

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: P941279

Luminaire Tested: **GALN-SB4D-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37388 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 293.6
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



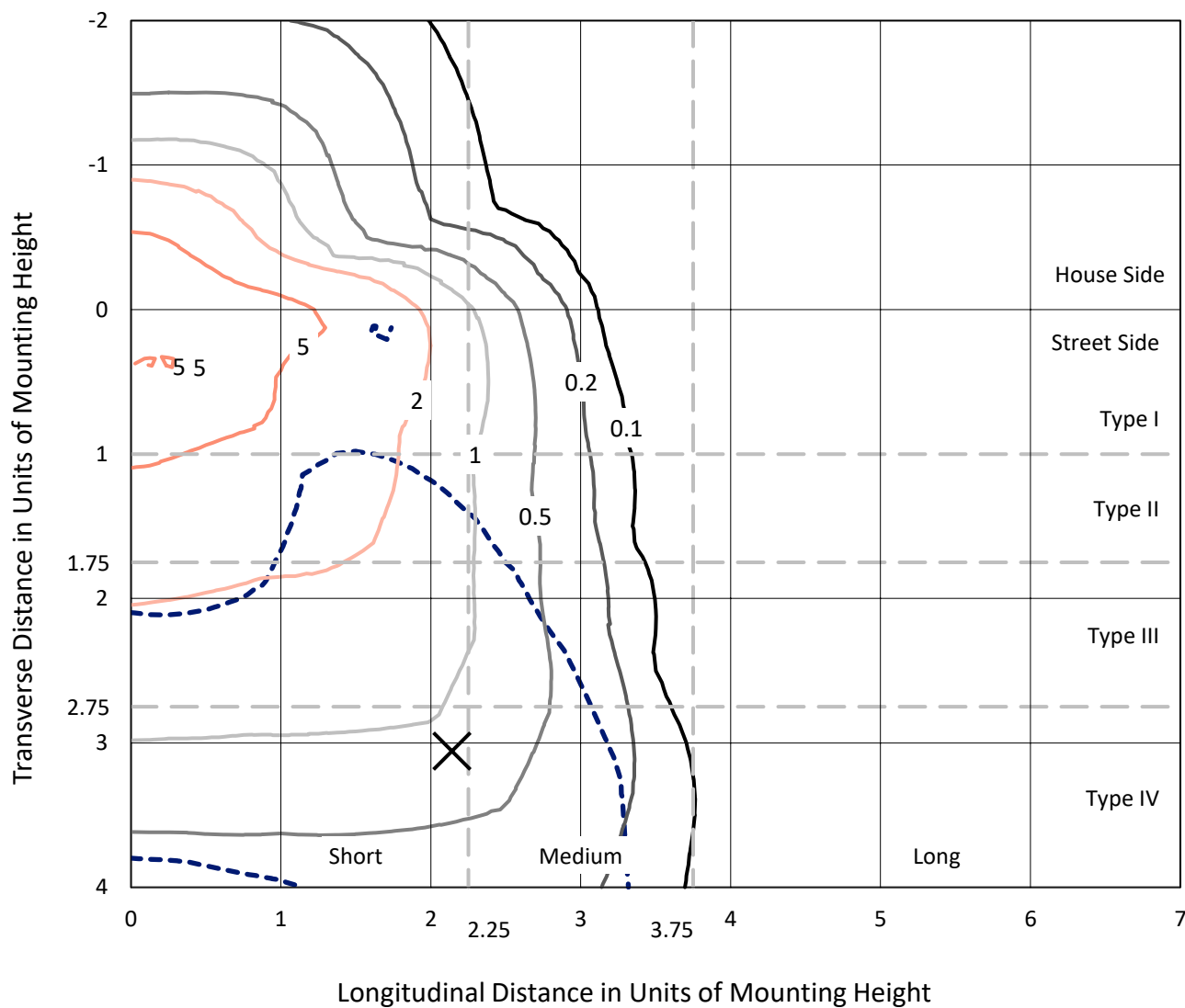
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

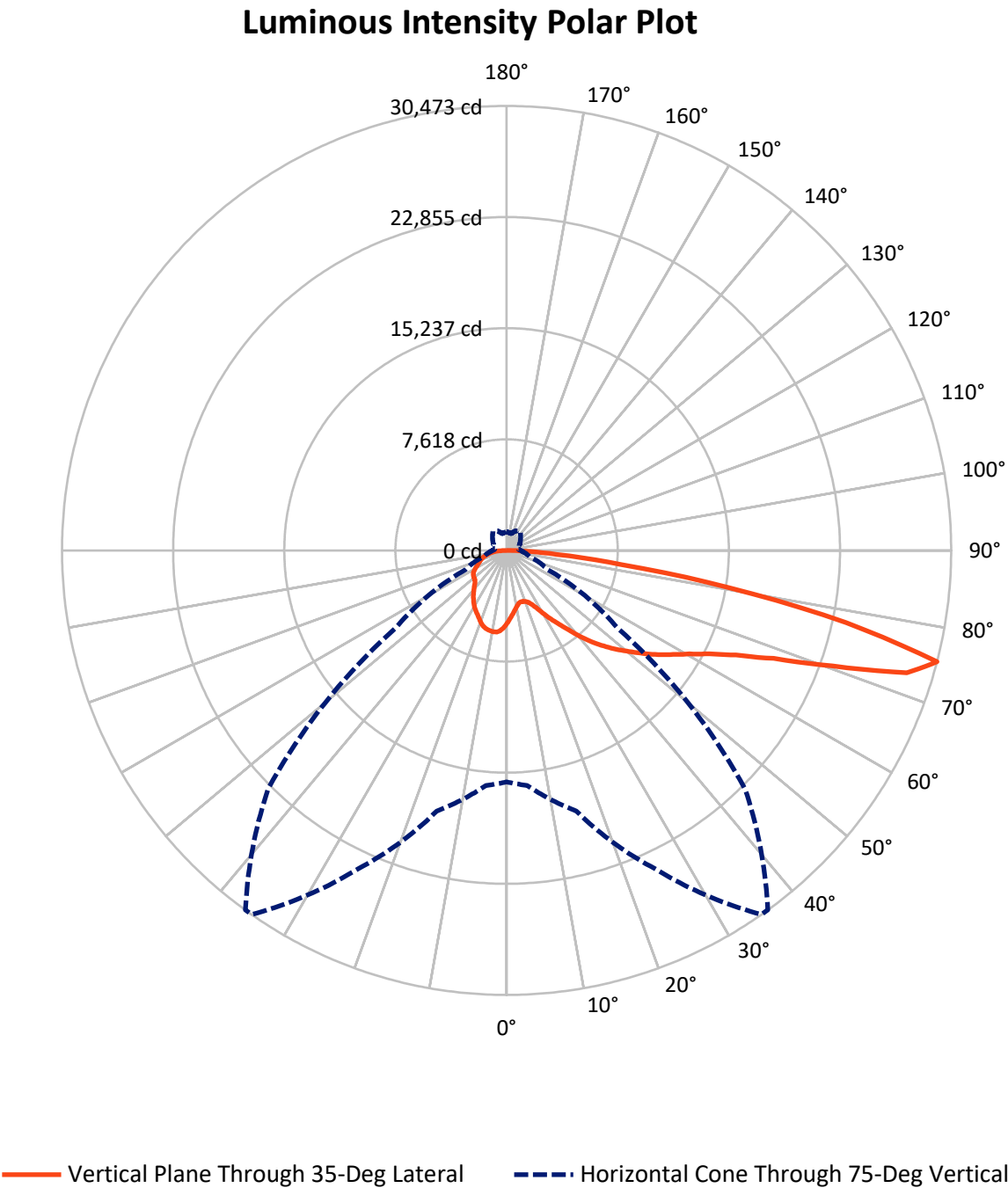
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc

Type IV - Short - N/A

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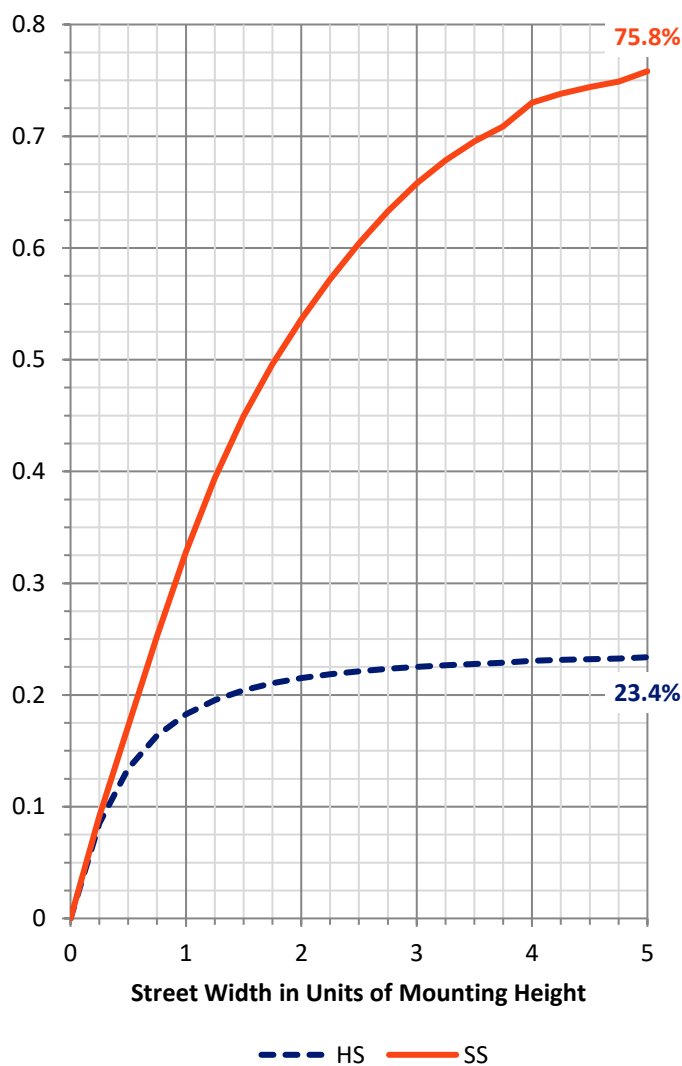
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8897.4	0.0	8897.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28490.6	0.0	28490.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	37388.0	0.0	37388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.7	1.3
10°-20°	1360.6	3.6
20°-30°	2284.9	6.1
30°-40°	3551.0	9.5
40°-50°	5270.6	14.1
50°-60°	7276.4	19.5
60°-70°	8827.9	23.6
70°-80°	7295.6	19.5
80°-90°	1049.3	2.8
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°	37388.0	100.0
0°-180°	37388.0	100.0

Coefficient of Utilization



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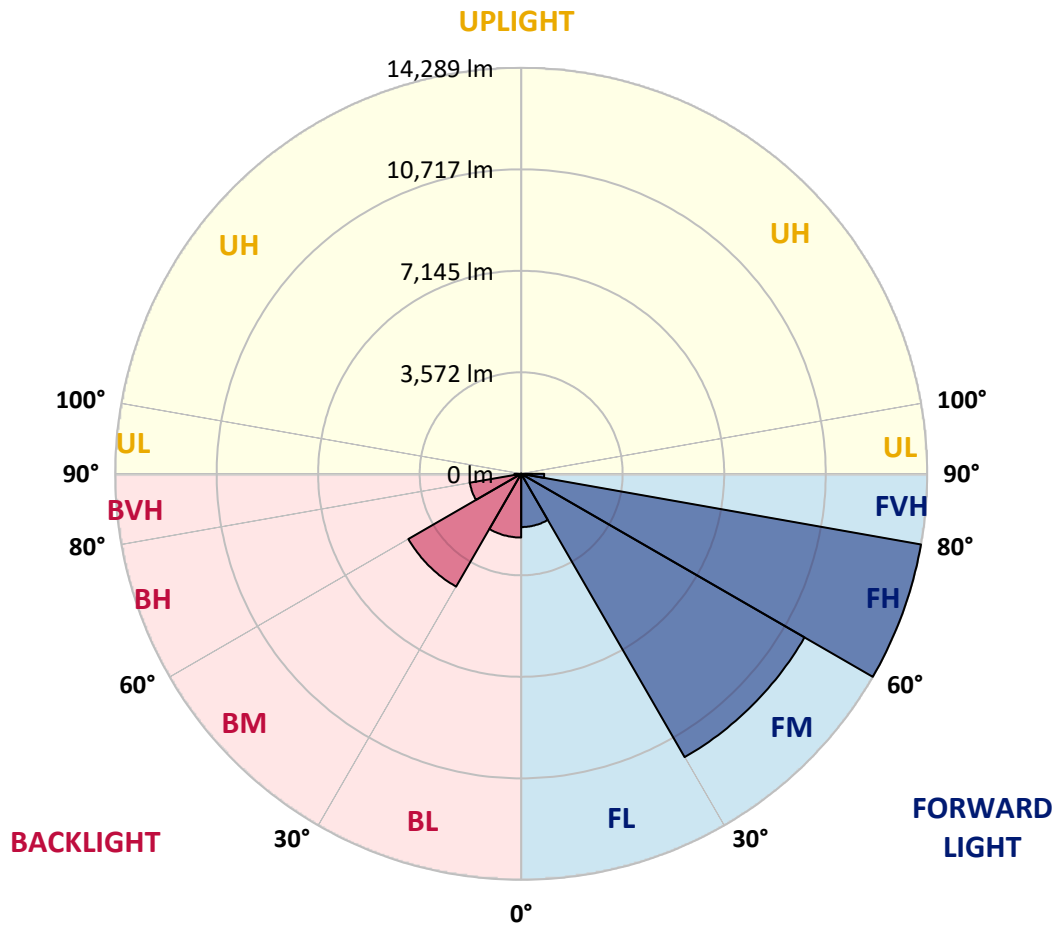
