

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: P942468

Luminaire Tested: **GALN-SB6C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31894 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 300.9
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



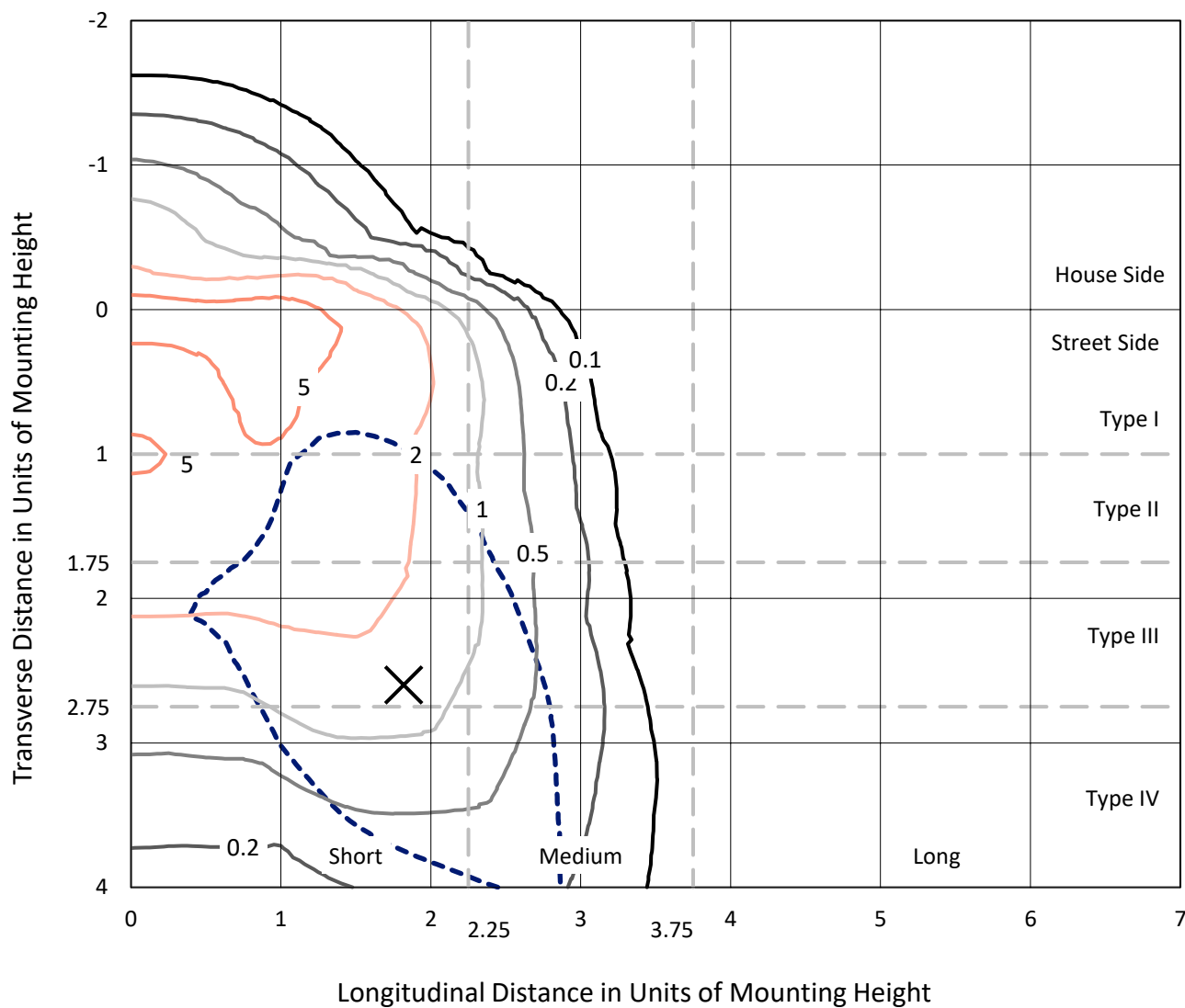
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

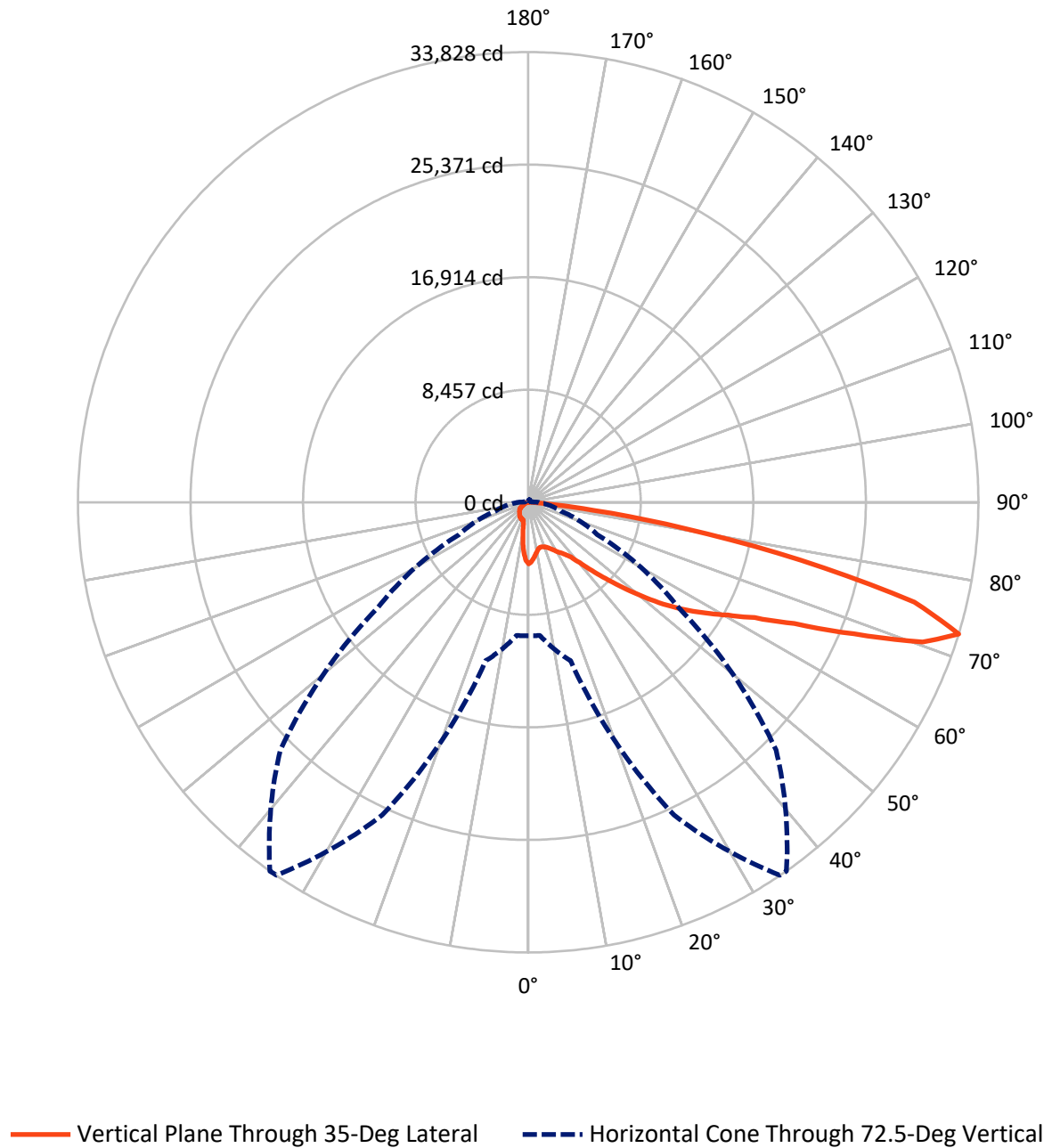


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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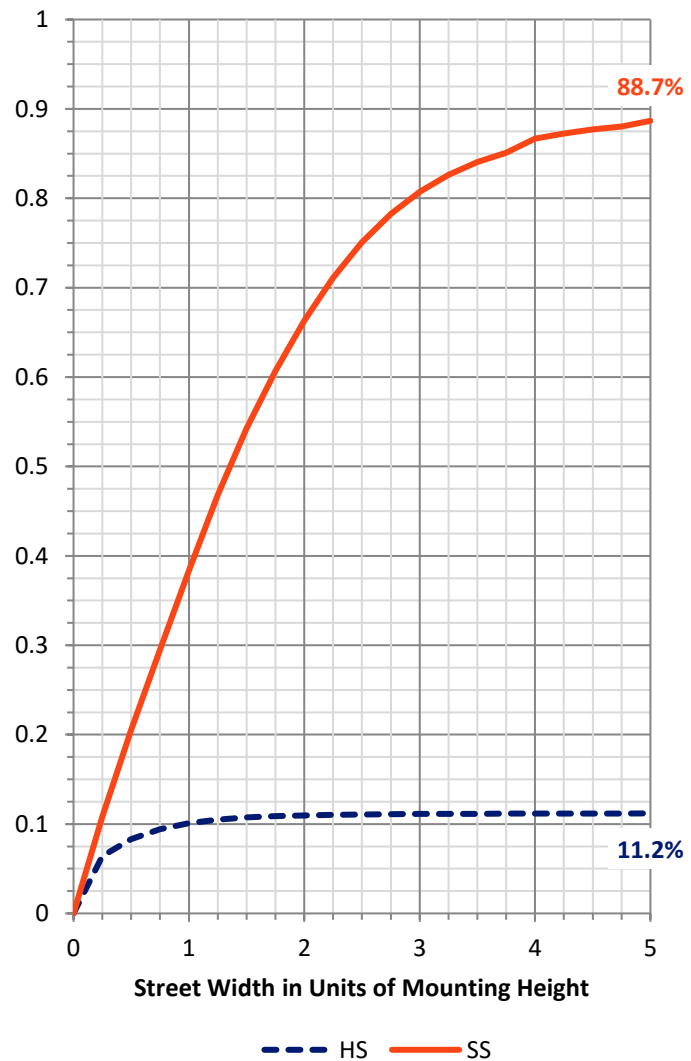
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3589.5	0.0	3589.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	28304.5	0.0	28304.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	31894.0	0.0	31894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.8	1.2
10°-20°	888.6	2.8
20°-30°	1443.5	4.5
30°-40°	2408.5	7.6
40°-50°	4556.9	14.3
50°-60°	7240.9	22.7
60°-70°	8957.6	28.1
70°-80°	5568.1	17.5
80°-90°	450.0	1.4
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°	31894.0	100.0
0°-180°	31894.0	100.0

Coefficient of Utilization



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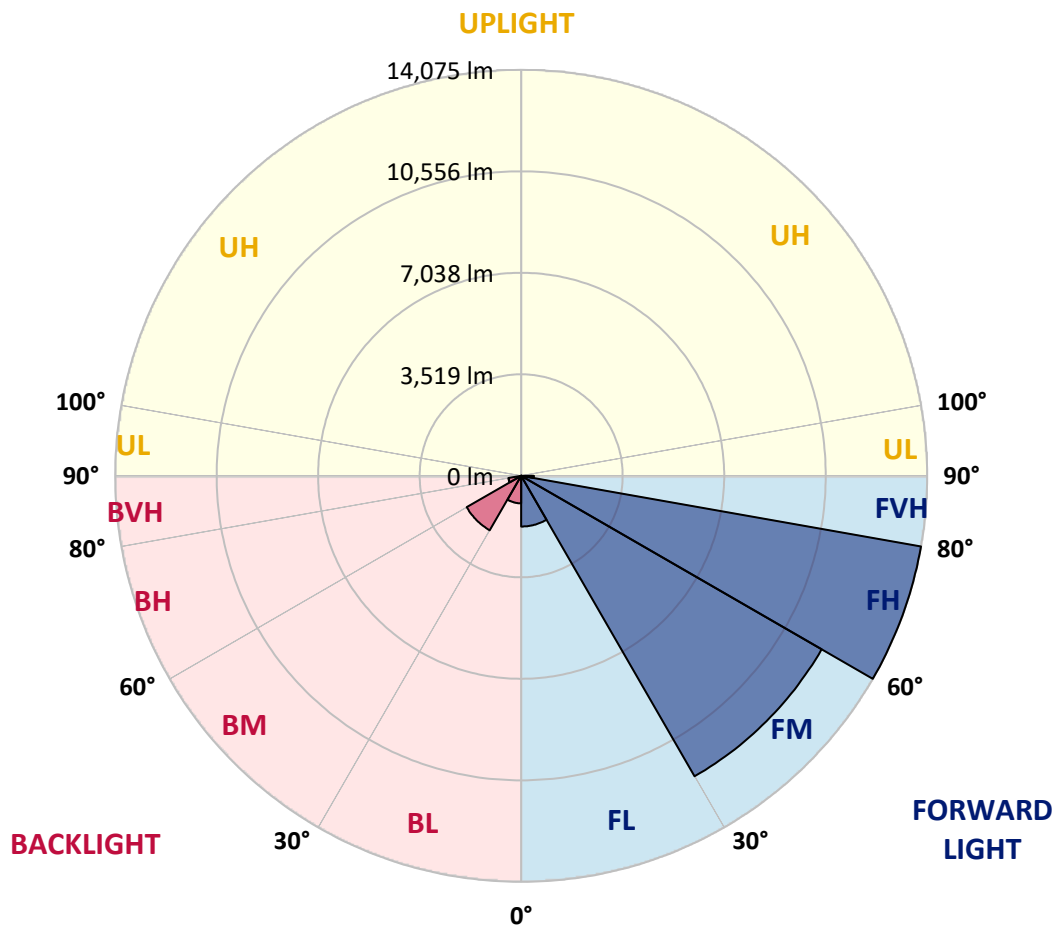
