

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: P457161

Luminaire Tested: **GALN-SA8C-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46473 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

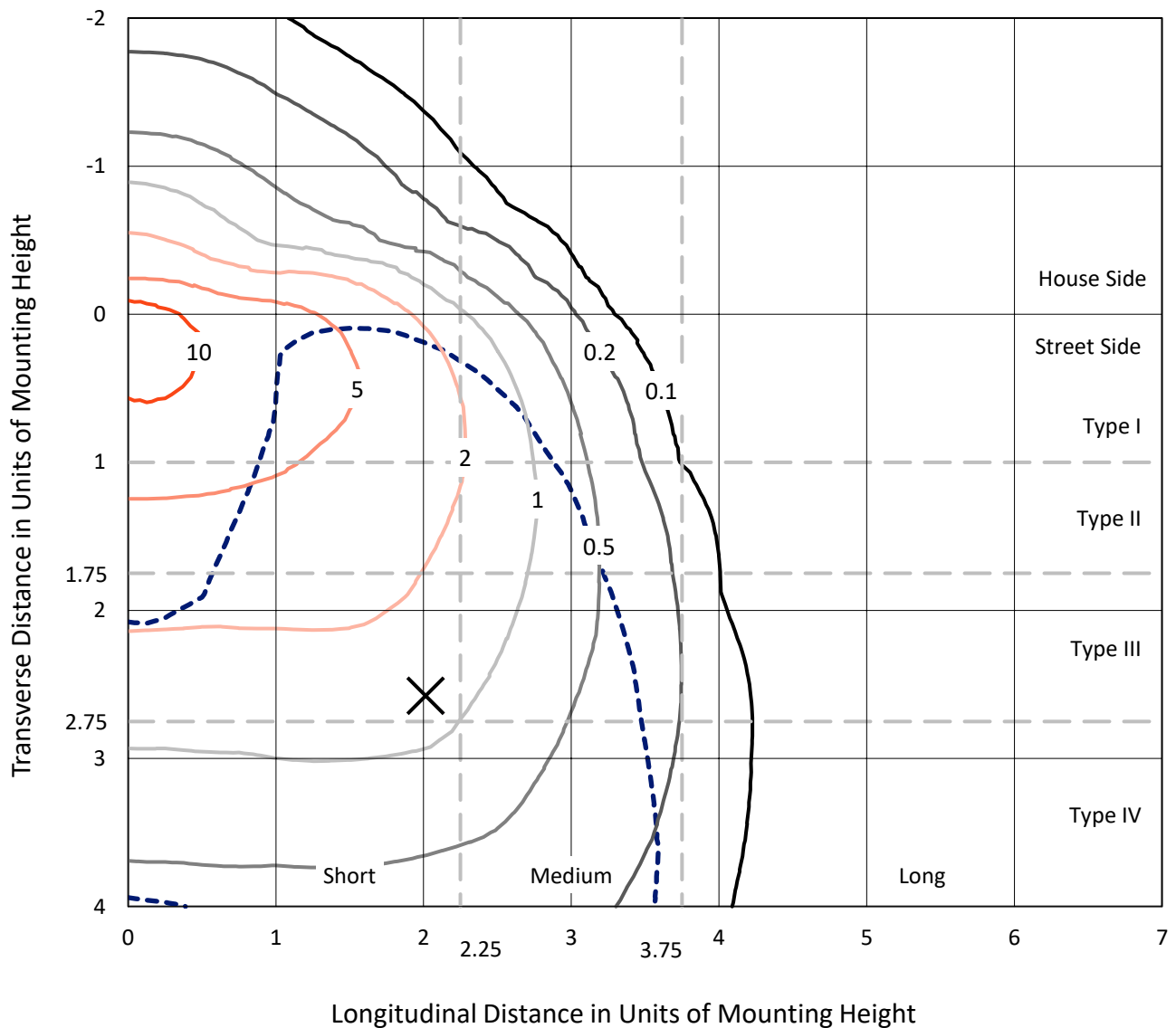
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

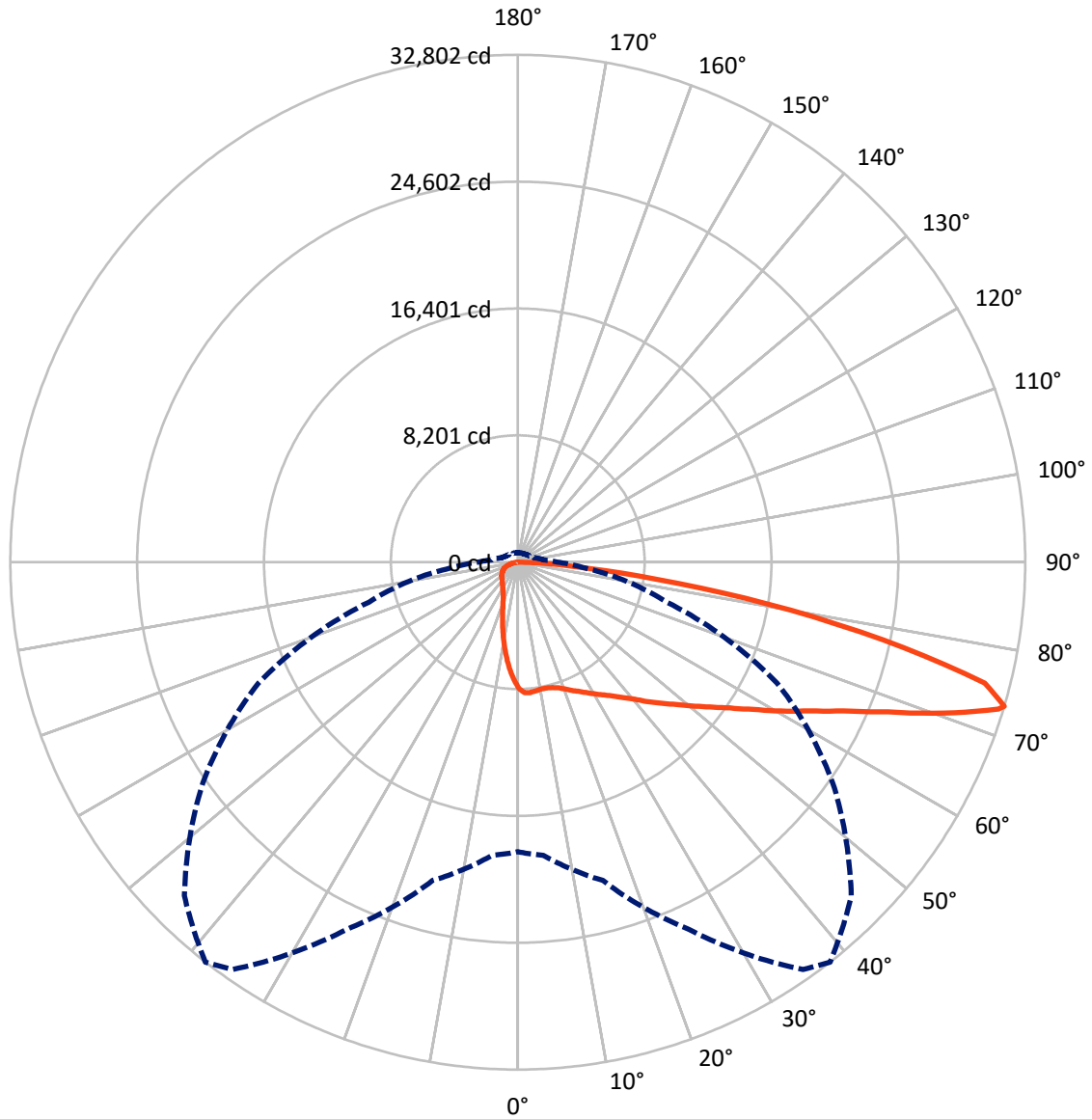
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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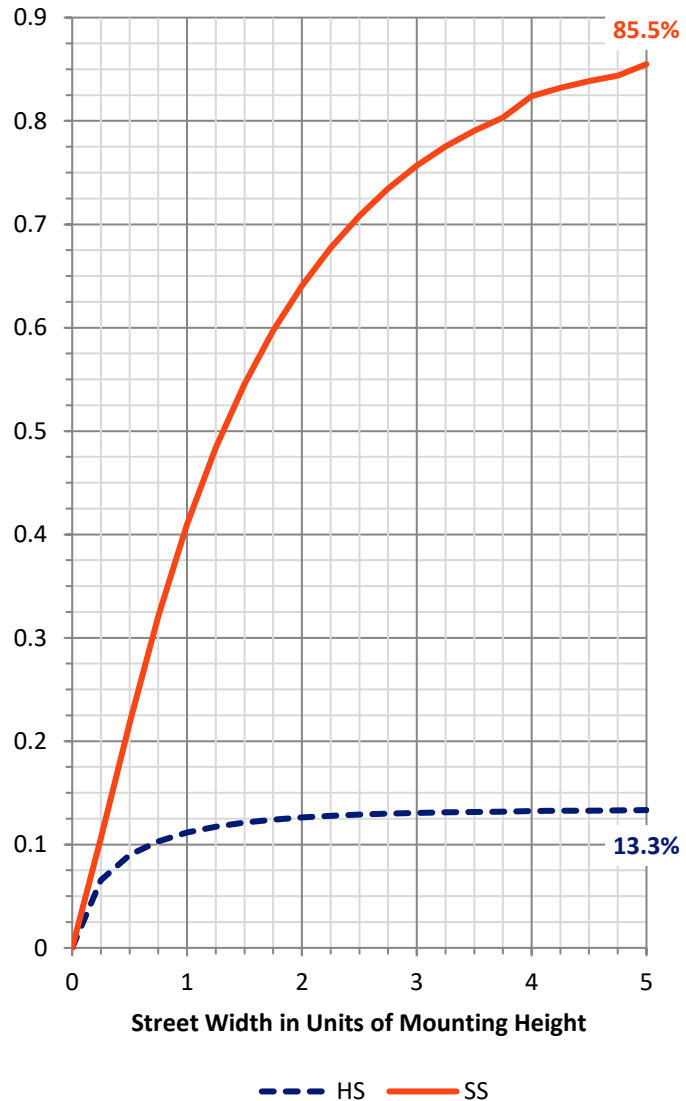
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6247.3	0.0	6247.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	40225.7	0.0	40225.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	46473.0	0.0	46473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.7	1.5
10°-20°	1827.5	3.9
20°-30°	2845.8	6.1
30°-40°	4174.1	9.0
40°-50°	6191.9	13.3
50°-60°	8772.7	18.9
60°-70°	11128.4	23.9
70°-80°	9263.5	19.9
80°-90°	1556.4	3.3
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°	46473.0	100.0
0°-180°	46473.0	100.0

Coefficient of Utilization



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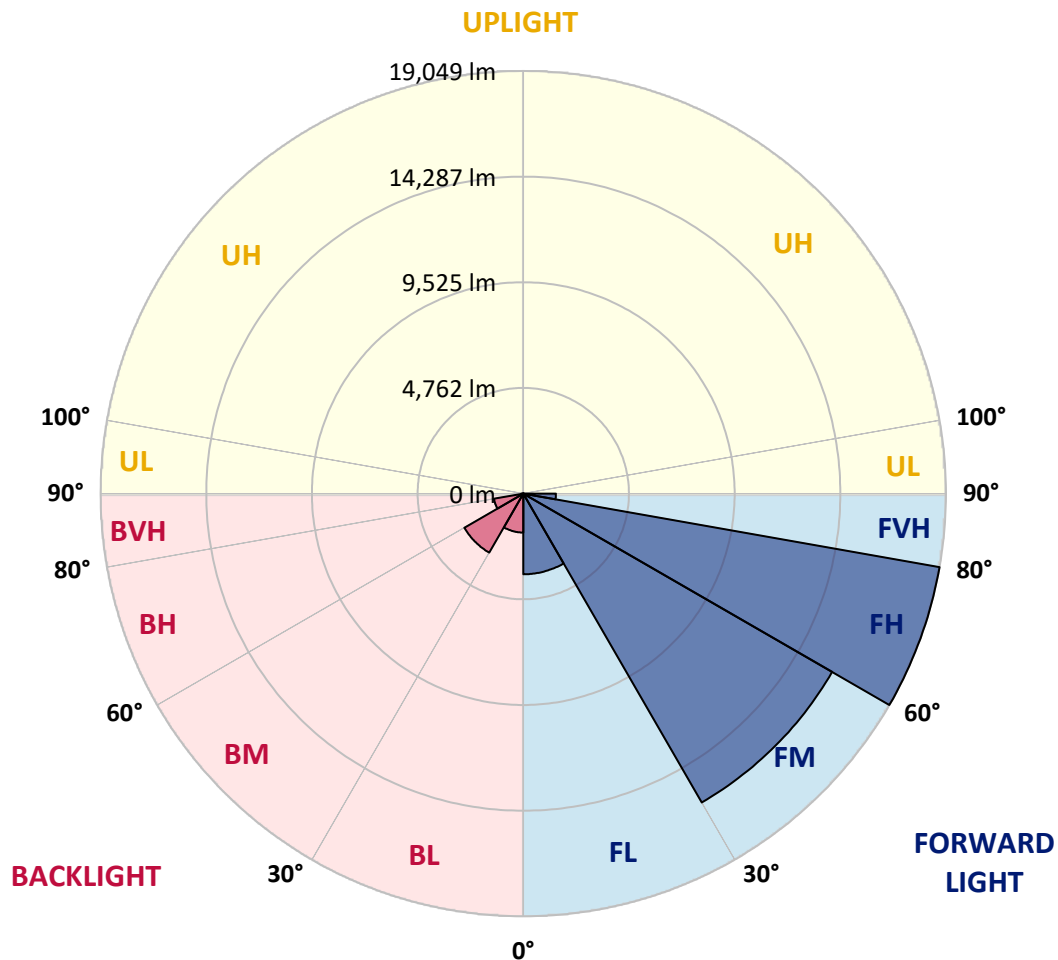
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3632.9	7.8			
FM (30°-60°)	16071.6	34.6			
FH (60°-80°)	19049.1	41.0			G5
