

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: P950949

Luminaire Tested: **GALN-SB5B-730-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-730-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27800 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 182.7
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

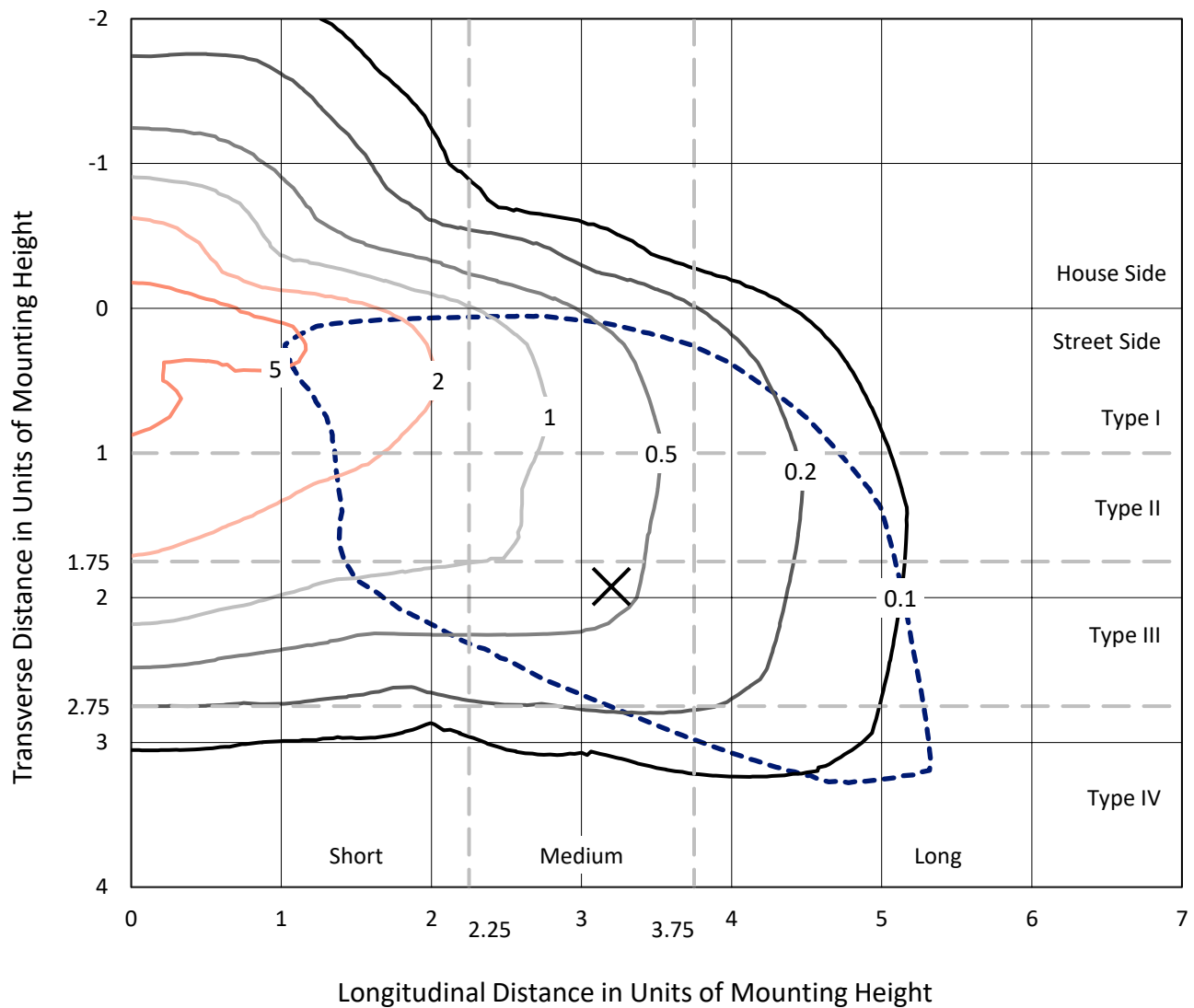


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Iso-Footcandle Lines of Horizontal Illumination

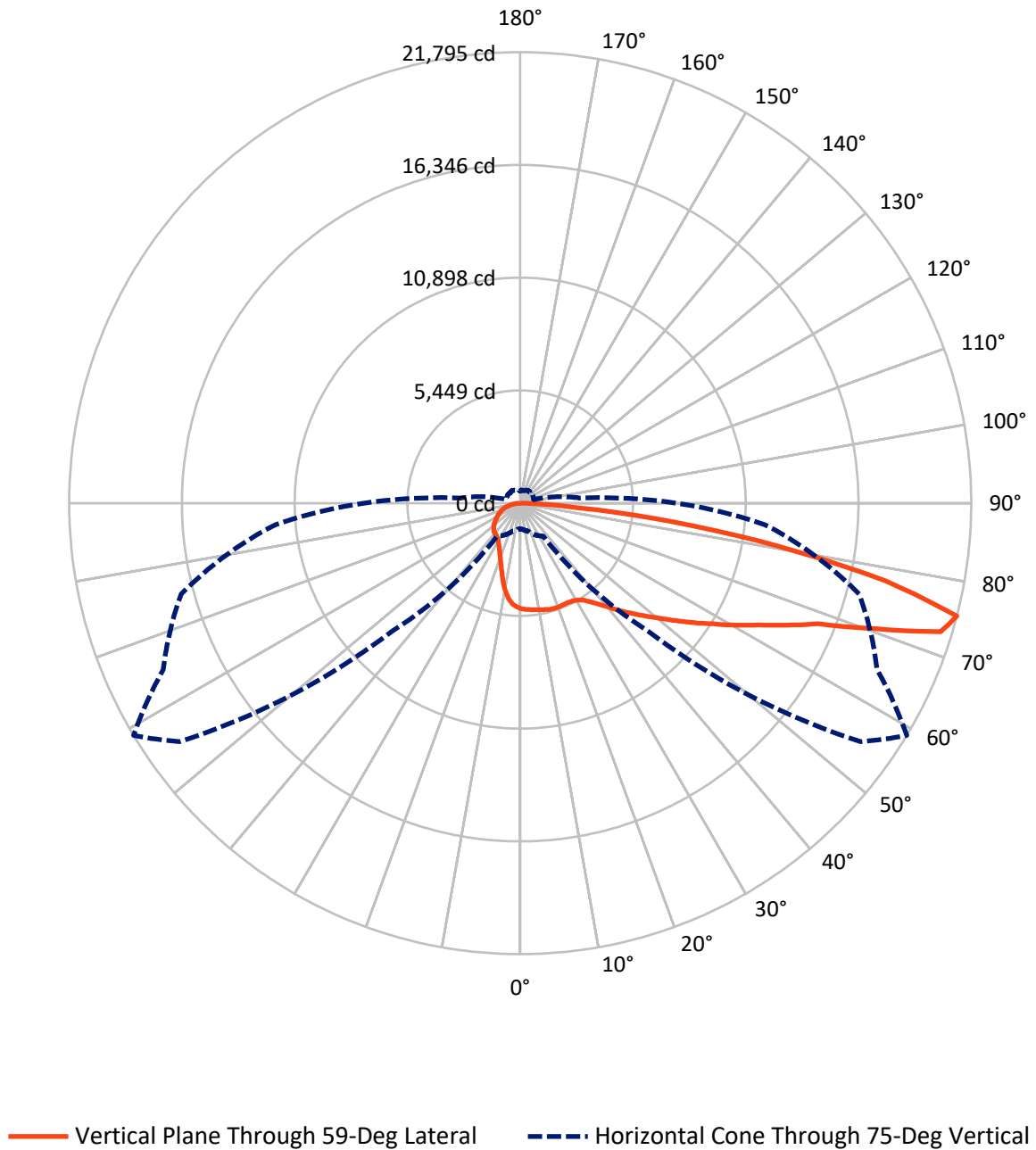
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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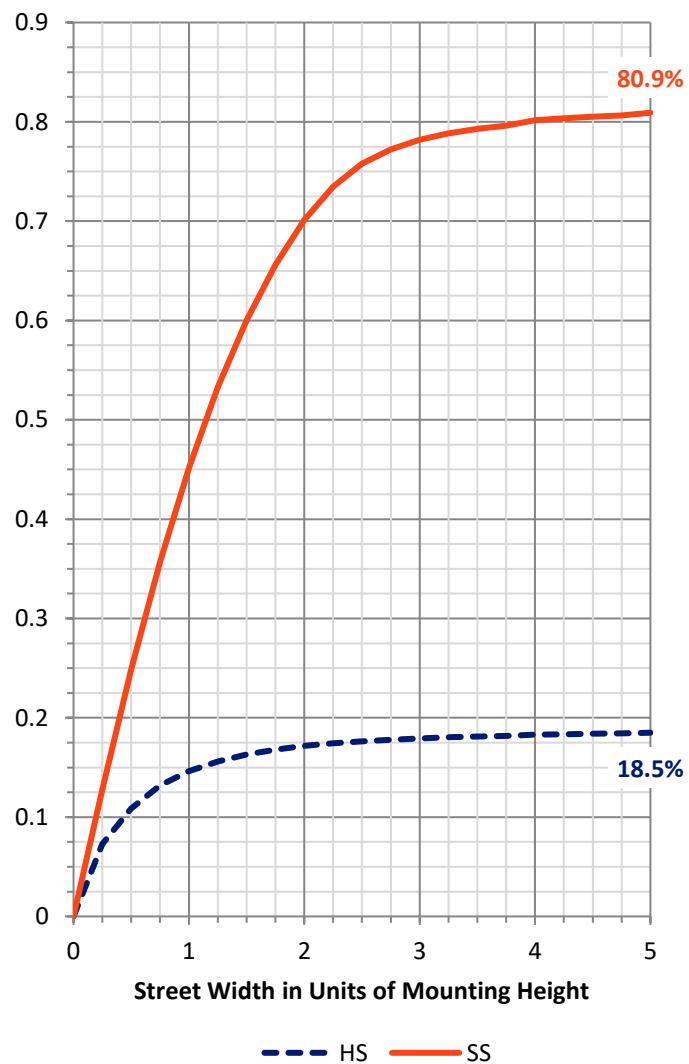
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5214.1	0.0	5214.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22585.9	0.0	22585.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	27800.0	0.0	27800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.5	1.6
10°-20°	1169.5	4.2
20°-30°	1776.4	6.4
30°-40°	2640.5	9.5
40°-50°	3926.9	14.1
50°-60°	5330.3	19.2
60°-70°	6507.4	23.4
70°-80°	5106.9	18.4
80°-90°	884.6	3.2
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°	27800.0	100.0
0°-180°	27800.0	100.0

Coefficient of Utilization



