

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: P948807

Luminaire Tested: **GALN-SB3D-730-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948807
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-SB3D-730-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29840 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 218.1
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

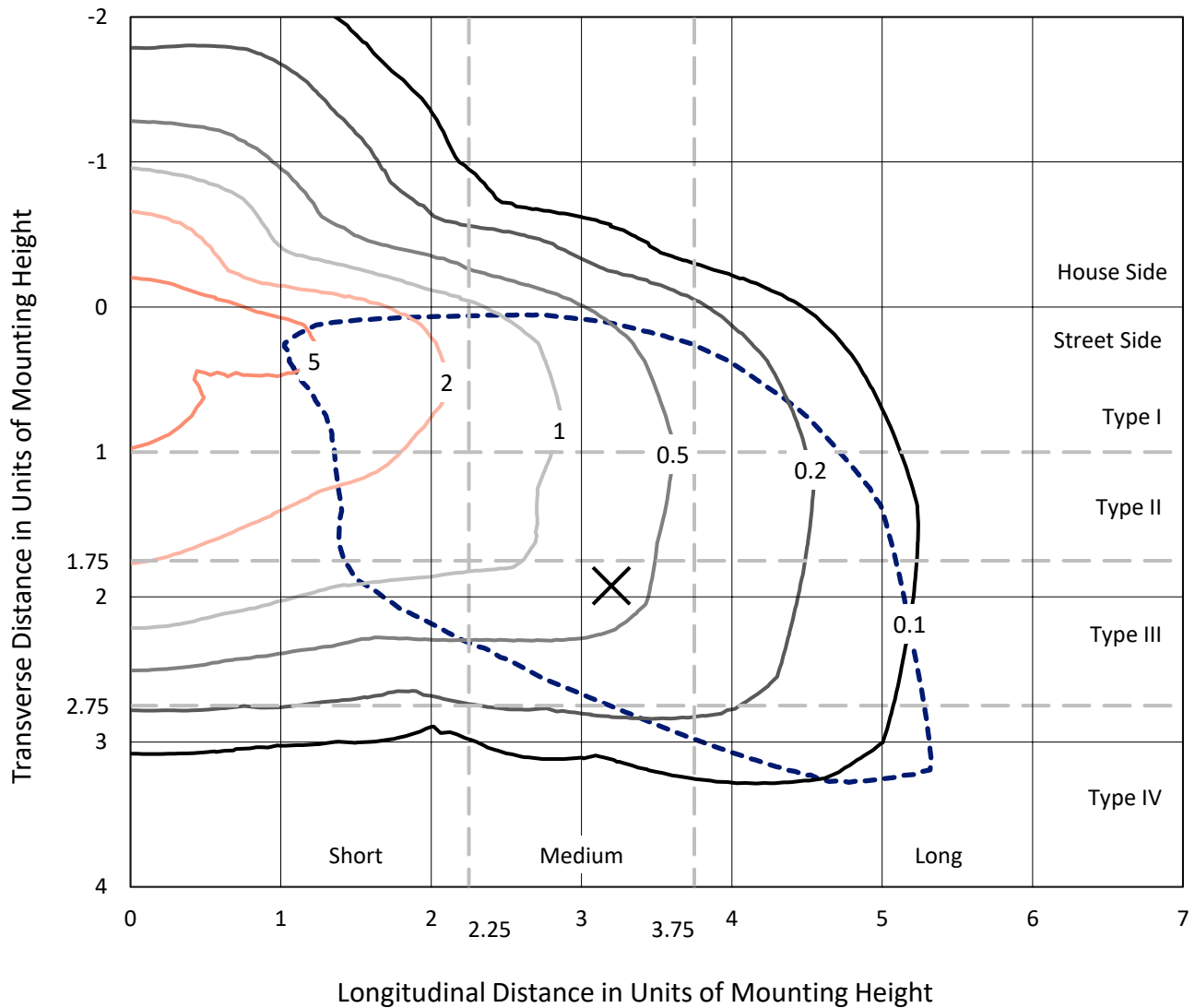


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

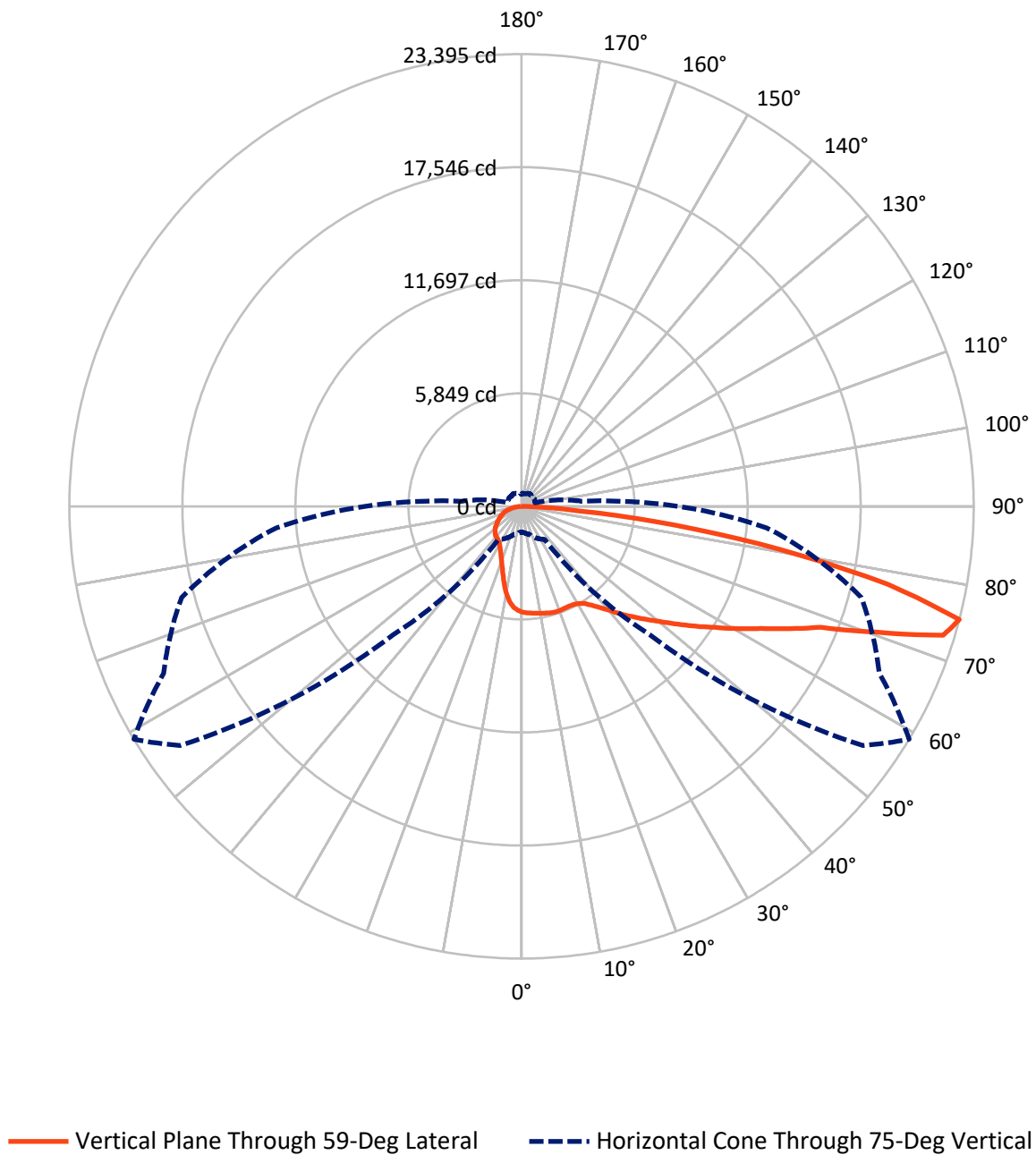


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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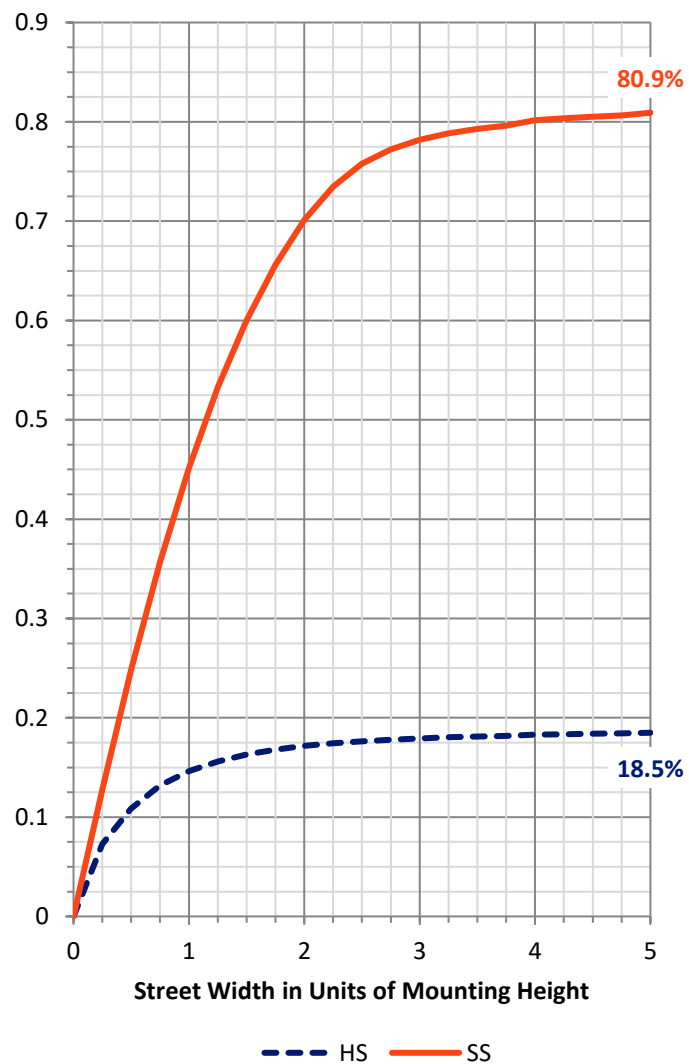
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5596.7	0.0	5596.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24243.3	0.0	24243.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	29840.0	0.0	29840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.1	1.6
10°-20°	1255.3	4.2
20°-30°	1906.7	6.4
30°-40°	2834.3	9.5
40°-50°	4215.1	14.1
50°-60°	5721.4	19.2
60°-70°	6984.9	23.4
70°-80°	5481.7	18.4
80°-90°	949.6	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°	29840.0	100.0
0°-180°	29840.0	100.0

Coefficient of Utilization



