

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: P452925

Luminaire Tested: **GALN-SA3D-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18189 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184
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



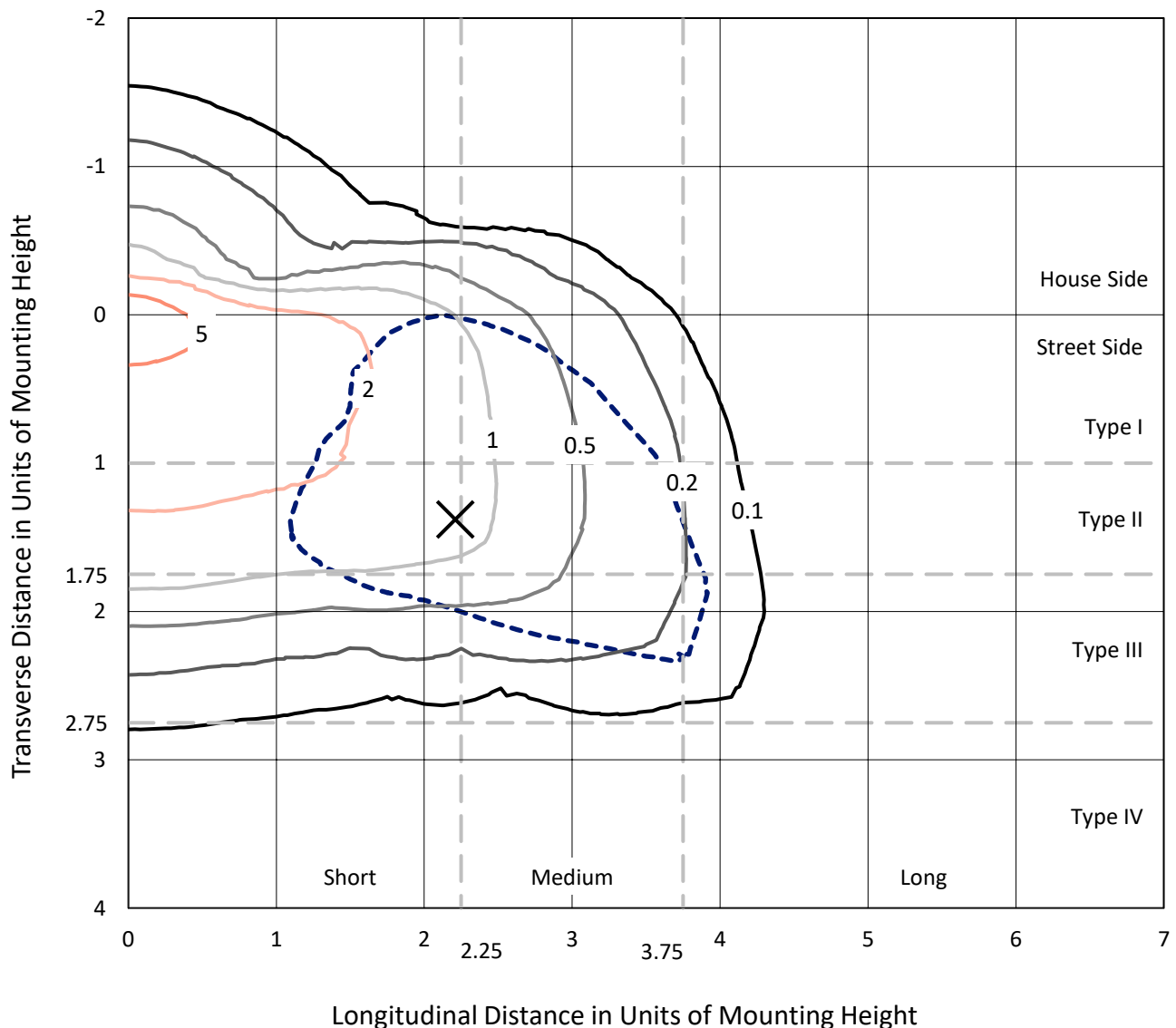
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



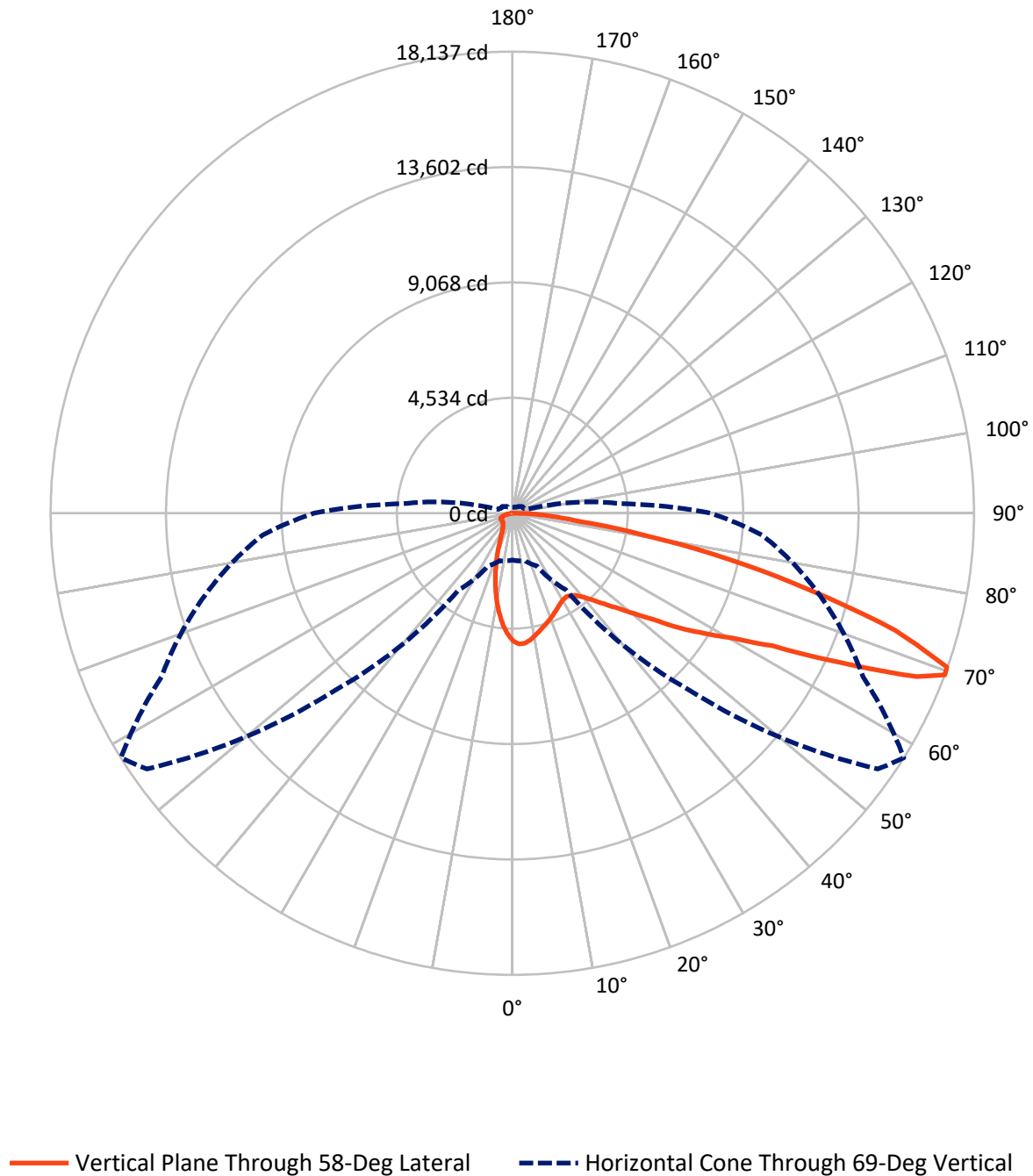
Based on 25 foot mounting height. Maximum calculated value = 8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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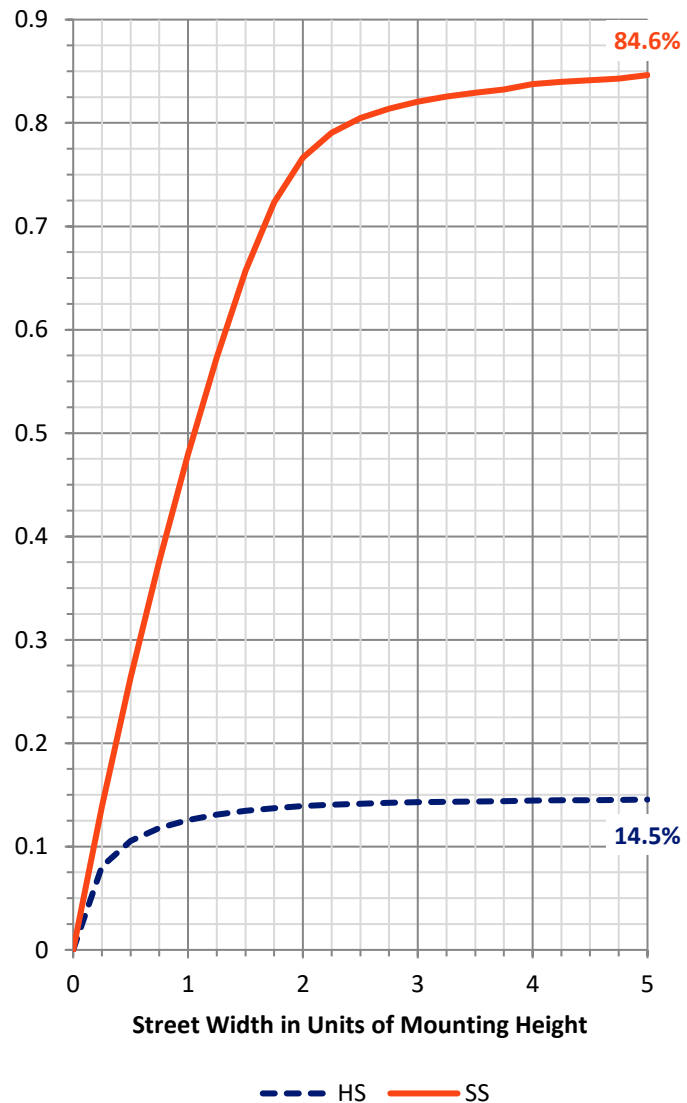
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2665.6	0.0	2665.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15523.4	0.0	15523.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	18189.0	0.0	18189.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.9	2.3
10°-20°	937.3	5.2
20°-30°	1211.0	6.7
30°-40°	1572.9	8.6
40°-50°	2286.7	12.6
50°-60°	3648.9	20.1
60°-70°	4874.5	26.8
70°-80°	2809.9	15.4
80°-90°	420.9	2.3
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°	18189.0	100.0
0°-180°	18189.0	100.0



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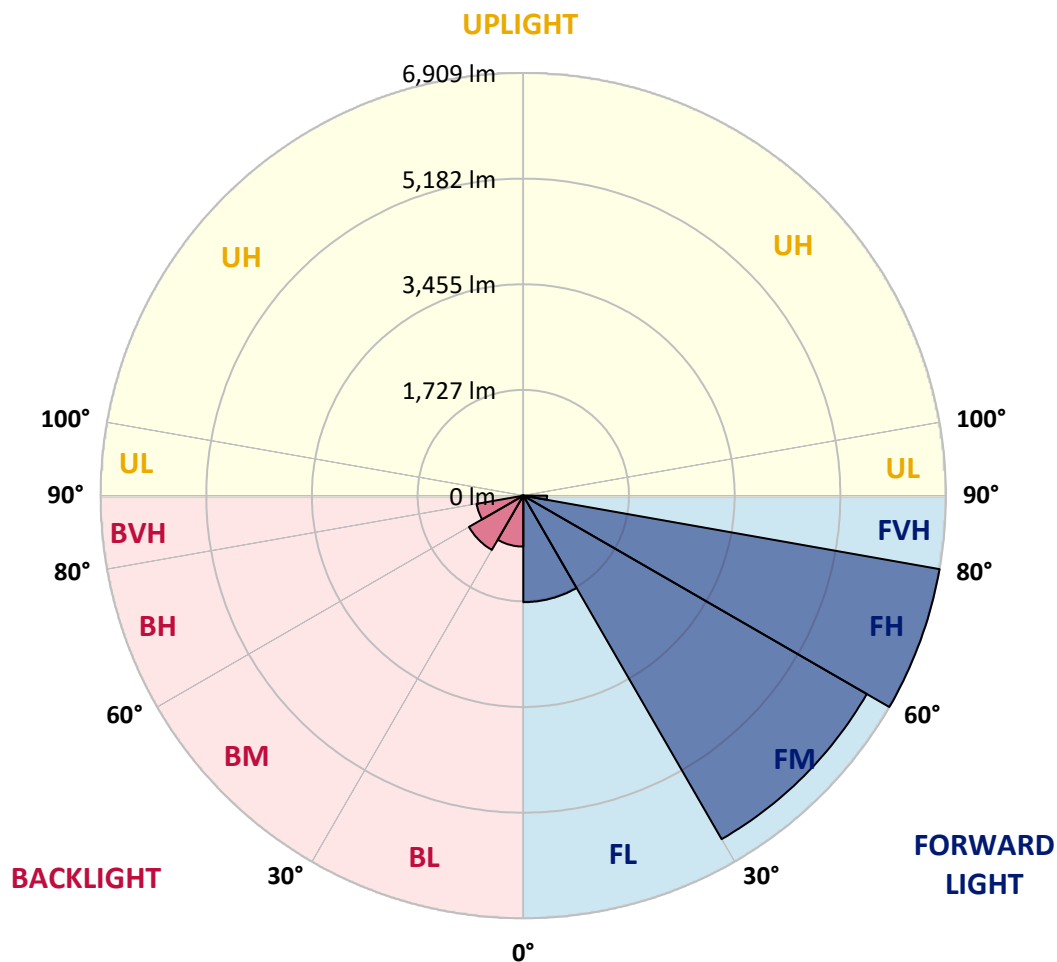
