Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P950114

Luminaire Tested: **GALN-SB4C-930-U-T2R-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P950114
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB4C-930-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17678 lumens
Efficiency:	N/A
Efficacy:	88.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	200.7
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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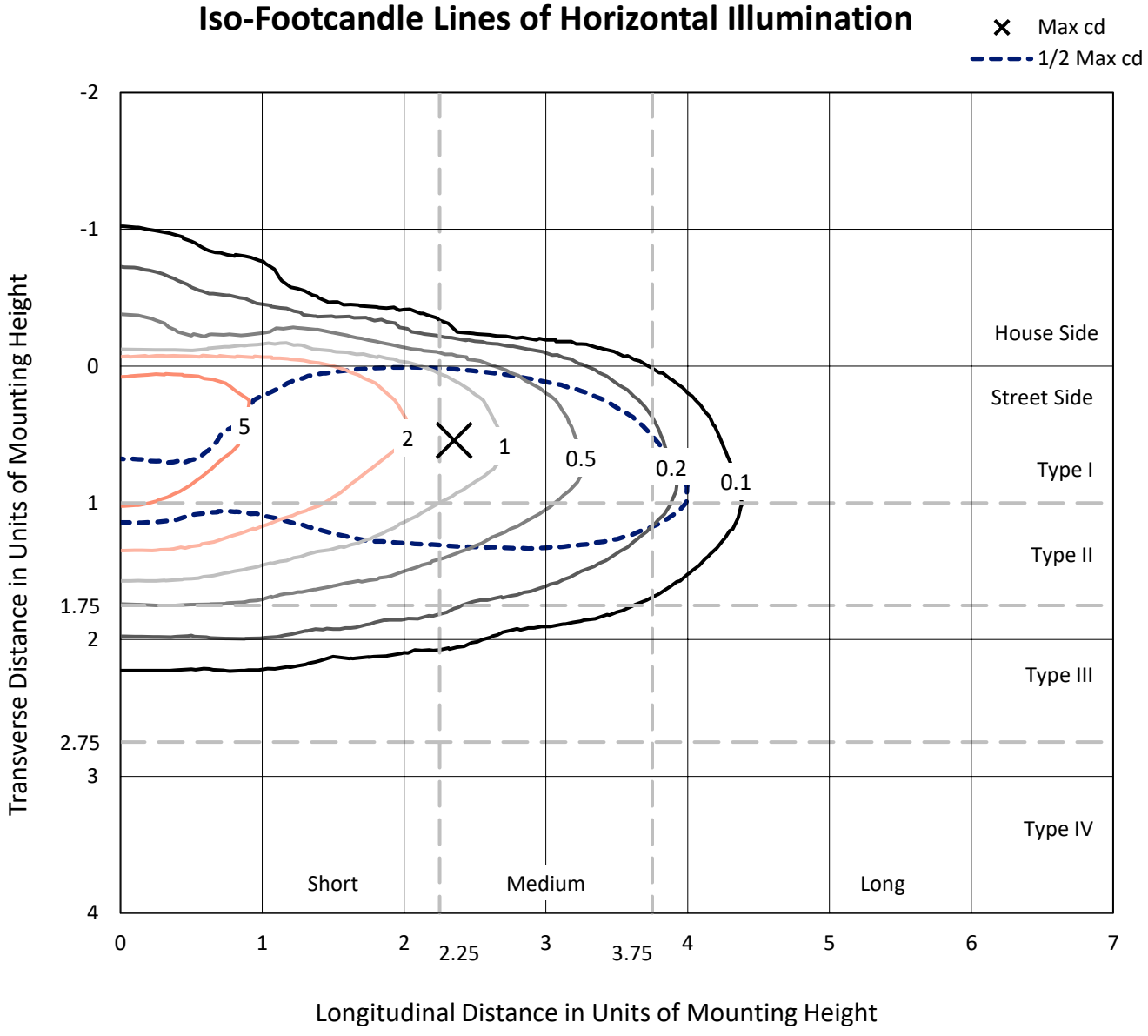
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Medium - N/A

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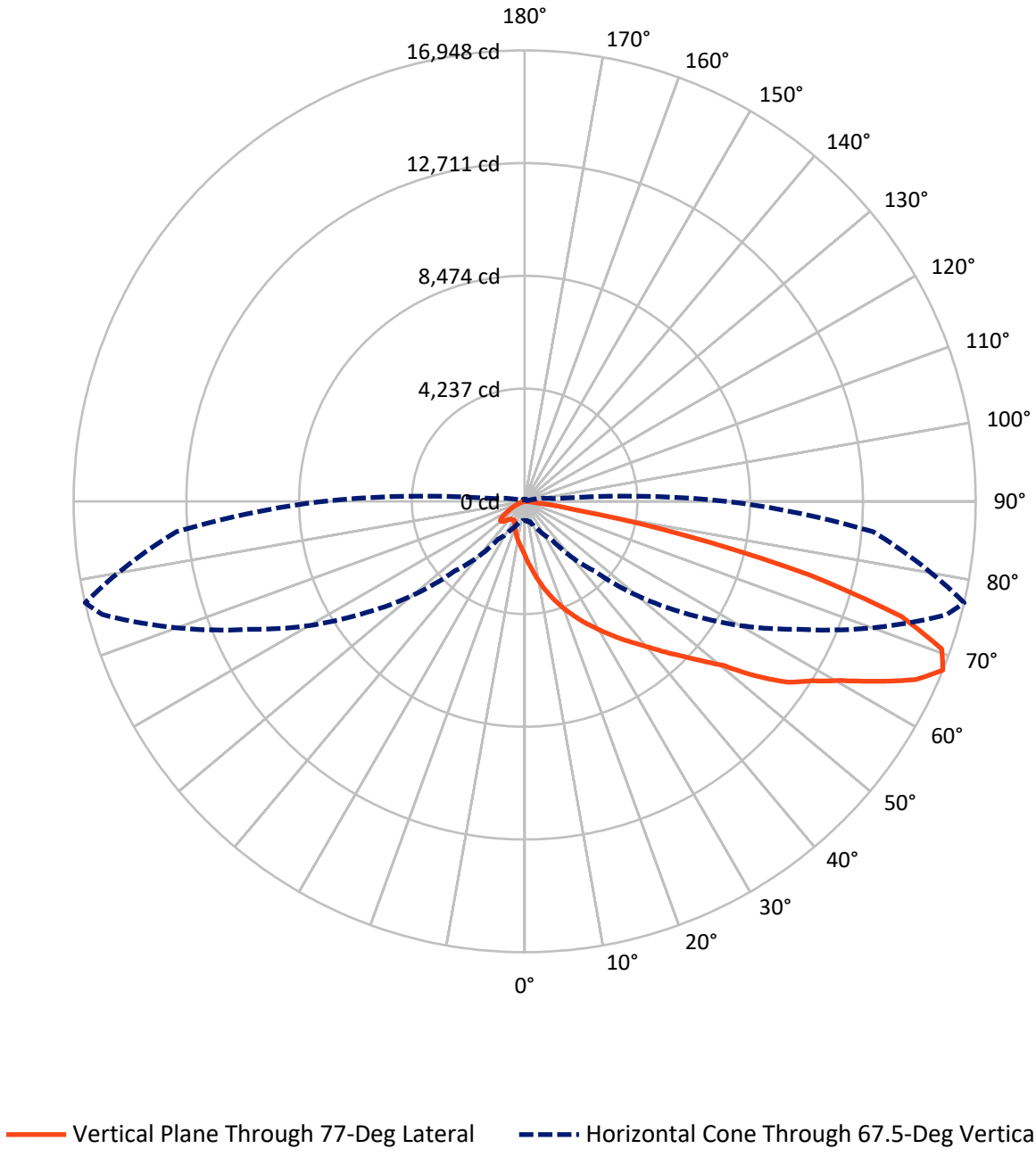
Luminous Intensity Polar Plot



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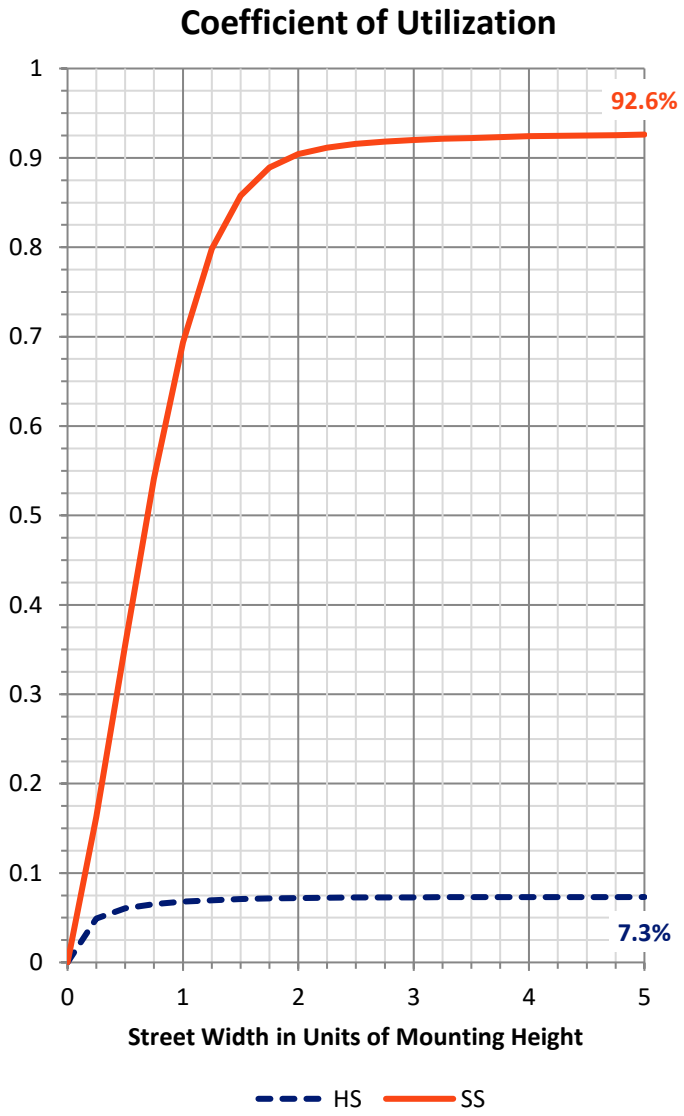
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1300.6	0.0	1300.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	16377.4	0.0	16377.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	17678.0	0.0	17678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	1.2
10°-20°	728.6	4.1
20°-30°	1406.0	8.0
30°-40°	2441.0	13.8
40°-50°	3544.1	20.0
50°-60°	4070.0	23.0
60°-70°	3533.5	20.0
70°-80°	1664.3	9.4