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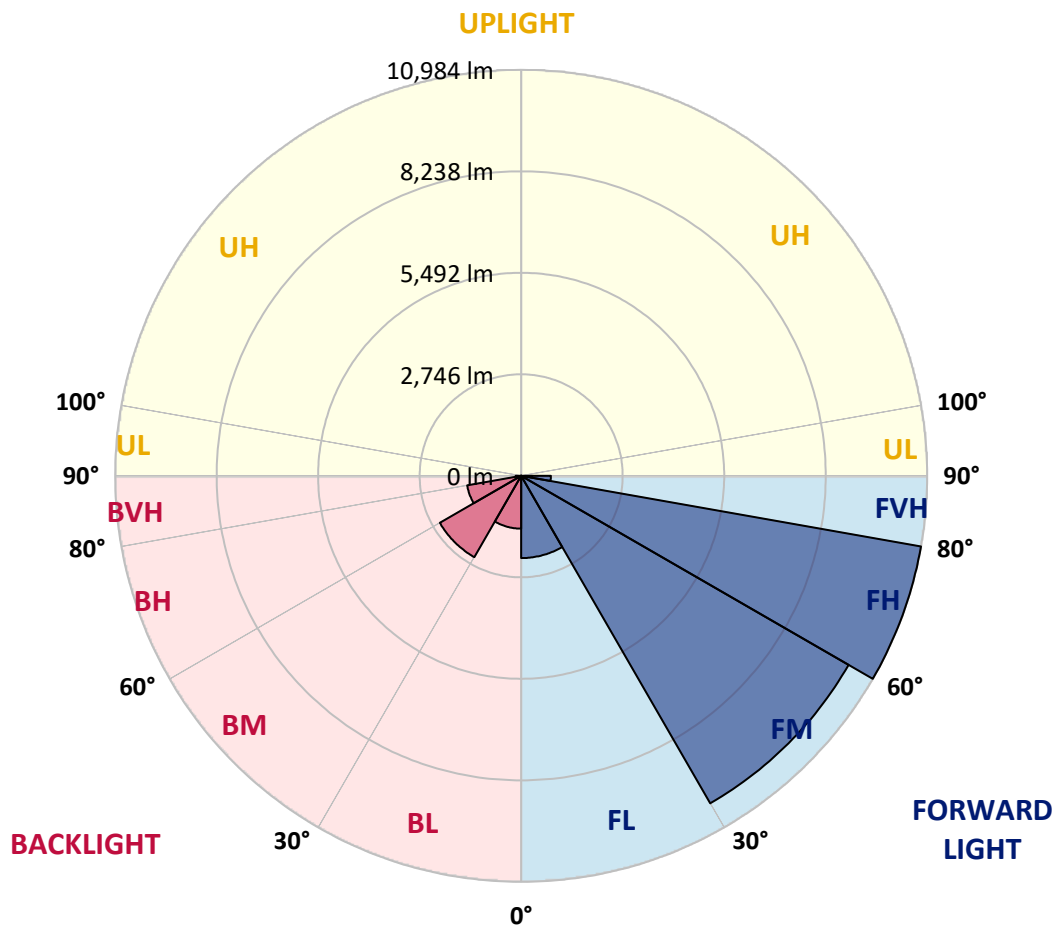
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2224.9	7.5			
FM	(30°-60°)	10230.4	34.3			
FH	(60°-80°)	10983.8	36.8			G4/12000
FVH	(80°-90°)	804.2	2.7			G5
BL	(0°-30°)	1428.2	4.8	B3/2500		
BM	(30°-60°)	2540.3	8.5	B3/5000		
BH	(60°-80°)	1482.8	5.0	B3/2500		G3/2500
BVH	(80°-90°)	145.4	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1
2.5°	5523.6	5504.4	5523.6	5515.6	5512.4	5506.0	5507.6	5518.8	5512.4	5520.4	5493.1
5°	5486.7	5475.5	5494.7	5489.9	5510.8	5514.0	5534.9	5547.7	5555.7	5557.3	5536.5
7.5°	5425.7	5414.5	5441.8	5464.2	5509.2	5522.0	5565.4	5586.2	5597.5	5616.7	5586.2
10°	5202.6	5197.8	5265.2	5350.3	5456.2	5522.0	5587.8	5623.1	5640.8	5692.2	5656.9
12.5°	4807.7	4814.1	4902.4	5066.1	5278.0	5489.9	5613.5	5664.9	5692.2	5756.4	5740.3
15°	4430.5	4428.8	4525.2	4700.1	4997.1	5348.6	5626.4	5714.6	5761.2	5855.9	5843.1
17.5°	4212.1	4205.7	4273.1	4406.4	4682.5	5131.9	5594.2	5741.9	5841.5	5960.2	5949.0
20°	4172.0	4159.2	4194.5	4260.3	4456.1	4894.4	5510.8	5741.9	5905.7	6059.8	6053.3
22.5°	4318.1	4297.2	4282.8	4274.7	4361.4	4698.5	5416.1	5722.7	6000.4	6202.6	6191.4
25°	4611.8	4579.7	4505.9	4433.7	4408.0	4610.2	5332.6	5717.9	6141.6	6395.3	6353.5
