

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: P941798

Luminaire Tested: **GALN-SB5C-730-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941798
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-SB5C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 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: 28643 lumens
Efficiency: N/A
Efficacy: 114.8 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): 249.5
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

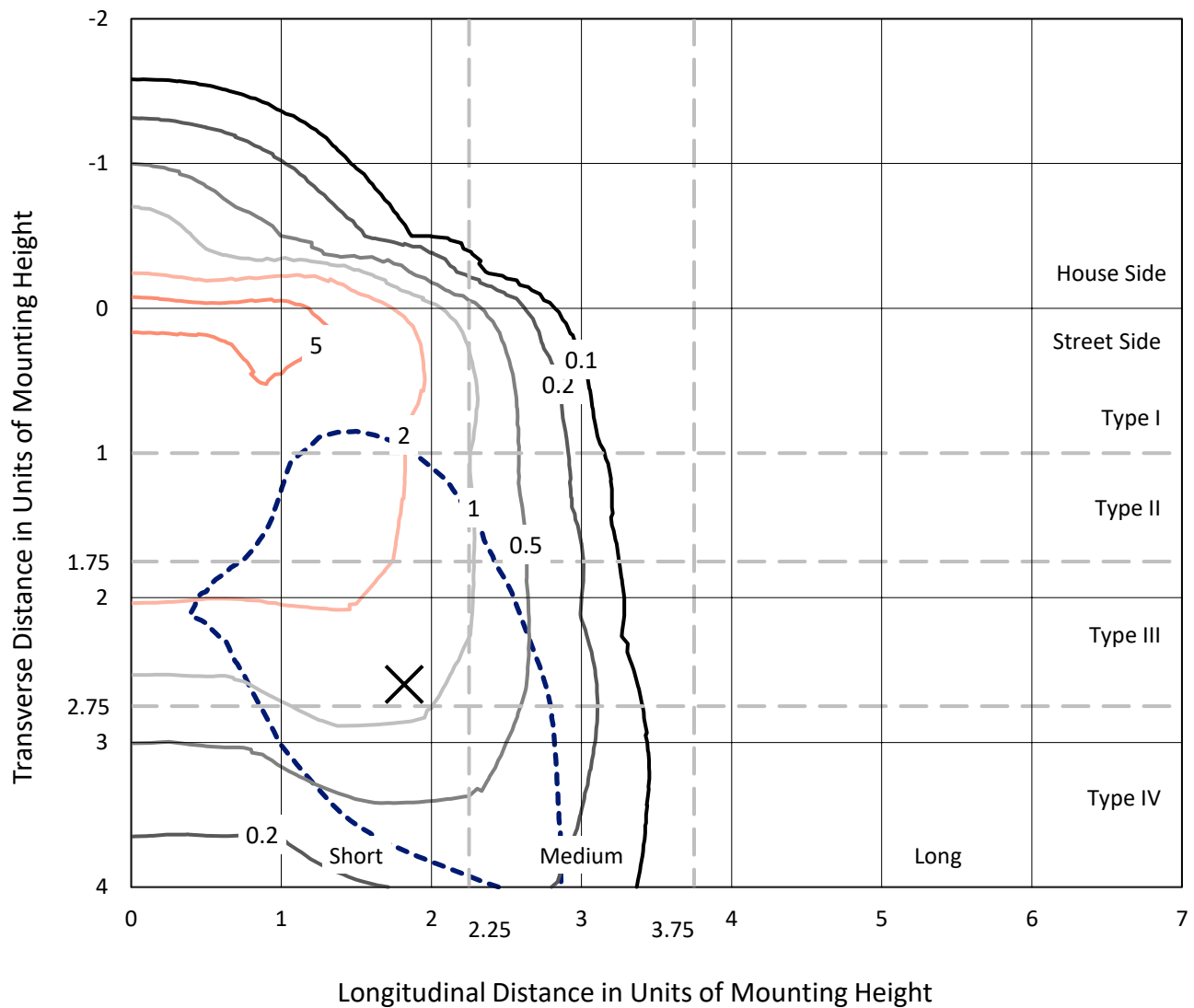


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Iso-Footcandle Lines of Horizontal Illumination

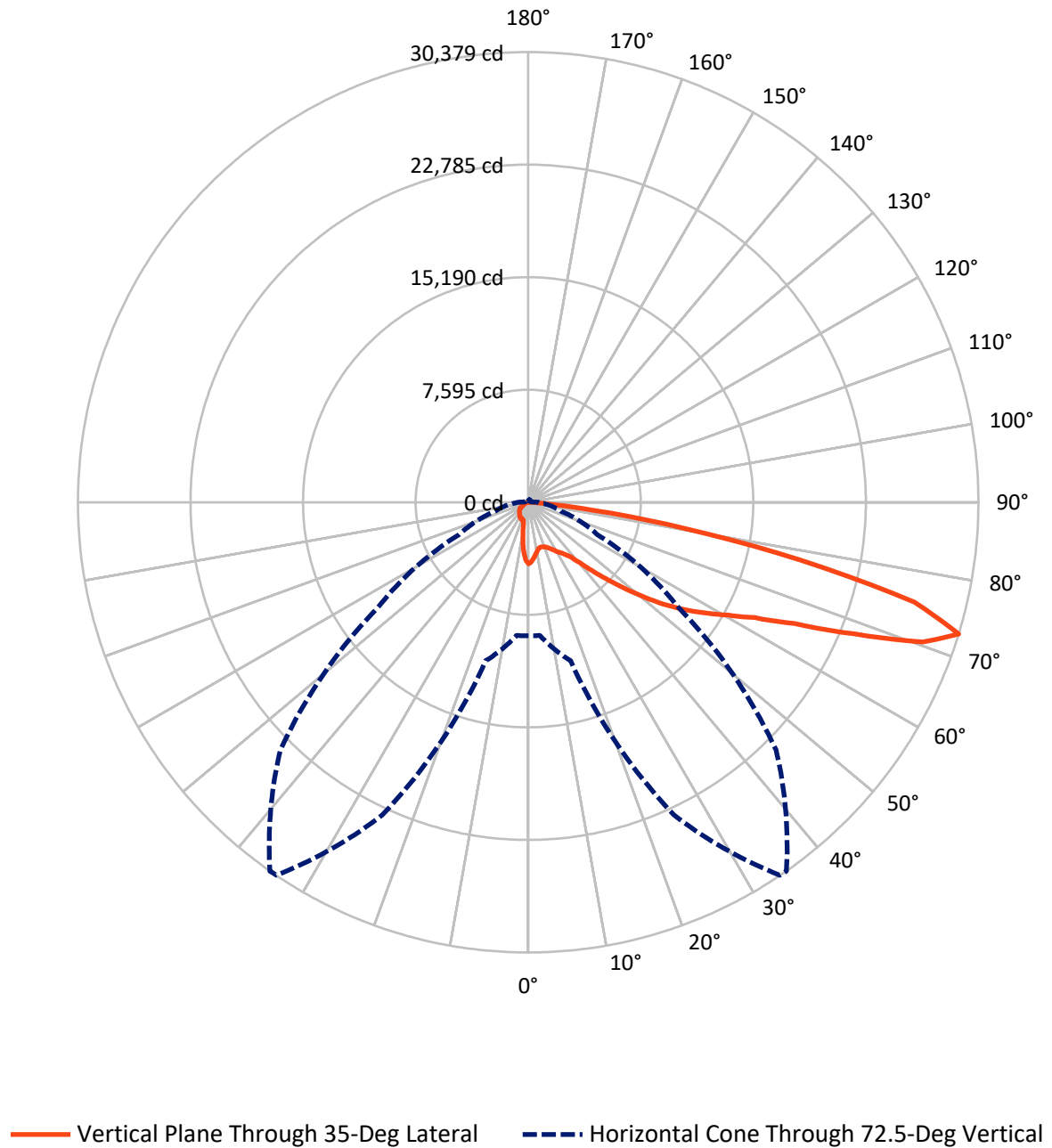
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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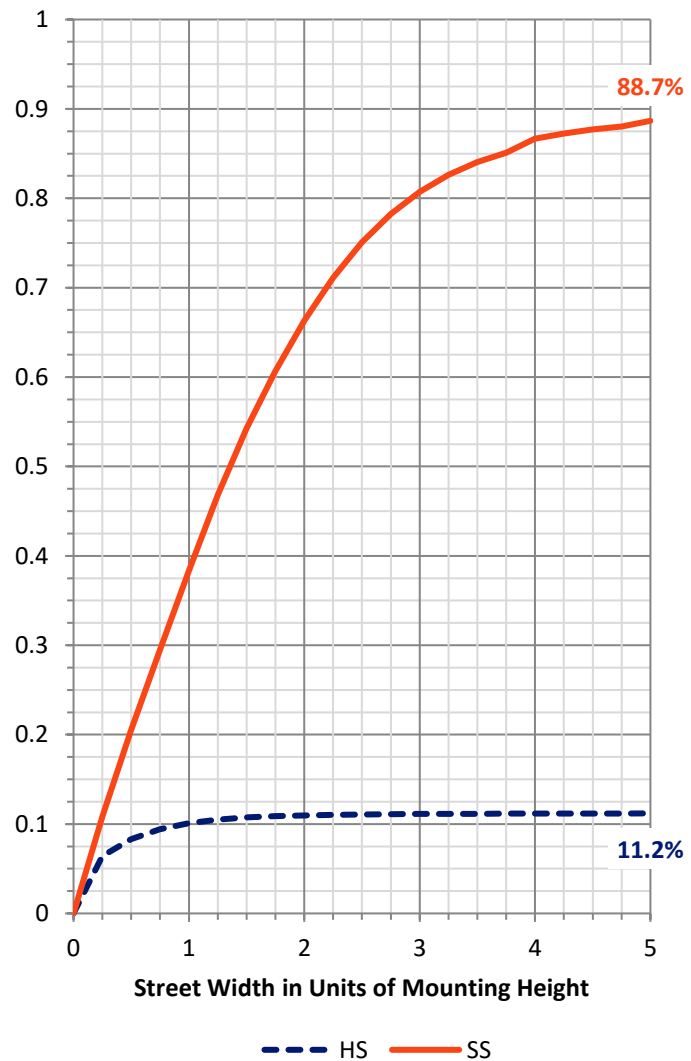
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3223.6	0.0	3223.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25419.4	0.0	25419.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	28643.0	0.0	28643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	1.2
10°-20°	798.0	2.8
20°-30°	1296.4	4.5
30°-40°	2163.0	7.6
40°-50°	4092.4	14.3
50°-60°	6502.9	22.7
60°-70°	8044.5	28.1
70°-80°	5000.5	17.5
