

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: P955578

Luminaire Tested: **GALN-SB8C-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46764 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 399.8
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



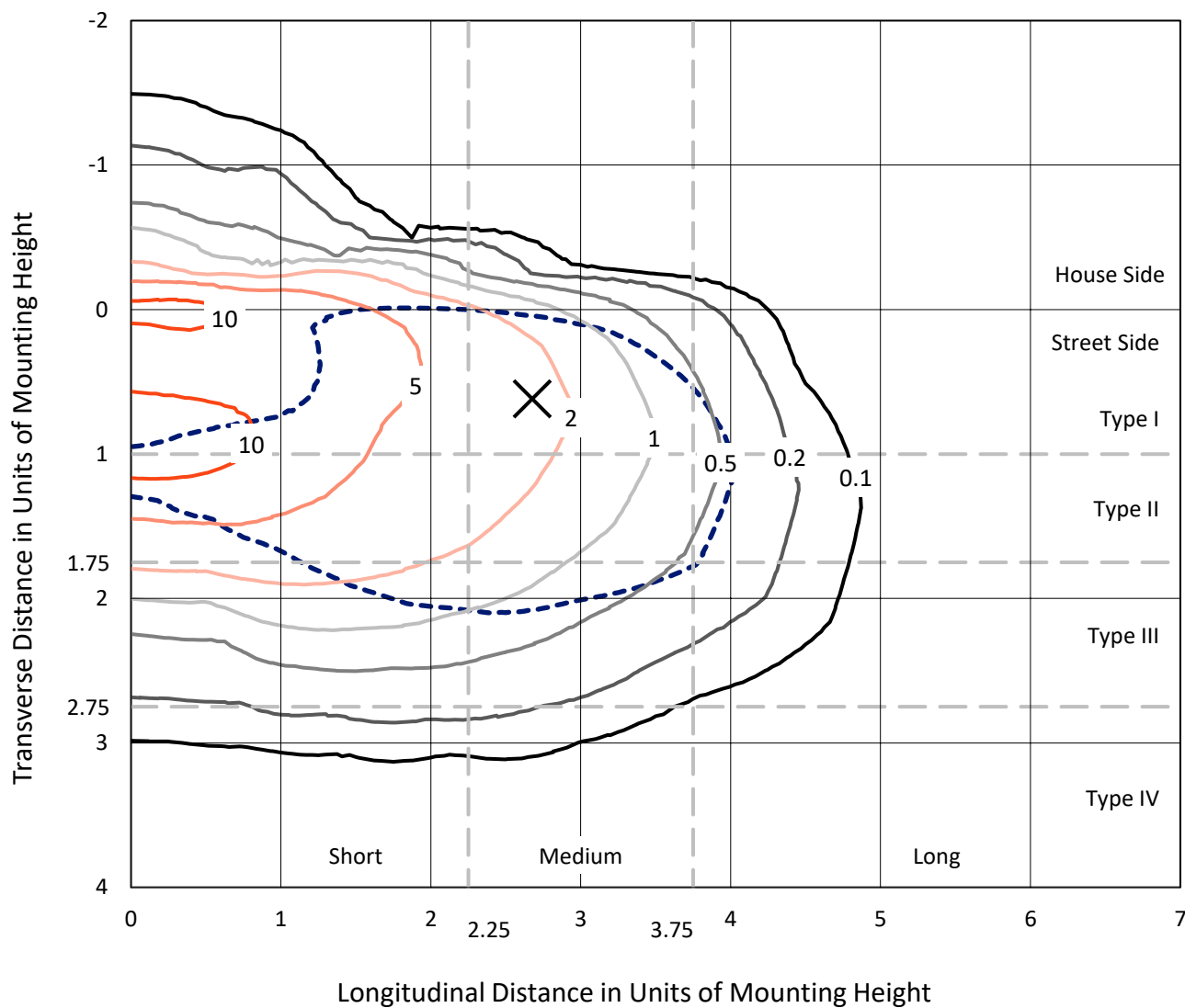
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

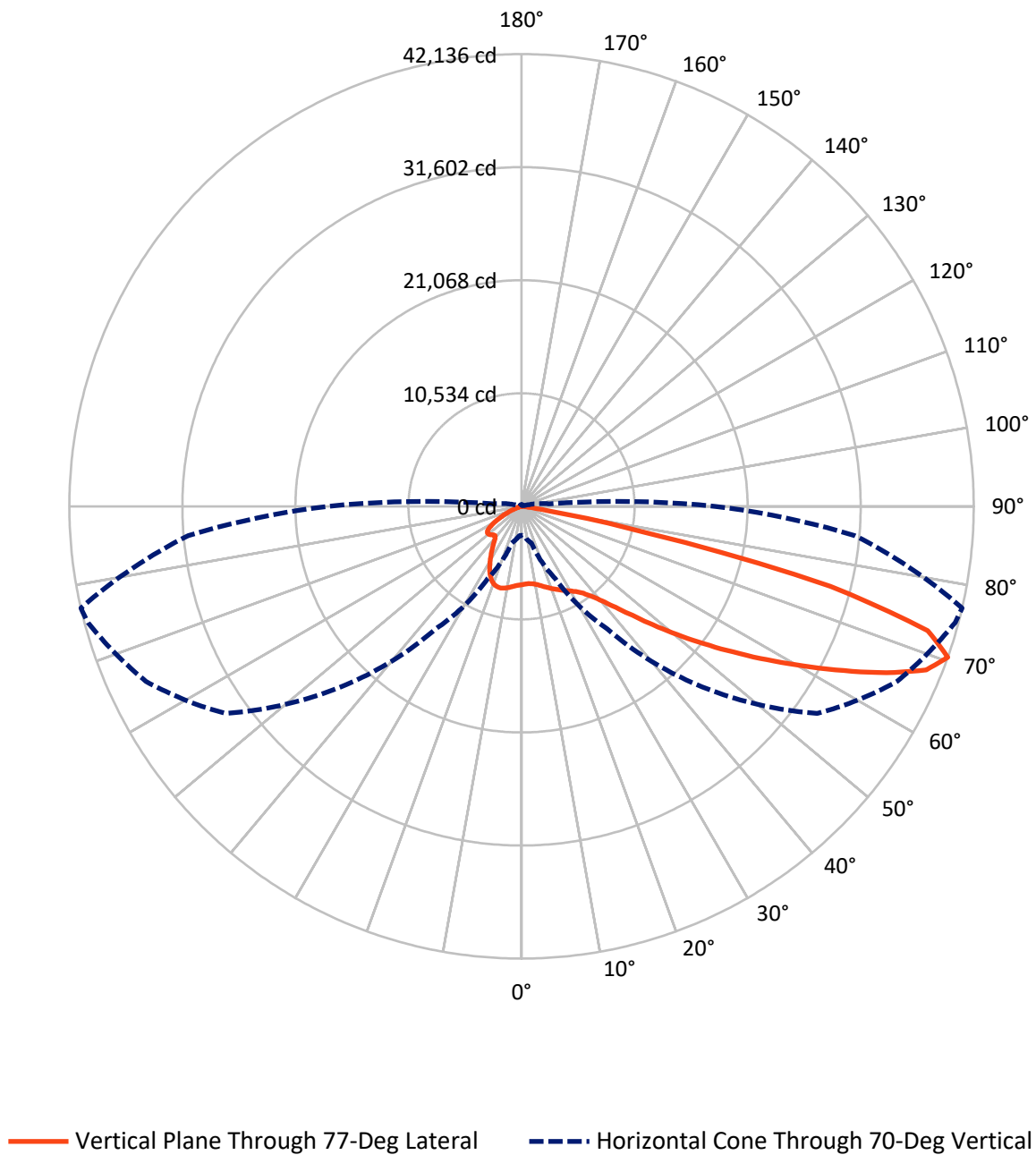


Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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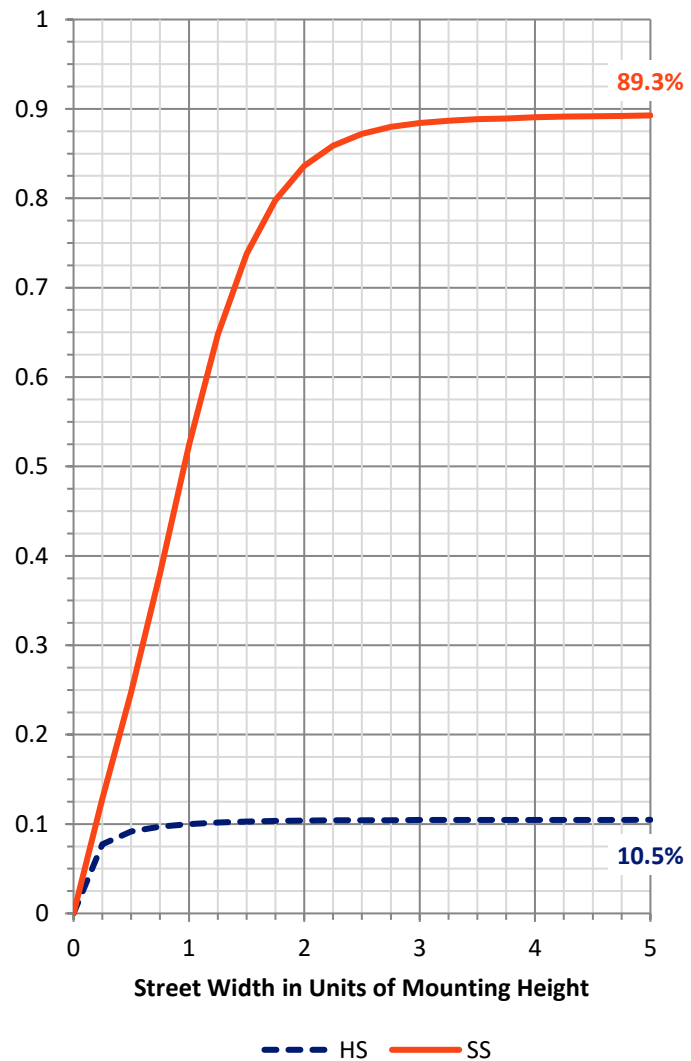
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4929.6	0.0	4929.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	41834.4	0.0	41834.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	46764.0	0.0	46764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.7	1.3
10°-20°	1492.4	3.2
20°-30°	2308.3	4.9
30°-40°	4188.5	9.0
40°-50°	7906.2	16.9
50°-60°	11423.9	24.4
60°-70°	12160.4	26.0
70°-80°	6444.2	13.8
80°-90°	211.6	0.5
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°	46764.0	100.0
0°-180°	46764.0	100.0

Coefficient of Utilization



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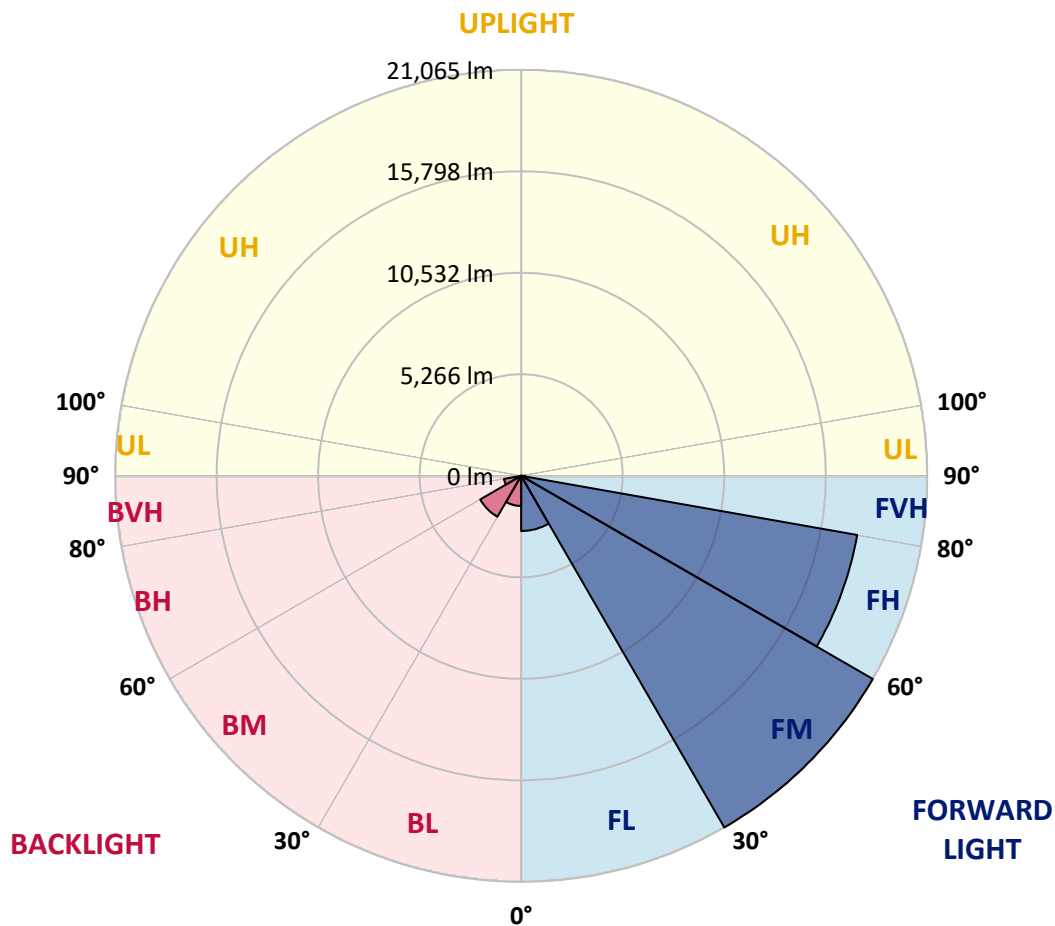