FVH (80°-90°)	1472.0	3.2			G5
BL (0°-30°)	1753.1	3.8	B3/2500		
BM (30°-60°)	3067.1	6.6	B3/5000		
BH (60°-80°)	1342.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	84.4	0.2			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5
2.5°	8492.6	8534.6	8513.6	8484.7	8466.3	8448.0	8421.7	8345.6	8285.2	8219.6	8117.3
5°	8555.6	8581.8	8563.4	8526.7	8484.7	8466.3	8416.5	8316.7	8219.6	8109.4	7957.2
7.5°	8518.8	8529.3	8508.3	8463.7	8427.0	8392.8	8335.1	8224.9	8106.8	7972.9	7773.5
10°	8387.6	8427.0	8427.0	8390.2	8353.5	8335.1	8277.4	8172.4	8064.8	7912.6	7676.4
12.5°	8280.0	8322.0	8356.1	8345.6	8343.0	8343.0	8298.4	8219.6	8093.7	7949.3	7668.5
15°	8206.5	8256.4	8329.9	8371.8	8398.1	8406.0	8387.6	8319.4	8190.8	8022.8	7700.0
17.5°	8190.8	8251.1	8385.0	8476.8	8545.1	8542.4	8537.2	8442.7	8301.0	8127.8	7739.4
20°	8261.6	8340.4	8526.7	8671.0	8770.8	8752.4	8723.5	8600.2	8434.8	8240.6	7776.1
22.5°	8474.2	8555.6	8760.3	8917.7	9014.8	9014.8	8928.2	8765.5	8589.7	8371.8	7826.0
25°	8778.6	8867.9	9085.7	9245.8	9290.4	9256.3	9169.7	8972.8	8770.8	8560.8	7930.9
27.5°	9151.3	9258.9	9461.0	9594.8	9581.7	9555.5	9466.2	9214.3	9012.2	8820.6	8109.4
30°	9615.8	9694.5	9904.5	9936.0	9888.8	9883.5	9757.5	9505.6	9316.6	9169.7	8364.0
32.5°	10054.1	10124.9	10292.9	10306.0	10222.1	10232.5	10114.5	9883.5	9775.9	9723.4	8791.8