80°-90°	404.1	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°	28643.0	100.0
0°-180°	28643.0	100.0

Coefficient of Utilization



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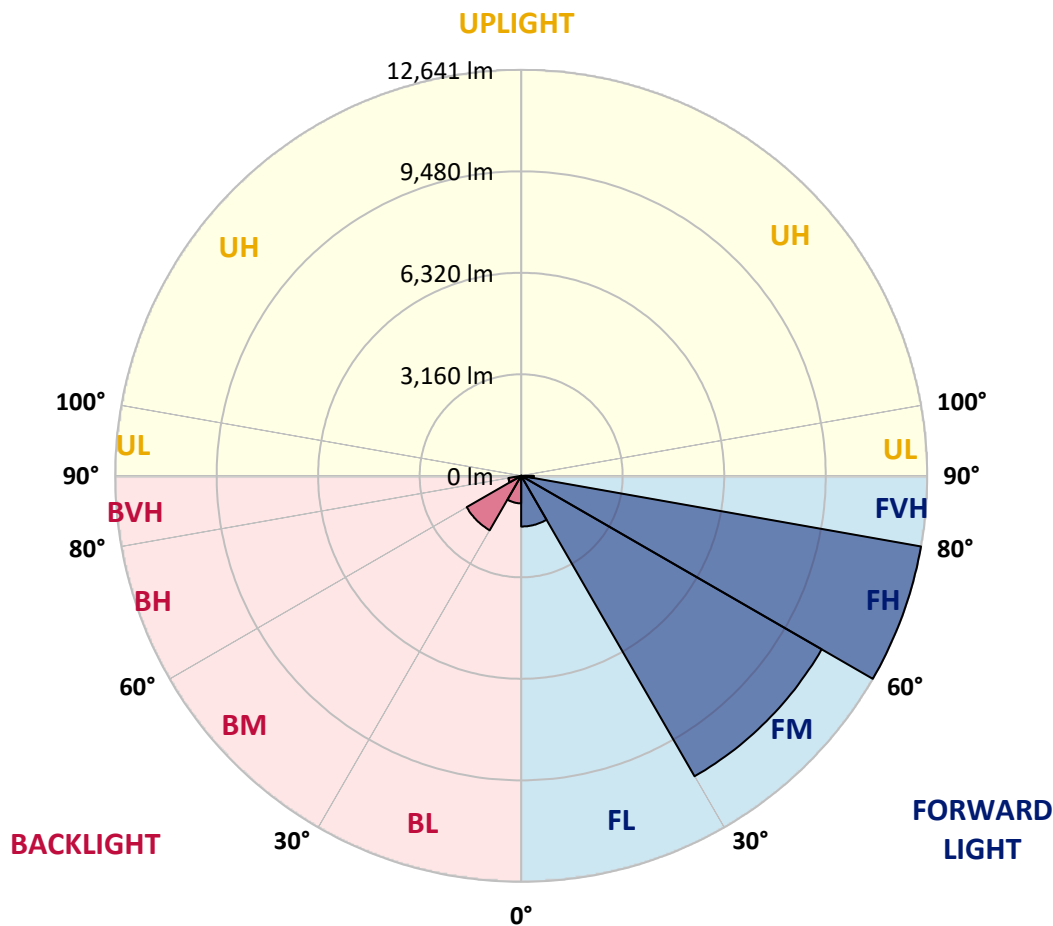
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1579.0	5.5			
FM	(30°-60°)	10801.3	37.7			
FH	(60°-80°)	12640.5	44.1			G5
FVH	(80°-90°)	398.6	1.4			G3/500
BL	(0°-30°)	856.6	3.0	B2/1000		
BM	(30°-60°)	1957.0	6.8	B2/2500		
BH	(60°-80°)	404.5	1.4	B1/500		G1/500
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3
2.5°	3966.6	4000.2	4006.5	4017.0	4017.0	4029.6	4050.6	4080.0	4128.2	4153.4	4170.2
5°	3656.0	3681.2	3712.7	3737.9	3786.1	3792.4	3874.3	3954.0	4065.3	4149.2	4208.0
7.5°	3343.3	3372.7	3414.7	3475.5	3538.5	3557.4	3681.2	3815.5	3991.8	4149.2	4247.9
10°	3122.9	3125.0	3162.8	3223.7	3324.4	3347.5	3498.6	3689.6	3910.0	4124.0	4285.7
12.5°	2999.1	3013.8	3030.6	3076.8	3173.3	3188.0	3349.6	3574.2	3828.1	4109.4	4329.7
15°	2999.1	3009.6	3020.1	3043.2	3120.8	3133.4	3276.2	3500.7	3786.1	4115.7	4401.1
17.5°	3030.6	3047.4	3039.0	3066.3	3148.1	3156.5	3282.4	3479.7	3784.0	4155.5	4510.2
20°	3106.2	3118.7	3102.0	3118.7	3200.6	3217.4	3347.5	3519.6	3819.7	4224.8	4646.6
22.5°	3225.8	3232.1	3192.2	3204.8	3288.7	3309.7	3460.8	3632.9	3905.8	4336.0	4829.2
