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

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: P957055

Luminaire Tested: **GALN-SB9C-740-U-AFL**

Issue Date: 1/21/2025

Report Generated By 670246001

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

Test Information

Test Method:	LM-79-08
Report Number:	P957055
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9C-740-U-AFL
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	73397 lumens
Efficiency:	N/A
Efficacy:	163.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B4 - U0 - G4
Input Watts (W):	449.8
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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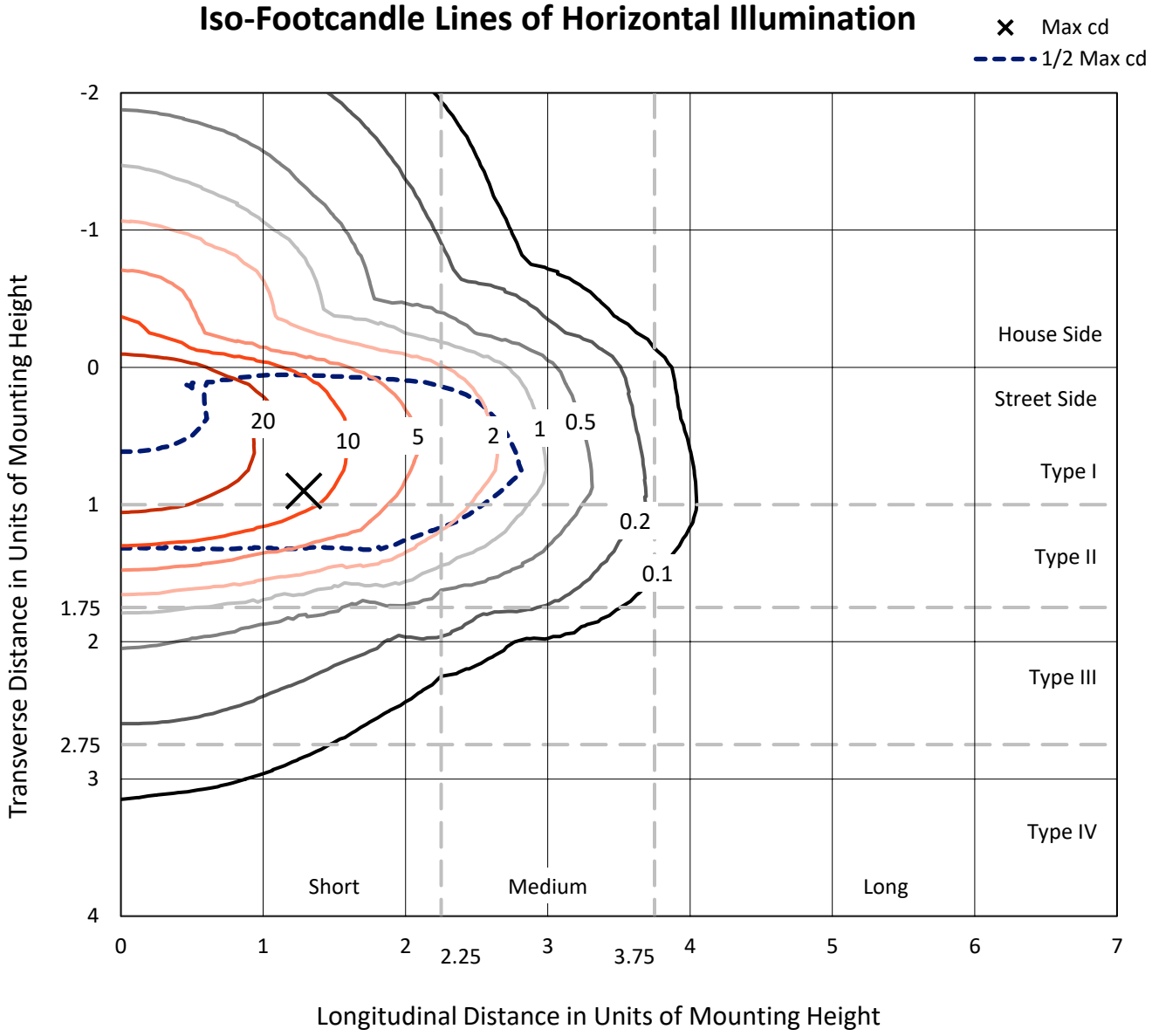
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 35.6 fc
Type II - Short - N/A

