

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: P452542

Luminaire Tested: **GALN-SA3C-730-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15660 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

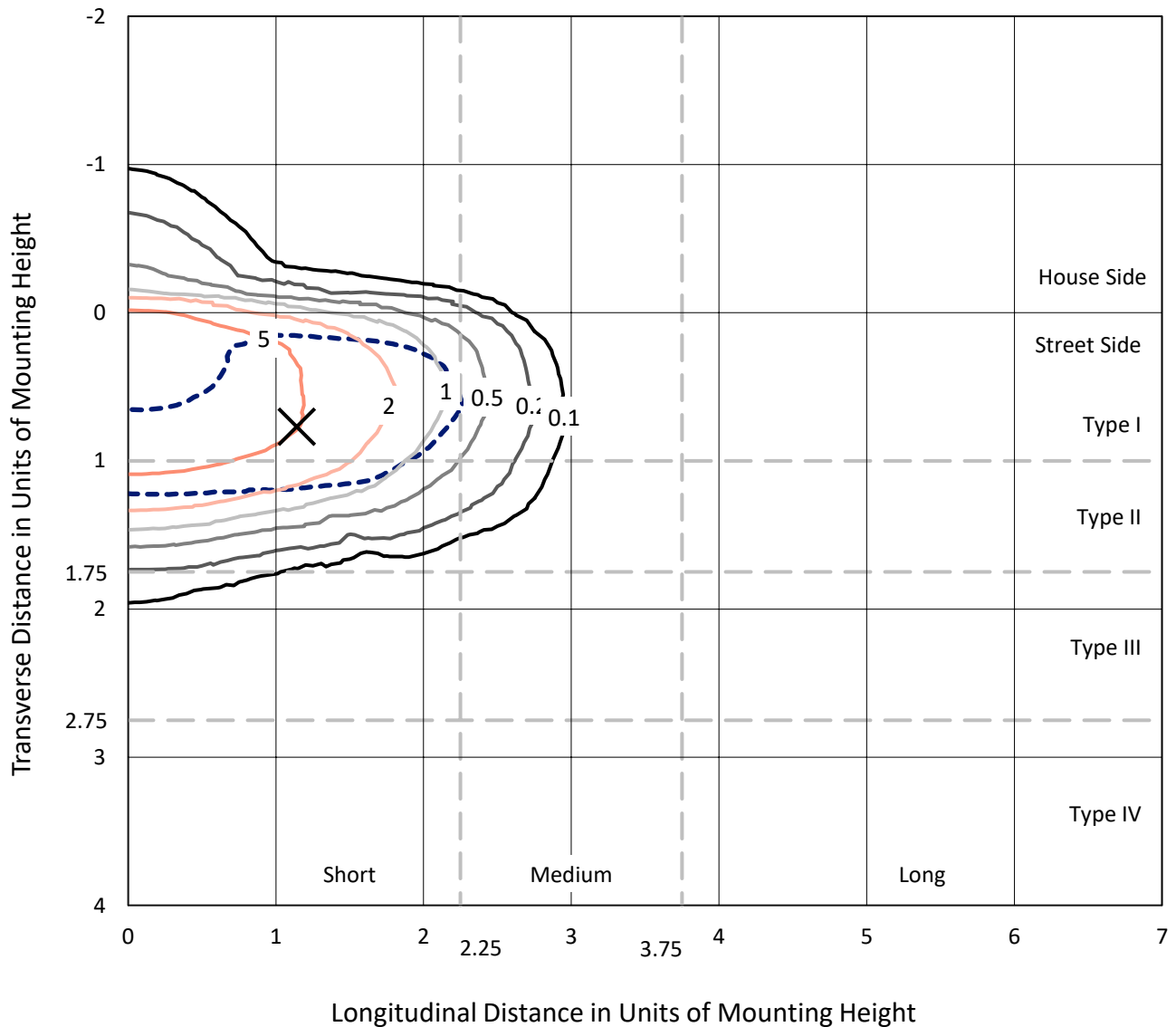
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

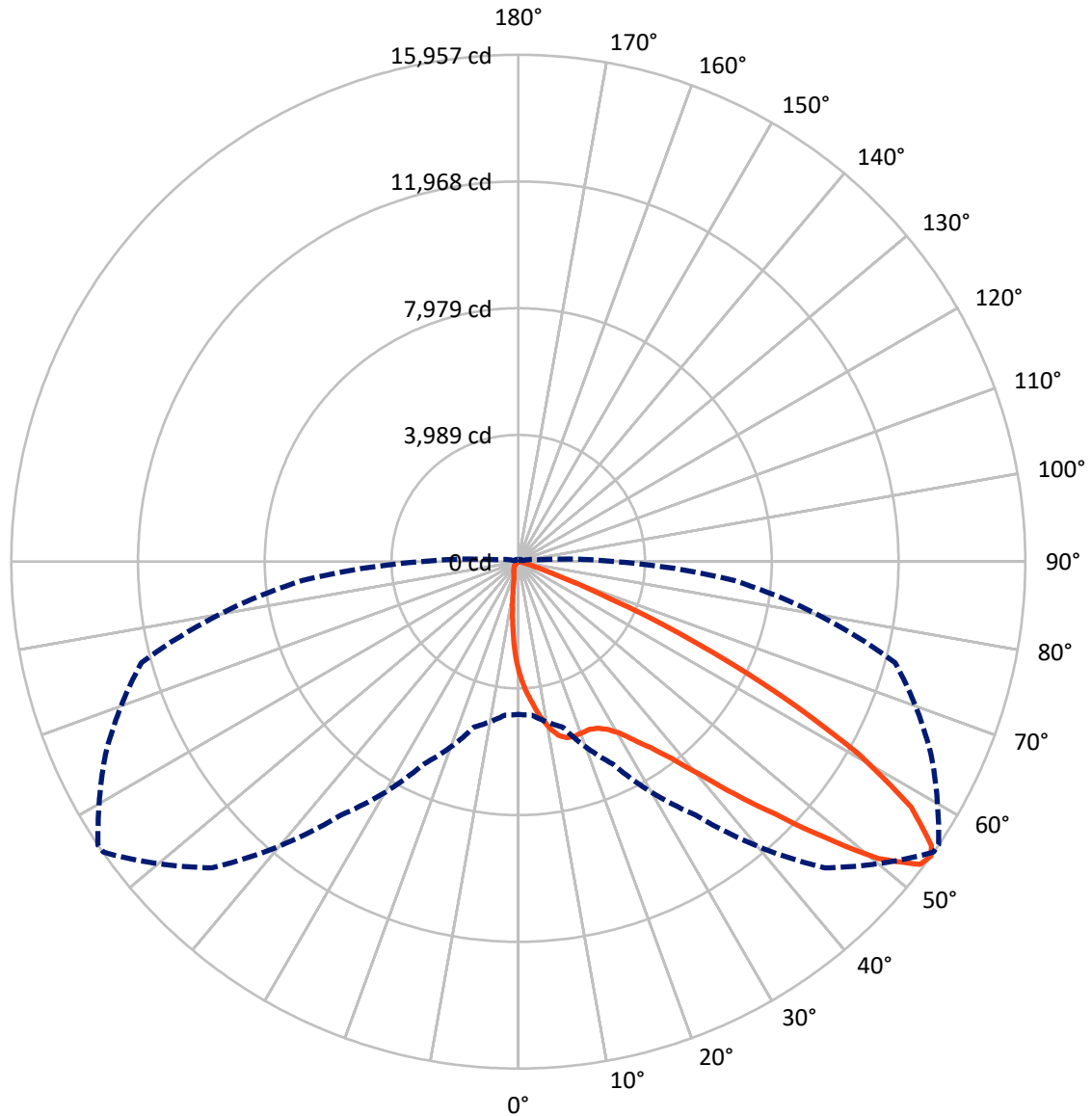
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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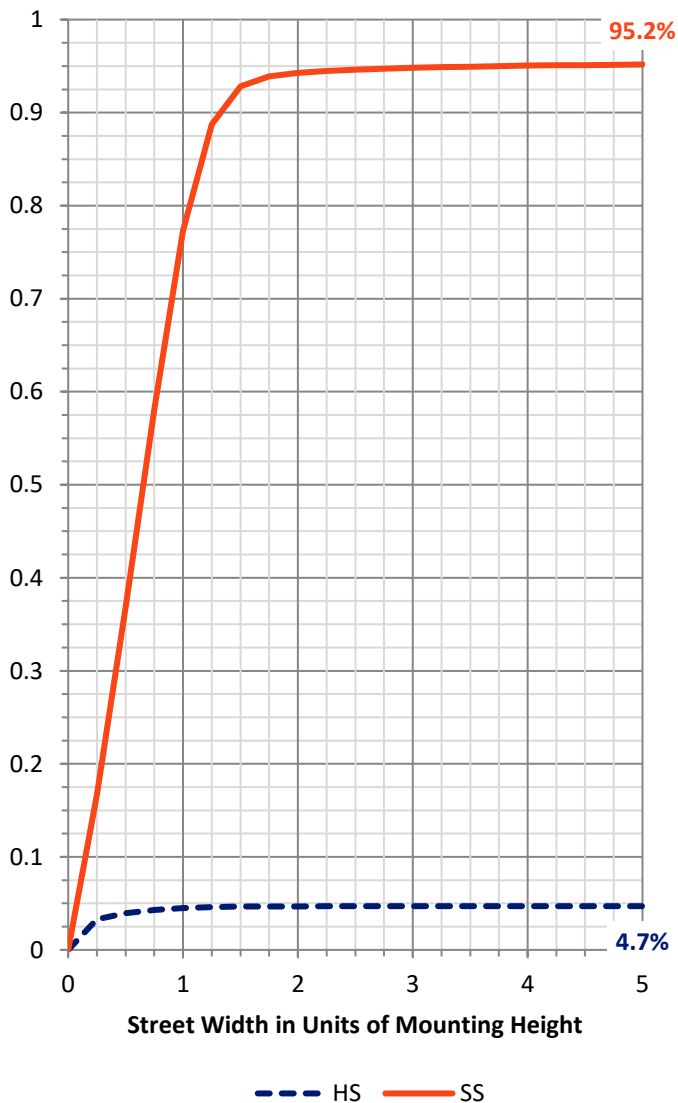
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	740.5	0.0	740.5
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	14919.5	0.0	14919.5
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	15660.0	0.0	15660.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.4	2.0
10°-20°	831.1	5.3
20°-30°	1439.4	9.2
30°-40°	2484.7	15.9
40°-50°	4229.0	27.0
50°-60°	4185.1	26.7
60°-70°	1910.2	12.2
70°-80°	245.3	1.6
80°-90°	27.6	0.2
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°	15660.0	100.0
0°-180°	15660.0	100.0



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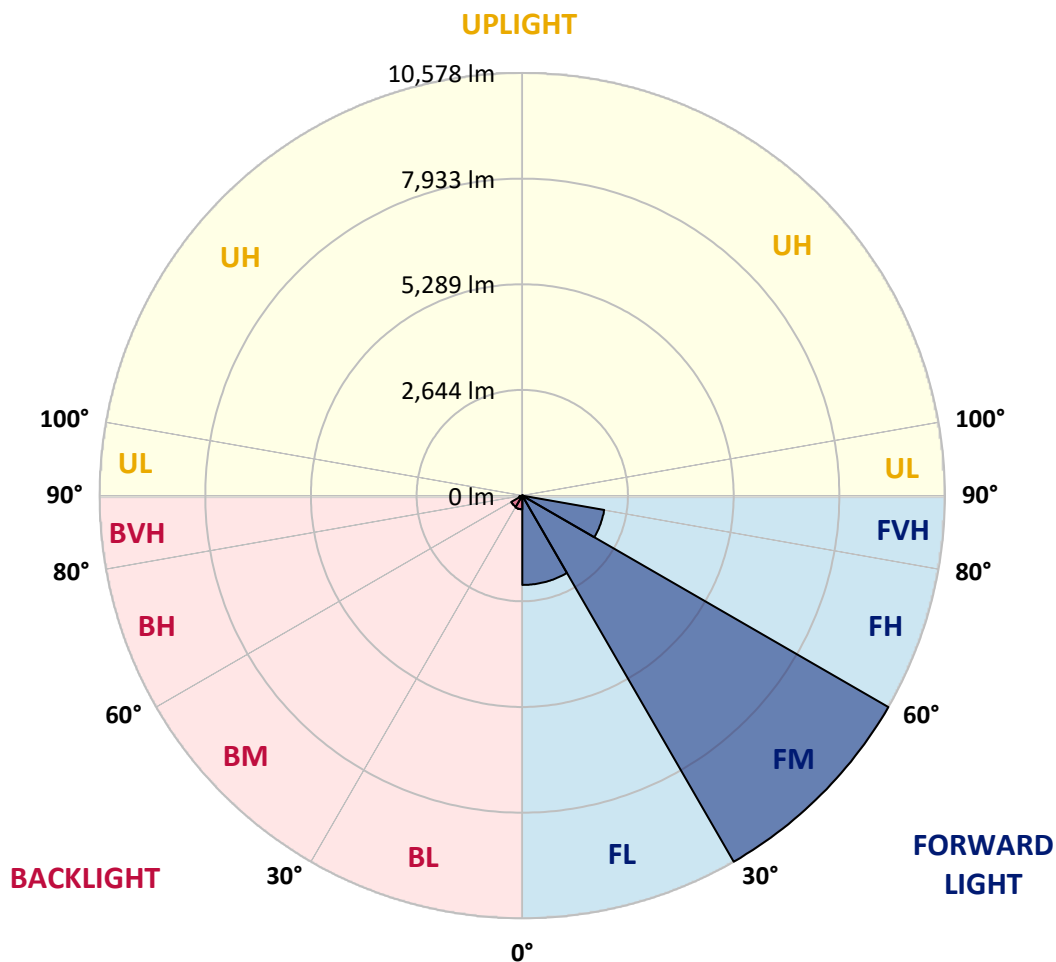