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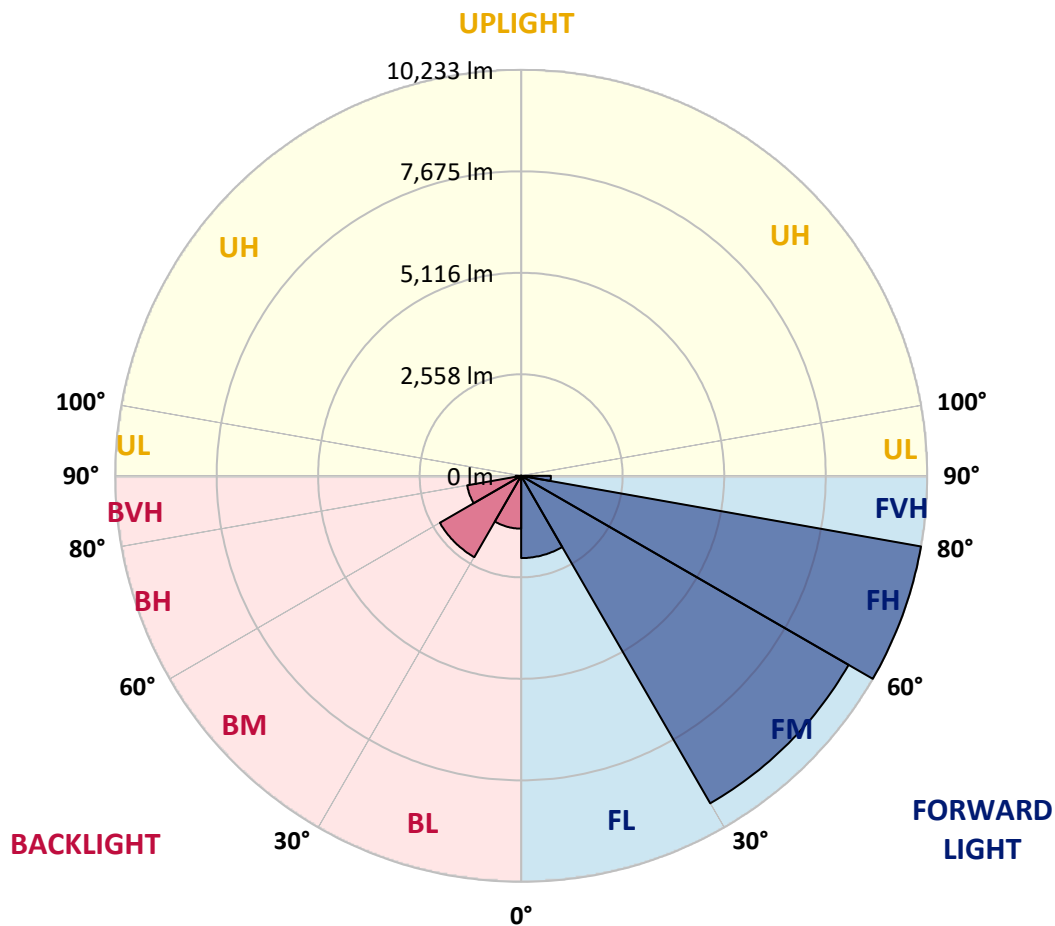
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2072.8	7.5			
FM	(30°-60°)	9531.0	34.3			
FH	(60°-80°)	10232.9	36.8			G4/12000
FVH	(80°-90°)	749.2	2.7			G4/750
BL	(0°-30°)	1330.6	4.8	B3/2500		
BM	(30°-60°)	2366.7	8.5	B2/2500		
BH	(60°-80°)	1381.4	5.0	B3/2500		G3/2500
BVH	(80°-90°)	135.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6
2.5°	5146.0	5128.1	5146.0	5138.5	5135.5	5129.5	5131.0	5141.5	5135.5	5143.0	5117.6
5°	5111.6	5101.1	5119.1	5114.6	5134.0	5137.0	5156.5	5168.4	5175.9	5177.4	5158.0
7.5°	5054.8	5044.3	5069.7	5090.7	5132.5	5144.5	5184.9	5204.3	5214.8	5232.7	5204.3
10°	4846.9	4842.4	4905.2	4984.5	5083.2	5144.5	5205.8	5238.7	5255.2	5303.0	5270.1
12.5°	4479.0	4485.0	4567.2	4719.8	4917.2	5114.6	5229.7	5277.6	5303.0	5362.8	5347.9
15°	4127.6	4126.1	4215.8	4378.8	4655.5	4983.0	5241.7	5324.0	5367.3	5455.6	5443.6
17.5°	3924.2	3918.2	3981.0	4105.1	4362.4	4781.1	5211.8	5349.4	5442.1	5552.8	5542.3
20°	3886.8	3874.8	3907.7	3969.0	4151.5	4559.8	5134.0	5349.4	5501.9	5645.5	5639.5
22.5°	4022.9	4003.4	3990.0	3982.5	4063.3	4377.3	5045.8	5331.4	5590.2	5778.6	5768.1
25°	4296.6	4266.6	4197.9	4130.6	4106.6	4295.1	4968.0	5327.0	5721.8	5958.1	5919.2