27.5°	5087.0	5046.9	4897.6	4724.2	4568.5	4655.2	5295.7	5746.7	6297.3	6599.1	6515.7
30°	5676.1	5632.8	5445.0	5178.5	4899.2	4822.1	5342.2	5831.8	6496.4	6870.4	6706.7
32.5°	6204.2	6156.1	5995.6	5724.3	5347.0	5111.1	5489.9	5994.0	6809.4	7247.6	6994.0
35°	6673.0	6616.8	6472.3	6221.9	5896.0	5517.2	5756.4	6281.3	7254.1	7860.8	7384.1
37.5°	7132.1	7066.2	6908.9	6644.1	6416.1	6058.2	6124.0	6650.5	7844.8	8605.7	7901.0
40°	7645.7	7551.0	7360.0	7098.4	6876.8	6692.2	6607.2	7103.2	8445.1	9437.2	8546.3
42.5°	8143.4	8053.5	7825.5	7602.4	7324.7	7271.7	7167.4	7632.9	9101.7	10350.6	9201.2
45°	8679.5	8572.0	8295.9	8013.3	7838.4	7657.0	7709.9	8162.6	9745.4	11281.6	9888.3
47.5°	9182.0	9061.6	8735.7	8421.1	8324.8	7981.2	8207.6	8745.3	10414.8	12225.5	10568.9
50°	9453.2	9334.4	9063.2	8779.0	8703.6	8380.9	8746.9	9385.8	11116.3	13166.1	11222.2
52.5°	9679.6	9551.2	9196.4	9039.1	9016.6	8816.0	9411.5	10117.8	11817.7	13997.7	11853.1
55°	9920.4	9777.5	9324.8	9183.6	9286.3	9303.9	10199.7	10947.7	12559.4	14808.3	12448.6
57.5°	10198.1	10016.7	9448.4	9305.6	9549.5	9875.4	11105.0	11808.1	13288.1	15559.6	12978.3
60°	10459.7	10276.7	9686.0	9499.8	9833.7	10538.4	12143.6	12849.9	14113.2	16228.9	13479.2
62.5°	10511.1	10360.2	9875.4	9873.8	10218.9	11312.1	13373.2	13901.3	14834.0	16890.3	13928.6
