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: P942892

Luminaire Tested: **GALN-SB7A-840-U-SL4**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

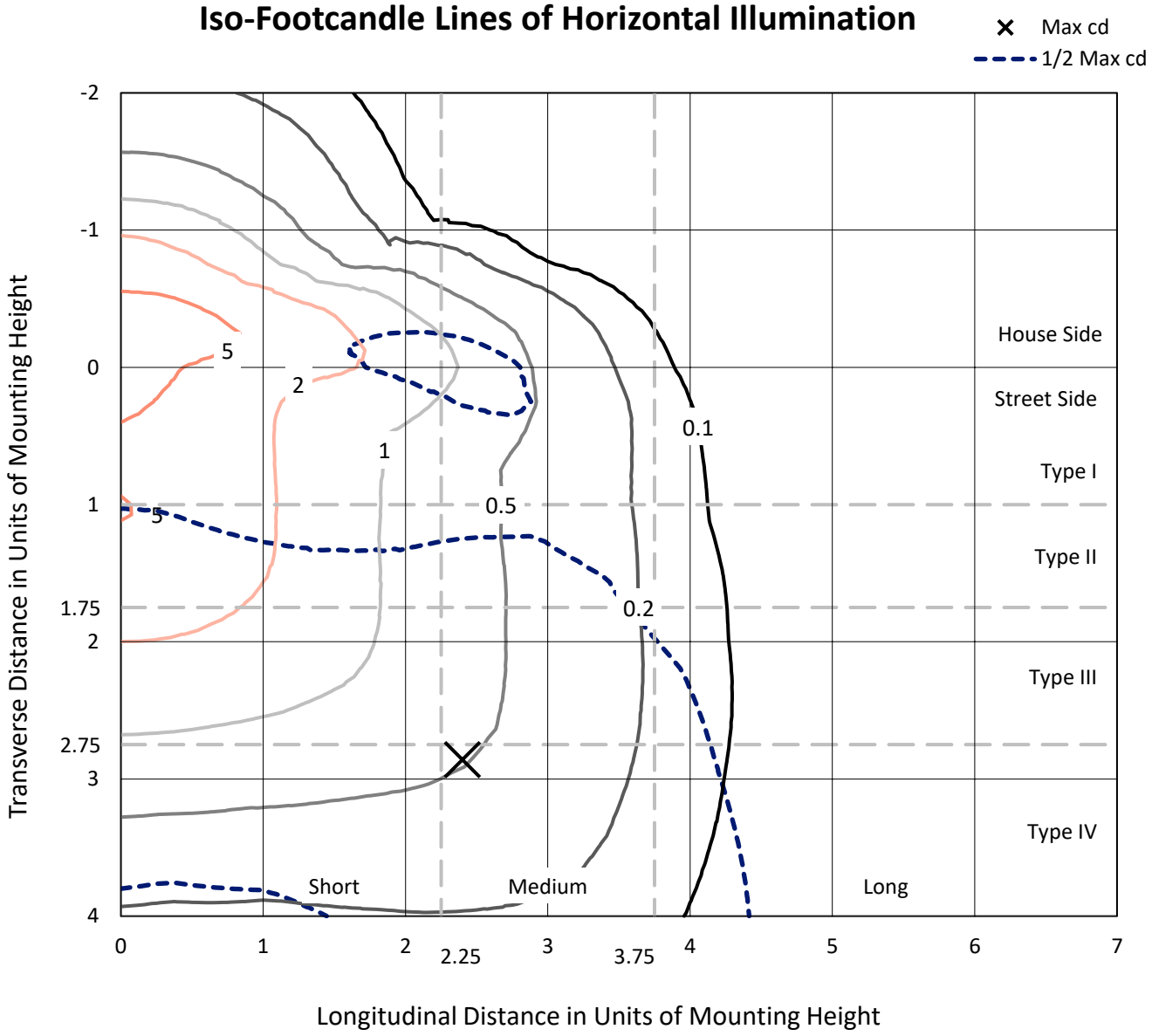
Test Method:	LM-79-08
Report Number:	P942892
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB7A-840-U-SL4
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	30248 lumens
Efficiency:	N/A
Efficacy:	151.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B4 - U0 - G5
Input Watts (W):	199.1
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

REPORT NUMBER: P942892
CATALOG NUMBER: GALN-SB7A-840-U-SL4

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type IV - Medium - N/A

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REPORT NUMBER: P942892
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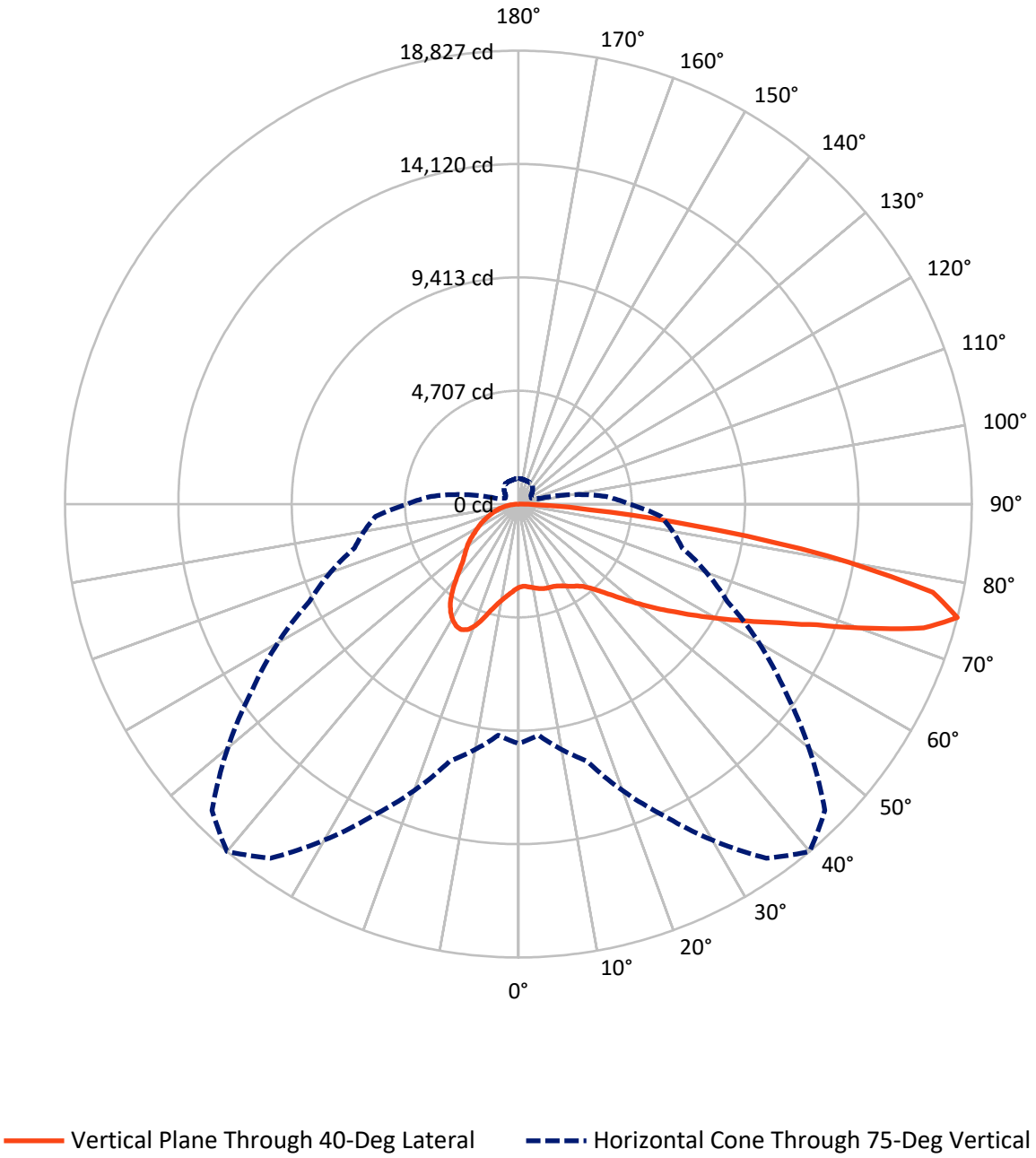
Luminous Intensity Polar Plot



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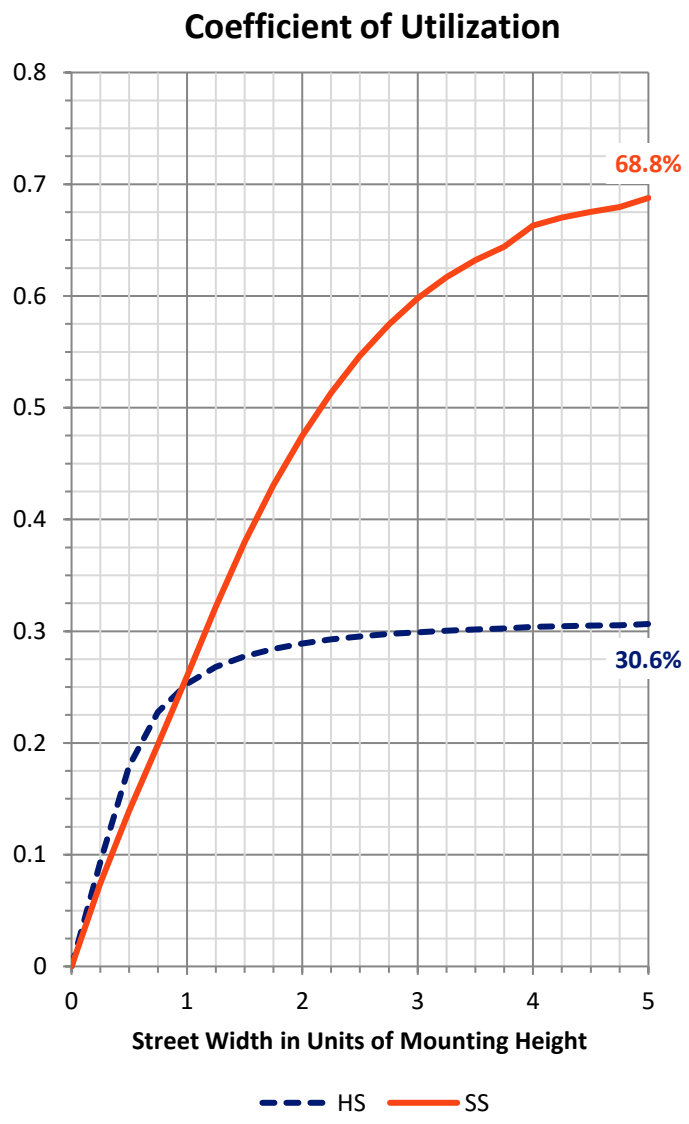
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9371.8	0.0	9371.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20876.2	0.0	20876.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	30248.0	0.0	30248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.3	1.1
10°-20°	1159.2	3.8
20°-30°	2116.6	7.0
30°-40°	3002.0	9.9
40°-50°	4053.5	13.4
50°-60°	5453.1	18.0