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1742.0	9.6			
FM	(30°-60°)	6483.4	35.6			
FH	(60°-80°)	6909.3	38.0			G3/7500
FVH	(80°-90°)	388.6	2.1			G3/500
BL	(0°-30°)	833.2	4.6	B2/1000		
BM	(30°-60°)	1025.1	5.6	B2/2500		
BH	(60°-80°)	775.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	32.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4
2.5°	5213.0	5227.2	5223.2	5218.1	5210.0	5187.7	5151.1	5145.1	5121.7	5072.0	5010.1
5°	5132.9	5145.1	5146.1	5153.2	5163.3	5159.3	5132.9	5129.8	5095.4	5028.4	4924.9
7.5°	4858.0	4874.2	4909.7	4949.3	4984.8	5018.3	5026.4	5031.4	5010.1	4933.0	4795.1
10°	4548.6	4564.8	4581.1	4639.9	4727.1	4810.3	4879.3	4888.4	4893.5	4822.5	4654.1
12.5°	4205.7	4239.2	4273.7	4360.9	4477.6	4608.4	4730.2	4749.4	4783.9	4730.2	4532.4
15°	3914.6	3949.1	3998.8	4076.9	4217.9	4406.6	4578.0	4609.5	4677.4	4650.0	4418.7
17.5°	3712.7	3724.9	3759.4	3848.7	4000.8	4199.6	4428.9	4491.8	4600.3	4593.2	4321.4
20°	3553.5	3568.7	3590.0	3644.8	3803.0	4013.0	4289.9	4371.1	4518.2	4542.5	4225.0
22.5°	3486.5	3497.7	3494.6	3524.0	3631.6	3842.6	4148.9	4245.3	4445.1	4508.0	4135.7
25°	3490.6	3500.7	3485.5	3478.4	3542.3	3692.4	4001.8	4124.6	4386.3	4484.7	4054.6