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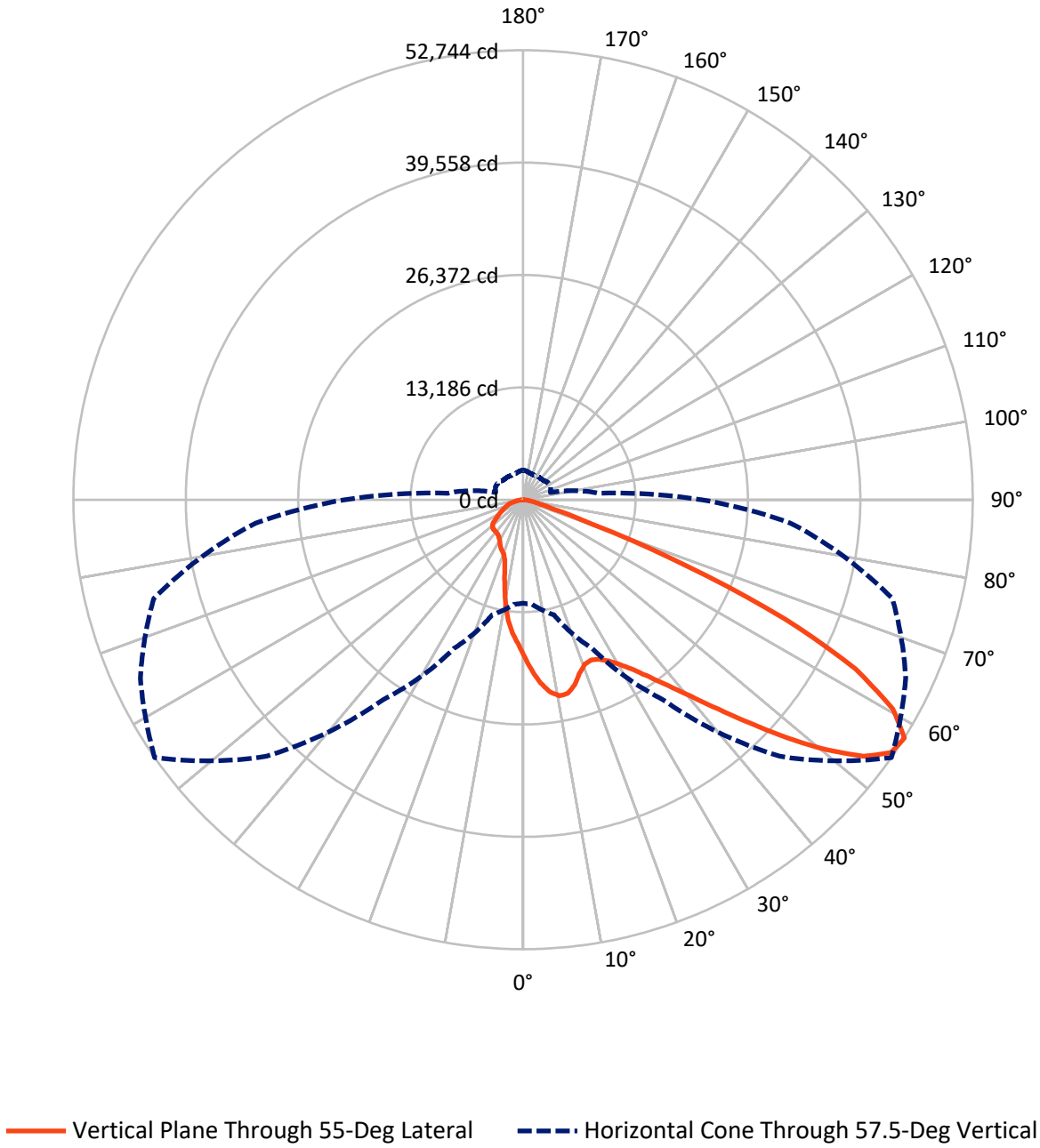
Luminous Intensity Polar Plot



