

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: P455491

Luminaire Tested: **GALN-SA6C-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455491
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-SA6C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 25938 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321
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

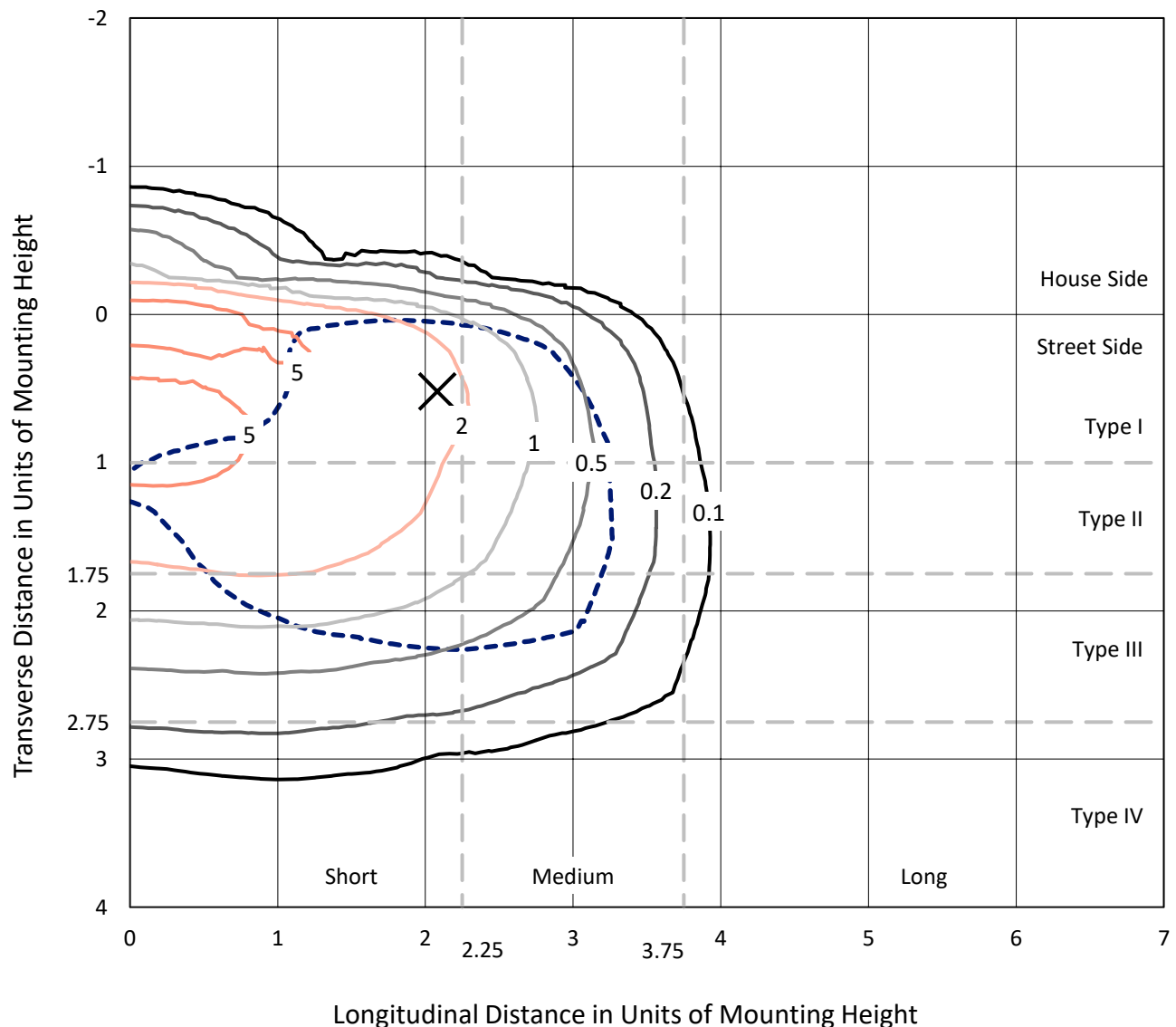


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

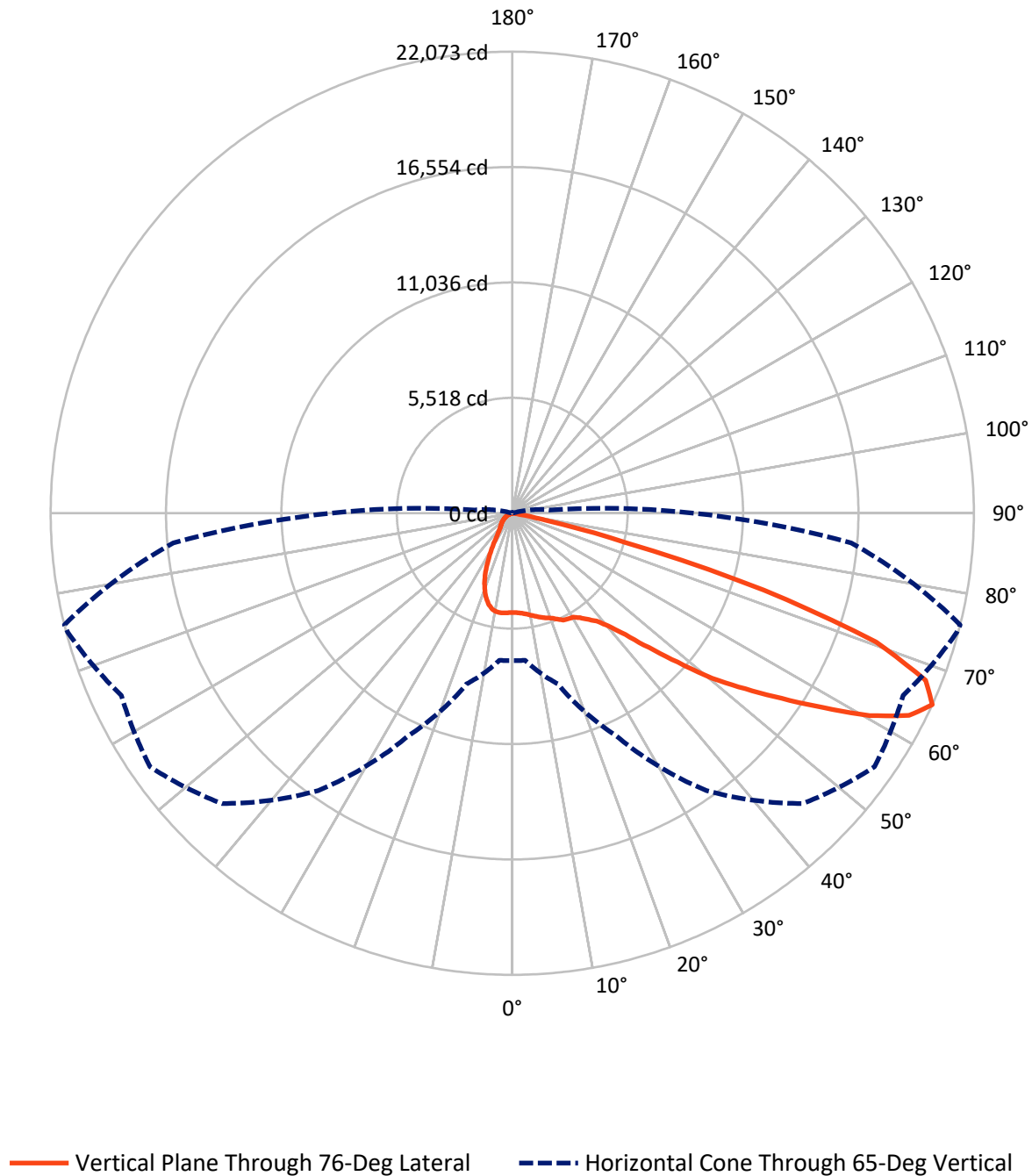


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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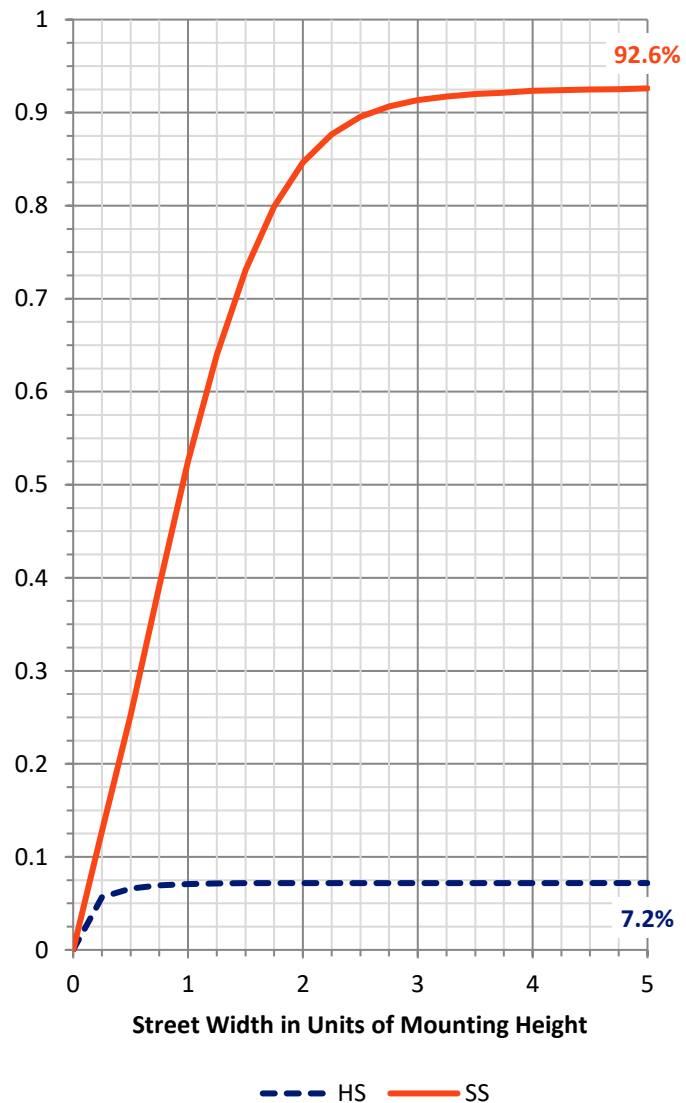
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1873.2	0.0	1873.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24064.8	0.0	24064.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	25938.0	0.0	25938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.9	1.5
10°-20°	870.3	3.4
20°-30°	1402.4	5.4
30°-40°	2438.4	9.4
40°-50°	4029.4	15.5
50°-60°	6224.5	24.0
60°-70°	7601.0	29.3
70°-80°	2884.8	11.1
80°-90°	96.3	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°	25938.0	100.0
0°-180°	25938.0	100.0