27.5°	3558.5	3565.6	3537.2	3508.8	3513.9	3599.1	3880.1	4016.0	4336.6	4494.8	3986.6
30°	3649.8	3663.0	3644.8	3610.3	3572.7	3576.8	3802.0	3935.9	4313.2	4530.3	3954.1
32.5°	3767.5	3779.7	3771.6	3744.2	3695.5	3641.7	3782.7	3906.5	4315.3	4602.4	3947.0
35°	3891.3	3915.6	3928.8	3926.8	3887.2	3793.9	3858.8	3961.2	4364.0	4723.1	3988.6
37.5°	4031.2	4051.5	4108.3	4144.9	4108.3	3999.8	4030.2	4101.2	4471.5	4897.5	4079.9
40°	4167.2	4197.6	4280.8	4394.4	4380.2	4284.8	4291.9	4338.6	4661.2	5157.2	4258.5
42.5°	4309.2	4345.7	4490.8	4659.2	4692.6	4618.6	4637.9	4679.4	4931.0	5517.3	4564.8
45°	4491.8	4535.4	4713.9	4923.9	5055.8	5010.1	5064.9	5085.2	5292.1	5986.0	4968.6
47.5°	4727.1	4777.8	4998.0	5259.7	5446.3	5487.9	5583.3	5571.1	5739.5	6540.9	5492.0
50°	5123.8	5152.2	5360.1	5626.9	5883.5	6071.2	6174.7	6194.0	6294.4	7080.5	6077.3
52.5°	5595.5	5620.8	5770.9	6004.3	6325.8	6723.5	6979.1	6916.2	6940.6	7737.9	6762.0
55°	6126.0	6168.6	6263.9	6419.2	6836.1	7421.4	7934.7	7949.9	7680.1	8366.8	7418.3
57.5°	6536.8	6608.8	6772.2	6993.3	7521.8	8197.4	8887.2	8897.3	8552.4	9038.3	8142.6
60°	6329.9	6415.1	6788.4	7327.0	8421.6	9551.6	10025.4	9967.5	9401.5	9803.2	9026.2
62.5°	5437.2	5452.4	5995.1	6837.1	8698.5	11363.4	11719.4	11474.9	10534.6	10773.0	9923.9