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2863.1	6.1			
FM	(30°-60°)	21064.6	45.0			
FH	(60°-80°)	17700.8	37.9			G5
FVH	(80°-90°)	205.9	0.4			G2/225
BL	(0°-30°)	1566.2	3.3	B3/2500		
BM	(30°-60°)	2454.0	5.2	B2/2500		
BH	(60°-80°)	903.7	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3
2.5°	6848.4	6910.4	6901.6	6942.9	6957.7	7016.7	7075.8	7155.5	7244.1	7241.2	7300.2
5°	6461.5	6523.6	6538.3	6594.4	6665.3	6756.9	6877.9	7037.4	7202.8	7229.4	7347.5
7.5°	6003.8	6068.8	6107.2	6219.4	6349.3	6538.3	6736.2	6969.5	7244.1	7282.5	7509.9
10°	5546.1	5605.1	5655.3	5814.8	6021.5	6302.1	6624.0	6960.6	7329.8	7385.9	7707.8
12.5°	5262.6	5318.7	5374.8	5513.6	5770.5	6113.1	6550.1	7002.0	7471.5	7551.3	7976.5
15°	5162.1	5212.4	5256.6	5380.7	5619.9	6009.7	6535.4	7087.6	7651.7	7758.0	8301.4
17.5°	5176.9	5203.5	5233.0	5327.5	5560.8	5962.5	6562.0	7235.3	7864.3	7958.8	8626.2
20°	5262.6	5277.3	5280.3	5345.2	5552.0	5956.6	6615.1	7377.0	8065.1	8192.1	8948.1
22.5°	5371.8	5377.7	5371.8	5416.1	5608.1	6000.8	6686.0	7548.3	8289.6	8407.7	9273.0
25°	5882.7	5770.5	5628.7	5543.1	5702.6	6086.5	6792.3	7778.7	8534.7	8649.8	9589.0
27.5°	7468.6	7146.7	6638.7	6068.8	5897.5	6210.5	6940.0	8012.0	8782.7	8886.1	9928.6