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2235.5	14.3			
FM	(30°-60°)	10577.9	67.5			
FH	(60°-80°)	2081.3	13.3			G2/5000
FVH	(80°-90°)	24.7	0.2			G1/100
BL	(0°-30°)	342.5	2.2	B1/500		
BM	(30°-60°)	320.9	2.0	B1/1000		
BH	(60°-80°)	74.2	0.5	B0/110		G0/110
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2
2.5°	4421.6	4391.0	4348.7	4316.0	4238.9	4127.9	4010.6	4010.6	3897.6	3740.2	3579.6
5°	5099.9	5079.9	5038.7	4954.1	4867.5	4712.2	4476.6	4435.4	4233.6	3948.3	3648.2
7.5°	5375.7	5385.2	5387.3	5365.1	5323.9	5170.7	4937.2	4908.7	4586.5	4204.0	3738.1
10°	5111.6	5158.1	5203.5	5295.4	5425.4	5462.3	5330.3	5300.7	4983.7	4462.8	3835.3
12.5°	4718.5	4743.9	4769.2	4914.0	5175.0	5474.0	5612.4	5611.3	5342.9	4720.6	3958.9
15°	4535.7	4557.9	4560.0	4624.5	4850.6	5285.9	5732.8	5748.7	5693.7	5038.7	4092.0
17.5°	4573.8	4591.7	4577.0	4592.8	4711.1	5078.8	5719.1	5771.9	5977.9	5344.0	4212.4
20°	4822.1	4856.9	4799.9	4755.5	4791.4	5023.9	5672.6	5746.5	6178.7	5641.9	4322.3
22.5°	5267.9	5286.9	5215.1	5093.6	5030.2	5139.0	5659.9	5732.8	6349.8	5886.0	4385.7
25°	5763.5	5757.1	5677.9	5541.6	5408.5	5371.5	5743.4	5808.9	6491.4	6105.8	4404.7