35°	10518.6	10555.3	10699.7	10683.9	10628.8	10621.0	10573.7	10353.3	10387.4	10481.9	9398.0
37.5°	10907.0	10980.5	11061.9	11075.0	11072.4	11098.6	11130.1	11025.1	11221.9	11518.5	10193.2
40°	11263.9	11326.9	11447.6	11489.6	11592.0	11644.5	11752.1	11754.7	12208.7	12696.9	11172.1
42.5°	11505.4	11613.0	11838.7	11914.8	12164.1	12321.6	12481.7	12652.2	13311.0	13938.2	12326.8
45°	11715.3	11857.1	12232.3	12468.5	12807.1	12998.7	13337.2	13694.1	14641.5	15463.0	13499.9
47.5°	12032.9	12158.9	12589.3	13006.5	13518.3	13738.8	14245.3	14778.0	16016.7	16916.9	14623.2
50°	12473.8	12549.9	12988.2	13667.9	14321.4	14604.8	15274.0	16043.0	17486.4	18352.5	15610.0
52.5°	13038.0	13069.5	13418.6	14324.0	15184.8	15536.5	16423.5	17321.1	18772.4	19599.0	16392.0
55°	13704.6	13652.1	13925.1	15019.5	16171.6	16630.8	17583.5	18614.9	20218.4	20606.8	16961.5
57.5°	14363.4	14282.0	14499.8	15864.5	17389.3	17943.0	19053.2	19948.1	21509.6	21549.0	17360.4
60°	15061.5	15001.1	15260.9	16856.5	18882.6	19538.7	20564.8	21331.1	22758.8	22205.1	17423.4
62.5°	15777.9	15680.8	16050.9	17971.9	20564.8	21160.6	22155.2	22800.8	23984.4	22449.1	16817.2
65°	16473.4	16428.8	17000.9	19297.2	22480.6	23157.7	24123.5	24561.8	24965.9	22081.7	15313.4