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1874.9	5.0			
FM	(30°-60°)	11513.5	30.8			
FH	(60°-80°)	14289.1	38.2			G5
FVH	(80°-90°)	813.0	2.2			G5
BL	(0°-30°)	2242.3	6.0	B3/2500		
BM	(30°-60°)	4584.5	12.3	B3/5000		
BH	(60°-80°)	1834.4	4.9	B3/2500		G3/2500
BVH	(80°-90°)	236.3	0.6			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2
2.5°	4594.1	4622.4	4634.6	4628.5	4658.8	4654.8	4697.2	4749.8	4822.5	4893.3	4996.4
5°	4240.4	4270.7	4297.0	4321.3	4379.9	4398.1	4464.8	4565.8	4699.2	4834.7	5004.4
7.5°	3911.0	3937.3	3977.7	4022.1	4121.2	4139.4	4250.5	4408.2	4594.1	4792.2	5026.7
10°	3642.2	3668.4	3710.9	3761.4	3884.7	3906.9	4048.4	4258.6	4501.2	4751.8	5050.9
12.5°	3527.0	3535.0	3559.3	3609.8	3716.9	3731.1	3886.7	4127.2	4410.2	4721.5	5087.3
15°	3520.9	3537.1	3539.1	3565.4	3654.3	3660.4	3803.9	4042.4	4353.6	4715.4	5141.9
17.5°	3581.5	3593.7	3575.5	3591.6	3666.4	3676.5	3789.7	4001.9	4335.4	4741.7	5234.9
20°	3743.2	3753.3	3698.8	3676.5	3731.1	3739.2	3850.3	4028.2	4353.6	4796.3	5362.2
22.5°	4086.8	4092.9	3959.5	3868.5	3872.6	3876.6	3973.6	4135.3	4424.4	4895.3	5523.9
25°	4622.4	4618.4	4406.2	4230.3	4129.3	4107.0	4171.7	4309.2	4543.6	5026.7	5732.1
27.5°	5249.0	5218.7	5006.5	4743.7	4523.4	4491.1	4476.9	4535.5	4713.4	5200.5	5986.7
30°	5956.4	5928.1	5699.7	5356.1	5050.9	4998.4	4865.0	4834.7	4966.0	5437.0	6340.4