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.2	5.5			
FM	(30°-60°)	12027.2	37.7			
FH	(60°-80°)	14075.2	44.1			G5
FVH	(80°-90°)	443.9	1.4			G3/500
BL	(0°-30°)	953.8	3.0	B2/1000		
BM	(30°-60°)	2179.2	6.8	B2/2500		
BH	(60°-80°)	450.4	1.4	B1/500		G1/500
BVH	(80°-90°)	6.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5
2.5°	4416.9	4454.2	4461.3	4472.9	4472.9	4487.0	4510.3	4543.1	4596.8	4624.8	4643.5
5°	4071.0	4099.0	4134.1	4162.1	4215.9	4222.9	4314.0	4402.8	4526.7	4620.2	4685.6
7.5°	3722.8	3755.5	3802.2	3870.0	3940.1	3961.1	4099.0	4248.6	4444.9	4620.2	4730.0
10°	3477.4	3479.7	3521.8	3589.6	3701.7	3727.5	3895.7	4108.4	4353.8	4592.1	4772.1
12.5°	3339.5	3355.9	3374.6	3426.0	3533.5	3549.8	3729.8	3979.8	4262.6	4575.8	4821.2
15°	3339.5	3351.2	3362.9	3388.6	3475.1	3489.1	3648.0	3898.1	4215.9	4582.8	4900.6
17.5°	3374.6	3393.3	3383.9	3414.3	3505.4	3514.8	3655.0	3874.7	4213.5	4627.2	5022.1
20°	3458.7	3472.7	3454.0	3472.7	3563.9	3582.6	3727.5	3919.1	4253.3	4704.3	5174.0
22.5°	3591.9	3598.9	3554.5	3568.5	3662.0	3685.4	3853.6	4045.3	4349.1	4828.2	5377.3
25°	3760.2	3774.2	3706.4	3722.8	3811.6	3839.6	4033.6	4234.6	4501.0	4998.8	5636.8
27.5°	3954.1	3961.1	3902.7	3900.4	4014.9	4054.6	4250.9	4468.3	4704.3	5213.8	5963.9
