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: P957139

Luminaire Tested: **GALN-SB9C-830-U-AFL**

Issue Date: 1/21/2025

Report Generated By 670246001

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Peachtree City, GA 30269

Test Information

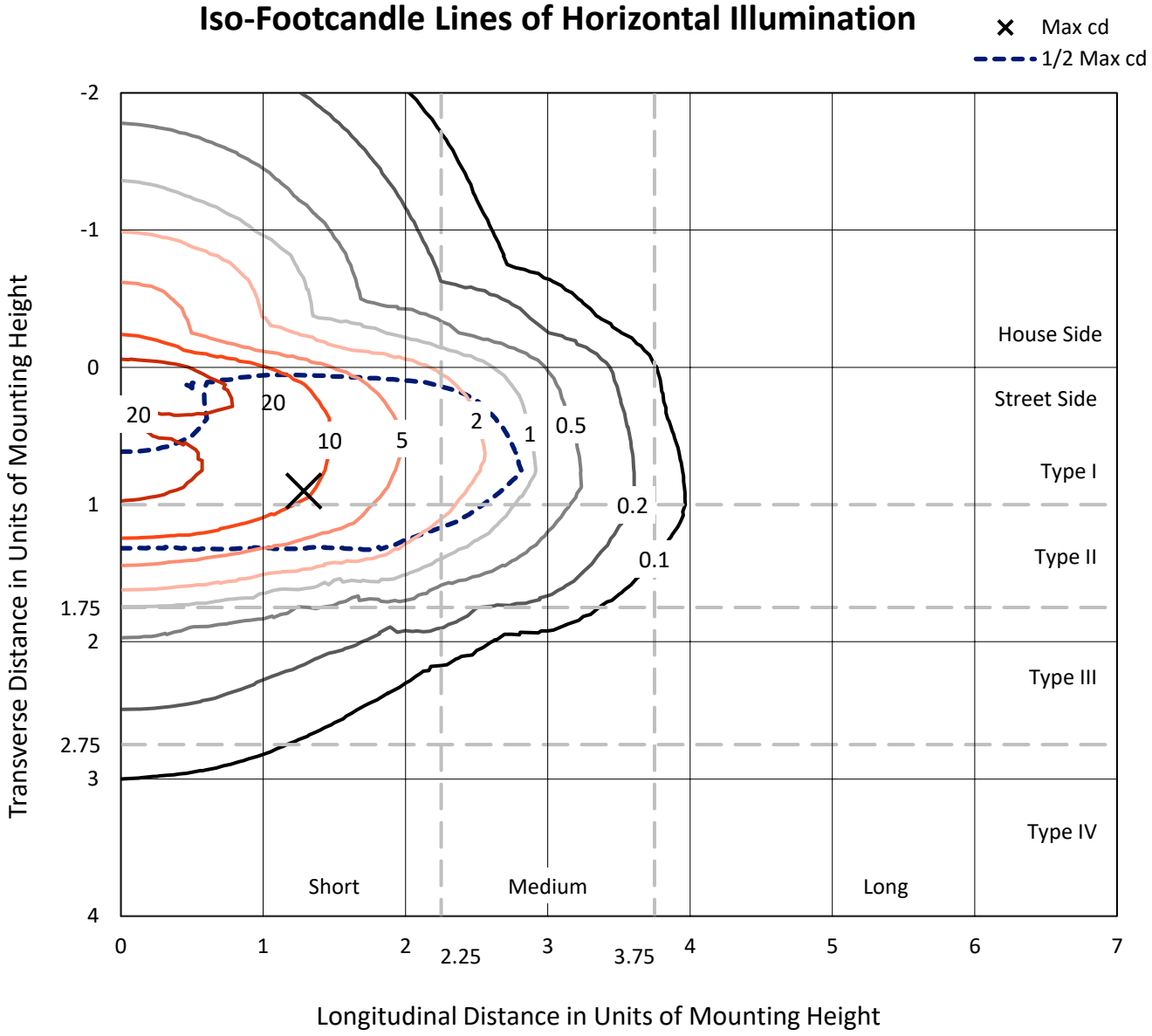
Test Method:	LM-79-08
Report Number:	P957139
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9C-830-U-AFL
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	62337 lumens
Efficiency:	N/A
Efficacy:	138.6 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