65°	9621.8	9527.1	9239.7	9859.4	10771.1	12426.1	14742.5	15246.5	15750.6	17468.2	14323.5
67.5°	7323.1	7335.9	7315.1	8511.0	10324.9	14026.6	16725.0	16686.4	16882.3	18116.7	14777.8
70°	3348.5	3424.0	3915.2	5875.2	8271.8	14211.2	20002.8	19503.6	18302.9	18956.2	15171.1
72.5°	1809.1	1866.9	2067.5	2846.1	4973.0	12634.8	22452.4	22807.2	20192.3	19521.3	14739.3
75°	1327.5	1359.6	1499.3	1809.1	2088.4	9390.6	21574.4	23394.7	20428.2	18203.4	12727.9
77.5°	993.6	1008.1	1122.1	1433.5	1069.1	4950.5	17238.6	19375.2	17487.4	14956.0	9401.9
80°	720.8	736.8	821.9	1075.5	749.6	1810.7	11837.0	13599.6	11976.7	9533.5	4685.7
82.5°	497.6	504.0	541.0	732.0	523.3	703.1	6716.3	7974.8	6685.8	3345.3	1264.9
85°	300.2	308.2	324.3	427.0	297.0	333.9	2899.1	2998.6	1998.5	799.4	393.3
87.5°	123.6	131.6	144.5	179.8	117.2	93.1	478.4	600.4	374.0	234.4	122.0
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°	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1	5477.1
2.5°	5485.1	5473.9	5443.4	5401.6	5363.1	5314.9	5294.1	5276.4	5260.4	5229.9	5215.4
5°	5518.8	5488.3	5406.4	5300.5	5180.1	5048.5	4920.0	4831.8	4756.3	4700.1	4653.6
7.5°	5570.2	5512.4	5363.1	5146.4	4870.3	4587.8	4332.5	4151.1	4014.7	3964.9	3878.3
10°	5623.1	5554.1	5294.1	4912.0	4435.3	4000.2	3661.5	3475.3	3366.2	3330.9	3276.3