27.5°	4739.2	4701.8	4562.8	4401.2	4256.2	4336.9	4933.6	5353.9	5866.8	6148.0	6070.2
30°	5288.1	5247.7	5072.7	4824.5	4564.2	4492.5	4977.0	5433.1	6052.3	6400.7	6248.2
32.5°	5780.1	5735.2	5585.7	5332.9	4981.5	4761.7	5114.6	5584.2	6343.9	6752.2	6515.9
35°	6216.8	6164.4	6029.8	5796.5	5493.0	5140.0	5362.8	5851.9	6758.1	7323.4	6879.3
37.5°	6644.5	6583.2	6436.6	6189.9	5977.5	5644.0	5705.3	6195.8	7308.5	8017.3	7360.8
40°	7123.0	7034.8	6856.8	6613.1	6406.7	6234.7	6155.5	6617.6	7867.8	8792.0	7962.0
42.5°	7586.6	7502.9	7290.5	7082.7	6823.9	6774.6	6677.4	7111.1	8479.5	9643.0	8572.2
45°	8086.1	7985.9	7728.7	7465.5	7302.5	7133.5	7182.9	7604.6	9079.1	10510.3	9212.2
47.5°	8554.2	8442.1	8138.5	7845.4	7755.6	7435.6	7646.5	8147.5	9702.8	11389.7	9846.3
50°	8807.0	8696.3	8443.6	8178.9	8108.6	7808.0	8149.0	8744.2	10356.3	12266.0	10455.0
52.5°	9017.8	8898.2	8567.7	8421.1	8400.2	8213.3	8768.1	9426.1	11009.8	13040.7	11042.7
55°	9242.2	9109.1	8687.3	8555.7	8651.4	8667.9	9502.4	10199.3	11700.8	13795.9	11597.6
57.5°	9500.9	9331.9	8802.5	8669.4	8896.7	9200.3	10345.8	11000.9	12379.7	14495.8	12091.1
60°	9744.6	9574.2	9023.8	8850.3	9161.4	9817.9	11313.4	11971.4	13148.4	15119.5	12557.7
62.5°	9792.5	9651.9	9200.3	9198.8	9520.3	10538.8	12459.0	12951.0	13819.9	15735.6	12976.4