30°	4176.2	4197.2	4141.1	4131.7	4276.6	4309.4	4503.3	4755.7	5003.4	5536.3	6429.0
32.5°	4351.4	4367.8	4335.1	4358.4	4505.7	4531.4	4809.5	5162.3	5473.2	5994.3	7062.3
35°	4603.8	4613.2	4538.4	4580.4	4748.7	4814.1	5227.8	5732.6	6064.4	6569.2	7889.6
37.5°	5517.6	5517.6	5199.7	4991.7	5153.0	5211.4	5800.3	6450.0	6793.5	7340.4	8931.9
40°	6781.9	6760.8	6295.8	5870.4	5849.4	5963.9	6615.9	7354.4	7735.3	8265.8	10105.0
42.5°	8130.3	8097.6	7464.3	7043.6	6973.5	7013.2	7557.7	8469.1	8857.1	9394.6	11367.0
45°	9326.8	9317.5	8737.9	8172.4	8046.2	8172.4	8733.2	9773.2	10051.3	10616.8	12626.6
47.5°	10329.4	10329.4	9906.4	9537.1	9471.7	9546.5	10324.7	11219.8	11194.0	11918.5	13853.5
50°	11483.8	11474.5	11072.5	10913.6	10981.4	11086.5	12156.9	12743.5	12376.5	13196.8	14949.5
52.5°	12292.4	12348.5	12210.6	12184.9	12530.8	12713.1	14017.1	14234.4	13435.2	14409.7	15769.8
55°	12932.7	12998.2	13157.1	13337.0	14003.1	14241.4	15818.9	15648.3	14320.9	15461.3	16241.9
57.5°	13839.5	13746.0	13991.4	14346.6	15423.9	15711.4	17564.6	16982.7	15033.7	16314.3	16293.3
60°	14940.2	14954.2	14996.3	15445.0	16842.5	17211.7	19284.6	18244.7	15491.7	16837.8	15723.1
62.5°	16262.9	16283.9	16370.4	17059.8	18747.1	19095.3	21116.8	19277.6	15702.0	16690.6	14250.8