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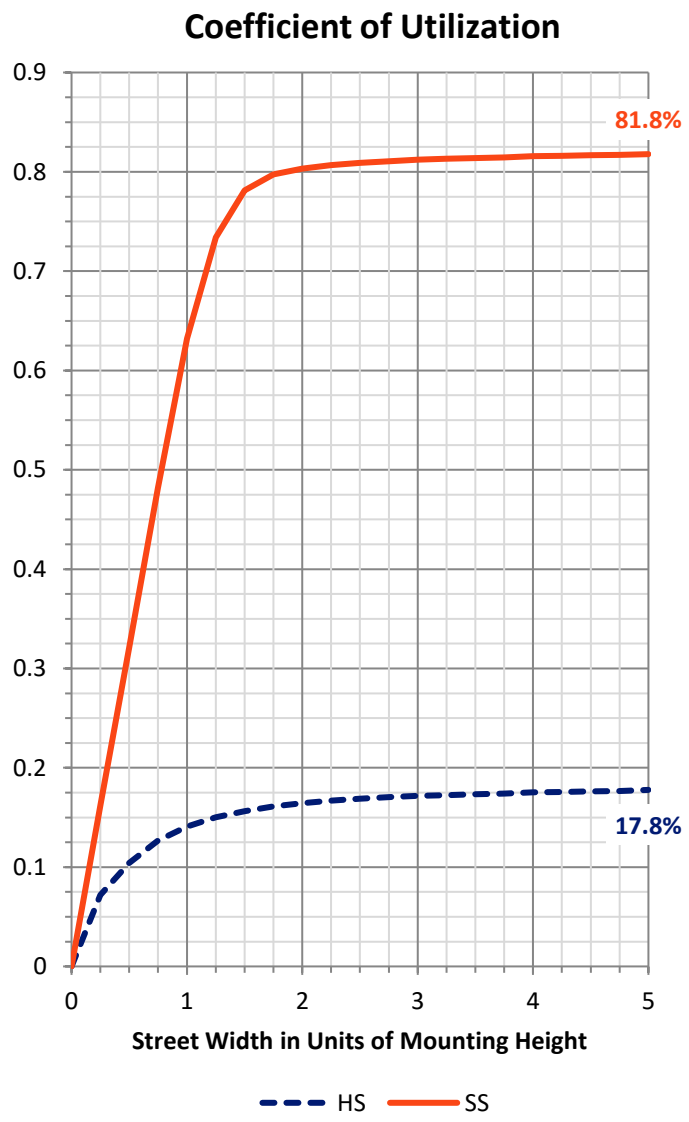
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13280.8	0.0	13280.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	60116.2	0.0	60116.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	73397.0	0.0	73397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1706.6	2.3
10°-20°	4307.5	5.9
20°-30°	6873.5	9.4
30°-40°	10882.4	14.8
40°-50°	16656.6	22.7
50°-60°	17840.8	24.3
60°-70°	11223.7	15.3
70°-80°	3319.1	4.5
80°-90°	586.9	0.8
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°	73397.0	100.0
0°-180°	73397.0	100.0