60°-70°	6921.2	22.9
70°-80°	6281.4	20.8
80°-90°	915.6	3.0
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°	30248.0	100.0
0°-180°	30248.0	100.0



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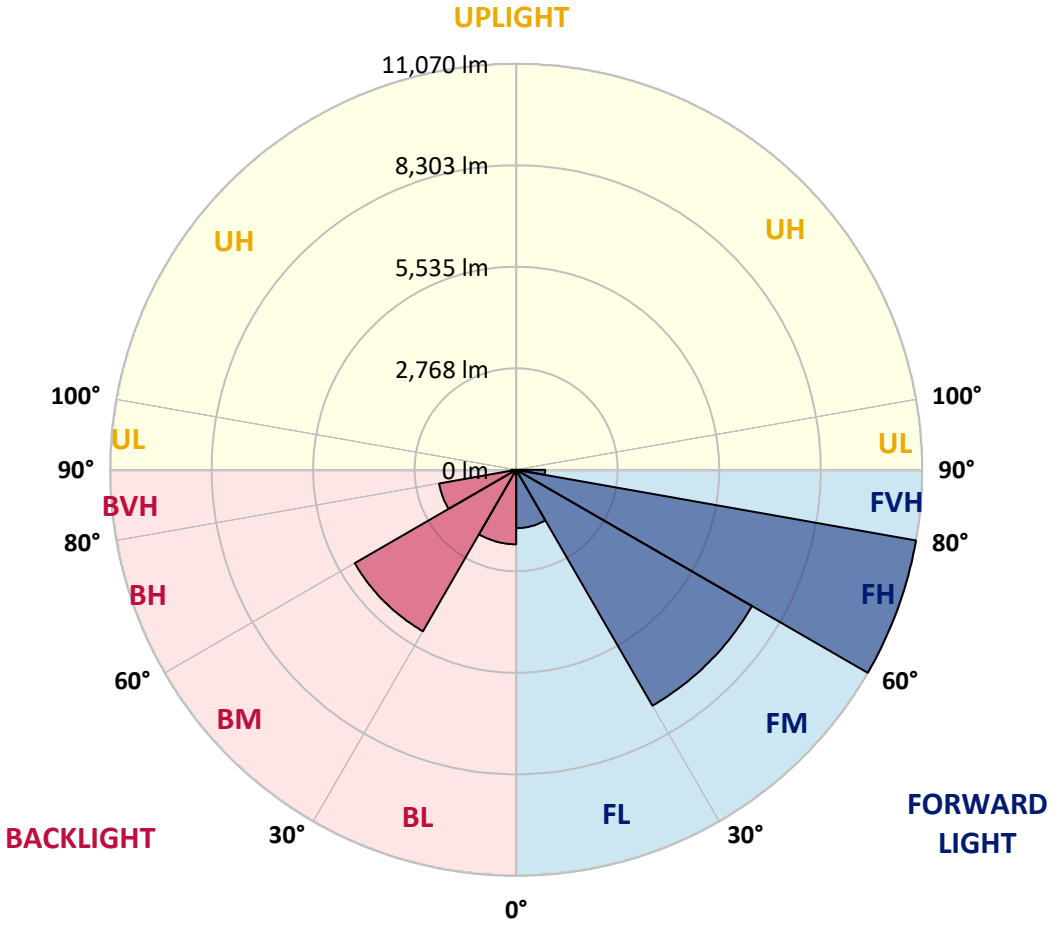
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1591.1	5.3			
FM	(30°-60°)	7425.2	24.5			
FH	(60°-80°)	11070.3	36.6			G4/12000
FVH	(80°-90°)	789.6	2.6			G5
BL	(0°-30°)	2030.0	6.7	B3/2500		
BM	(30°-60°)	5083.4	16.8	B4/8500		
BH	(60°-80°)	2132.4	7.0	B3/2500		G3/2500
BVH	(80°-90°)	126.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3458.9	3458.9	3458.9	3458.9	3458.9	*3458.9*	3458.9	3458.9	3458.9	3458.9
2.5°	3406.0	3425.2	3420.4	3414.0	3414.0	*3415.6*	3414.0	3425.2	3436.4	3447.7
5°	3441.3	3460.5	3450.9	3442.9	3436.4	*3434.8*	3430.0	3428.4	3434.8	3449.3
7.5°	3510.2	3529.5	3515.1	3500.6	3487.8	*3481.4*	3474.9	3465.3	3460.5	3468.5
10°	3587.2	3606.5	3588.8	3563.2	3542.3	*3534.3*	3527.9	3518.3	3511.8	3516.7
12.5°	3664.3	3683.5	3659.4	3624.1	3596.9	*3592.1*	3584.0	3580.8	3579.2	3577.6
15°	3736.4	3752.5	3722.0	3680.3	3651.4	*3643.4*	3635.4	3640.2	3648.2	3657.8
17.5°	3792.6	3808.6	3763.7	3709.2	3681.9	*3678.7*	3673.9	3689.9	3712.4	3736.4
20°	3843.9	3860.0	3802.2	3728.4	3696.3	*3696.3*	3697.9	3731.6	3763.7	3799.0
22.5°	3916.1	3929.0	3858.4	3757.3	3710.8	*3714.0*	3726.8	3760.5	3800.6	3848.7