12.5°	5685.7	5584.6	5186.5	4586.2	3948.9	3472.1	3176.8	3067.6	3011.4	2992.2	2997.0
15°	5777.2	5610.3	5024.4	4178.4	3485.0	3086.9	2895.8	2820.4	2791.5	2789.9	2796.3
17.5°	5846.3	5615.1	4772.4	3741.8	3128.6	2854.1	2696.8	2667.9	2687.2	2716.1	2727.3
20°	5923.3	5571.8	4441.7	3343.7	2878.2	2650.2	2584.4	2603.7	2650.2	2692.0	2706.4
22.5°	5977.9	5493.1	4042.0	3033.9	2661.5	2533.1	2529.9	2570.0	2595.7	2616.5	2627.8
25°	6026.1	5359.9	3618.2	2773.8	2483.3	2462.4	2497.7	2484.9	2467.2	2484.9	2496.1
27.5°	6061.4	5149.6	3239.4	2545.9	2358.1	2414.3	2393.4	2364.5	2362.9	2372.5	2388.6
30°	6050.1	4868.7	2928.0	2329.2	2269.8	2324.4	2274.6	2269.8	2265.0	2269.8	2287.5
32.5°	6050.1	4549.2	2688.8	2179.9	2213.6	2192.8	2187.9	2176.7	2157.4	2155.8	2176.7
35°	6083.8	4229.8	2483.3	2099.6	2167.1	2117.3	2120.5	2093.2	2053.1	2033.8	2053.1
37.5°	6152.9	3973.0	2279.4	2061.1	2085.2	2083.6	2070.8	2024.2	1953.6	1892.6	1913.4
40°	6319.8	3897.5	2139.8	2043.5	2046.7	2065.9	2032.2	1942.3	1781.8	1682.3	1695.1
42.5°	6581.5	4024.3	2109.3	2000.1	2021.0	2040.3	1974.4	1765.8	1651.8	1592.4	1592.4
45°	6913.8	4245.8	2175.1	1937.5	1960.0	1993.7	1797.9	1698.3	1647.0	1648.6	1656.6
47.5°	7334.3	4478.6	2297.1	1882.9	1871.7	1891.0	1680.7	1619.7	1549.1	1566.7	1611.7