65°	8964.0	8875.8	8608.1	9185.3	10034.8	11576.6	13734.6	14204.2	14673.8	16274.0	13344.3
67.5°	6822.4	6834.4	6815.0	7929.1	9619.0	13067.6	15581.6	15545.7	15728.1	16878.2	13767.5
70°	3119.6	3189.9	3647.5	5473.5	7706.3	13239.6	18635.4	18170.3	17051.6	17660.3	14133.9
72.5°	1685.4	1739.3	1926.2	2651.5	4633.0	11771.0	20917.5	21248.0	18811.8	18186.7	13731.6
75°	1236.8	1266.7	1396.8	1685.4	1945.6	8748.6	20099.4	21795.3	19031.7	16958.9	11857.8
77.5°	925.7	939.2	1045.4	1335.5	996.0	4612.1	16060.1	18050.6	16291.9	13933.5	8759.1
80°	671.5	686.4	765.7	1002.0	698.4	1686.9	11027.8	12669.8	11157.9	8881.7	4365.3
82.5°	463.6	469.6	504.0	681.9	487.5	655.0	6257.1	7429.6	6228.7	3116.6	1178.4
85°	279.7	287.1	302.1	397.8	276.7	311.1	2700.9	2793.6	1861.9	744.8	366.4
87.5°	115.2	122.6	134.6	167.5	109.2	86.7	445.7	559.3	348.5	218.3	113.7
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°	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6	5102.6
2.5°	5110.1	5099.6	5071.2	5032.3	4996.4	4951.6	4932.1	4915.7	4900.7	4872.3	4858.9
5°	5141.5	5113.1	5036.8	4938.1	4826.0	4703.3	4583.7	4501.4	4431.2	4378.8	4335.4
7.5°	5189.4	5135.5	4996.4	4794.6	4537.3	4274.1	4036.3	3867.3	3740.2	3693.9	3613.1
10°	5238.7	5174.4	4932.1	4576.2	4132.1	3726.8	3411.2	3237.7	3136.1	3103.2	3052.3