80°-90°	82.3	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°	17678.0	100.0
0°-180°	17678.0	100.0



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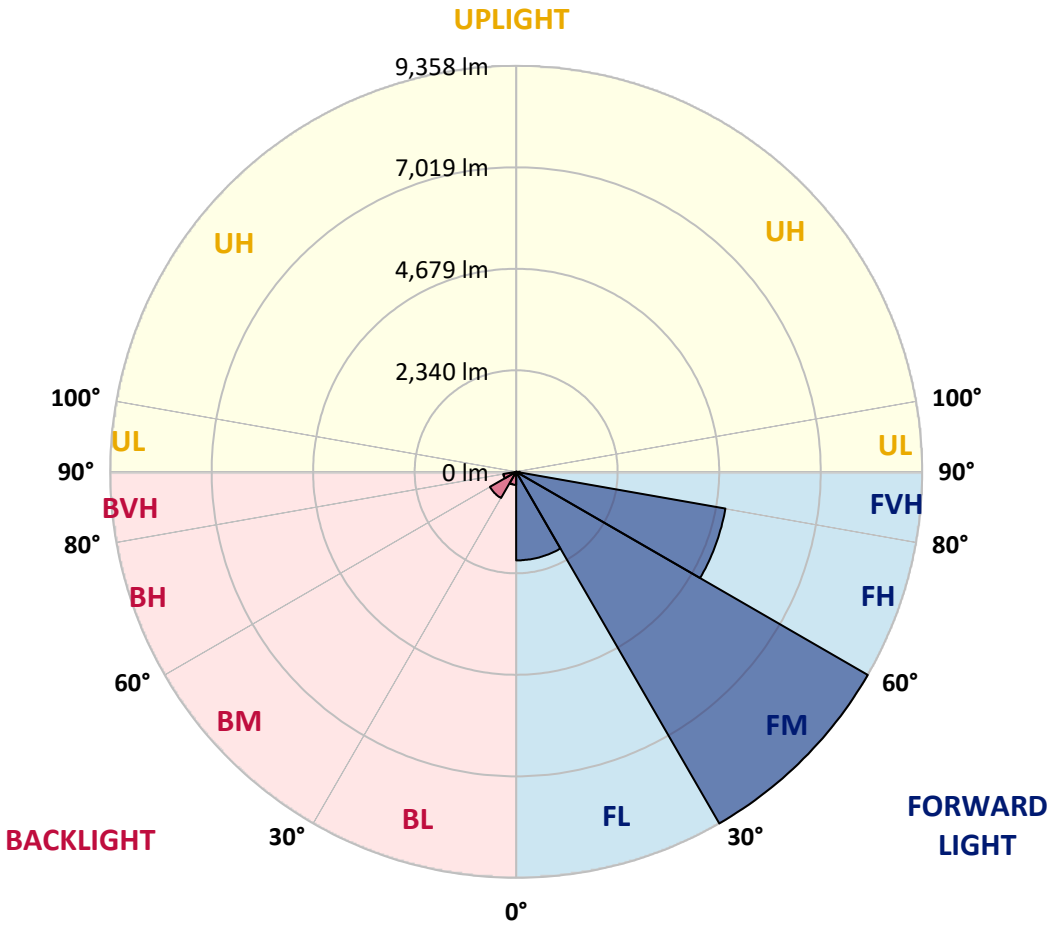
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2041.6	11.5			
FM	(30°-60°)	9358.3	52.9			
FH	(60°-80°)	4896.8	27.7			G2/5000
FVH	(80°-90°)	80.8	0.5			G1/100
BL	(0°-30°)	301.1	1.7	B1/500		
BM	(30°-60°)	696.9	3.9	B1/1000		
BH	(60°-80°)	301.1	1.7	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5
2.5°	2822.3	2839.9	2814.6	2766.3	2693.9	2646.7	2531.4	2422.7	2302.0	2263.6
5°	3440.4	3455.7	3427.2	3374.5	3277.9	3185.7	3034.2	2807.0	2570.9	2495.2
7.5°	3898.1	3906.9	3895.9	3847.6	3755.4	3651.1	3482.1	3213.1	2862.9	2779.5
10°	4227.5	4256.0	4252.7	4234.0	4172.6	4088.0	3908.0	3601.7	3190.1	3082.5
12.5°	4445.9	4477.7	4496.4	4538.1	4534.8	4481.0	4323.0	3999.1	3516.1	3389.9
15°	4509.6	4543.6	4615.0	4711.6	4797.2	4824.6	4713.8	4388.8	3875.1	3713.7
17.5°	4473.4	4526.0	4611.7	4764.3	4952.0	5076.0	5063.9	4765.4	4201.1	4016.7
20°	4553.5	4604.0	4671.0	4799.4	5017.8	5242.9	5332.9	5125.4	4525.0	4331.7
22.5°	4997.0	4988.2	4994.8	5015.6	5146.3	5369.1	5554.6	5452.6	4845.5	4647.9