25°	3376.9	3389.5	3328.6	3343.3	3423.1	3448.2	3622.4	3802.9	4042.2	4489.2	5062.2
27.5°	3551.1	3557.4	3504.9	3502.8	3605.7	3641.3	3817.6	4012.8	4224.8	4682.3	5356.0
30°	3750.5	3769.4	3719.0	3710.6	3840.7	3870.1	4044.3	4271.0	4493.4	4971.9	5773.7
32.5°	3907.9	3922.6	3893.2	3914.2	4046.4	4069.5	4319.2	4636.1	4915.3	5383.3	6342.4
35°	4134.5	4142.9	4075.8	4113.6	4264.7	4323.4	4694.9	5148.2	5446.3	5899.6	7085.4
37.5°	4955.2	4955.2	4669.7	4482.9	4627.7	4680.2	5209.1	5792.6	6101.1	6592.2	8021.4
40°	6090.6	6071.7	5654.0	5272.1	5253.2	5356.0	5941.6	6604.8	6946.9	7423.3	9075.0
42.5°	7301.6	7272.2	6703.4	6325.6	6262.7	6298.4	6787.4	7605.9	7954.3	8437.0	10208.3
45°	8376.1	8367.7	7847.2	7339.3	7226.0	7339.3	7843.0	8777.0	9026.7	9534.6	11339.6
47.5°	9276.5	9276.5	8896.6	8565.0	8506.2	8573.4	9272.3	10076.1	10053.0	10703.6	12441.4
50°	10313.3	10304.9	9943.9	9801.2	9862.0	9956.5	10917.7	11444.5	11115.0	11851.7	13425.7
52.5°	11039.4	11089.8	10966.0	10942.9	11253.5	11417.2	12588.3	12783.5	12065.7	12940.9	14162.4
55°	11614.5	11673.3	11816.0	11977.6	12575.7	12789.8	14206.5	14053.2	12861.2	13885.3	14586.3
57.5°	12428.8	12344.9	12565.2	12884.2	13851.8	14109.9	15774.2	15251.6	13501.3	14651.4	14632.5
