

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: P952366

Luminaire Tested: **GALN-SB6B-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32515 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 220.4
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

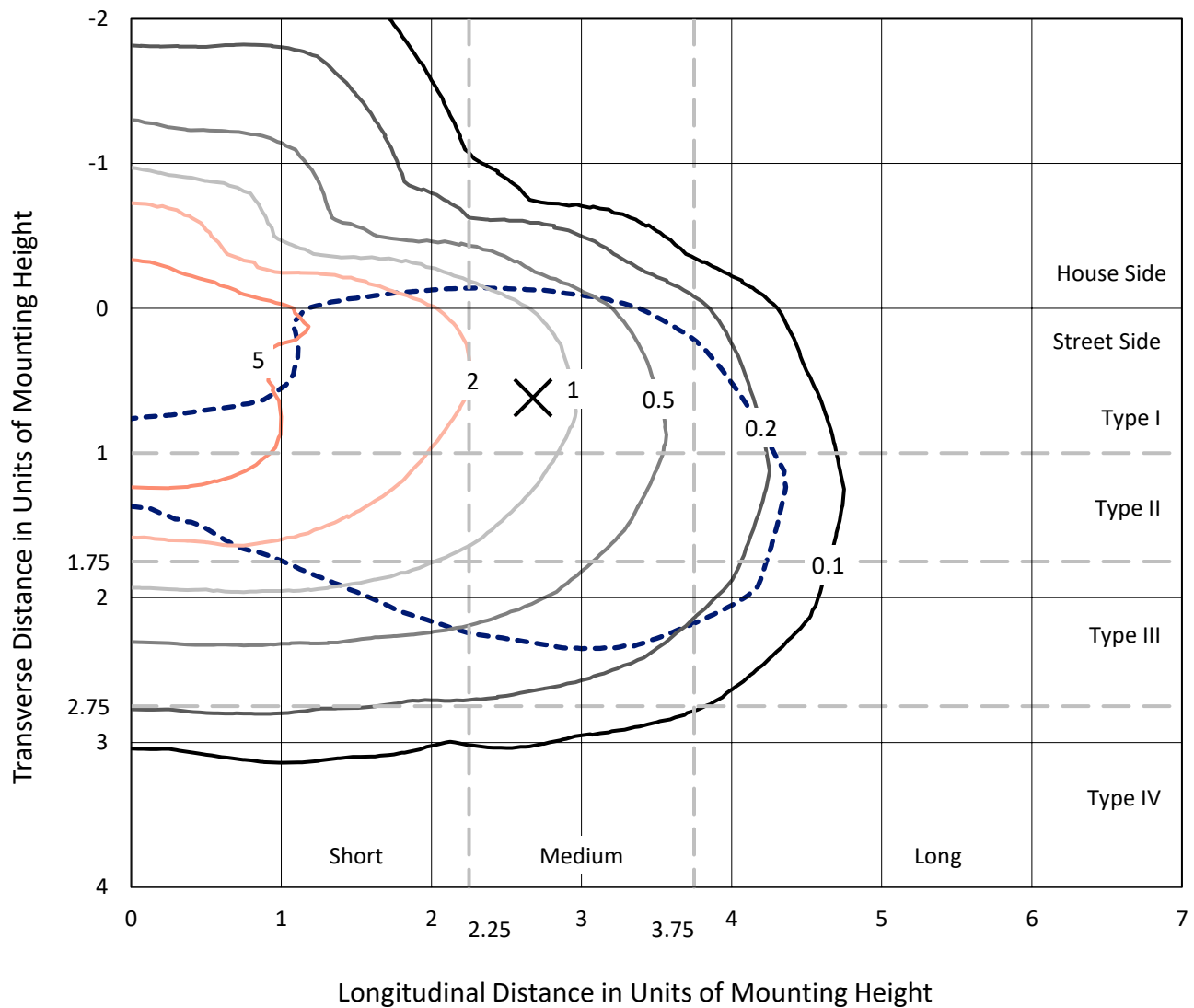


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Iso-Footcandle Lines of Horizontal Illumination

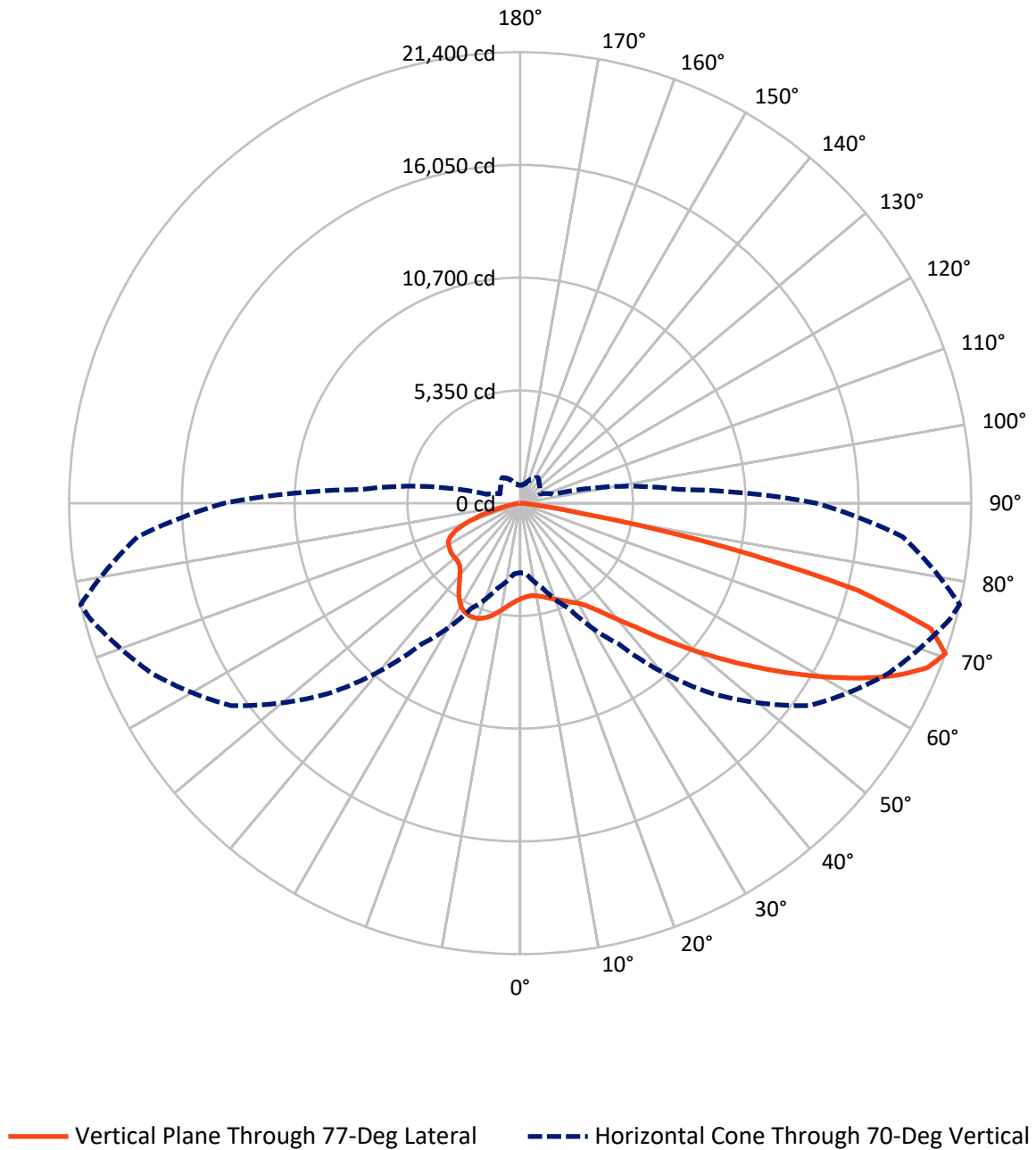
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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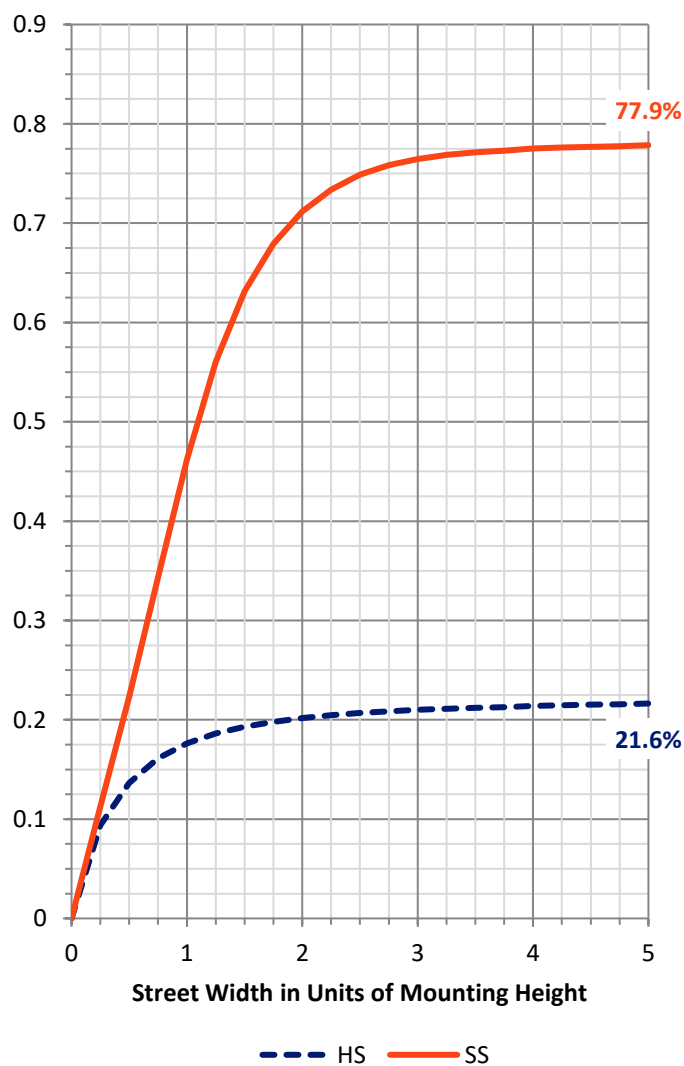
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7120.3	0.0	7120.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	25394.7	0.0	25394.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	32515.0	0.0	32515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.6	1.3
10°-20°	1248.6	3.8
20°-30°	2135.3	6.6
30°-40°	3433.7	10.6
40°-50°	5361.0	16.5
50°-60°	7161.0	22.0
60°-70°	7632.5	23.5
70°-80°	4698.5	14.5
80°-90°	411.7	1.3
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°	32515.0	100.0
0°-180°	32515.0	100.0

Coefficient of Utilization



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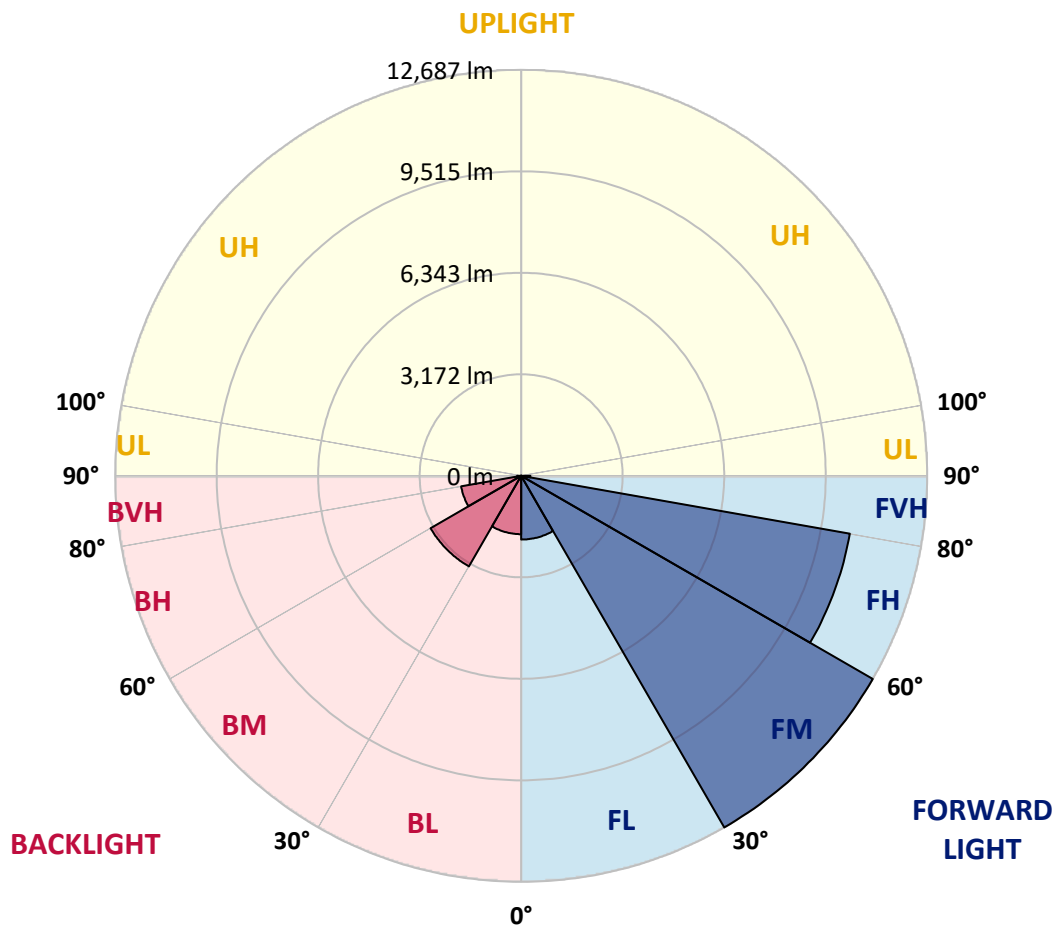