25°	4023.6	4033.2	3946.6	3811.8	3758.9	*3768.5*	3779.8	3795.8	3834.3	3890.5
27.5°	4196.9	4204.9	4091.0	3908.1	3827.9	*3843.9*	3860.0	3848.7	3866.4	3914.5
30°	4440.7	4445.6	4301.2	4058.9	3945.0	*3953.0*	3956.2	3909.7	3876.0	3914.5
32.5°	4729.5	4727.9	4556.2	4241.8	4078.2	*4070.1*	4042.9	3951.4	3872.8	3906.5
35°	5177.1	5159.5	4938.1	4498.5	4229.0	*4179.2*	4115.1	3997.9	3888.9	3898.5
37.5°	5918.3	5863.8	5557.3	4918.8	4453.6	*4326.8*	4232.2	4073.4	3924.1	3895.3
40°	6754.2	6685.2	6348.3	5494.8	4790.5	*4586.7*	4434.3	4180.8	3981.9	3909.7
42.5°	7745.6	7647.8	7285.2	6173.4	5217.2	*4922.0*	4692.6	4317.2	4066.9	3956.2
45°	8963.3	8833.3	8320.0	6938.7	5754.7	*5361.6*	5055.2	4524.2	4196.9	4046.1
47.5°	10193.8	10225.9	9495.9	7814.6	6399.6	*5903.9*	5509.2	4835.4	4386.2	4190.5
50°	11501.3	11523.8	10665.5	8785.2	7131.2	*6516.7*	6019.4	5183.5	4649.3	4395.8
52.5°	12521.7	12524.9	11727.5	9800.7	7893.2	*7190.5*	6569.7	5581.4	4954.1	4668.6
55°	13160.2	13152.2	12471.9	10761.7	8769.2	*7898.0*	7179.3	6033.8	5326.3	4989.4
57.5°	13623.8	13599.8	12985.3	11588.0	9702.9	*8733.9*	7869.2	6547.2	5765.9	5371.2
60°	13800.3	13785.9	13333.4	12301.9	10684.7	*9658.0*	8664.9	7121.5	6264.8	5822.1
62.5°	13867.7	13895.0	13675.2	12993.3	11735.6	*10681.5*	9539.2	7808.2	6826.4	6332.2
65°	14105.1	14154.9	14109.9	13898.2	12922.7	*11879.9*	10699.2	8624.8	7439.2	6879.3