60°	13417.3	13429.9	13467.7	13870.7	15125.7	15457.3	17318.9	16385.0	13912.6	15121.5	14120.4
62.5°	14605.2	14624.1	14701.8	15320.9	16836.2	17148.9	18964.3	17312.6	14101.5	14989.3	12798.2
65°	14523.4	14603.1	15469.9	17587.5	19436.5	19745.1	20884.7	17963.2	13816.1	13780.4	10420.3
67.5°	13230.5	13360.7	14810.9	20294.9	23357.0	23701.2	23205.9	18091.2	12584.1	10716.2	6797.9
70°	11534.7	11580.9	13325.0	22729.5	27896.6	28245.0	25283.7	16683.0	9549.3	5977.2	3045.3
72.5°	9007.8	9018.3	11064.6	23294.0	30360.5	30379.4	23652.9	12384.7	5135.6	2296.0	1057.8
75°	6434.8	6371.8	7410.7	18890.9	26710.8	26924.9	17732.4	5809.3	1962.3	1085.1	526.8
77.5°	3450.3	3519.6	4193.3	11203.1	18452.2	18817.4	9675.2	1674.8	999.0	738.8	348.4
80°	1066.2	1124.9	1718.9	5129.3	10451.8	10672.2	3586.8	745.1	696.8	526.8	228.8
82.5°	335.8	348.4	801.7	2155.4	4338.1	4438.9	1038.9	421.8	476.4	348.4	134.3
85°	96.5	98.6	356.8	803.8	1072.5	1093.4	291.7	163.7	272.8	216.2	69.3
87.5°	10.5	33.6	134.3	134.3	94.4	92.3	31.5	35.7	77.7	27.3	12.6
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°	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3	4151.3
2.5°	4159.7	4161.8	4134.5	4088.4	4038.0	3996.0	3943.6	3901.6	3872.2	3863.8	3878.5
5°	4189.1	4174.4	4096.8	3956.1	3788.2	3643.4	3481.8	3353.8	3269.9	3234.2	3246.8