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1992.1	6.1			
FM	(30°-60°)	12686.7	39.0			
FH	(60°-80°)	10428.1	32.1			G4/12000
FVH	(80°-90°)	287.9	0.9			G3/500
BL	(0°-30°)	1824.4	5.6	B3/2500		
BM	(30°-60°)	3269.1	10.1	B3/5000		
BH	(60°-80°)	1902.9	5.9	B3/2500		G3/2500
BVH	(80°-90°)	123.8	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1
2.5°	4181.4	4179.8	4201.4	4208.1	4248.1	4276.4	4329.6	4386.3	4459.5	4467.9	4512.8
5°	3940.0	3940.0	3965.0	3991.6	4043.2	4099.8	4181.4	4279.7	4406.2	4426.2	4537.8
7.5°	3735.2	3748.5	3770.1	3821.7	3881.7	3963.3	4088.2	4228.1	4394.6	4426.2	4606.1
10°	3570.3	3585.3	3611.9	3653.6	3743.5	3856.7	4019.9	4199.8	4422.9	4472.9	4706.0
12.5°	3518.7	3533.7	3548.6	3580.3	3663.5	3796.8	3991.6	4213.1	4491.2	4541.1	4842.5
15°	3638.6	3656.9	3645.2	3636.9	3680.2	3801.8	4004.9	4261.4	4576.1	4647.7	5010.7
17.5°	3915.0	3921.7	3895.0	3816.8	3810.1	3875.0	4068.2	4328.0	4682.7	4760.9	5180.6
20°	4361.3	4349.6	4294.7	4139.8	4051.6	4038.2	4176.4	4427.9	4792.6	4875.8	5363.8
22.5°	4967.4	4954.1	4844.2	4599.4	4402.9	4273.0	4333.0	4557.8	4915.8	5009.1	5541.9
25°	5723.5	5705.1	5543.6	5210.6	4905.8	4584.4	4546.1	4729.3	5067.4	5153.9	5728.5
27.5°	6606.0	6591.1	6416.2	5976.6	5537.0	5010.7	4810.9	4930.8	5225.6	5323.8	5938.3