REPORT NUMBER: P957139
CATALOG NUMBER: GALN-SB9C-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 30.2 fc
Type II - Short - N/A

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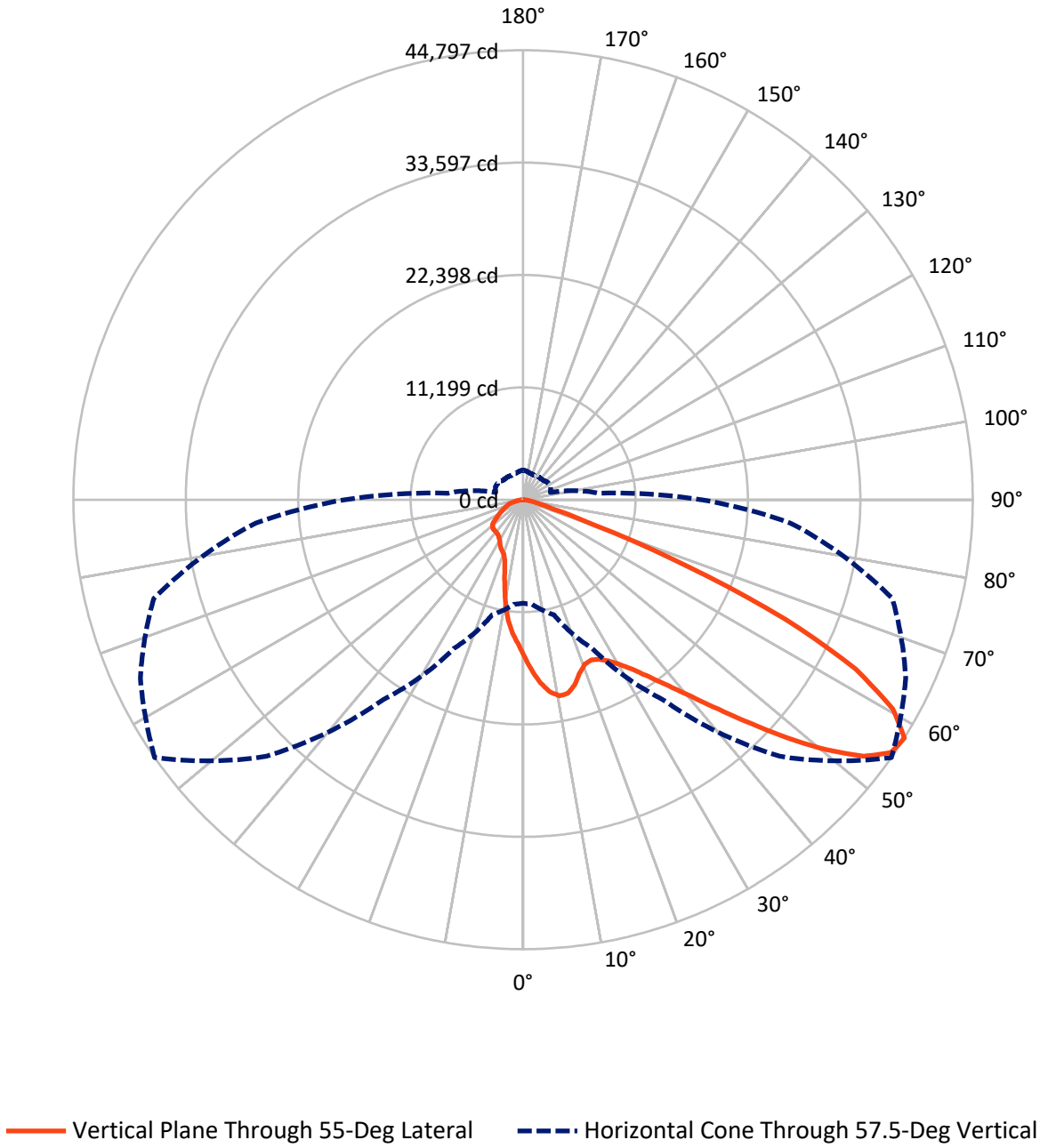
Luminous Intensity Polar Plot