65°	3519.0	3618.4	4048.5	5228.2	7788.6	12368.6	14687.6	14122.5	12123.1	11873.6	10675.6
67.5°	2221.5	2196.2	2374.7	2985.4	5357.1	11483.1	17220.5	17131.3	14200.6	12568.5	10496.0
69°	1842.2	1870.6	1931.4	2288.5	3686.3	9804.2	17519.8	18136.5	15208.0	12513.7	9843.8
70°	1670.7	1683.9	1747.8	2028.8	2844.4	8211.6	17028.8	18109.2	15603.6	12284.4	9371.1
72.5°	1325.8	1324.8	1434.4	1688.0	2126.2	4687.6	13982.6	15722.3	15161.3	11217.3	7743.0
75°	1007.3	1023.5	1144.2	1428.3	1958.8	2561.4	9757.6	12107.9	12108.9	8859.8	4831.6
77.5°	726.3	736.5	877.5	1199.0	1845.2	2076.5	6499.3	8684.3	8163.9	4059.6	1518.6
80°	475.8	481.8	589.4	949.5	1663.6	1958.8	3853.7	5315.5	3850.7	1077.3	502.1
82.5°	260.7	291.1	360.1	614.7	1335.0	1809.7	2342.3	2690.2	1444.5	479.8	261.7
85°	130.9	139.0	202.9	359.1	872.4	1497.3	1631.2	1542.9	745.6	238.4	135.9
87.5°	38.5	48.7	84.2	139.0	354.0	780.1	907.9	814.6	287.1	86.2	28.4
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°	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4	5026.4
2.5°	4984.8	4966.5	4885.4	4812.3	4745.4	4674.4	4614.5	4561.8	4566.8	4567.9	4514.1
5°	4871.2	4829.6	4675.4	4531.3	4409.6	4255.4	4123.6	4038.3	3995.7	3938.9	3959.2
7.5°	4717.0	4636.8	4422.8	4183.4	3959.2	3759.4	3542.3	3393.2	3297.8	3205.5	3217.7