30°	7555.2	7598.5	7288.8	6815.9	6259.7	5566.9	5167.3	5178.9	5430.4	5518.6	6193.1
32.5°	8671.0	8745.9	8372.9	7773.4	7014.0	6171.4	5616.9	5525.3	5728.5	5801.7	6514.5
35°	9776.7	9861.6	9551.9	8889.1	8014.8	6884.1	6086.5	5923.3	6124.8	6204.7	6940.8
37.5°	10732.5	10845.8	10685.9	10109.7	9085.6	7743.4	6699.3	6391.2	6612.7	6712.6	7513.6
40°	11486.9	11660.1	11648.4	11288.7	10347.9	8785.9	7477.0	6969.1	7218.9	7327.1	8208.0
42.5°	12099.7	12249.6	12379.5	12361.1	11665.1	9969.8	8391.2	7720.1	7909.9	8034.8	8989.0
45°	12522.7	12682.5	12962.3	13263.7	12932.3	11237.1	9438.6	8611.0	8784.2	8972.4	9919.9
47.5°	12900.7	13082.2	13445.2	13923.1	14008.1	12509.4	10586.0	9648.5	9806.7	10001.5	10854.1
50°	12934.0	13090.5	13653.4	14331.1	14772.4	13731.6	11818.3	10812.5	10960.7	11168.8	11854.9
52.5°	12129.7	12376.1	13358.6	14319.5	15123.8	14754.1	13042.2	12023.1	12189.6	12439.4	12890.7
55°	9415.3	9776.7	12494.4	13873.2	14998.9	15415.2	14206.2	13310.3	13523.5	13784.9	13933.1
57.5°	8109.8	8268.0	9918.2	13060.6	14429.4	15586.7	15188.7	14610.9	14953.9	15240.4	15035.5
60°	7288.8	7420.4	8396.2	11796.6	13680.0	15315.3	15948.1	15823.2	16416.0	16757.4	16162.9
62.5°	6409.5	6534.4	7422.0	9849.9	12720.8	14864.0	16427.7	16942.2	17914.8	18287.8	17225.3