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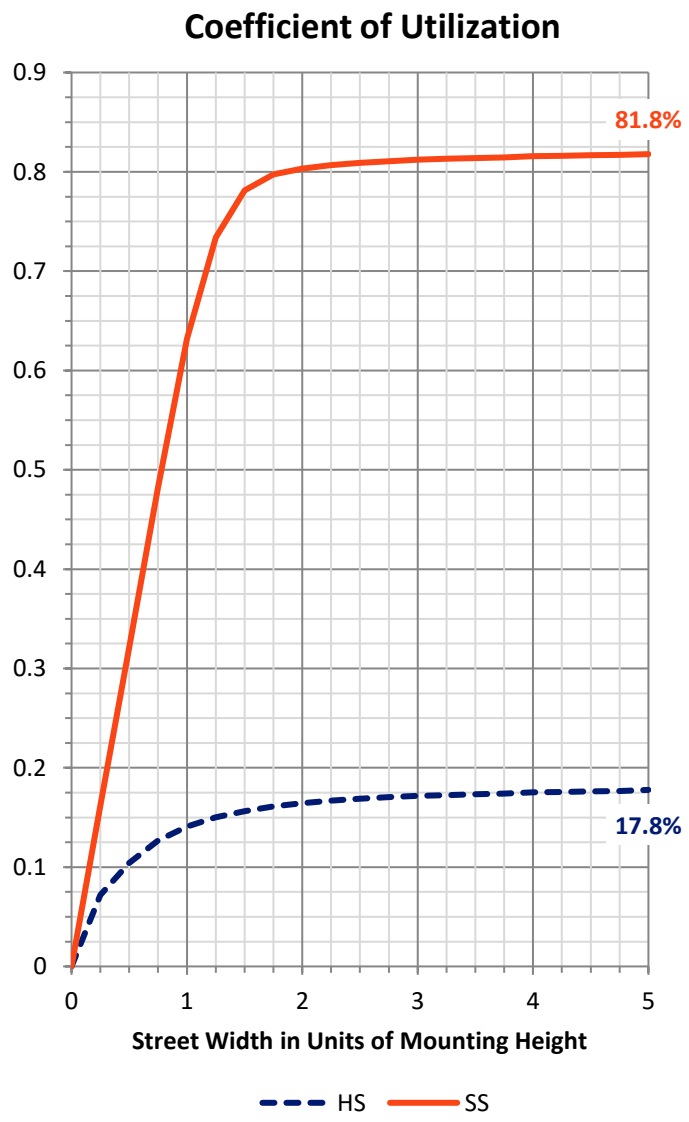
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11279.6	0.0	11279.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	51057.4	0.0	51057.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	62337.0	0.0	62337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1449.4	2.3
10°-20°	3658.4	5.9
20°-30°	5837.7	9.4
30°-40°	9242.6	14.8
40°-50°	14146.7	22.7
50°-60°	15152.4	24.3
60°-70°	9532.5	15.3
70°-80°	2818.9	4.5
80°-90°	498.4	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°	62337.0	100.0
0°-180°	62337.0	100.0



