

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: P532313

Luminaire Tested: **GALN-SA7C-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22712 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 377
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

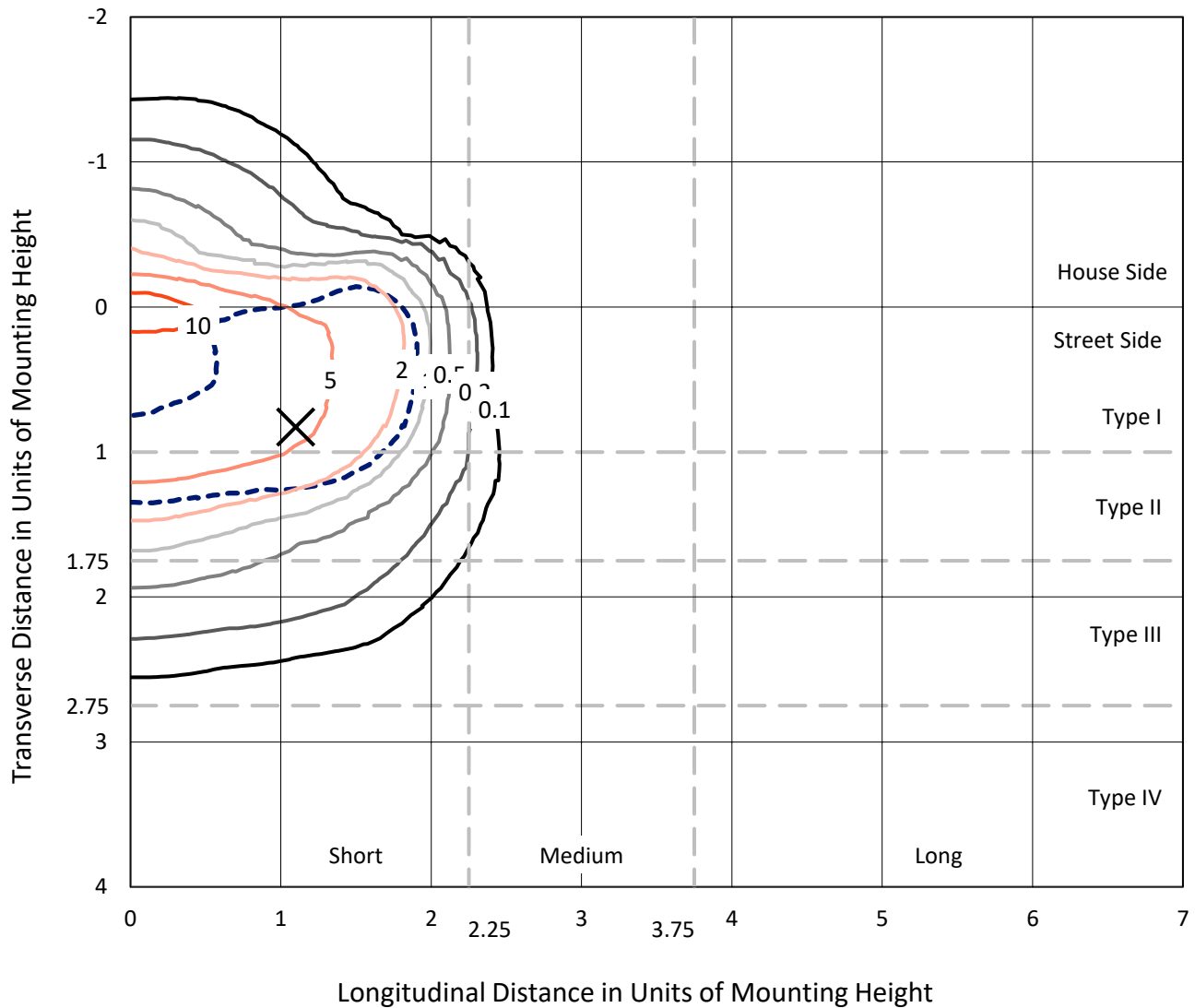


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

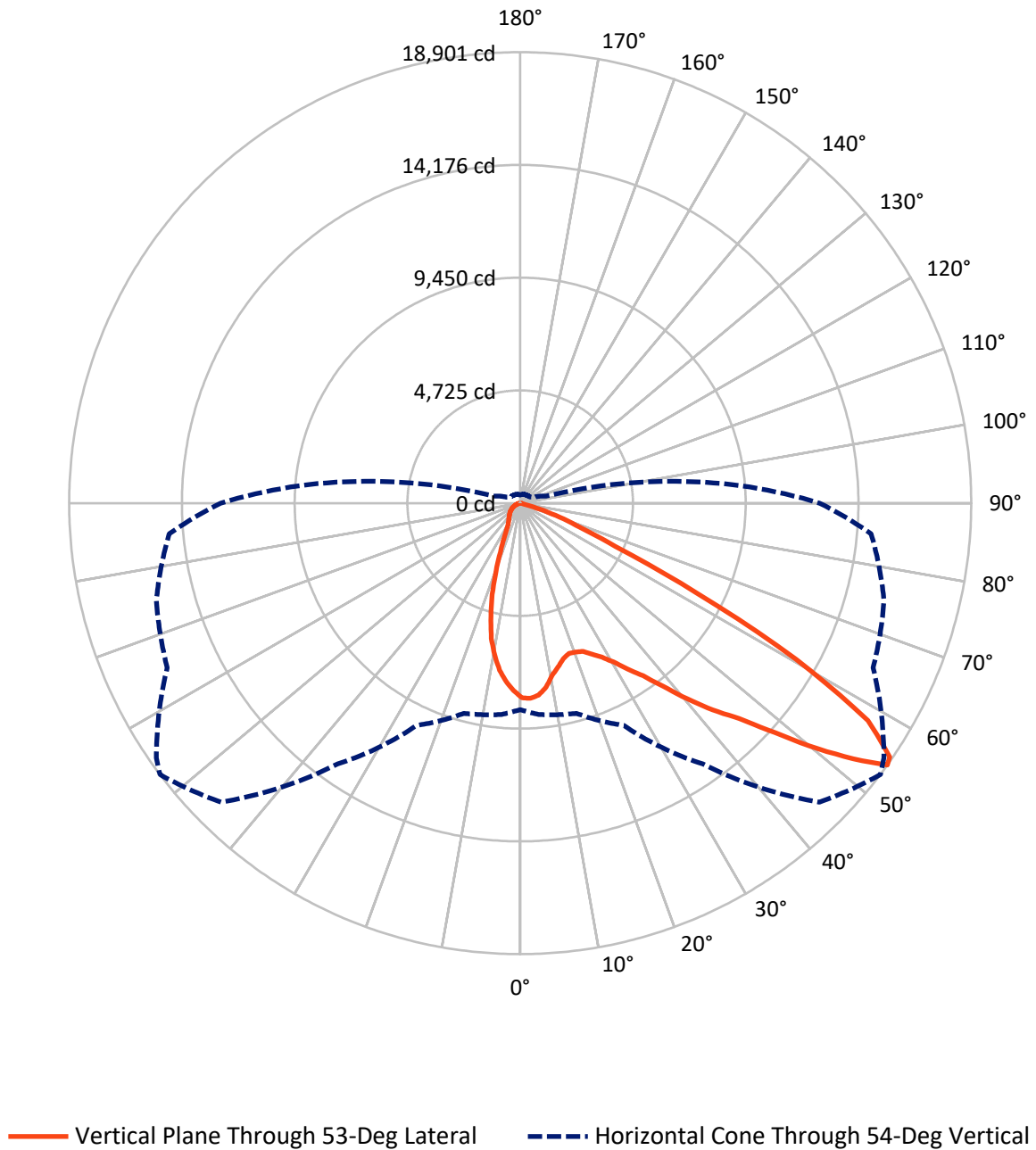


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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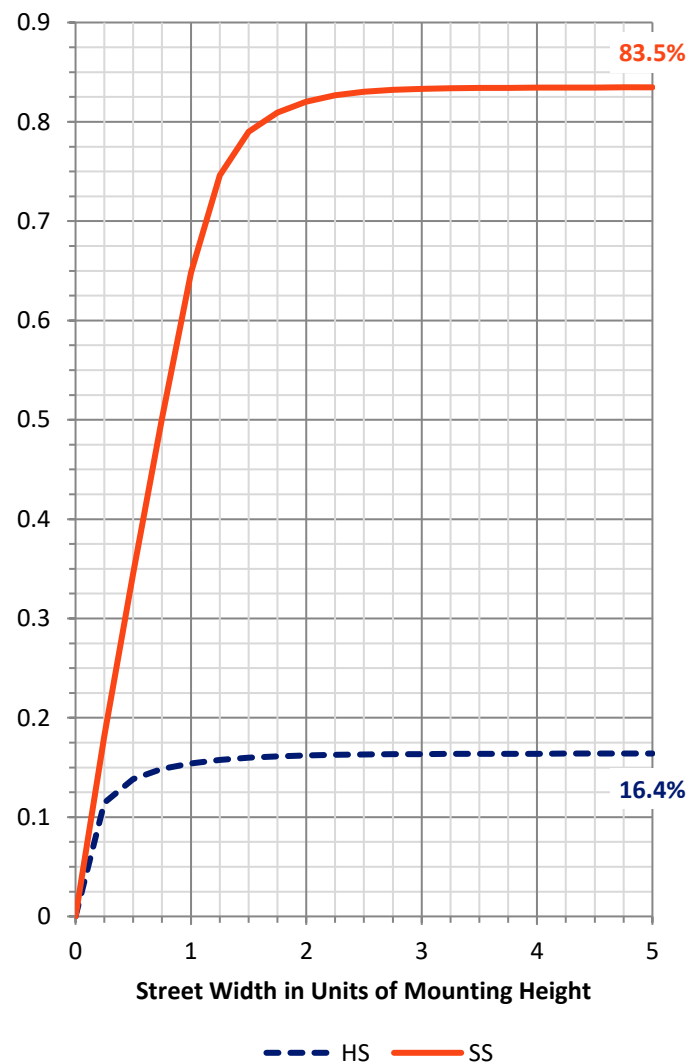
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3757.8	0.0	3757.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18954.2	0.0	18954.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	22712.0	0.0	22712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.9	3.1
10°-20°	1604.7	7.1
20°-30°	2280.6	10.0
30°-40°	3519.6	15.5
40°-50°	5518.4	24.3
50°-60°	6410.4	28.2
60°-70°	2422.2	10.7
70°-80°	230.3	1.0
80°-90°	25.9	0.1
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°	22712.0	100.0
0°-180°	22712.0	100.0

Coefficient of Utilization



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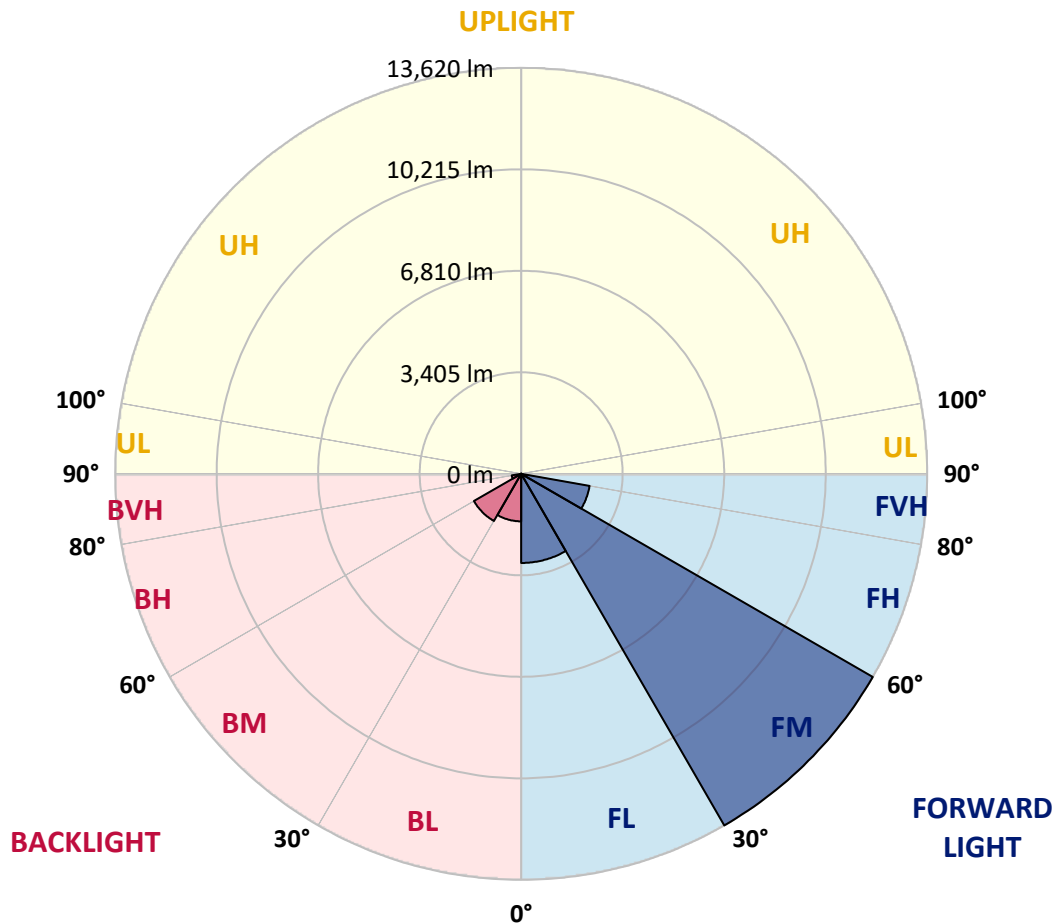