67.5°	14575.2	14624.9	14644.2	14981.1	14373.0	*13373.6*	12146.3	9641.9	8156.3	7447.2
70°	14564.0	14549.5	14889.6	15842.6	16189.1	*15441.5*	14097.1	10893.3	9011.4	7918.9
72.5°	13256.4	13140.9	13944.7	15833.0	17700.4	*17600.9*	16479.5	12507.2	9749.4	7976.6
75°	*9945.1*	*9637.1*	*11056.9*	*14268.8*	*17952.3*	*18826.6*	*17994.0*	*13508.3*	*9574.5*	*7047.7*
77.5°	4253.0	3943.4	5616.7	10562.8	16067.2	*17599.3*	16604.6	11785.3	7642.9	4660.5
80°	1113.4	1111.8	1697.4	4788.9	10927.0	*12996.5*	11401.9	7610.9	4366.9	1665.3
82.5°	460.4	449.2	624.1	1862.6	5339.2	*7293.2*	5952.0	3394.7	1577.0	450.8
85°	171.7	170.1	303.2	643.3	1883.5	*3008.1*	2177.1	867.9	393.1	219.8
87.5°	48.1	46.5	65.8	223.0	458.8	*696.3*	372.2	142.8	110.7	86.6
90°	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

REPORT NUMBER: P942892
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3458.9	0°	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9
3465.3	2.5°	3470.1	3478.2	3492.6	3503.8	3518.3	3534.3	3556.8	3571.2	3585.6	3595.3
3473.3	5°	3484.6	3502.2	3539.1	3576.0	3619.3	3659.4	3706.0	3739.7	3766.9	3774.9
3502.2	7.5°	3516.7	3545.5	3608.1	3670.7	3739.7	3805.4	3872.8	3930.6	3977.1	3994.7
3553.6	10°	3572.8	3611.3	3699.5	3787.8	3879.2	3980.3	4066.9	4150.4	4216.1	4243.4
3614.5	12.5°	3643.4	3691.5	3807.0	3929.0	4055.7	4195.3	4307.6	4410.3	4492.1	4529.0
3699.5	15°	3734.8	3797.4	3945.0	4108.6	4294.7	4488.9	4631.7	4745.6	4837.0	4881.9