32.5°	6732.5	6714.4	6441.5	6025.1	5616.9	5556.2	5331.9	5251.0	5354.1	5794.7	6833.6
35°	7383.4	7367.2	7140.8	6712.3	6213.1	6138.3	5909.9	5819.0	5871.5	6253.5	7478.4
37.5°	7971.5	7963.4	7769.4	7431.9	6916.5	6825.5	6568.8	6538.5	6528.4	6857.9	8260.6
40°	8517.2	8497.0	8294.9	8117.1	7735.0	7652.2	7425.8	7399.5	7322.7	7601.7	9145.8
42.5°	9121.6	9069.0	8776.0	8693.1	8590.0	8521.3	8385.9	8389.9	8220.1	8440.4	10083.7
45°	9614.7	9584.4	9283.3	9234.8	9345.9	9317.6	9434.9	9465.2	9135.7	9319.7	11057.9
47.5°	10144.3	10116.0	9861.3	9827.0	10128.1	10136.2	10550.5	10560.7	10029.1	10233.2	12034.1
50°	10797.1	10756.7	10504.1	10546.5	10884.0	10914.4	11672.3	11603.6	10851.7	11160.9	13002.2
52.5°	11227.6	11251.9	11197.3	11266.0	11726.9	11755.2	12775.9	12600.0	11666.2	12076.5	13952.2
55°	11545.0	11593.5	11763.3	11920.9	12616.2	12644.5	13816.8	13548.0	12341.3	12925.4	14845.6
57.5°	11953.2	11884.5	12201.9	12509.1	13461.0	13535.8	14829.4	14461.5	12939.6	13657.1	15458.0
60°	12539.4	12490.9	12737.5	13192.2	14407.0	14526.2	15900.6	15284.1	13378.2	14237.2	15577.2
62.5°	13727.8	13606.6	13645.0	14047.2	15599.5	15757.1	17109.3	16001.7	13596.5	14463.6	14938.5
65°	15504.5	15296.3	15102.2	15381.2	17279.1	17434.7	18473.6	16565.6	13515.6	14025.0	13242.8