7.5°	4233.2	4191.2	4021.2	3744.2	3423.1	3137.6	2848.0	2623.4	2480.7	2409.4	2419.9
10°	4271.0	4187.0	3895.3	3437.8	2946.6	2514.3	2123.9	1853.2	1702.1	1630.7	1632.8
12.5°	4306.6	4184.9	3731.6	3074.7	2409.4	1880.5	1517.4	1383.1	1341.1	1326.4	1322.2
15°	4373.8	4191.2	3525.9	2659.1	1874.2	1420.9	1288.6	1286.5	1294.9	1290.7	1288.6
17.5°	4466.1	4197.5	3292.9	2218.4	1446.0	1253.0	1246.7	1265.5	1278.1	1271.8	1269.7
20°	4585.8	4222.7	3045.3	1781.8	1242.5	1211.0	1225.7	1242.5	1253.0	1242.5	1240.4
22.5°	4753.7	4266.8	2774.5	1431.3	1177.4	1185.8	1198.4	1217.3	1227.8	1213.1	1211.0
25°	4959.4	4336.0	2508.0	1244.6	1145.9	1156.4	1175.3	1196.3	1208.9	1194.2	1192.1
27.5°	5225.9	4447.3	2262.5	1202.6	1114.4	1120.7	1148.0	1179.5	1196.3	1177.4	1177.4
30°	5612.1	4629.8	2050.5	1221.5	1095.5	1080.9	1118.6	1162.7	1181.6	1164.8	1162.7
32.5°	6124.2	4888.0	1920.4	1250.9	1087.2	1034.7	1070.4	1127.0	1158.5	1148.0	1148.0
35°	6795.8	5280.5	1870.0	1284.4	1080.9	986.4	1011.6	1072.5	1127.0	1137.5	1137.5
37.5°	7610.1	5826.1	1884.7	1299.1	1062.0	946.5	959.1	1011.6	1083.0	1116.5	1124.9
40°	8535.6	6462.1	1968.6	1284.4	1041.0	913.0	915.1	954.9	1017.9	1068.3	1085.1
42.5°	9490.6	7205.0	2123.9	1229.9	1022.1	883.6	877.3	904.6	946.5	982.2	996.9