65°	16171.8	16260.6	17225.7	19583.7	21642.6	21986.1	23255.1	20002.1	15384.2	15344.5	11603.0
67.5°	14732.2	14877.1	16491.9	22598.4	26008.0	26391.3	25839.8	20144.6	14012.4	11932.5	7569.4
70°	12843.9	12895.4	14837.4	25309.3	31062.9	31450.8	28153.4	18576.5	10633.2	6655.7	3390.9
72.5°	10030.2	10041.9	12320.5	25937.9	33806.5	33827.5	26337.6	13790.4	5718.5	2556.6	1177.8
75°	7165.1	7095.0	8251.8	21035.0	29742.5	29980.9	19745.0	6468.7	2185.1	1208.2	586.6
77.5°	3842.0	3919.1	4669.2	12474.7	20546.6	20953.2	10773.4	1864.9	1112.4	822.6	387.9
80°	1187.2	1252.6	1914.0	5711.5	11638.1	11883.4	3993.9	829.6	775.9	586.6	254.7
82.5°	373.9	387.9	892.7	2400.1	4830.5	4942.7	1156.8	469.7	530.5	387.9	149.6
85°	107.5	109.8	397.3	895.1	1194.2	1217.6	324.8	182.3	303.8	240.7	77.1
87.5°	11.7	37.4	149.6	149.6	105.2	102.8	35.1	39.7	86.5	30.4	14.0
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°	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5
2.5°	4631.9	4634.2	4603.8	4552.4	4496.3	4449.6	4391.2	4344.4	4311.7	4302.3	4318.7
5°	4664.6	4648.2	4561.7	4405.2	4218.2	4057.0	3877.0	3734.5	3641.0	3601.3	3615.3
7.5°	4713.7	4666.9	4477.6	4169.1	3811.6	3493.8	3171.3	2921.2	2762.3	2682.8	2694.5
