885.7	2853.3	3077.1	3565.4	4146.1	4806.3	4869.5	5327.0
25°	4084.4	3972.5	3764.9	3388.6	3104.7	3166.3	3638.4	4292.1	4944.2	5013.9	5481.1
27.5°	5104.7	5070.7	4747.9	4128.2	3599.4	3354.5	3768.1	4404.0	4989.6	5061.0	5568.7
30°	6107.2	6147.8	5777.9	5093.4	4318.0	3703.3	3889.8	4446.2	5030.1	5104.7	5680.6
32.5°	7036.7	7085.3	6760.9	6082.9	5164.8	4306.7	4099.0	4610.0	5200.5	5276.7	5867.1
35°	7768.2	7774.7	7529.8	6989.6	6089.4	5039.9	4551.6	4897.1	5430.8	5520.0	6065.0
37.5°	8439.8	8430.1	8142.9	7677.4	6859.9	5768.2	5121.0	5228.0	5693.6	5786.0	6350.5
40°	8937.8	8944.3	8851.8	8413.8	7578.5	6441.4	5571.9	5537.8	6134.8	6279.1	6765.8
42.5°	9270.3	9330.3	9375.7	9153.5	8482.0	7270.3	6264.5	6201.3	6900.4	7020.4	7353.0
45°	9539.6	9646.6	9873.7	9862.4	9349.8	8287.3	7215.1	7085.3	7985.6	8113.7	8100.8
47.5°	9735.8	9844.5	10220.9	10447.9	10165.7	9273.5	8410.6	8298.7	9281.7	9421.2	8926.4
50°	9836.4	9966.2	10446.3	10885.9	10803.2	10224.1	9773.2	9779.6	10847.0	10981.6	9883.5
52.5°	9601.2	9769.9	10566.4	11357.9	11518.5	11134.1	11049.7	11263.9	12240.4	12355.5	10748.0
55°	8850.2	9062.7	10402.5	11760.2	12347.4	12207.9	12499.9	12825.9	13763.5	13838.1	11635.3
57.5°	8374.9	8600.4	9919.1	12102.5	13343.4	13557.5	14019.8	14258.3	15335.3	15525.1	12654.0
60°	7974.2	8151.1	9521.7	12175.5	14355.6	15208.8	15658.1	15904.7	17275.4	17398.6	13774.9
62.5°	7307.6	7510.3	8850.2	11666.1	14864.9	16530.8	17461.9	17351.6	18775.8	18861.8	14462.6
65°	6235.4	6253.2	7487.6	10386.3	14339.4	17388.9	18728.8	18266.5	19492.8	19551.2	14409.1
67.5°	4653.8	4825.7	5760.1	8164.0	12112.2	16655.7	19139.2	18290.8	19040.2	18878.0	13265.5
70°	2997.6	3129.0	3904.4	5661.1	8733.4	13899.8	17778.2	17036.9	16710.9	16350.8	10858.3
72.5°	1383.7	1552.3	2319.6	3234.5	5179.4	9901.3	14431.8	13841.4	12027.9	11139.0	6902.0
75°	603.4	645.6	1145.2	1706.4	2428.3	5236.1	9515.2	8592.3	5432.4	4962.0	2762.4
77.5°	368.2	395.8	600.2	914.9	953.8	1995.2	5125.8	3748.7	1678.9	1481.0	749.4
80°	249.8	280.6	436.3	478.5	326.0	556.4	1923.8	1000.8	339.0	324.4	160.6
82.5°	121.7	154.1	322.8	267.6	141.1	178.4	559.6	214.1	98.9	92.5	56.8
85°	17.8	30.8	181.7	175.2	63.3	42.2	98.9	53.5	34.1	32.4	26.0
87.5°	0.0	0.0	61.6	27.6	6.5	6.5	11.4	11.4	13.0	11.4	13.0
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°	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9	4202.9
2.5°	4235.3	4243.4	4212.6	4168.8	4121.8	4074.7	4008.2	3948.2	3912.5	3933.6	3881.7