Coefficient of Utilization



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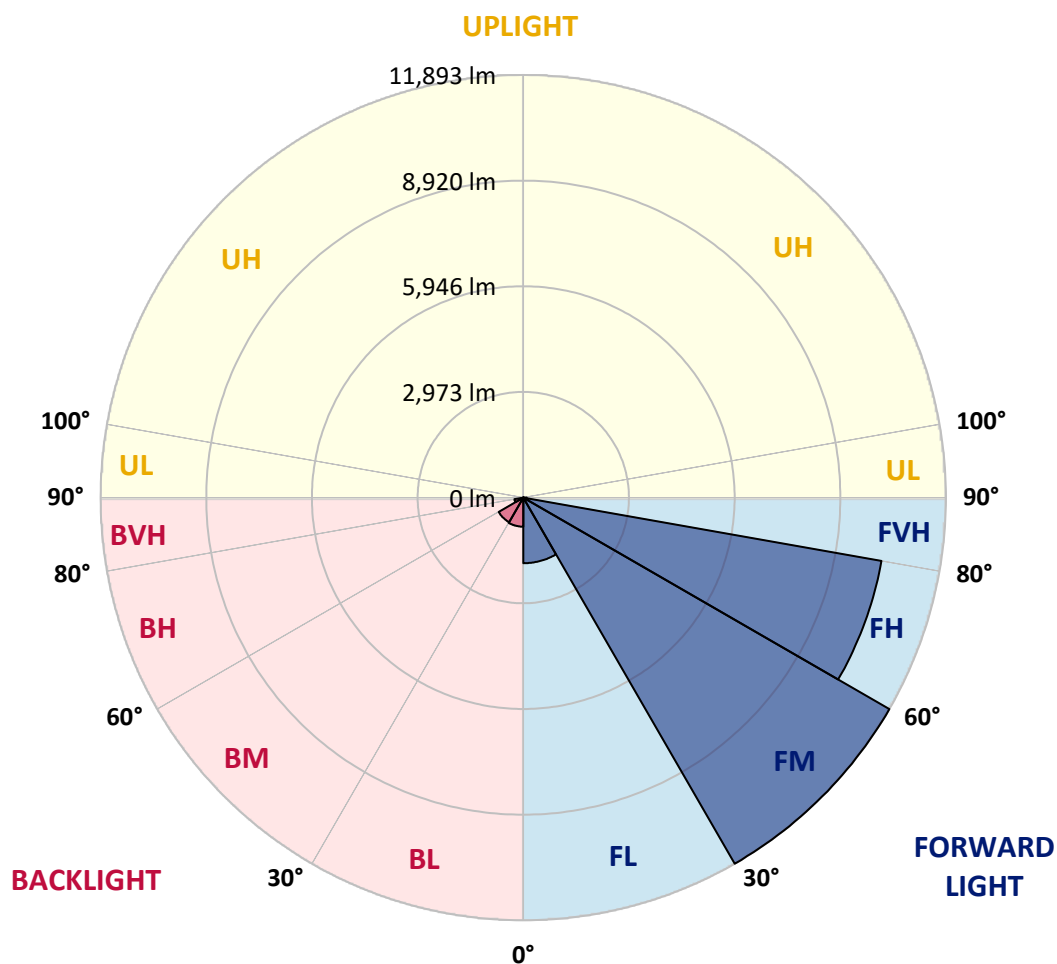
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1845.2	7.1			
FM	(30°-60°)	11893.0	45.9			
FH	(60°-80°)	10231.7	39.4			G4/12000
FVH	(80°-90°)	94.9	0.4			G1/100
BL	(0°-30°)	818.4	3.2	B2/1000		
BM	(30°-60°)	799.4	3.1	B1/1000		
BH	(60°-80°)	254.2	1.0	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9
2.5°	4534.3	4536.1	4547.1	4574.6	4616.7	4651.5	4680.8	4728.4	4761.4	4765.0	4776.0
5°	4221.1	4199.2	4221.1	4292.6	4356.7	4453.7	4572.7	4691.8	4798.0	4805.3	4856.6
7.5°	3869.5	3887.8	3922.6	3995.9	4116.8	4265.1	4437.2	4649.7	4851.1	4869.4	4970.1
10°	3512.4	3552.7	3609.5	3721.2	3889.7	4082.0	4316.4	4620.4	4935.3	4961.0	5135.0
12.5°	3182.8	3201.1	3270.7	3420.9	3629.6	3900.7	4224.8	4603.9	5028.7	5059.9	5310.8
15°	2930.1	2953.9	3014.3	3149.8	3382.4	3730.4	4149.7	4598.4	5120.3	5164.3	5486.6
17.5°	2882.5	2897.1	2922.7	3014.3	3217.6	3594.8	4082.0	4596.6	5208.2	5261.3	5649.5
20°	3078.4	3065.6	3040.0	3030.8	3142.5	3490.5	4032.5	4611.2	5292.4	5352.9	5821.7
22.5°	3569.2	3585.7	3435.5	3257.9	3221.2	3474.0	4025.2	4680.8	5426.1	5497.6	6014.0