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2990.6	13.2			
FM	(30°-60°)	13619.7	60.0			
FH	(60°-80°)	2330.6	10.3			G2/5000
FVH	(80°-90°)	13.4	0.1			G1/100
BL	(0°-30°)	1594.6	7.0	B3/2500		
BM	(30°-60°)	1828.6	8.1	B2/2500		
BH	(60°-80°)	322.0	1.4	B1/500		G1/500
BVH	(80°-90°)	12.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8
2.5°	8115.5	8043.5	8115.5	8123.9	8174.7	8221.2	8191.6	8259.3	8221.2	8178.9	8166.2
5°	7459.6	7556.9	7561.2	7713.5	7679.6	7958.9	8081.6	8047.8	8255.1	8242.4	8212.8
7.5°	6871.5	6833.4	6884.2	7061.9	7286.1	7607.7	7785.4	7781.2	8077.4	8288.9	8267.8
10°	6325.7	6321.4	6427.2	6566.8	6757.2	7095.7	7341.1	7463.8	7925.1	8246.6	8293.2
12.5°	5957.5	5940.6	6054.9	6169.1	6469.5	6731.9	7045.0	7104.2	7633.1	8098.5	8174.7
15°	5716.4	5754.4	5762.9	5982.9	6173.3	6520.3	6765.7	6888.4	7497.7	7980.1	8272.0
17.5°	5674.0	5724.8	5729.1	5911.0	6114.1	6406.0	6621.8	6786.9	7383.5	8039.3	8276.2
20°	5758.7	5729.1	5754.4	5868.7	6067.6	6346.8	6659.9	6714.9	7345.4	8068.9	8322.8
22.5°	5999.9	5991.4	5927.9	6021.0	6160.6	6452.6	6748.8	6833.4	7455.4	8221.2	8360.9
25°	6266.4	6313.0	6253.7	6241.0	6338.3	6626.1	7019.6	7129.6	7823.5	8496.3	8479.3
27.5°	6765.7	6719.2	6719.2	6659.9	6634.5	6774.2	7311.5	7493.5	8233.9	8851.7	8614.7