25°	5699.6	5660.0	5593.1	5480.0	5447.1	5554.6	5747.9	5742.4	5183.6	4971.7
27.5°	6505.3	6498.7	6341.7	6069.5	5915.8	5874.1	5966.3	6024.5	5518.4	5292.3
30°	7277.0	7294.6	7082.7	6779.7	6497.6	6334.1	6250.6	6292.3	5858.7	5638.1
32.5°	7948.9	7967.5	7737.0	7382.4	7033.3	6835.7	6660.1	6556.9	6229.8	5989.4
35°	8516.4	8535.1	8270.5	7878.6	7506.5	7327.5	7128.8	6846.7	6603.0	6379.1
37.5°	9023.6	9018.1	8663.5	8268.3	7902.7	7761.1	7656.8	7203.5	6987.2	6771.0
40°	9323.2	9346.3	9043.3	8607.5	8252.9	8149.7	8143.2	7645.9	7430.7	7221.0
42.5°	9411.1	9451.7	9232.1	8874.3	8552.6	8440.6	8613.0	8124.5	7946.7	7742.5
45°	9253.0	9292.5	9192.6	8944.5	8756.8	8684.3	9017.0	8620.7	8497.7	8295.7
47.5°	8791.9	8841.3	8865.5	8812.8	8810.6	8884.1	9379.2	9143.2	9152.0	8945.6
50°	7899.5	7982.9	8204.6	8391.2	8680.0	9042.2	9731.6	9709.7	9889.7	9711.8
52.5°	6277.0	6395.5	7159.6	7670.0	8318.8	9012.6	10119.1	10618.6	11183.9	10923.8
55°	5044.2	5044.2	5665.5	6620.6	7614.0	8817.2	10288.2	11209.2	12065.4	12004.0
57.5°	4112.2	4161.6	4557.9	5402.1	6594.2	8351.7	10392.5	11580.2	12775.7	12730.7
60°	2538.0	2644.5	3393.2	4226.4	5433.9	7522.9	10326.6	11955.7	13637.4	13673.7
62.5°	1429.3	1468.8	1802.5	3040.8	4225.3	6408.7	9822.7	12165.3	14739.6	14893.3