67.5°	17213.5	17302.7	18216.0	21066.1	24979.1	25829.4	26871.3	26459.2	25246.8	20341.7	12896.3
70°	18342.0	18399.7	19811.6	23383.4	28199.2	29225.4	29729.2	27133.7	23892.6	17037.6	9694.5
72.5°	18827.5	19082.0	21236.7	25816.3	31857.6	32484.9	30689.8	25629.9	19903.5	11573.6	5094.0
73°	18719.9	19024.3	21302.3	26186.3	32143.7	32802.4	30485.1	24855.7	18502.0	9967.5	4367.0
75°	17378.8	17754.1	20449.4	25876.6	31587.3	31193.7	27194.1	21184.2	12502.7	4532.3	1989.3
77.5°	13712.5	13820.1	16203.1	20895.5	24874.1	24144.5	20352.2	13240.1	5107.1	1684.9	1128.5
80°	6878.6	7274.8	9132.9	11969.9	16633.5	16394.6	12846.5	6261.8	2128.4	989.4	748.0
82.5°	3309.4	3590.2	4448.4	5836.7	9190.7	8972.8	6361.6	3422.2	1351.6	577.4	440.9
85°	2131.0	2341.0	2831.7	2784.5	3779.1	3608.6	2858.0	2590.3	800.4	301.8	307.1
87.5°	1406.7	1540.5	1847.6	1477.5	1375.2	1244.0	1262.3	1459.2	157.5	115.5	42.0
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°	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5	8164.5
2.5°	8075.3	8041.2	7928.3	7818.1	7713.1	7613.4	7547.8	7461.2	7403.4	7419.2	7442.8
5°	7873.2	7797.1	7597.6	7403.4	7219.7	7001.9	6826.1	6684.4	6576.8	6537.4	6529.5
7.5°	7660.6	7532.0	7246.0	6912.7	6600.4	6330.1	6017.8	5862.9	5681.8	5618.8	5597.9
10°	7532.0	7358.8	6957.3	6492.8	6023.0	5574.2	5235.7	4960.1	4710.8	4663.6	4639.9