3787.8	17.5°	3834.3	3917.7	4103.8	4350.9	4617.2	4872.3	5039.1	5122.6	5217.2	5260.5
3869.6	20°	3930.6	4033.2	4299.6	4658.9	5013.5	5284.6	5419.4	5441.8	5448.2	5453.1
3946.6	22.5°	4030.0	4168.0	4545.0	5047.2	5427.4	5615.1	5634.3	5538.1	5403.3	5340.8
4022.0	25°	4139.1	4322.0	4865.9	5475.5	5783.5	5806.0	5658.4	5424.2	5169.1	5052.0
4083.0	27.5°	4245.0	4500.1	5250.9	5884.6	6040.2	5842.9	5525.3	5193.2	4885.1	4761.6
4126.3	30°	4350.9	4703.8	5676.1	6242.4	6157.4	5751.5	5315.1	4944.5	4634.9	4504.9
4164.8	32.5°	4458.4	4941.3	6165.4	6500.7	6136.5	5557.3	5053.6	4665.3	4392.6	4256.2
4198.5	35°	4580.3	5233.3	6629.0	6641.9	5996.9	5271.8	4708.7	4331.6	4094.2	3985.1
4238.6	37.5°	4739.1	5603.9	7038.1	6677.2	5753.1	4853.0	4280.3	3937.0	3741.3	3691.5
4298.0	40°	4936.5	6049.9	7351.0	6621.0	5392.1	4344.5	3811.8	3537.5	3426.8	3438.0
4378.2	42.5°	5193.2	6548.8	7570.8	6476.6	4889.9	3819.9	3401.1	3279.2	3332.2	3377.1
4498.5	45°	5526.9	7067.0	7707.1	6231.2	4322.0	3375.5	3158.9	3187.8	3227.9	3232.7
4692.6	47.5°	5953.6	7591.6	7797.0	5860.6	3742.9	3062.6	3004.9	3011.3	3003.3	2969.6
4983.0	50°	6486.2	8101.8	7877.2	5369.6	3250.3	2866.9	2789.9	2767.4	2656.7	2547.6
5369.6	52.5°	7092.7	8570.2	7910.9	4760.0	2866.9	2703.3	2578.1	2437.0	2230.0	2196.3
5855.7	55°	7766.5	9003.4	7824.2	4010.8	2544.4	2493.1	2303.8	2133.7	2111.3	2082.4