25°	4611.2	4484.8	4250.4	3825.6	3505.1	3574.7	4107.6	4845.6	5581.8	5660.5	6187.9
27.5°	5763.1	5724.6	5360.2	4660.6	4063.6	3787.1	4254.1	4972.0	5633.1	5713.6	6286.8
30°	6894.8	6940.6	6523.1	5750.3	4874.9	4180.8	4391.4	5019.6	5678.8	5763.1	6413.2
32.5°	7944.2	7999.1	7632.8	6867.4	5830.8	4862.1	4627.7	5204.5	5871.1	5957.2	6623.8
35°	8770.1	8777.4	8500.9	7891.1	6874.7	5689.8	5138.6	5528.7	6131.2	6231.9	6847.2
37.5°	9528.2	9517.2	9193.1	8667.5	7744.6	6512.1	5781.4	5902.3	6427.8	6532.2	7169.5
40°	10090.4	10097.8	9993.4	9498.9	8555.8	7272.1	6290.5	6252.0	6926.0	7088.9	7638.3
42.5°	10465.9	10533.6	10584.9	10334.0	9575.8	8207.9	7072.5	7001.0	7790.3	7925.8	8301.3
45°	10769.9	10890.7	11147.1	11134.3	10555.6	9356.1	8145.6	7999.1	9015.5	9160.1	9145.5
47.5°	10991.4	11114.1	11539.0	11795.4	11476.7	10469.5	9495.3	9368.9	10478.7	10636.2	10077.6
50°	11105.0	11251.5	11793.5	12289.8	12196.4	11542.7	11033.6	11040.9	12245.9	12397.9	11158.1
52.5°	10839.4	11029.9	11929.1	12822.7	13004.0	12570.0	12474.8	12716.5	13819.0	13949.0	12134.2
55°	9991.6	10231.5	11744.1	13276.9	13939.8	13782.3	14112.0	14480.1	15538.5	15622.8	13135.9
57.5°	9455.0	9709.5	11198.4	13663.3	15064.2	15306.0	15827.9	16097.1	17313.1	17527.3	14285.9