65°	986.9	1006.6	1135.1	1892.5	2928.8	5102.4	8838.0	12034.7	15843.9	16154.6
67.5°	716.8	726.7	806.9	1155.9	1737.7	3699.4	7294.6	11376.0	16429.0	16948.3
70°	551.1	557.7	615.8	759.6	1026.4	2283.3	5297.8	10066.4	16005.3	16625.5
72.5°	447.9	454.5	499.5	562.1	680.6	1350.2	3210.9	8175.0	14134.7	14804.3
75°	377.6	386.4	427.0	467.6	533.5	867.2	1506.1	5693.0	10629.6	11068.7
77.5°	209.7	193.2	346.9	387.5	450.1	548.9	704.8	3350.4	5953.1	6075.0
80°	130.6	135.0	275.5	311.8	345.8	276.6	322.7	1289.9	2063.8	1960.6
82.5°	7.7	17.6	211.9	225.0	237.1	118.6	121.9	438.0	497.3	456.7
85°	0.0	0.0	96.6	77.9	82.3	34.0	35.1	102.1	67.0	72.5
87.5°	0.0	0.0	0.0	2.2	0.0	3.3	6.6	8.8	3.3	4.4
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2038.5	0°	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5
2142.8	2.5°	2066.0	1989.1	1833.3	1680.7	1556.6	1441.4	1359.0	1281.1	1241.6	1239.4
2281.1	5°	2128.5	1967.2	1655.4	1379.9	1158.1	980.3	865.0	782.7	741.0	726.7
2451.3	7.5°	2216.4	1973.8	1499.5	1116.4	855.2	702.6	636.7	610.4	601.6	591.7
2643.4	10°	2327.2	1989.1	1360.1	899.1	674.0	597.2	570.8	559.9	553.3	546.7
2859.7	12.5°	2451.3	2003.4	1221.8	746.5	592.8	553.3	534.6	521.4	512.7	505.0
3081.4	15°	2572.0	2012.2	1078.0	640.0	551.1	519.2	499.5	485.2	473.1	464.4