30°	10043.7	9621.4	8759.1	7474.5	6523.6	6470.4	7131.9	8245.3	9045.6	9157.8	10291.8
32.5°	12624.8	12521.5	11526.2	9748.4	7932.2	7049.2	7450.9	8561.3	9394.0	9482.6	10782.0
35°	15235.4	15025.7	14210.7	12453.5	10102.8	8227.5	7982.4	8974.7	9851.8	9952.2	11496.7
37.5°	17234.7	17107.7	16602.7	15155.7	12678.0	10046.7	8892.0	9615.5	10516.3	10628.5	12412.2
40°	19000.7	18941.7	18770.4	17816.5	15557.3	12427.0	10306.6	10607.8	11437.6	11570.5	13534.4
42.5°	20388.7	20527.5	20625.0	20359.2	18525.3	15143.9	12208.4	12001.7	12722.3	12858.1	14963.7
45°	21809.2	21856.4	22249.2	22633.1	21472.5	17984.8	14352.4	13634.8	14319.9	14488.3	16676.6
47.5°	22721.7	22910.7	23601.8	24278.0	23950.2	20802.2	16655.9	15563.2	16171.6	16487.6	18596.1
50°	22789.6	23147.0	24097.9	25276.2	25754.6	23483.6	19160.2	17760.4	18407.1	18755.6	20645.6
52.5°	21658.6	22213.8	23687.4	25412.1	26729.2	25754.6	21750.1	19957.5	20787.4	21242.2	22771.9
55°	16605.7	17332.2	22142.9	24673.8	26767.6	27476.3	24272.1	22246.3	23439.3	23953.2	25069.5
57.5°	14467.6	14833.8	17409.0	23392.1	26055.9	28170.3	26552.0	24425.7	26324.6	26962.5	27240.1
60°	12037.1	12518.5	14600.5	21295.3	25090.2	28238.2	28566.1	27237.1	29452.0	30169.6	29230.5