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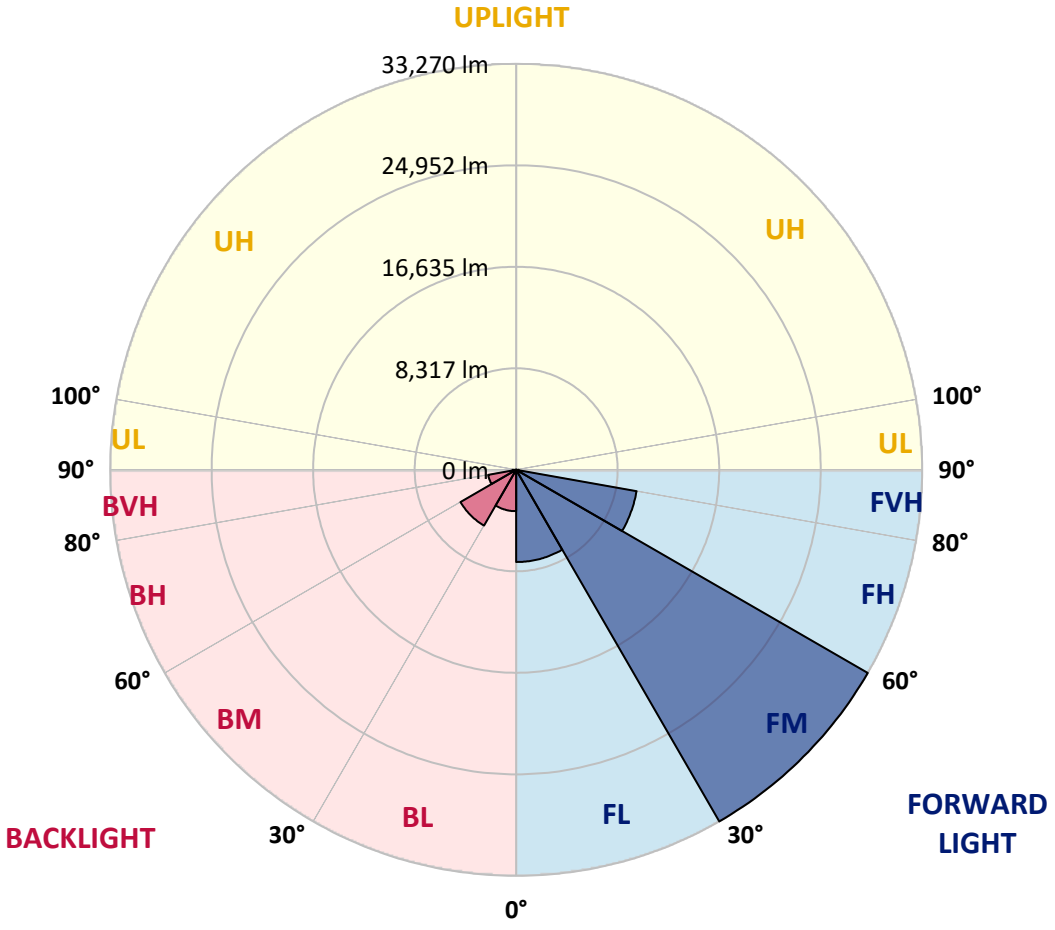
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	7555.2	12.1			
FM	(30°-60°)	33269.7	53.4			
FH	(60°-80°)	10021.9	16.1			G4/12000
FVH	(80°-90°)	210.6	0.3			G2/225
BL	(0°-30°)	3390.3	5.4	B4/5000		
BM	(30°-60°)	5272.0	8.5	B4/8500		
BH	(60°-80°)	2329.5	3.7	B3/2500		G3/2500
BVH	(80°-90°)	287.8	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°	15619.6	15619.6	15619.6	15619.6	15619.6	15619.6	*15619.6*	15619.6	15619.6	15619.6
2.5°	17920.5	17907.6	17978.5	17736.8	17572.5	17350.1	*17056.9*	16683.1	16280.2	15854.9
5°	19535.0	19422.2	19496.3	19315.9	19135.4	18800.3	*18365.2*	17756.2	17011.8	16164.2
7.5°	19280.4	19203.1	19393.2	19554.3	19689.7	19647.8	*19328.8*	18690.7	17730.4	16499.4
10°	17227.7	17140.7	17408.1	17965.6	18784.2	19496.3	*19883.0*	19486.7	18465.1	16866.7
12.5°	15416.6	15374.7	15552.0	16003.1	16911.9	18278.2	*19812.1*	20182.7	19228.9	17301.8
15°	14643.2	14591.6	14704.4	14933.2	15513.3	16786.2	*19167.6*	20659.7	19979.7	17804.5
17.5°	14472.4	14414.4	14462.7	14582.0	14955.8	15925.8	*18194.4*	20894.9	20762.8	18365.2
20°	14788.2	14739.9	14746.3	14739.9	15000.9	15771.1	*17517.7*	20804.7	21446.0	18880.8
22.5°	15552.0	15471.4	15474.6	15303.8	15445.6	16041.8	*17340.5*	20563.0	22055.0	19332.0
25°	16795.9	16650.8	16679.8	16244.8	16206.1	16647.6	*17617.6*	20376.1	22660.9	19692.9
27.5°	18497.4	18333.0	18246.0	17598.3	17288.9	17508.0	*18181.5*	20440.5	23234.5	20005.5
30°	20624.2	20424.4	20247.2	19328.8	18768.0	18687.5	*19058.1*	20865.9	23911.2	20334.2
32.5°	23231.3	22999.2	22677.0	21458.9	20669.3	20247.2	*20192.4*	21623.2	24704.0	20753.1
35°	26334.6	26031.6	25574.0	23998.2	22999.2	22135.6	*21687.7*	22715.7	25790.0	21384.7
37.5°	29531.3	29189.7	28770.8	26895.3	25667.5	24394.6	*23511.6*	24198.0	27236.9	22241.9
40°	32479.9	32096.5	31706.5	30037.3	28719.2	27185.3	*25744.8*	26073.5	29006.0	23266.7
42.5°	34220.1	33936.5	33788.3	32886.0	31867.7	30311.2	*28522.7*	28297.1	30994.3	24446.2
45°	34142.8	34026.8	34484.4	34858.2	34616.5	33752.8	*31777.4*	30755.9	32989.1	25467.7
47.5°	32318.8	32396.1	33417.7	35518.8	36443.7	36894.8	*35483.3*	33169.6	34722.8	26231.4