3298.8	17.5°	2691.7	2024.3	943.0	576.3	517.0	485.2	465.4	447.9	438.0	428.1
3527.1	20°	2824.5	2022.1	815.6	531.3	483.0	451.2	430.3	413.9	404.0	393.0
3768.6	22.5°	2947.5	2011.1	703.7	492.9	447.9	417.1	394.1	377.6	367.7	359.0
4015.6	25°	3089.1	2002.3	610.4	457.8	415.0	384.2	359.0	343.6	332.6	324.9
4263.7	27.5°	3225.2	1989.1	542.3	425.9	383.1	353.5	329.3	311.8	301.9	296.4
4519.5	30°	3359.1	1985.8	517.0	395.2	354.6	324.9	300.8	284.3	276.6	274.4
4800.5	32.5°	3520.5	1994.6	528.0	384.2	328.2	298.6	275.5	263.5	255.8	255.8
5113.3	35°	3692.9	1992.4	544.5	394.1	310.7	272.2	254.7	247.0	239.3	239.3
5460.2	37.5°	3909.1	1995.7	557.7	410.6	304.1	250.3	240.4	230.5	226.1	226.1
5840.1	40°	4231.9	2104.4	551.1	424.8	301.9	234.9	215.2	211.9	208.6	208.6
6269.3	42.5°	4627.0	2340.4	559.9	425.9	300.8	223.9	197.6	204.2	196.5	195.4
6753.4	45°	5059.6	2598.4	615.8	402.9	299.7	218.5	188.8	196.5	184.4	184.4
7314.3	47.5°	5488.8	2854.2	672.9	369.9	296.4	217.4	181.1	176.7	173.4	174.5
8045.5	50°	6080.5	3062.7	694.9	324.9	288.7	215.2	166.9	168.0	165.8	168.0
9076.2	52.5°	6724.9	3106.7	668.5	274.4	266.8	208.6	157.0	161.4	160.3	162.5
9801.9	55°	7126.6	3059.4	552.2	228.3	232.7	182.2	147.1	155.9	155.9	155.9