5°	4311.5	4305.1	4223.9	4090.9	3914.1	3701.6	3490.8	3310.7	3252.3	3164.7	3155.0
7.5°	4417.0	4399.1	4227.2	3922.2	3523.2	3124.2	2734.9	2476.9	2329.3	2204.4	2207.7
10°	4564.6	4512.7	4189.9	3625.4	2968.4	2366.6	1870.3	1529.6	1382.0	1335.0	1297.7
12.5°	4717.1	4616.5	4086.1	3224.7	2311.5	1617.2	1137.1	929.5	838.6	809.4	806.2
15°	4853.3	4694.4	3904.4	2743.0	1680.5	1033.3	775.4	707.2	695.9	697.5	695.9
17.5°	4988.0	4756.0	3653.0	2232.0	1142.0	741.3	666.7	650.5	655.3	661.8	660.2
20°	5099.9	4769.0	3331.8	1703.2	807.8	650.5	626.1	622.9	627.8	632.6	632.6
22.5°	5221.5	4778.7	2950.6	1179.3	660.2	605.0	592.1	592.1	598.6	605.0	606.7
25°	5312.4	4725.2	2494.8	846.7	582.3	561.2	554.8	556.4	562.9	566.1	564.5
27.5°	5327.0	4574.3	2011.4	648.8	528.8	507.7	501.2	507.7	499.6	504.5	501.2
30°	5340.0	4382.9	1521.5	546.6	480.1	447.7	438.0	428.2	421.7	413.6	412.0
32.5°	5380.5	4157.4	1111.1	491.5	434.7	399.0	376.3	348.8	327.7	321.2	319.6
35°	5398.3	3886.6	815.9	447.7	394.2	355.2	314.7	275.8	244.9	233.6	241.7
37.5°	5466.5	3623.8	632.6	415.3	358.5	309.8	257.9	209.3	180.1	173.6	176.8
40°	5606.0	3338.3	530.4	387.7	327.7	267.6	204.4	157.3	137.9	131.4	129.8
42.5°	5829.8	3054.4	472.0	361.7	296.8	225.5	160.6	123.3	107.1	102.2	102.2
45°	6102.3	2781.9	431.5	334.2	264.4	181.7	126.5	98.9	89.2	86.0	86.0
47.5°	6460.8	2543.5	397.4	306.6	228.7	144.4	102.2	86.0	79.5	81.1	82.7
50°	6824.2	2366.6	360.1	275.8	188.2	118.4	87.6	76.2	74.6	76.2	76.2
52.5°	7098.3	2262.8	309.8	233.6	147.6	98.9	77.9	71.4	69.8	66.5	66.5
55°	7468.1	2240.1	246.6	189.8	116.8	82.7	69.8	64.9	60.0	56.8	55.2
57.5°	7943.4	2266.1	189.8	147.6	90.8	68.1	61.6	53.5	47.0	40.6	40.6
60°	8238.6	2207.7	147.6	113.5	66.5	55.2	47.0	38.9	30.8	26.0	24.3
62.5°	8144.6	1961.1	116.8	84.3	47.0	40.6	30.8	26.0	17.8	13.0	11.4
65°	7659.6	1583.2	94.1	58.4	34.1	24.3	16.2	16.2	8.1	1.6	0.0
67.5°	6704.1	1172.8	74.6	38.9	19.5	11.4	8.1	4.9	0.0	0.0	0.0
70°	5456.7	846.7	58.4	24.3	11.4	8.1	3.2	1.6	0.0	0.0	0.0
72.5°	3464.8	485.0	45.4	14.6	8.1	3.2	0.0	0.0	0.0	0.0	0.0
75°	1339.9	189.8	30.8	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	379.6	89.2	17.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	98.9	38.9	9.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.0	16.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.6	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	1.6	0.0	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)