50°	27356.1	27420.6	29785.9	34316.8	36914.1	39456.7	*39160.2*	35525.2	36066.6	26698.7
52.5°	23427.8	23469.7	24484.8	30752.7	35360.9	40745.7	*42473.0*	37745.6	37049.5	26827.6
55°	17646.6	17791.6	18929.2	24127.1	31319.8	39724.2	*44490.3*	40033.6	37671.4	26840.5
57.5°	*10308.9*	*10466.8*	*11871.8*	*16376.9*	*24343.0*	*36163.3*	*44796.5*	*42063.8*	*38093.6*	*26737.4*
60°	5049.7	5117.4	5729.7	8607.4	15010.6	29302.5	*42334.4*	43046.6	38328.8	26682.6
62.5°	3403.0	3393.3	3419.1	4247.3	7395.7	18826.1	*37204.2*	41325.8	38203.2	26473.1
65°	2926.1	2890.6	2793.9	2980.8	3831.6	8610.6	*28745.0*	36189.1	37246.1	25947.9
67.5°	2529.7	2532.9	2536.1	2478.1	2735.9	3973.4	*17566.0*	28506.5	33810.8	23460.1
70°	2094.6	2123.7	2136.5	2136.5	2230.0	2607.0	*7498.8*	19538.2	26669.7	18394.2
72.5°	1907.7	1846.5	1853.0	1820.7	1820.7	1985.1	*3019.5*	11075.9	16802.3	10347.6
75°	1556.5	1595.2	1601.6	1579.0	1504.9	1514.6	*1791.7*	4646.9	7189.5	4292.4
77.5°	1343.8	1343.8	1356.7	1340.6	1282.6	1134.3	*1195.6*	1801.4	2445.9	1759.5
80°	1079.5	1076.3	1131.1	1163.3	1073.1	837.9	*763.7*	995.8	1086.0	773.4
82.5°	525.3	557.5	776.6	886.2	815.3	605.8	*467.3*	618.7	580.1	341.6
85°	306.1	290.0	348.0	493.0	467.3	335.1	*225.6*	322.3	302.9	174.0
87.5°	96.7	90.2	70.9	167.6	135.3	93.5	*61.2*	93.5	83.8	38.7
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°
15619.6	0°	15619.6	15619.6	15619.6	15619.6	15619.6	15619.6	15619.6	15619.6	15619.6	15619.6
15671.2	2.5°	15442.4	15062.1	14685.1	14340.3	14130.8	13995.5	13860.1	13708.7	13650.7	13563.7
15713.1	5°	15287.7	14553.0	13898.8	13334.9	12822.5	12419.7	12013.6	11684.9	11536.7	11636.6
15845.2	7.5°	15197.5	14134.0	13125.4	12091.0	11095.2	10299.2	9606.4	9119.8	8900.6	8955.4
15974.1	10°	15116.9	13660.3	12123.2	10489.4	9058.5	8072.5	7363.5	6992.9	6854.3	6883.3
16148.1	12.5°	15042.8	13128.6	10914.7	8765.3	7244.3	6593.3	6390.3	6393.5	6419.3	6438.6
16425.3	15°	15029.9	12487.3	9564.5	7257.1	6264.6	6222.7	6441.8	6580.4	6654.5	6677.1
16657.3	17.5°	15010.6	11720.4	8188.5	6229.2	6026.1	6309.7	6512.7	6603.0	6661.0	6664.2
16882.9	20°	14933.2	10747.2	6918.8	5739.3	5974.6	6219.5	6345.2	6416.1	6464.4	6480.5
17053.7	22.5°	14694.8	9664.4	5929.5	5520.2	5768.3	5964.9	6113.1	6193.7	6222.7	6242.1