6495.9	57.5°	8571.8	9470.3	7647.8	3174.9	2214.0	2247.6	2063.1	2082.4	2042.3	1997.4
7318.9	60°	9452.6	9953.2	7338.1	2412.9	1872.2	1941.2	2000.6	1999.0	1987.7	1950.8
8186.8	62.5°	10245.1	10270.8	6728.5	1848.2	1572.2	1703.8	1865.8	1864.2	1854.6	1833.7
9093.2	65°	10716.8	10222.7	5711.4	1455.1	1325.2	1508.1	1682.9	1695.8	1697.4	1695.8
9775.1	67.5°	10633.4	9659.6	4315.6	1158.3	1121.4	1309.1	1501.6	1519.3	1532.1	1535.3
9861.7	70°	9690.1	8422.6	2814.0	924.1	940.1	1134.2	1330.0	1347.6	1358.9	1371.7
8557.4	72.5°	7553.1	6192.6	1610.7	747.6	781.3	983.4	1159.9	1180.8	1187.2	1211.3
5955.2	75°	*4602.8*	*3641.8*	*869.5*	*588.8*	*641.7*	*840.7*	*991.5*	*1015.5*	*1026.8*	*1055.6*
2924.7	77.5°	2188.3	1577.0	495.7	458.8	516.6	686.6	837.5	864.7	834.2	850.3
807.0	80°	739.6	585.6	312.8	349.7	394.7	535.8	670.6	697.9	633.7	630.5
267.9	82.5°	258.3	237.4	198.9	232.6	255.1	383.4	507.0	542.3	471.7	470.1
120.3	85°	101.1	96.3	110.7	126.7	152.4	235.8	333.7	351.3	290.4	234.2
35.3	87.5°	20.9	22.5	27.3	28.9	46.5	81.8	120.3	147.6	117.1	99.5
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

180°
3458.9
3588.8
3778.2
3996.3
4245.0
4529.0
4878.7
5258.9
5465.9
5358.4
5069.6
4776.0
4519.4
4273.9
4009.2
3726.8
3476.5
3418.8
3264.8
2995.3
2562.1
2207.5
2087.2
1989.3
1938.0
1825.7
1695.8
1538.5
1378.1
1220.9
1058.8
837.5
624.1
447.6
231.0
91.4
0.0

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