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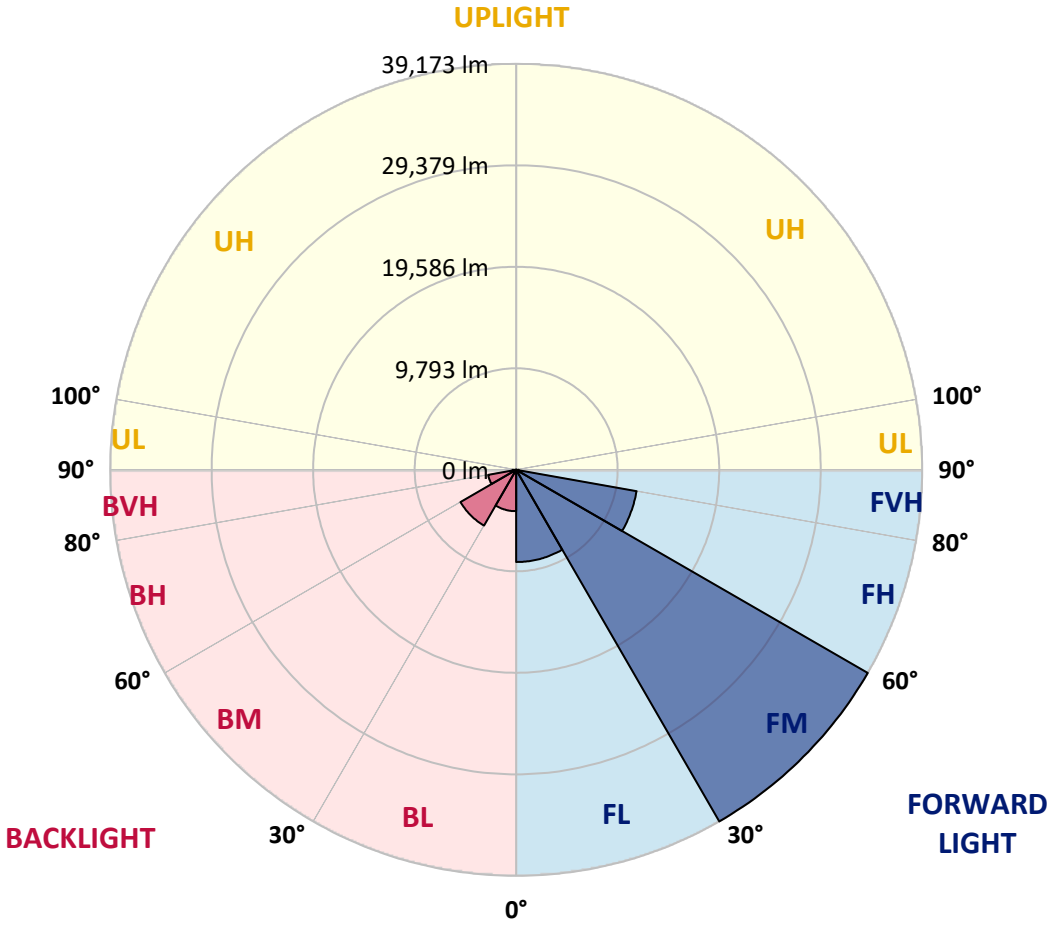
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	8895.7	12.1			
FM	(30°-60°)	39172.5	53.4			
FH	(60°-80°)	11800.0	16.1			G4/12000
FVH	(80°-90°)	247.9	0.3			G3/500
BL	(0°-30°)	3991.8	5.4	B4/5000		
BM	(30°-60°)	6207.3	8.5	B4/8500		
BH	(60°-80°)	2742.8	3.7	B4/5000		G4/5000
BVH	(80°-90°)	338.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18390.9	18390.9	18390.9	18390.9	18390.9	18390.9	*18390.9*	18390.9	18390.9	18390.9
2.5°	21100.0	21084.8	21168.3	20883.8	20690.2	20428.4	*20083.2*	19643.0	19168.7	18667.9
5°	23001.0	22868.2	22955.4	22743.0	22530.5	22135.9	*21623.6*	20906.5	20030.0	19032.1
7.5°	22701.2	22610.2	22834.0	23023.7	23183.1	23133.8	*22758.1*	22006.9	20876.2	19426.7
10°	20284.3	20181.8	20496.7	21153.1	22116.9	22955.4	*23410.7*	22944.0	21741.3	19859.3
12.5°	18151.9	18102.5	18311.2	18842.4	19912.4	21521.2	*23327.3*	23763.6	22640.5	20371.5
15°	17241.2	17180.5	17313.3	17582.7	18265.7	19764.4	*22568.4*	24325.2	23524.6	20963.4
17.5°	17040.1	16971.8	17028.8	17169.1	17609.3	18751.4	*21422.5*	24602.2	24446.6	21623.6
20°	17412.0	17355.1	17362.7	17355.1	17662.4	18569.2	*20625.7*	24495.9	25251.0	22230.7
22.5°	18311.2	18216.4	18220.2	18019.1	18186.0	18888.0	*20417.1*	24211.3	25968.1	22761.9
25°	19775.8	19605.1	19639.2	19127.0	19081.5	19601.3	*20743.4*	23991.3	26681.4	23186.9
27.5°	21779.2	21585.7	21483.2	20720.6	20356.3	20614.4	*21407.4*	24067.2	27356.8	23554.9
30°	24283.4	24048.2	23839.5	22758.1	22097.9	22003.1	*22439.4*	24568.0	28153.6	23941.9
32.5°	27353.0	27079.8	26700.4	25266.2	24336.6	23839.5	*23775.0*	25459.7	29087.0	24435.2
35°	31006.9	30650.2	30111.5	28256.1	27079.8	26063.0	*25535.5*	26745.9	30365.7	25178.9
37.5°	34770.8	34368.6	33875.4	31667.1	30221.5	28722.7	*27683.1*	28491.3	32069.3	26188.2
40°	38242.6	37791.1	37332.0	35366.5	33814.7	32008.6	*30312.6*	30699.6	34152.4	27394.7
42.5°	40291.5	39957.6	39783.1	38720.7	37521.7	35689.1	*33583.2*	33317.6	36493.4	28783.5
45°	40200.5	40063.9	40602.7	41042.8	40758.2	39741.4	*37415.5*	36212.7	38842.1	29986.2
47.5°	38052.9	38144.0	39346.7	41820.6	42909.6	43440.8	*41778.9*	39054.6	40883.4	30885.5