27.5°	6259.0	6278.0	6144.9	5975.8	5816.3	5720.1	5930.4	5979.0	6650.9	6356.2	4428.0
30°	6834.8	6804.1	6673.1	6479.8	6297.0	6162.8	6231.5	6245.2	6870.7	6687.9	4489.3
32.5°	7583.9	7499.4	7352.5	7014.4	6883.4	6656.2	6673.1	6690.0	7138.0	7016.5	4563.2
35°	8600.3	8596.0	8308.7	7853.3	7534.2	7252.1	7178.2	7191.9	7542.7	7504.6	4727.0
37.5°	9823.8	9840.7	9513.1	9054.6	8467.1	8019.2	7867.0	7869.1	8157.6	8178.7	4976.3
40°	10820.1	10864.4	10669.0	10359.4	9779.4	9078.9	8823.2	8800.0	9021.8	8995.4	5332.4
42.5°	11249.0	11290.2	11363.1	11470.9	11151.8	10573.9	9970.6	10002.3	10069.9	9885.0	5731.8
45°	11038.8	11104.3	11390.6	12056.2	12356.3	12161.9	11442.4	11331.4	11045.1	10851.8	6133.2
47.5°	10162.9	10322.4	10801.1	11909.4	12959.6	13616.7	13103.3	12956.4	12021.4	11557.5	6388.9
50°	8722.8	8732.3	9399.0	10815.8	12646.8	14534.9	14799.0	14689.1	12931.1	11953.7	6517.8
52.5°	6323.4	6531.6	7142.2	8783.1	11292.4	14395.4	15879.9	15834.4	13869.3	12156.6	6703.8
54°	4807.3	4847.4	5390.5	7018.6	9736.1	13629.4	15946.4	15957.0	14335.2	12279.2	6813.7
55°	3940.9	3844.8	4415.3	5979.0	8674.2	12952.2	15728.8	15779.5	14544.4	12342.6	6895.0
57.5°	1868.0	1869.0	2305.4	3153.8	5432.8	10057.2	14398.6	14578.2	14567.6	12451.4	7145.4