65°	5537.0	5643.5	6494.5	8276.3	11501.9	14412.7	16675.8	17909.8	19301.9	19688.2	18107.9
67.5°	4564.4	4652.7	5457.0	6982.4	10019.8	13794.9	16799.0	18670.8	20509.2	20840.6	18544.2
70°	3293.9	3362.1	4193.1	5522.0	8159.7	12732.5	16749.1	19210.3	21135.3	21400.1	18214.5
72.5°	1557.0	1618.6	2594.5	3585.3	5763.4	10664.3	15738.3	18782.3	20499.2	20367.7	16196.2
75°	831.0	884.2	1490.4	1966.7	3044.1	7310.4	12879.0	16179.6	17213.7	16574.2	11969.8
77.5°	562.9	604.5	922.5	1180.7	1390.5	3470.4	8278.0	11202.1	10777.5	9721.7	5994.9
80°	446.3	489.6	756.0	799.3	672.8	1253.9	3420.4	5185.6	3725.2	2979.1	1705.2
82.5°	343.0	391.3	636.1	579.5	366.4	514.6	995.8	1640.3	954.2	726.0	413.0
85°	209.8	261.4	499.6	369.7	206.5	234.8	338.0	456.3	291.4	243.1	148.2
87.5°	106.6	149.9	253.1	134.9	93.3	55.0	89.9	89.9	76.6	66.6	38.3
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°	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1	4536.1
2.5°	4552.8	4586.1	4642.7	4696.0	4737.6	4777.6	4817.6	4839.2	4845.9	4872.5	4887.5
5°	4606.1	4667.7	4777.6	4880.8	4945.8	4985.8	5014.1	5030.7	5034.0	5042.4	5055.7
7.5°	4704.3	4802.6	4955.8	5059.0	5107.3	5104.0	5092.3	5050.7	5034.0	5019.1	5022.4
10°	4842.5	4972.4	5160.6	5232.2	5202.2	5122.3	5019.1	4897.5	4840.9	4785.9	4769.3