12.5°	7495.3	7267.0	6726.3	6128.0	5503.4	4952.2	4451.0	4088.8	3847.4	3792.3	3710.9
15°	7474.3	7190.9	6511.1	5760.6	4968.0	4296.1	3768.6	3346.1	3125.7	2978.7	2981.3
17.5°	7455.9	7104.3	6269.7	5359.0	4506.1	3731.9	3149.3	2768.7	2566.7	2487.9	2480.1
20°	7429.7	7001.9	5991.5	4936.5	3978.6	3217.5	2690.0	2406.6	2270.1	2204.5	2201.9
22.5°	7419.2	6902.2	5718.6	4506.1	3511.5	2821.2	2385.6	2186.1	2099.5	2054.9	2054.9
25°	7445.4	6831.3	5432.5	4096.7	3096.8	2482.7	2175.6	2039.2	1989.3	1965.7	1957.8
27.5°	7526.8	6799.8	5149.1	3687.3	2716.3	2251.7	2033.9	1939.4	1902.7	1884.3	1886.9
30°	7681.6	6797.2	4870.9	3283.1	2432.8	2075.9	1921.1	1855.5	1826.6	1816.1	1813.5
32.5°	7930.9	6854.9	4598.0	2949.8	2194.0	1928.9	1816.1	1768.8	1755.7	1747.9	1745.2
35°	8353.5	7017.7	4327.6	2645.4	2010.3	1797.7	1716.4	1692.7	1674.4	1682.2	1684.9
37.5°	8923.0	7298.5	4070.4	2406.6	1871.2	1700.6	1632.4	1611.4	1600.9	1608.8	1616.6
40°	9686.7	7702.6	3855.2	2215.0	1771.5	1619.3	1558.9	1540.5	1530.0	1543.1	1545.8
42.5°	10529.1	8169.8	3676.8	2065.4	1690.1	1551.0	1493.3	1472.3	1464.4	1472.3	1474.9
45°	11395.2	8713.0	3584.9	1957.8	1621.9	1501.2	1440.8	1417.2	1398.8	1393.6	1401.4
47.5°	12248.1	9185.4	3582.3	1892.2	1566.8	1456.5	1390.9	1364.7	1341.1	1327.9	1325.3
50°	12943.6	9560.7	3645.3	1863.3	1519.5	1406.7	1341.1	1314.8	1283.3	1257.1	1262.3