10°	4755.7	4662.2	4337.4	3827.9	3281.1	2799.7	2365.0	2063.5	1895.3	1815.8	1818.2
12.5°	4795.4	4659.9	4155.1	3423.6	2682.8	2093.9	1689.6	1540.1	1493.3	1477.0	1472.3
15°	4870.2	4666.9	3926.1	2960.9	2086.9	1582.1	1434.9	1432.6	1441.9	1437.2	1434.9
17.5°	4973.1	4673.9	3666.7	2470.2	1610.2	1395.2	1388.2	1409.2	1423.2	1416.2	1413.9
20°	5106.3	4702.0	3390.9	1984.1	1383.5	1348.4	1364.8	1383.5	1395.2	1383.5	1381.1
22.5°	5293.2	4751.0	3089.5	1593.8	1311.0	1320.4	1334.4	1355.4	1367.1	1350.8	1348.4
25°	5522.2	4828.2	2792.7	1385.8	1276.0	1287.7	1308.7	1332.1	1346.1	1329.7	1327.4
27.5°	5819.0	4952.0	2519.2	1339.1	1240.9	1247.9	1278.3	1313.4	1332.1	1311.0	1311.0
30°	6249.0	5155.3	2283.2	1360.1	1219.9	1203.5	1245.6	1294.7	1315.7	1297.0	1294.7
32.5°	6819.3	5442.8	2138.3	1392.8	1210.5	1152.1	1191.9	1254.9	1290.0	1278.3	1278.3
35°	7567.1	5879.8	2082.2	1430.2	1203.5	1098.4	1126.4	1194.2	1254.9	1266.6	1266.6
37.5°	8473.8	6487.4	2098.6	1446.6	1182.5	1054.0	1068.0	1126.4	1205.9	1243.3	1252.6
40°	9504.4	7195.5	2192.1	1430.2	1159.1	1016.6	1018.9	1063.3	1133.4	1189.5	1208.2
42.5°	10567.7	8022.8	2365.0	1369.5	1138.1	983.9	976.8	1007.2	1054.0	1093.7	1110.1
45°	11579.6	8873.4	2535.6	1285.3	1112.4	951.1	934.8	946.5	955.8	972.2	981.5