12.5°	5014.1	5178.9	5363.8	5360.4	5212.2	5007.4	4767.6	4581.1	4462.9	4377.9	4358.0
15°	5222.2	5412.1	5553.6	5440.4	5115.6	4747.6	4396.3	4153.1	4046.6	3953.3	3943.3
17.5°	5437.0	5640.2	5705.1	5415.4	4872.5	4363.0	3965.0	3773.5	3668.5	3618.6	3633.6
20°	5646.9	5848.4	5795.1	5272.2	4502.8	3926.7	3572.0	3467.0	3445.4	3457.1	3452.1
22.5°	5868.3	6048.2	5813.4	4995.7	4031.6	3480.4	3285.5	3288.9	3337.2	3372.1	3380.5
25°	6094.8	6216.4	5765.1	4596.1	3525.3	3152.3	3104.0	3157.3	3252.2	3320.5	3338.8
27.5°	6313.0	6366.2	5660.2	4101.5	3090.7	2917.5	2925.8	3035.7	3179.0	3273.9	3297.2
30°	6559.4	6499.5	5458.7	3545.3	2789.3	2716.0	2786.0	2914.2	3057.4	3142.3	3162.3
32.5°	6837.5	6614.4	5139.0	3030.8	2576.1	2554.5	2669.4	2752.7	2815.9	2840.9	2854.2
35°	7183.9	6775.9	4729.3	2669.4	2384.6	2436.3	2546.2	2504.5	2479.6	2466.2	2479.6
37.5°	7633.5	6994.0	4249.7	2434.6	2229.8	2351.3	2396.3	2266.4	2168.2	2119.9	2131.5
40°	8174.7	7313.8	3788.4	2253.1	2131.5	2278.1	2199.8	2043.3	1918.4	1850.1	1855.1
42.5°	8775.9	7648.5	3400.4	2116.5	2076.6	2218.1	2054.9	1868.4	1666.9	1645.3	1666.9
45°	9407.0	7993.2	3135.7	2011.6	2049.9	2166.5	1971.7	1670.2	1527.0	1615.3	1661.9
47.5°	10038.1	8309.6	2975.8	1933.4	2036.6	2108.2	1898.4	1560.3	1458.8	1587.0	1646.9
50°	10740.9	8592.7	2904.2	1876.7	2021.6	2084.9	1788.5	1532.0	1387.2	1472.1	1535.4