67.5°	17741.9	17535.7	17297.2	17560.0	19753.0	19876.3	20157.2	16882.9	12878.9	12335.2	10245.4
70°	19587.2	19510.4	19795.4	20876.7	23704.4	23708.4	22315.8	16620.1	11134.7	8745.6	5928.1
72.5°	19342.7	19296.2	20797.9	24141.0	28684.6	28577.4	24359.2	14631.3	7500.6	3945.3	2221.3
75°	15868.3	16169.4	18495.8	24082.3	30473.3	30459.2	23108.1	9301.5	3102.5	1635.1	1148.0
77.5°	8509.2	8986.2	12007.8	17780.3	23789.3	24147.0	16246.2	3254.1	1332.0	1047.0	794.3
80°	2775.1	3191.4	4786.1	9052.9	15458.0	15391.3	6963.0	1277.4	911.6	741.8	549.8
82.5°	1178.3	1226.9	2138.4	4274.8	7933.1	7809.8	2217.2	733.7	640.7	507.3	339.6
85°	460.8	515.4	943.9	1976.7	3436.0	3361.2	800.4	363.8	410.3	331.5	202.1
87.5°	151.6	183.9	337.5	677.1	1069.2	1030.8	196.1	125.3	177.9	151.6	72.8
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°	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2	4982.2
2.5°	5024.6	5057.0	5095.4	5152.0	5200.5	5240.9	5283.4	5309.6	5319.7	5350.1	5348.0
5°	5061.0	5131.8	5226.8	5319.7	5410.7	5465.3	5513.8	5538.0	5560.3	5576.4	5580.5
7.5°	5121.7	5212.6	5362.2	5483.5	5560.3	5604.7	5637.1	5629.0	5637.1	5641.1	5647.2
10°	5174.2	5301.6	5479.4	5594.6	5653.2	5655.3	5647.2	5618.9	5604.7	5606.7	5610.8
12.5°	5236.9	5378.4	5570.4	5667.4	5683.6	5639.1	5604.7	5556.2	5538.0	5529.9	5525.9