30°	7243.8	7294.6	7256.5	7277.7	7108.4	7095.7	7726.2	7950.4	8961.7	9393.3	8902.5
32.5°	8001.2	7933.5	7997.0	7942.0	7717.7	7489.2	8288.9	8521.7	9841.8	10015.3	9334.0
35°	8631.7	8602.0	8872.8	8864.4	8500.5	8276.2	8885.5	9232.5	10455.3	10760.0	9841.8
37.5°	9528.7	9473.7	9782.6	9930.6	9604.8	9270.6	9740.2	10142.2	11026.5	11356.6	10362.2
40°	10451.1	10590.7	11005.4	11250.8	10903.8	10459.5	10785.3	10908.1	11407.3	11745.8	10717.6
42.5°	11618.9	11822.0	12245.1	12456.7	12427.1	11944.7	11847.4	11843.1	11682.4	11635.8	10980.0
45°	12740.2	12664.0	13315.6	13776.8	14149.2	14009.5	12871.3	12744.4	12118.2	11800.8	11047.7
47.5°	13231.0	13205.6	13649.9	14470.7	15740.1	15913.6	14360.7	13869.9	12854.4	12494.8	11415.8
50°	12596.3	12727.5	13167.5	14077.2	16023.6	17347.9	16188.6	15528.5	13713.3	13341.0	12287.4
52.5°	10523.0	10611.9	11030.8	12185.9	15058.9	18194.2	17940.3	17559.5	15291.6	14673.8	13806.4
54°	8652.8	8889.8	9118.3	10277.6	13341.0	17724.5	18900.8	18608.8	16319.8	15782.4	14762.7
55°	7535.8	7675.4	7840.4	8995.5	12152.0	16929.1	18790.8	18816.2	17009.5	16129.4	15405.8
57.5°	5504.8	5602.1	5432.9	5944.8	8343.9	13747.2	17187.2	17872.6	17940.3	16649.8	15799.3