52.5°	11438.6	8812.5	2850.9	1820.1	2000.0	2066.6	1735.2	1498.7	1300.6	1305.6	1340.5
55°	12134.7	8955.7	2792.6	1745.2	1951.7	2026.6	1730.2	1462.1	1235.6	1212.3	1229.0
57.5°	12877.4	9037.3	2721.0	1661.9	1868.4	1925.0	1725.2	1433.8	1215.6	1177.3	1182.3
60°	13633.4	9157.2	2627.8	1560.3	1756.8	1803.5	1713.5	1423.8	1204.0	1139.0	1144.0
62.5°	14311.2	9198.8	2516.2	1463.8	1613.6	1683.6	1688.6	1415.5	1172.3	1060.8	1060.8
65°	14755.8	9019.0	2321.4	1353.8	1458.8	1560.3	1640.3	1387.2	1115.7	1004.1	1004.1
67.5°	14737.5	8506.1	2016.6	1212.3	1308.9	1423.8	1570.3	1338.9	1047.4	934.2	939.2
70°	14051.4	7493.6	1630.3	1047.4	1144.0	1277.2	1480.4	1267.3	965.8	857.6	867.6
72.5°	12051.4	5865.0	1184.0	854.3	952.5	1125.7	1363.8	1180.7	882.6	789.3	784.3
75°	8609.3	3711.8	802.7	656.1	741.0	954.2	1219.0	1079.1	806.0	792.7	747.7
77.5°	4397.9	1773.5	531.2	479.6	516.2	752.7	1024.1	964.2	817.6	654.4	582.8
80°	1430.4	654.4	334.7	326.4	343.0	501.2	792.7	791.0	619.5	444.6	393.0
82.5°	456.3	281.4	218.1	209.8	201.5	314.7	552.9	626.1	418.0	281.4	279.8
85°	181.5	168.2	128.2	118.2	84.9	148.2	289.8	416.3	311.4	203.2	208.2
87.5°	66.6	66.6	35.0	25.0	18.3	50.0	78.3	124.9	178.2	104.9	103.2
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)