15°	5321.8	5483.5	5669.4	5705.8	5665.4	5608.8	5550.2	5471.3	5430.9	5398.6	5408.7
17.5°	5424.8	5602.7	5746.2	5719.9	5633.0	5540.0	5445.1	5325.8	5242.9	5208.6	5210.6
20°	5568.3	5728.0	5804.8	5689.6	5558.2	5416.8	5255.1	5109.5	5032.7	4998.4	4994.3
22.5°	5742.2	5895.8	5861.4	5637.1	5451.1	5224.7	5022.6	4915.5	4877.1	4852.8	4856.9
25°	5950.3	6081.7	5901.8	5560.3	5275.3	4970.1	4814.4	4780.1	4761.9	4743.7	4743.7
27.5°	6221.2	6291.9	5932.2	5447.1	5000.4	4699.2	4642.6	4648.7	4642.6	4612.3	4618.4
30°	6578.9	6564.8	5960.5	5263.1	4685.1	4454.7	4458.7	4485.0	4489.0	4468.8	4478.9
32.5°	7049.9	6906.4	5974.6	5024.6	4383.9	4240.4	4244.5	4272.8	4293.0	4258.6	4274.8
35°	7619.8	7304.5	5952.4	4725.5	4151.5	4036.3	4006.0	4014.1	4020.1	3987.8	4010.0
37.5°	8284.8	7751.2	5853.3	4394.0	3959.5	3836.2	3771.5	3716.9	3684.6	3654.3	3674.5
40°	9014.5	8238.3	5671.4	4070.7	3745.2	3624.0	3527.0	3423.9	3314.7	3274.3	3292.5
42.5°	9778.5	8739.6	5451.1	3761.4	3498.7	3399.6	3296.5	3147.0	2983.3	2900.4	2910.5
45°	10570.8	9253.0	5234.9	3456.2	3246.0	3203.6	3084.3	2904.4	2726.6	2621.5	2613.4
47.5°	11346.9	9738.0	4917.5	3149.0	3009.5	3056.0	2963.0	2797.3	2599.2	2433.5	2415.3
50°	12088.7	10192.8	4398.1	2837.7	2817.5	3011.6	2922.6	2684.1	2457.8	2245.5	2227.3