17085.9	25°	14266.2	8452.7	5246.3	5310.7	5481.5	5729.7	5848.9	5865.0	5855.3	5884.3
17005.3	27.5°	13705.4	7154.0	4820.9	5027.2	5246.3	5459.0	5523.4	5513.8	5494.4	5526.6
16866.7	30°	13028.7	5987.5	4550.2	4708.1	5007.8	5201.2	5259.2	5236.6	5197.9	5233.4
16795.9	32.5°	12313.3	5033.6	4327.9	4485.8	4811.2	5001.4	5059.4	5036.8	5007.8	5036.8
16876.4	35°	11646.2	4366.5	4121.6	4337.5	4656.6	4843.5	4917.6	4920.8	4920.8	4956.3
17089.1	37.5°	11034.0	3976.6	3950.8	4244.1	4550.2	4717.8	4824.1	4830.6	4692.0	4701.7
17450.0	40°	10466.8	3812.3	3873.5	4182.9	4447.1	4608.2	4614.7	4253.7	3999.2	3992.7
17862.5	42.5°	10002.7	3780.0	3896.0	4176.4	4373.0	4379.4	3925.0	3644.7	3573.8	3577.0
18242.8	45°	9567.7	3770.4	3947.6	4176.4	4263.4	3783.3	3477.1	3403.0	3409.4	3435.2
18413.6	47.5°	9081.1	3731.7	3957.3	4118.4	3947.6	3364.3	3274.1	3241.9	3229.0	3235.4
18374.9	50°	8549.4	3593.1	3834.8	4002.4	3406.2	3183.9	3071.1	3061.4	3077.5	3087.2
18159.0	52.5°	7988.7	3367.5	3625.4	3792.9	3158.1	3026.0	2900.3	2922.8	2993.7	3016.3
17933.4	55°	7621.3	3103.3	3348.2	3374.0	2984.1	2877.7	2771.4	2822.9	2955.1	2997.0
17798.1	57.5°	*7524.6*	*2822.9*	*3032.4*	*3003.4*	*2761.7*	*2748.8*	*2684.4*	*2729.5*	*2897.1*	*2958.3*
17791.6	60°	7495.6	2571.6	2723.0	2700.5	2545.8	2607.0	2590.9	2613.5	2671.5	2690.8
17727.2	62.5°	7270.0	2371.8	2445.9	2413.7	2352.5	2458.8	2497.5	2449.1	2494.2	2516.8
17285.7	65°	6696.4	2210.7	2175.2	2152.7	2178.4	2275.1	2352.5	2255.8	2297.7	2362.1
15584.2	67.5°	5749.0	1991.5	1894.9	1920.6	2001.2	2052.8	2152.7	2043.1	2078.5	2188.1
12551.8	70°	4650.1	1714.4	1627.4	1701.5	1778.8	1885.2	1901.3	1827.2	1911.0	2033.4
7660.0	72.5°	3290.2	1434.0	1372.8	1524.3	1550.0	1688.6	1653.2	1617.7	1733.7	1775.6
3786.5	75°	2281.6	1156.9	1121.4	1237.5	1330.9	1450.1	1424.4	1466.3	1711.2	1730.5
1891.6	77.5°	1443.7	899.1	876.5	950.6	1079.5	1211.7	1253.6	1730.5	2922.8	3038.9
982.9	80°	837.9	670.3	644.5	702.5	815.3	937.8	1208.5	2123.7	1927.1	1904.5
441.5	82.5°	467.3	460.8	428.6	444.7	544.6	676.7	1707.9	1495.3	1214.9	1253.6
177.2	85°	219.1	270.7	232.0	222.4	306.1	792.7	1140.8	854.0	567.2	554.3
38.7	87.5°	58.0	51.6	51.6	58.0	128.9	683.2	454.4	364.1	215.9	209.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI

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