47.5°	12463.0	9471.7	2486.5	1208.2	1077.3	913.8	885.7	881.0	853.0	850.7	848.3
50°	13073.0	9602.6	2208.4	1131.1	1025.9	871.7	827.3	799.2	750.2	726.8	729.1
52.5°	13266.9	9086.1	1804.1	1054.0	941.8	815.6	752.5	708.1	647.3	626.3	624.0
55°	13009.9	8074.2	1441.9	960.5	824.9	740.8	670.7	612.3	563.2	537.5	537.5
57.5°	12381.2	6786.5	1140.4	850.7	701.1	656.7	586.6	528.2	486.1	460.4	455.7
60°	11338.9	5389.0	902.1	719.8	598.3	565.5	493.1	455.7	418.3	387.9	380.9
62.5°	9756.8	3846.6	708.1	570.2	500.1	462.7	420.7	392.6	348.2	306.1	299.1
65°	7613.8	2353.3	546.8	418.3	402.0	383.3	357.6	331.8	278.1	236.0	229.0
67.5°	4802.5	1114.7	390.3	315.5	317.8	308.5	296.8	275.8	236.0	198.6	194.0
70°	2115.0	539.8	257.1	240.7	236.0	236.0	245.4	238.4	201.0	165.9	158.9
72.5°	719.8	289.8	191.6	182.3	170.6	168.3	205.7	198.6	161.3	128.5	121.5
75°	376.3	194.0	140.2	130.9	102.8	123.9	163.6	154.2	114.5	84.1	77.1
77.5°	245.4	137.9	95.8	84.1	58.4	81.8	121.5	107.5	67.8	42.1	37.4
80°	154.2	91.1	56.1	39.7	28.0	44.4	65.4	46.7	25.7	9.3	7.0
82.5°	81.8	46.7	21.0	14.0	11.7	14.0	16.4	11.7	4.7	0.0	0.0
85°	32.7	16.4	7.0	4.7	2.3	0.0	4.7	2.3	0.0	0.0	0.0
87.5°	11.7	2.3	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	0.0

(END OF REPORT)