62.5°	8180.3	8703.0	10773.2	17692.5	23770.1	28205.8	30216.9	30131.2	32927.9	33698.7	30916.8
65°	5067.6	5395.4	6759.8	14446.9	21924.4	28241.2	31944.5	33645.5	36595.7	37378.3	32222.1
67.5°	4004.5	4155.1	4866.8	11092.1	18743.8	27443.8	33669.1	36950.1	40048.0	40668.2	32620.8
70°	2690.3	2781.9	3540.9	7436.1	13944.9	23764.2	33636.7	38609.8	41825.8	42135.9	31167.8
72.5°	1417.5	1488.4	2070.2	3443.4	8422.5	16892.2	28353.4	36625.3	40056.9	39590.2	26640.6
75°	708.8	826.9	1393.9	1748.3	3597.0	9420.6	17606.8	28876.1	31528.1	29720.7	17093.0
77.5°	537.5	649.7	1151.7	1151.7	1252.1	3171.7	7456.8	15749.3	14526.7	12096.2	5017.4
80°	342.6	443.0	1007.0	871.2	522.7	806.2	1943.2	4412.0	3086.1	2347.8	912.5
82.5°	200.8	289.4	838.7	575.9	292.4	298.3	549.3	939.1	800.3	623.1	280.6
85°	79.7	189.0	575.9	227.4	115.2	73.8	165.4	200.8	165.4	124.0	70.9
87.5°	0.0	44.3	100.4	0.0	8.9	5.9	11.8	14.8	14.8	11.8	23.6
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°	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3	7294.3
2.5°	7326.8	7332.7	7350.4	7353.4	7312.1	7258.9	7238.2	7229.4	7193.9	7191.0	7196.9
5°	7415.4	7442.0	7415.4	7338.6	7155.5	6898.6	6703.7	6544.2	6399.5	6355.2	6328.7
7.5°	7592.6	7619.2	7539.5	7238.2	6777.5	6266.6	5805.9	5481.1	5188.7	5079.5	5035.2