50°	32209.7	32285.6	35070.6	40405.4	43463.5	46457.2	*46108.2*	41828.2	42465.7	31435.7
52.5°	27584.5	27633.8	28829.0	36208.9	41634.7	47975.0	*50008.7*	44442.5	43622.9	31587.4
55°	20777.5	20948.3	22287.6	28407.8	36876.7	46772.2	*52383.9*	47136.4	44355.2	31602.6
57.5°	*12137.9*	*12323.8*	*13978.2*	*19282.6*	*28662.0*	*42579.5*	*52744.4*	*49526.8*	*44852.3*	*31481.2*
60°	5945.6	6025.3	6746.2	10134.5	17673.8	34501.4	*49845.5*	50684.1	45129.2	31416.7
62.5°	4006.8	3995.4	4025.7	5000.9	8707.9	22166.2	*43805.0*	48657.9	44981.3	31170.1
65°	3445.2	3403.5	3289.6	3509.7	4511.4	10138.3	*33845.0*	42609.8	43854.4	30551.6
67.5°	2978.5	2982.3	2986.1	2917.8	3221.3	4678.4	*20682.7*	33564.3	39809.7	27622.4
70°	2466.3	2500.4	2515.6	2515.6	2625.6	3069.6	*8829.3*	23004.8	31401.5	21657.8
72.5°	2246.2	2174.1	2181.7	2143.8	2143.8	2337.3	*3555.2*	13041.0	19783.4	12183.5
75°	1832.6	1878.2	1885.8	1859.2	1771.9	1783.3	*2109.6*	5471.4	8465.1	5054.0
77.5°	1582.2	1582.2	1597.4	1578.4	1510.1	1335.6	*1407.7*	2121.0	2879.9	2071.7
80°	1271.1	1267.3	1331.8	1369.7	1263.5	986.5	*899.2*	1172.4	1278.7	910.6
82.5°	618.5	656.4	914.4	1043.4	960.0	713.3	*550.2*	728.5	683.0	402.2
85°	360.5	341.5	409.8	580.5	550.2	394.6	*265.6*	379.4	356.7	204.9
87.5°	113.8	106.2	83.5	197.3	159.4	110.0	*72.1*	110.0	98.7	45.5
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
18390.9	0°	18390.9	18390.9	18390.9	18390.9	18390.9	18390.9	18390.9	18390.9	18390.9	18390.9
18451.6	2.5°	18182.2	17734.5	17290.6	16884.6	16637.9	16478.6	16319.2	16140.9	16072.6	15970.2
18500.9	5°	18000.1	17135.0	16364.8	15700.8	15097.5	14623.2	14145.1	13758.1	13583.5	13701.2
18656.5	7.5°	17893.9	16641.7	15454.1	14236.2	13063.7	12126.5	11310.8	10737.8	10479.8	10544.3
18808.3	10°	17799.0	16084.0	14274.1	12350.4	10665.7	9504.7	8669.9	8233.6	8070.4	8104.6
19013.2	12.5°	17711.7	15457.9	12851.2	10320.5	8529.6	7763.1	7524.1	7527.9	7558.2	7581.0
19339.5	15°	17696.6	14702.9	11261.4	8544.7	7376.1	7326.8	7584.8	7747.9	7835.2	7861.8
19612.7	17.5°	17673.8	13799.8	9641.3	7334.4	7095.3	7429.2	7668.3	7774.5	7842.8	7846.6
19878.3	20°	17582.7	12653.9	8146.3	6757.6	7034.6	7323.0	7470.9	7554.4	7611.3	7630.3
20079.4	22.5°	17301.9	11379.1	6981.5	6499.6	6791.8	7023.2	7197.8	7292.6	7326.8	7349.5