45°	10399.3	7969.0	2277.1	1154.3	999.0	854.2	839.5	850.0	858.4	873.1	881.5
47.5°	11192.6	8506.2	2233.1	1085.1	967.5	820.6	795.4	791.2	766.0	763.9	761.8
50°	11740.4	8623.8	1983.3	1015.8	921.4	782.8	743.0	717.8	673.7	652.7	654.8
52.5°	11914.6	8159.9	1620.2	946.5	845.8	732.5	675.8	635.9	581.4	562.5	560.4
55°	11683.8	7251.2	1294.9	862.6	740.9	665.3	602.3	549.9	505.8	482.7	482.7
57.5°	11119.2	6094.8	1024.2	763.9	629.6	589.7	526.8	474.3	436.5	413.5	409.3
60°	10183.1	4839.7	810.1	646.4	537.3	507.9	442.8	409.3	375.7	348.4	342.1
62.5°	8762.3	3454.5	635.9	512.1	449.1	415.6	377.8	352.6	312.7	274.9	268.6
65°	6837.7	2113.4	491.1	375.7	361.0	344.2	321.1	298.0	249.8	212.0	205.7
67.5°	4312.9	1001.1	350.5	283.3	285.4	277.0	266.5	247.7	212.0	178.4	174.2
70°	1899.4	484.8	230.9	216.2	212.0	212.0	220.4	214.1	180.5	149.0	142.7
72.5°	646.4	260.2	172.1	163.7	153.2	151.1	184.7	178.4	144.8	115.4	109.1
75°	337.9	174.2	125.9	117.5	92.3	111.2	146.9	138.5	102.8	75.6	69.3
77.5°	220.4	123.8	86.0	75.6	52.5	73.5	109.1	96.5	60.9	37.8	33.6
80°	138.5	81.9	50.4	35.7	25.2	39.9	58.8	42.0	23.1	8.4	6.3
82.5°	73.5	42.0	18.9	12.6	10.5	12.6	14.7	10.5	4.2	0.0	0.0
85°	29.4	14.7	6.3	4.2	2.1	0.0	4.2	2.1	0.0	0.0	0.0
87.5°	10.5	2.1	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)