

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: P533251

Luminaire Tested: **GALN-SA8C-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26382 lumens
Efficiency: N/A
Efficacy: 61.5 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

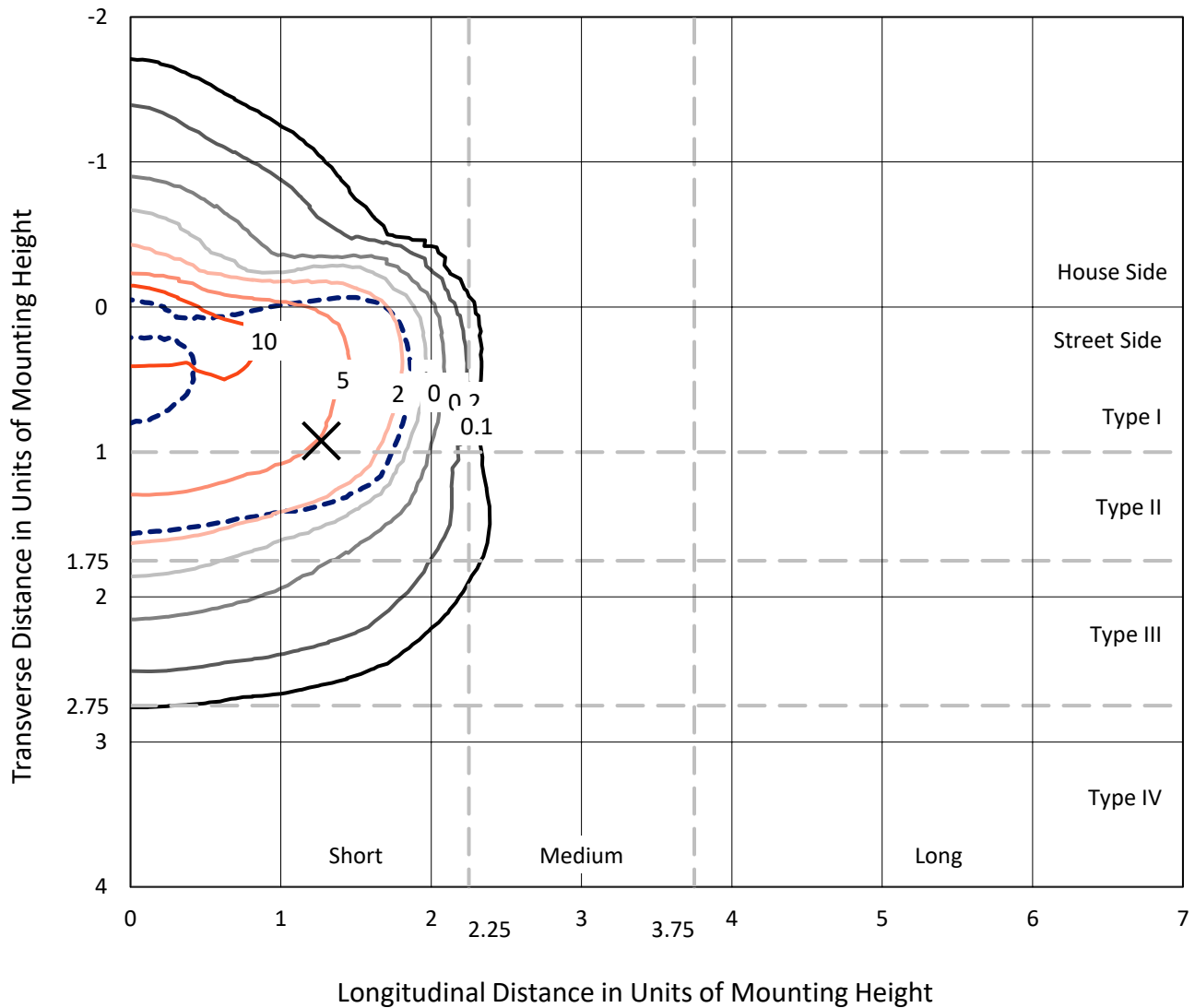
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

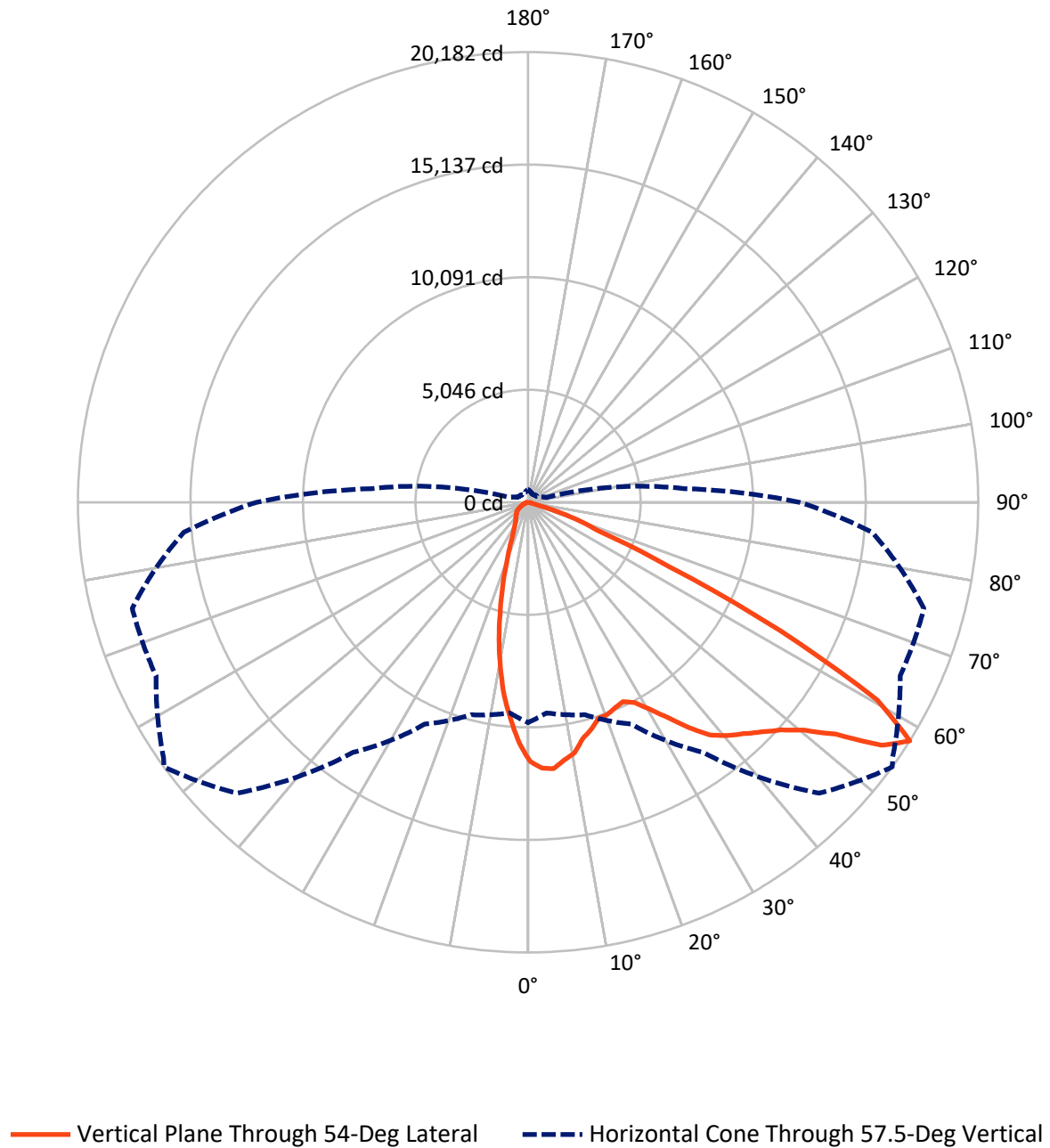
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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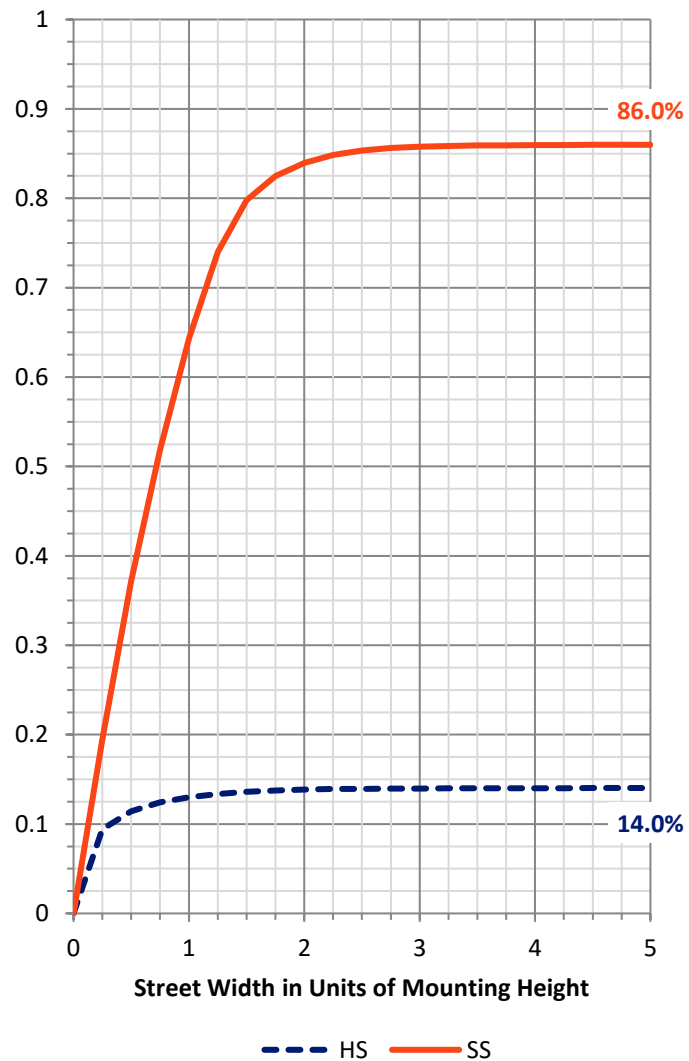