10511.0	57.5°	7541.6	2858.6	391.9	185.5	193.2	149.3	138.3	150.4	149.3	148.2
11365.1	60°	7840.2	2533.6	258.0	152.6	153.7	122.9	128.4	141.6	140.5	135.0
12245.5	62.5°	8063.0	2174.7	165.8	129.5	117.5	110.9	117.5	128.4	124.0	112.0
12991.9	65°	8037.8	1677.4	127.3	110.9	96.6	96.6	102.1	112.0	98.8	79.0
13134.7	67.5°	*7569.0*	*1135.1*	*105.4*	*93.3*	*81.2*	*80.1*	*84.5*	*93.3*	*84.5*	*67.0*
12403.5	70°	6731.4	742.1	84.5	72.5	64.8	59.3	68.1	80.1	71.4	53.8
10559.3	72.5°	5463.5	452.3	63.7	52.7	47.2	38.4	53.8	65.9	57.1	39.5
7342.9	75°	3534.8	230.5	43.9	34.0	25.2	23.1	39.5	49.4	39.5	24.2
3258.1	77.5°	1352.4	96.6	24.2	15.4	13.2	11.0	22.0	29.6	16.5	5.5
631.2	80°	260.2	40.6	12.1	7.7	6.6	4.4	3.3	2.2	0.0	0.0
112.0	82.5°	45.0	13.2	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
22.0	85°	15.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	5.5	0.0	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

(END O

Scaled Data Report

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180°
2038.5
1237.2
724.5
589.5
544.5
502.8
463.3
427.0
391.9
357.9
323.8
296.4
273.3
255.8
239.3
226.1
208.6
194.3
184.4
174.5
168.0
162.5
155.9
148.2
135.0
109.8
76.8
64.8
51.6
37.3
20.9
4.4
0.0
0.0
0.0
0.0
0.0

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