10°	7846.6	7882.0	7631.0	7022.6	6207.6	5386.6	4607.0	4057.7	3629.5	3455.2	3381.4
12.5°	8165.5	8180.3	7681.2	6694.8	5466.3	4293.9	3189.4	2601.7	2220.8	2079.0	2034.7
15°	8517.0	8496.3	7687.1	6248.9	4456.3	3035.9	2082.0	1709.9	1556.3	1509.1	1509.1
17.5°	8886.1	8800.5	7569.0	5605.1	3348.9	2076.1	1544.5	1455.9	1429.3	1417.5	1414.6
20°	9249.3	9057.4	7353.4	4763.5	2403.9	1550.4	1402.8	1376.2	1361.4	1355.5	1349.6
22.5°	9580.1	9252.3	6984.3	3786.0	1745.3	1370.3	1326.0	1302.3	1275.8	1264.0	1261.0
25°	9902.0	9364.5	6464.5	2873.4	1396.9	1281.7	1246.2	1201.9	1166.5	1151.7	1145.8
27.5°	10215.0	9435.4	5814.8	2126.3	1246.2	1199.0	1134.0	1072.0	1045.4	1039.5	1033.6
30°	10548.7	9459.0	5076.5	1585.9	1154.7	1095.6	1001.1	930.2	915.5	918.4	918.4
32.5°	10956.3	9494.5	4332.3	1299.4	1077.9	971.6	859.4	785.5	773.7	785.5	782.6
35°	11443.5	9565.3	3614.7	1196.0	1010.0	844.6	723.5	661.5	649.7	658.6	655.6
37.5°	12105.1	9680.5	2944.3	1175.4	953.9	738.3	608.4	558.1	558.1	561.1	558.1
40°	12985.1	9987.6	2344.8	1160.6	924.3	658.6	513.9	493.2	502.0	507.9	507.9
42.5°	14057.1	10640.3	1940.2	1142.9	891.9	623.1	466.6	457.7	472.5	478.4	478.4
45°	15259.0	11467.2	1798.5	1113.3	862.3	646.7	445.9	434.1	451.8	454.8	457.7