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3728.2	0.0	3728.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22653.8	0.0	22653.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	26382.0	0.0	26382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.5	3.7
10°-20°	2076.3	7.9
20°-30°	2751.5	10.4
30°-40°	3998.7	15.2
40°-50°	5929.6	22.5
50°-60°	7414.7	28.1
60°-70°	2924.8	11.1
70°-80°	291.2	1.1
80°-90°	22.6	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°	26382.0	100.0
0°-180°	26382.0	100.0

Coefficient of Utilization



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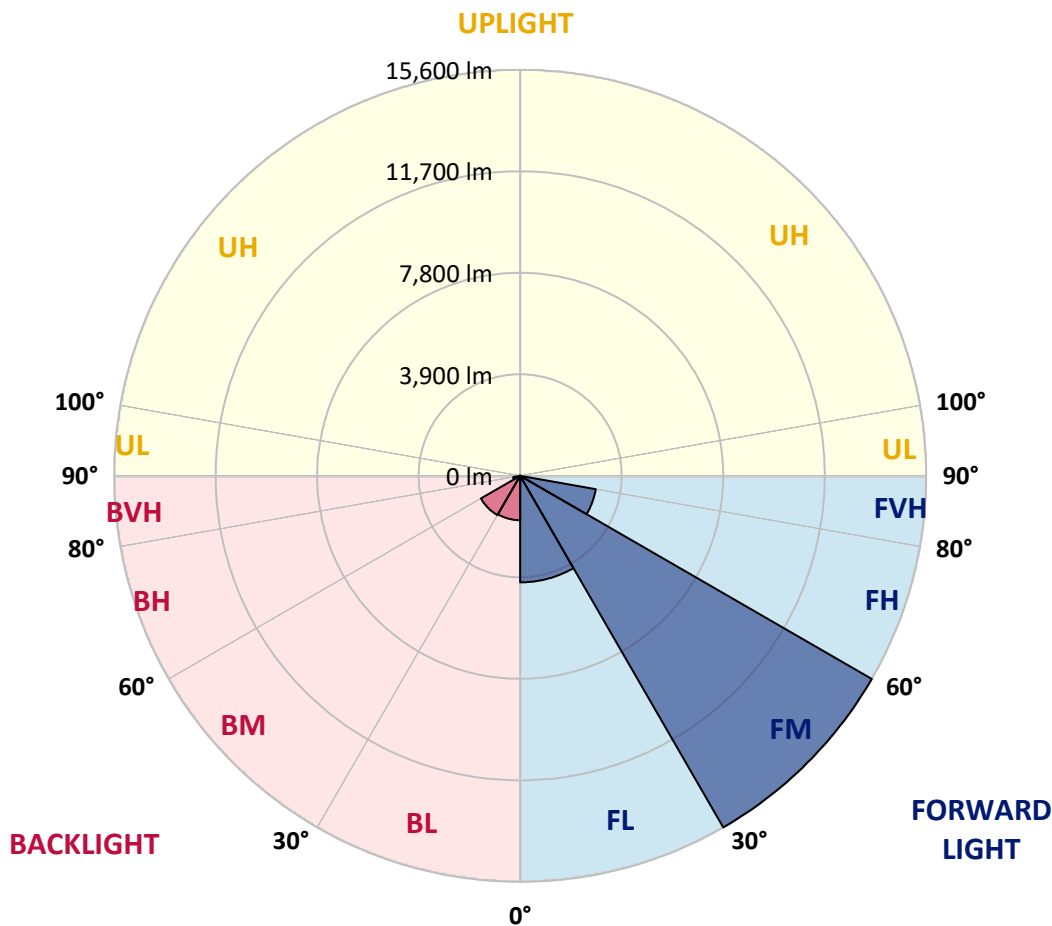