12.5°	5297.0	5202.8	4831.9	4272.6	3678.9	3234.8	2959.6	2857.9	2805.5	2787.6	2792.1
15°	5382.3	5226.8	4680.9	3892.8	3246.7	2875.8	2697.9	2627.6	2600.7	2599.2	2605.2
17.5°	5446.6	5231.2	4446.1	3486.0	2914.7	2659.0	2512.4	2485.5	2503.5	2530.4	2540.8
20°	5518.4	5190.9	4138.0	3115.1	2681.4	2469.1	2407.7	2425.7	2469.1	2507.9	2521.4
22.5°	5569.2	5117.6	3765.7	2826.5	2479.5	2359.9	2356.9	2394.3	2418.2	2437.7	2448.1
25°	5614.1	4993.5	3370.8	2584.2	2313.5	2294.1	2327.0	2315.0	2298.6	2315.0	2325.5
27.5°	5647.0	4797.5	3017.9	2371.9	2196.9	2249.2	2229.8	2202.9	2201.4	2210.3	2225.3
30°	5636.5	4535.8	2727.8	2170.0	2114.6	2165.5	2119.1	2114.6	2110.1	2114.6	2131.1
32.5°	5636.5	4238.2	2505.0	2030.9	2062.3	2042.8	2038.4	2027.9	2009.9	2008.4	2027.9
35°	5667.9	3940.6	2313.5	1956.1	2018.9	1972.6	1975.5	1950.1	1912.7	1894.8	1912.7
37.5°	5732.2	3701.3	2123.6	1920.2	1942.6	1941.2	1929.2	1885.8	1820.0	1763.2	1782.6
40°	5887.8	3631.1	1993.5	1903.8	1906.8	1924.7	1893.3	1809.5	1660.0	1567.3	1579.2
42.5°	6131.5	3749.2	1965.1	1863.4	1882.8	1900.8	1839.5	1645.0	1538.9	1483.5	1483.5
45°	6441.1	3955.6	2026.4	1805.1	1826.0	1857.4	1675.0	1582.2	1534.4	1535.9	1543.4
47.5°	6832.9	4172.4	2140.1	1754.2	1743.7	1761.7	1565.8	1509.0	1443.2	1459.6	1501.5