60°	945.6	951.9	1048.1	1455.9	2683.6	6685.8	11905.1	12333.0	13446.6	12467.2	7227.8
62.5°	661.4	654.0	638.2	700.5	1129.4	3397.8	8863.4	9235.3	11424.4	11863.9	6965.8
65°	566.3	550.5	506.1	496.6	570.5	1353.4	5520.4	6126.9	8722.8	10272.8	6219.9
67.5°	483.9	477.6	437.4	413.1	403.6	589.6	2848.4	3167.5	5962.1	7384.2	4711.1
70°	411.0	407.8	383.5	352.9	326.5	352.9	1056.5	1309.1	3322.8	3975.8	2223.0
72.5°	333.9	337.0	341.3	302.2	274.7	250.4	451.1	525.1	1390.4	1421.1	777.6
75°	292.7	289.5	289.5	263.1	229.3	186.0	248.3	267.3	425.8	395.1	180.7
77.5°	206.0	198.6	232.4	216.6	191.2	132.1	141.6	150.0	176.4	151.1	84.5
80°	142.6	142.6	149.0	194.4	172.2	96.1	86.6	93.0	104.6	89.8	48.6
82.5°	80.3	82.4	97.2	103.5	100.4	64.4	57.1	58.1	69.7	61.3	30.6
85°	9.5	15.8	56.0	54.9	41.2	28.5	31.7	32.8	43.3	38.0	18.0
87.5°	1.1	2.1	11.6	14.8	10.6	11.6	11.6	11.6	14.8	16.9	12.7
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°	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2	3479.2
2.5°	3492.9	3412.6	3221.4	2999.5	2858.0	2627.6	2433.2	2292.7	2257.8	2190.2	2210.3
5°	3488.7	3321.8	2931.9	2519.9	2080.3	1752.8	1508.7	1316.5	1231.9	1175.9	1136.8