20117.3	25°	16797.3	9952.4	6177.1	6253.0	6454.1	6746.2	6886.6	6905.6	6894.2	6928.4
20022.4	27.5°	16137.1	8423.3	5676.3	5919.1	6177.1	6427.5	6503.4	6492.0	6469.3	6507.2
19859.3	30°	15340.3	7049.8	5357.5	5543.5	5896.3	6124.0	6192.3	6165.7	6120.2	6161.9
19775.8	32.5°	14498.0	5926.7	5095.7	5281.6	5664.9	5888.7	5957.0	5930.5	5896.3	5930.5
19870.7	35°	13712.6	5141.3	4852.9	5107.1	5482.7	5702.8	5790.1	5793.9	5793.9	5835.6
20121.1	37.5°	12991.6	4682.1	4651.8	4997.1	5357.5	5554.8	5680.0	5687.6	5524.5	5535.9
20546.1	40°	12323.8	4488.6	4560.7	4925.0	5236.1	5425.8	5433.4	5008.5	4708.7	4701.1
21031.7	42.5°	11777.5	4450.7	4587.3	4917.4	5148.8	5156.4	4621.4	4291.3	4207.9	4211.7
21479.5	45°	11265.2	4439.3	4648.0	4917.4	5019.8	4454.5	4094.0	4006.8	4014.4	4044.7
21680.6	47.5°	10692.3	4393.8	4659.4	4849.1	4648.0	3961.2	3855.0	3817.1	3801.9	3809.5
21635.0	50°	10066.2	4230.6	4515.2	4712.5	4010.6	3748.8	3616.0	3604.6	3623.5	3634.9
21380.8	52.5°	9406.0	3965.0	4268.6	4465.9	3718.4	3562.8	3414.9	3441.4	3524.9	3551.5
21115.2	55°	8973.5	3653.9	3942.3	3972.6	3513.5	3388.3	3263.1	3323.8	3479.4	3528.7
20955.8	57.5°	*8859.7*	*3323.8*	*3570.4*	*3536.3*	*3251.7*	*3236.5*	*3160.6*	*3213.8*	*3411.1*	*3483.2*
20948.3	60°	8825.5	3027.8	3206.2	3179.6	2997.5	3069.6	3050.6	3077.2	3145.5	3168.2
20872.4	62.5°	8559.9	2792.6	2879.9	2841.9	2769.8	2895.0	2940.6	2883.7	2936.8	2963.3
20352.6	65°	7884.5	2602.9	2561.1	2534.6	2564.9	2678.8	2769.8	2656.0	2705.3	2781.2
18349.2	67.5°	6769.0	2344.9	2231.0	2261.4	2356.3	2417.0	2534.6	2405.6	2447.3	2576.3
14778.7	70°	5475.2	2018.6	1916.1	2003.4	2094.4	2219.7	2238.6	2151.4	2250.0	2394.2
9019.0	72.5°	3874.0	1688.5	1616.4	1794.7	1825.1	1988.2	1946.5	1904.7	2041.3	2090.7
4458.3	75°	2686.4	1362.1	1320.4	1457.0	1567.0	1707.4	1677.1	1726.4	2014.8	2037.5
2227.2	77.5°	1699.8	1058.6	1032.0	1119.3	1271.1	1426.7	1476.0	2037.5	3441.4	3578.0
1157.3	80°	986.5	789.2	758.9	827.2	960.0	1104.1	1422.9	2500.4	2269.0	2242.4
519.8	82.5°	550.2	542.6	504.6	523.6	641.2	796.8	2011.0	1760.5	1430.4	1476.0
208.7	85°	258.0	318.7	273.2	261.8	360.5	933.4	1343.2	1005.5	667.8	652.6
45.5	87.5°	68.3	60.7	60.7	68.3	151.8	804.4	535.0	428.8	254.2	246.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI

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