60°	9002.7	9202.3	10749.7	13745.7	16207.0	17170.2	17677.5	17955.9	19503.3	19642.5	15551.4
62.5°	8250.0	8478.9	9991.6	13170.7	16782.0	18662.7	19713.9	19589.4	21197.3	21294.3	16327.8
65°	7039.5	7059.6	8453.3	11725.8	16188.7	19631.5	21144.1	20622.2	22006.7	22072.6	16267.4
67.5°	5254.0	5448.1	6502.9	9216.9	13674.3	18803.7	21607.5	20649.7	21495.8	21312.6	14976.3
70°	3384.2	3532.6	4407.9	6391.2	9859.7	15692.4	20071.0	19234.1	18866.0	18459.5	12258.7
72.5°	1562.1	1752.6	2618.8	3651.6	5847.3	11178.2	16293.0	15626.4	13579.1	12575.5	7792.2
75°	681.2	728.9	1292.9	1926.5	2741.5	5911.4	10742.4	9700.4	6133.0	5601.9	3118.7
77.5°	415.7	446.8	677.6	1032.9	1076.8	2252.5	5786.9	4232.1	1895.4	1672.0	846.1
80°	282.0	316.8	492.6	540.2	368.1	628.1	2171.9	1129.9	382.7	366.3	181.3
82.5°	137.3	174.0	364.4	302.2	159.3	201.4	631.8	241.7	111.7	104.4	64.1
85°	20.1	34.8	205.1	197.8	71.4	47.6	111.7	60.4	38.5	36.6	29.3
87.5°	0.0	0.0	69.6	31.1	7.3	7.3	12.8	12.8	14.7	12.8	14.7
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°	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9	4744.9
2.5°	4781.5	4790.7	4755.9	4706.4	4653.3	4600.2	4525.1	4457.4	4417.1	4440.9	4382.3