7.5°	3490.8	3229.9	2604.4	1948.3	1423.2	1102.0	875.9	758.6	680.4	647.7	651.9
10°	3497.2	3126.3	2224.0	1443.2	960.4	712.1	573.7	517.7	491.3	487.1	486.0
12.5°	3512.0	3013.3	1860.6	1071.3	672.0	517.7	464.9	445.9	437.4	437.4	434.2
15°	3527.8	2888.6	1558.4	796.6	517.7	444.8	420.5	411.0	405.7	405.7	404.7
17.5°	3527.8	2744.9	1276.3	618.1	445.9	408.9	389.9	377.2	373.0	373.0	371.9
20°	3505.6	2578.0	1025.9	497.6	404.7	375.1	356.1	342.3	337.0	334.9	333.9
22.5°	3428.5	2355.0	816.7	427.9	370.8	345.5	321.2	305.3	301.1	299.0	300.1
25°	3291.1	2103.6	646.6	376.1	340.2	309.6	288.4	276.8	272.6	272.6	273.6
27.5°	3149.6	1840.5	512.4	337.0	303.2	275.8	258.9	251.5	250.4	253.6	254.6
30°	3018.5	1576.4	415.2	305.3	270.5	247.2	235.6	233.5	233.5	234.6	235.6
32.5°	2872.7	1345.0	347.6	277.9	244.1	224.0	217.6	217.6	219.8	219.8	221.9
35°	2780.8	1146.4	305.3	251.5	224.0	207.1	202.9	203.9	207.1	211.3	213.4
37.5°	2731.2	987.9	277.9	230.3	205.0	193.3	189.1	191.2	198.6	206.0	207.1
40°	2735.4	868.5	255.7	212.4	190.2	177.5	174.3	180.7	188.1	195.5	196.5
42.5°	2781.9	779.7	234.6	191.2	177.5	159.5	158.5	164.8	168.0	175.4	176.4
45°	2836.8	715.3	212.4	169.0	154.3	138.4	139.5	144.7	149.0	160.6	162.7