10°	4557.7	4428.9	4117.5	3801.0	3510.9	3191.3	2914.4	2677.0	2500.5	2434.6	2391.0
12.5°	4394.4	4225.0	3829.4	3408.4	3007.7	2625.3	2232.7	1978.1	1783.3	1679.9	1693.0
15°	4245.3	4039.4	3529.1	3015.8	2495.4	2040.0	1648.4	1406.0	1270.0	1241.6	1257.9
17.5°	4107.3	3837.5	3248.1	2634.4	2026.8	1529.7	1238.6	1101.6	1046.9	1031.6	1030.6
20°	3965.3	3666.1	2932.6	2226.6	1579.4	1185.8	1016.4	952.5	942.4	948.5	949.5
22.5°	3821.3	3454.0	2608.0	1821.9	1257.9	969.8	888.6	871.4	879.5	893.7	895.7
25°	3688.4	3267.4	2295.6	1466.8	1004.3	852.1	812.5	812.5	830.8	852.1	853.1
27.5°	3578.8	3086.8	1984.2	1164.5	840.9	766.9	753.7	760.8	786.2	802.4	803.4
30°	3488.5	2918.4	1690.0	933.3	739.5	698.9	695.9	708.1	726.3	741.5	742.5
32.5°	3420.6	2770.3	1415.1	784.1	669.5	647.2	646.2	655.3	665.4	669.5	673.6
35°	3394.2	2647.6	1163.5	689.8	622.8	608.6	608.6	607.6	611.7	613.7	615.7
37.5°	3415.5	2553.3	968.8	628.9	588.4	578.2	572.1	566.0	564.0	564.0	565.0
40°	3505.8	2503.6	823.7	589.4	564.0	548.8	537.6	530.5	523.4	525.5	527.5
42.5°	3697.5	2512.7	725.3	563.0	542.7	521.4	505.2	497.1	492.0	498.1	497.1
45°	4002.8	2604.0	662.4	544.7	521.4	494.0	478.8	470.7	470.7	479.8	482.9
47.5°	4429.9	2778.5	628.9	530.5	505.2	472.7	457.5	451.4	453.4	468.7	469.7