50°	7286.1	4392.3	2247.7	1685.4	1652.5	1594.2	1495.5	1441.7	1357.9	1319.0	1329.5
52.5°	7776.6	4604.6	2291.1	1601.7	1553.8	1486.5	1447.6	1381.8	1280.1	1215.8	1214.3
55°	8241.7	4797.5	2243.2	1501.5	1455.1	1402.8	1396.8	1356.4	1247.2	1157.5	1157.5
57.5°	8681.3	4959.1	2123.6	1399.8	1354.9	1323.5	1363.9	1344.4	1206.9	1091.7	1085.7
60°	9053.7	5069.7	1950.1	1296.6	1265.2	1248.7	1310.1	1304.1	1150.0	1021.4	1016.9
62.5°	9349.8	5113.1	1758.7	1197.9	1190.4	1160.5	1235.3	1235.3	1078.3	952.6	948.1
65°	9581.6	5071.2	1564.3	1100.7	1115.6	1070.8	1144.1	1135.1	1002.0	891.3	885.3
67.5°	9786.5	4933.6	1348.9	1005.0	1039.4	982.5	1048.3	1027.4	918.2	830.0	824.0
70°	9877.7	4613.6	1103.7	909.3	951.1	895.8	952.6	913.7	824.0	764.2	752.2
72.5°	9145.0	3834.4	868.9	809.1	845.0	800.1	849.4	804.6	722.3	695.4	673.0
75°	7565.7	2877.3	668.5	699.9	726.8	692.4	725.3	692.4	617.6	637.1	581.7
77.5°	5494.4	1942.6	511.5	584.7	596.7	578.8	607.2	569.8	502.5	498.0	475.6
80°	2732.3	1138.1	400.8	462.1	457.6	445.7	478.6	460.6	403.8	427.7	423.2
82.5°	791.1	487.5	291.6	324.5	315.5	318.5	342.5	351.4	526.4	521.9	533.9
85°	248.3	191.4	175.0	181.0	172.0	176.5	201.9	400.8	370.9	216.8	234.8
87.5°	64.3	65.8	43.4	46.4	47.9	56.8	64.3	243.8	116.6	76.3	80.8
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)