60°	4205.8	4248.1	4057.7	4138.1	5187.5	9435.6	13294.5	14119.5	16184.4	14551.1	13383.3
62.5°	3262.3	3270.7	3266.5	3406.1	3575.4	5551.3	8314.3	9046.3	11157.7	10332.6	9088.6
65°	2403.3	2365.2	2432.9	2856.1	3050.7	3490.7	4379.3	4912.4	6063.3	5119.8	3660.0
67.5°	1557.1	1569.8	1637.5	2124.1	2614.9	2678.4	2695.3	2653.0	2657.2	1464.0	918.2
70°	935.1	956.3	935.1	1201.7	1870.2	1921.0	1756.0	1713.6	1337.1	347.0	342.7
72.5°	554.3	524.7	469.7	516.2	778.5	930.9	837.8	833.5	524.7	203.1	203.1
75°	232.7	211.6	173.5	156.6	207.3	198.9	198.9	177.7	139.6	135.4	126.9
77.5°	46.5	46.5	33.8	38.1	50.8	59.2	71.9	71.9	84.6	84.6	80.4
80°	0.0	4.2	12.7	25.4	38.1	55.0	63.5	63.5	71.9	71.9	59.2
82.5°	0.0	4.2	12.7	25.4	33.8	50.8	63.5	63.5	71.9	76.2	63.5
85°	0.0	4.2	12.7	21.2	33.8	42.3	42.3	38.1	29.6	25.4	16.9
87.5°	0.0	0.0	4.2	8.5	4.2	8.5	8.5	8.5	8.5	8.5	8.5
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°	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8	8157.8
2.5°	8195.8	8191.6	8090.1	7925.1	7887.0	7747.3	7730.4	7645.8	7692.3	7535.8	7518.9
5°	8128.1	8077.4	7954.7	7848.9	7540.0	7320.0	7146.5	6934.9	6812.2	6833.4	6753.0
7.5°	8225.5	8094.3	7878.5	7510.4	7133.8	6748.8	6541.4	6109.9	5953.3	5720.6	5686.7