50°	7820.7	4714.6	2412.7	1809.1	1773.8	1711.2	1605.2	1547.4	1457.6	1415.8	1427.1
52.5°	8347.2	4942.5	2459.2	1719.2	1667.8	1595.6	1553.9	1483.2	1374.1	1305.1	1303.5
55°	8846.5	5149.6	2407.9	1611.7	1561.9	1505.7	1499.3	1455.9	1338.8	1242.5	1242.5
57.5°	9318.4	5323.0	2279.4	1502.5	1454.3	1420.6	1464.0	1443.1	1295.4	1171.8	1165.4
60°	9718.1	5441.8	2093.2	1391.7	1358.0	1340.4	1406.2	1399.8	1234.4	1096.4	1091.6
62.5°	10035.9	5488.3	1887.8	1285.8	1277.8	1245.7	1325.9	1325.9	1157.4	1022.5	1017.7
65°	10284.7	5443.4	1679.1	1181.5	1197.5	1149.3	1228.0	1218.4	1075.5	956.7	950.3
67.5°	10504.7	5295.7	1447.9	1078.7	1115.6	1054.6	1125.3	1102.8	985.6	890.9	884.5
70°	10602.6	4952.2	1184.7	976.0	1020.9	961.5	1022.5	980.8	884.5	820.3	807.4
72.5°	9816.0	4115.8	932.6	868.4	907.0	858.8	911.8	863.6	775.3	746.4	722.4
75°	8120.9	3088.5	717.5	751.3	780.1	743.2	778.5	743.2	663.0	683.8	624.4
77.5°	5897.6	2085.2	549.0	627.6	640.5	621.2	651.7	611.6	539.4	534.5	510.5
80°	2932.8	1221.6	430.2	496.0	491.2	478.4	513.7	494.4	433.4	459.1	454.3
82.5°	849.2	523.3	313.0	348.3	338.7	341.9	367.6	377.2	565.0	560.2	573.1
85°	266.5	205.5	187.8	194.2	184.6	189.4	216.7	430.2	398.1	232.8	252.0
87.5°	69.0	70.6	46.6	49.8	51.4	61.0	69.0	261.7	125.2	81.9	86.7
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)