52.5°	12824.4	10560.7	3733.1	2554.8	2714.4	2999.4	2870.1	2607.3	2330.4	2108.1	2083.8
55°	13448.9	10750.6	3092.4	2312.2	2564.9	2896.3	2807.4	2516.4	2150.5	1914.1	1893.8
57.5°	13804.6	10597.0	2558.8	2073.7	2358.7	2726.6	2700.3	2322.3	1936.3	1754.4	1730.1
60°	13651.0	9974.5	2122.2	1865.5	2162.7	2542.6	2514.3	2130.3	1772.6	1600.8	1576.5
62.5°	12804.2	8788.1	1776.6	1683.6	1984.8	2354.7	2328.4	1982.8	1647.3	1481.5	1455.2
65°	11098.3	7148.9	1507.8	1532.1	1804.9	2128.3	2166.7	1859.5	1548.2	1386.5	1360.3
67.5°	8464.7	5178.3	1297.6	1400.7	1629.1	1906.0	2017.1	1770.6	1465.4	1311.7	1287.5
70°	4824.6	2940.8	1119.7	1273.3	1473.4	1699.8	1901.9	1699.8	1376.4	1249.1	1232.9
72.5°	1829.2	1350.1	968.1	1146.0	1323.9	1526.0	1774.6	1588.6	1273.3	1178.3	1162.2
75°	976.2	822.6	814.5	996.4	1152.1	1356.2	1614.9	1479.5	1196.5	1245.0	1285.5
77.5°	665.0	582.1	681.1	852.9	964.1	1168.2	1445.1	1313.8	1036.9	1032.8	952.0
80°	460.8	412.3	553.8	687.2	745.8	982.3	1261.2	1127.8	844.9	788.3	753.9
82.5°	276.9	268.8	414.3	513.4	527.5	757.9	1044.9	945.9	691.2	602.3	606.4
85°	151.6	159.7	264.8	301.2	307.2	529.5	818.6	731.7	531.6	446.7	450.7
87.5°	42.4	54.6	97.0	119.2	147.5	274.9	487.1	434.6	266.8	185.9	185.9
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)