5°	4867.6	4860.3	4768.7	4618.5	4418.9	4179.0	3940.9	3737.7	3671.7	3572.9	3561.9
7.5°	4986.6	4966.5	4772.4	4428.1	3977.6	3527.1	3087.6	2796.4	2629.7	2488.7	2492.4
10°	5153.3	5094.7	4730.2	4092.9	3351.3	2671.9	2111.5	1726.9	1560.3	1507.2	1465.0
12.5°	5325.4	5211.9	4613.0	3640.6	2609.6	1825.8	1283.7	1049.3	946.8	913.8	910.2
15°	5479.2	5299.8	4407.9	3096.7	1897.2	1166.5	875.4	798.4	785.6	787.5	785.6
17.5°	5631.2	5369.4	4124.1	2519.9	1289.2	836.9	752.7	734.3	739.8	747.2	745.3
20°	5757.6	5384.0	3761.5	1922.9	912.0	734.3	706.9	703.2	708.7	714.2	714.2
22.5°	5894.9	5395.0	3331.1	1331.4	745.3	683.1	668.4	668.4	675.7	683.1	684.9
25°	5997.5	5334.6	2816.5	955.9	657.4	633.6	626.3	628.1	635.5	639.1	637.3
27.5°	6014.0	5164.3	2270.8	732.5	597.0	573.2	565.9	573.2	564.0	569.5	565.9
30°	6028.6	4948.2	1717.8	617.1	542.1	505.4	494.4	483.5	476.1	467.0	465.1
32.5°	6074.4	4693.6	1254.4	554.9	490.8	450.5	424.9	393.7	369.9	362.6	360.8
35°	6094.6	4387.8	921.1	505.4	445.0	401.1	355.3	311.3	276.5	263.7	272.9
37.5°	6171.5	4091.1	714.2	468.8	404.7	349.8	291.2	236.2	203.3	195.9	199.6
40°	6329.0	3768.8	598.8	437.7	369.9	302.2	230.7	177.6	155.7	148.3	146.5
42.5°	6581.7	3448.3	532.9	408.4	335.1	254.6	181.3	139.2	120.9	115.4	115.4