10°	8123.9	8026.6	7692.3	7083.0	6562.6	6008.3	5521.7	5043.6	4679.7	4523.2	4489.3
12.5°	8115.5	7946.2	7387.7	6710.7	5957.5	5162.1	4455.5	3858.9	3499.2	3296.1	3249.6
15°	7984.3	7781.2	7045.0	6135.3	5094.4	4104.3	3334.2	2758.7	2483.7	2365.2	2399.1
17.5°	7997.0	7692.3	6702.2	5526.0	4243.9	3012.6	2276.4	1980.2	1908.3	1937.9	1937.9
20°	7984.3	7493.5	6287.6	4823.6	3249.6	2090.2	1671.3	1565.5	1612.1	1705.2	1684.0
22.5°	7916.6	7400.4	5906.8	4083.1	2390.6	1548.6	1341.3	1345.5	1417.5	1531.7	1557.1
25°	7967.4	7193.1	5424.4	3334.2	1743.3	1235.5	1163.6	1193.2	1269.4	1354.0	1370.9
27.5°	7929.3	7045.0	4920.9	2589.5	1273.6	1062.0	1057.8	1091.7	1125.5	1189.0	1189.0
30°	7971.6	6909.6	4425.8	1925.2	1049.3	973.2	956.3	981.6	1015.5	1028.2	1024.0
32.5°	8128.1	6808.0	3854.6	1438.6	926.6	888.6	888.6	888.6	884.3	901.2	905.5
35°	8470.9	6824.9	3351.1	1112.8	846.2	816.6	803.9	787.0	778.5	787.0	791.2
37.5°	8843.2	6816.5	2830.7	947.8	787.0	761.6	732.0	706.6	702.4	710.8	698.1
40°	9008.2	6896.9	2348.3	850.5	732.0	702.4	655.8	634.7	638.9	647.4	638.9
42.5°	9232.5	6922.3	2035.2	774.3	681.2	634.7	605.1	579.7	575.4	588.1	583.9
45°	9228.3	6778.4	1705.2	732.0	634.7	583.9	545.8	524.7	524.7	533.1	537.4
47.5°	9499.1	6757.2	1464.0	693.9	600.8	550.1	503.5	486.6	482.4	482.4	473.9