47.5°	2853.7	670.9	187.0	143.7	126.8	121.5	122.6	125.7	134.2	144.7	145.8
50°	2872.7	643.4	162.7	121.5	107.8	106.7	107.8	109.9	115.2	119.4	118.3
52.5°	2954.1	642.4	142.6	105.7	91.9	94.0	95.1	94.0	89.8	83.5	81.4
54°	3030.2	645.5	133.1	98.3	84.5	87.7	86.6	81.4	70.8	64.4	61.3
55°	3091.4	648.7	127.8	93.0	80.3	81.4	82.4	71.8	58.1	51.8	49.7
57.5°	3211.9	641.3	115.2	81.4	70.8	66.6	65.5	47.5	31.7	27.5	25.4
60°	3151.7	579.0	104.6	69.7	60.2	53.9	44.4	26.4	15.8	11.6	11.6
62.5°	2915.0	491.3	93.0	57.1	49.7	41.2	23.2	14.8	7.4	4.2	3.2
65°	2607.6	413.1	83.5	45.4	39.1	26.4	12.7	9.5	3.2	0.0	0.0
67.5°	1938.8	306.4	70.8	35.9	29.6	16.9	8.5	5.3	1.1	0.0	0.0
70°	898.1	187.0	60.2	27.5	21.1	12.7	6.3	3.2	0.0	0.0	0.0
72.5°	257.8	117.3	49.7	20.1	14.8	10.6	5.3	2.1	1.1	0.0	0.0
75°	89.8	94.0	37.0	14.8	11.6	7.4	4.2	2.1	1.1	0.0	0.0
77.5°	53.9	76.1	23.2	12.7	9.5	6.3	4.2	2.1	1.1	1.1	0.0
80°	30.6	50.7	14.8	10.6	8.5	5.3	3.2	2.1	1.1	1.1	0.0
82.5°	16.9	24.3	11.6	9.5	7.4	5.3	3.2	2.1	1.1	1.1	1.1
85°	13.7	12.7	9.5	8.5	6.3	4.2	3.2	1.1	0.0	0.0	0.0
87.5°	10.6	8.5	8.5	8.5	6.3	4.2	3.2	1.1	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)