45°	6889.3	3140.7	487.1	377.2	298.5	205.1	142.8	111.7	100.7	97.1	97.1
47.5°	7294.1	2871.5	448.7	346.1	258.2	163.0	115.4	97.1	89.7	91.6	93.4
50°	7704.3	2671.9	406.5	311.3	212.4	133.7	98.9	86.1	84.2	86.1	86.1
52.5°	8013.8	2554.7	349.8	263.7	166.6	111.7	87.9	80.6	78.7	75.1	75.1
55°	8431.3	2529.0	278.4	214.3	131.9	93.4	78.7	73.3	67.8	64.1	62.3
57.5°	8967.9	2558.3	214.3	166.6	102.6	76.9	69.6	60.4	53.1	45.8	45.8
60°	9301.2	2492.4	166.6	128.2	75.1	62.3	53.1	44.0	34.8	29.3	27.5
62.5°	9194.9	2214.0	131.9	95.2	53.1	45.8	34.8	29.3	20.1	14.7	12.8
65°	8647.4	1787.3	106.2	65.9	38.5	27.5	18.3	18.3	9.2	1.8	0.0
67.5°	7568.7	1324.0	84.2	44.0	22.0	12.8	9.2	5.5	0.0	0.0	0.0
70°	6160.5	955.9	65.9	27.5	12.8	9.2	3.7	1.8	0.0	0.0	0.0
72.5°	3911.6	547.6	51.3	16.5	9.2	3.7	0.0	0.0	0.0	0.0	0.0
75°	1512.7	214.3	34.8	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	428.5	100.7	20.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.7	44.0	11.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.1	18.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.1	7.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	1.8	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)