50°	4951.3	3081.8	622.8	523.4	497.1	457.5	440.3	434.2	439.2	455.5	457.5
52.5°	5526.5	3472.3	652.3	524.4	490.0	448.4	426.0	416.9	422.0	435.2	439.2
55°	6208.2	3961.2	728.3	528.5	479.8	443.3	415.9	395.6	401.7	410.8	411.8
57.5°	6904.0	4578.0	862.2	529.5	471.7	434.2	398.7	372.3	372.3	378.4	381.4
60°	7754.1	5249.5	1038.8	530.5	472.7	421.0	375.3	345.9	341.9	344.9	345.9
62.5°	8598.1	5811.5	1068.2	527.5	482.9	407.8	350.0	319.5	312.4	311.4	309.4
65°	8970.4	5707.0	875.4	513.3	494.0	399.7	329.7	294.2	282.0	277.9	277.9
67.5°	8363.8	4827.6	658.3	494.0	486.9	391.6	310.4	272.9	258.7	250.6	250.6
69°	7793.7	4294.0	591.4	480.8	468.7	378.4	298.2	261.7	244.5	235.3	232.3
70°	7353.4	3926.8	563.0	469.7	451.4	363.2	289.1	253.6	234.3	224.2	222.2
72.5°	5868.3	3080.7	493.0	427.1	384.5	305.3	256.6	228.2	210.0	198.8	195.8
75°	3382.0	1669.7	408.8	371.3	309.4	237.4	217.1	198.8	184.6	174.5	171.4
77.5°	1040.8	645.2	296.2	293.2	227.2	183.6	173.5	166.4	156.2	145.1	143.0
80°	438.2	328.7	200.9	197.8	151.1	127.8	124.8	123.8	119.7	110.6	107.5
82.5°	240.4	185.6	140.0	121.7	91.3	74.1	77.1	78.1	75.1	65.9	59.8
85°	117.7	101.4	68.0	54.8	41.6	26.4	25.4	30.4	28.4	20.3	22.3
87.5°	23.3	28.4	18.3	8.1	4.1	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)