52.5°	13468.4	9804.8	3674.2	1850.2	1493.3	1354.2	1288.6	1265.0	1228.2	1194.1	1194.1
55°	13807.0	9862.5	3603.3	1837.1	1472.3	1299.1	1228.2	1207.2	1170.5	1136.4	1136.4
57.5°	13922.5	9684.0	3348.7	1805.6	1451.3	1251.8	1167.9	1149.5	1120.6	1086.5	1081.3
60°	13654.8	9080.4	2902.6	1711.1	1409.3	1202.0	1102.2	1094.4	1083.9	1055.0	1052.4
62.5°	12623.4	7799.7	2417.1	1587.8	1338.4	1149.5	1041.9	1055.0	1062.9	1047.1	1044.5
65°	10907.0	6332.7	2065.4	1417.2	1244.0	1076.0	976.3	1010.4	1031.4	1031.4	1026.1
67.5°	8846.9	4863.0	1740.0	1270.2	1125.9	976.3	902.8	929.0	944.8	939.5	952.7
70°	6288.1	3293.6	1417.2	1102.2	976.3	863.4	808.3	808.3	797.8	792.6	792.6
72.5°	3049.6	1881.7	1149.5	921.2	831.9	737.5	692.8	674.5	653.5	650.9	637.7
73°	2548.3	1687.5	1097.0	887.0	797.8	719.1	669.2	640.4	627.2	616.7	614.1
75°	1551.0	1280.7	915.9	748.0	679.7	619.4	574.7	548.5	535.4	527.5	524.9
77.5°	1020.9	955.3	711.2	572.1	519.6	482.9	464.5	438.3	430.4	419.9	419.9
80°	761.1	729.6	509.1	404.2	372.7	341.2	335.9	330.7	309.7	296.6	291.3
82.5°	490.8	519.6	346.4	270.3	236.2	210.0	212.6	220.4	199.5	181.1	175.8
85°	349.0	375.3	210.0	123.3	99.7	86.6	97.1	86.6	89.2	70.9	57.7
87.5°	57.7	99.7	36.7	15.7	7.9	5.2	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)