47.5°	16502.3	12276.3	1780.8	1080.9	832.8	682.2	440.0	413.4	434.1	437.1	440.0
50°	17760.4	12805.0	1798.5	1030.7	785.5	682.2	443.0	392.8	410.5	419.4	422.3
52.5°	19027.3	13047.1	1786.7	921.4	702.9	640.8	443.0	375.1	392.8	398.7	398.7
55°	20255.8	12999.9	1606.5	759.0	596.5	567.0	431.2	360.3	372.1	375.1	375.1
57.5°	21227.4	12341.3	1272.8	590.6	484.3	472.5	392.8	342.6	351.4	348.5	348.5
60°	21735.4	10894.3	909.6	454.8	381.0	372.1	345.5	318.9	324.8	310.1	307.1
62.5°	21741.3	8980.6	608.4	360.3	304.2	295.3	295.3	286.5	280.6	251.0	242.2
65°	21277.6	6857.3	404.6	286.5	245.1	230.3	248.1	245.1	224.4	183.1	177.2
67.5°	20226.3	4494.7	307.1	224.4	189.0	180.1	197.9	206.7	192.0	153.6	150.6
70°	18064.6	2616.5	254.0	174.2	141.8	132.9	159.5	177.2	159.5	124.0	118.1
72.5°	15005.1	1411.6	206.7	129.9	97.5	88.6	127.0	144.7	127.0	91.5	88.6
75°	9736.6	756.0	159.5	85.6	50.2	56.1	94.5	106.3	88.6	59.1	53.2
77.5°	3269.2	333.7	100.4	41.3	23.6	23.6	56.1	65.0	41.3	20.7	17.7
80°	729.4	138.8	41.3	17.7	8.9	8.9	11.8	11.8	5.9	0.0	0.0
82.5°	239.2	56.1	17.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	91.5	20.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.4	3.0	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)