50°	10129.5	7053.4	1277.8	651.6	558.5	512.0	473.9	452.7	435.8	427.4	423.1
52.5°	11360.8	7975.8	1134.0	600.8	512.0	473.9	440.0	423.1	402.0	380.8	376.6
54°	12554.0	8927.8	1125.5	558.5	473.9	448.5	418.9	410.4	385.0	355.4	347.0
55°	13091.4	9482.1	1155.1	524.7	448.5	431.6	406.2	397.7	372.3	338.5	334.3
57.5°	13535.6	9697.9	1138.2	435.8	406.2	402.0	380.8	368.1	338.5	292.0	283.5
60°	10895.4	7332.7	816.6	385.0	372.3	363.9	347.0	338.5	300.4	249.6	245.4
62.5°	6884.2	4218.5	520.4	338.5	325.8	313.1	292.0	283.5	249.6	198.9	186.2
65°	2932.2	1747.5	351.2	300.4	279.3	258.1	241.2	228.5	198.9	148.1	143.9
67.5°	761.6	622.0	292.0	262.3	232.7	203.1	190.4	169.2	135.4	101.5	97.3
70°	342.7	313.1	245.4	220.0	186.2	156.6	139.6	118.5	88.9	67.7	63.5
72.5°	203.1	198.9	186.2	165.0	139.6	118.5	101.5	80.4	59.2	38.1	38.1
75°	126.9	122.7	126.9	114.2	97.3	88.9	76.2	55.0	33.8	16.9	16.9
77.5°	76.2	76.2	76.2	71.9	67.7	67.7	55.0	33.8	16.9	4.2	4.2
80°	59.2	59.2	63.5	59.2	59.2	59.2	46.5	25.4	8.5	0.0	0.0
82.5°	59.2	63.5	71.9	67.7	59.2	50.8	42.3	25.4	8.5	0.0	0.0
85°	16.9	12.7	21.2	29.6	42.3	38.1	29.6	21.2	8.5	0.0	0.0
87.5°	8.5	8.5	8.5	8.5	4.2	4.2	4.2	4.2	4.2	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)