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4095.3	15.5			
FM	(30°-60°)	15599.6	59.1			
FH	(60°-80°)	2948.6	11.2			G2/5000
FVH	(80°-90°)	10.3	0.0			G1/100
BL	(0°-30°)	1705.1	6.5	B3/2500		
BM	(30°-60°)	1743.4	6.6	B2/2500		
BH	(60°-80°)	267.3	1.0	B1/500		G1/500
BVH	(80°-90°)	12.4	0.0			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°	54°	55°	65°	75°	85°
0°	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6
2.5°	12298.6	12171.1	12180.9	12136.7	12077.9	12122.0	11930.7	11974.8	11969.9	11709.9	11538.2
5°	11989.6	12126.9	11984.6	12102.4	11989.6	12112.2	11994.5	11906.2	11763.9	11572.6	11253.7
7.5°	11464.6	11332.2	11371.4	11518.6	11543.1	11817.9	11670.7	11783.5	11724.6	11346.9	10910.3
10°	10409.9	10380.5	10576.7	10772.9	11013.3	11307.7	11420.5	11356.7	11312.6	11170.3	10586.5
12.5°	9600.5	9683.9	9679.0	10002.7	10409.9	10576.7	10871.1	10861.2	11106.5	10841.6	10282.4
15°	8830.3	8874.4	9080.5	9281.6	9732.9	10208.8	10571.8	10620.9	10915.2	10728.8	10046.9
17.5°	8359.3	8295.6	8457.4	8697.8	9159.0	9782.0	10184.3	10302.0	10704.3	10665.0	9777.1
20°	7893.3	7893.3	8025.7	8310.3	8732.2	9433.7	10149.9	10115.6	10704.3	10591.4	9487.6
22.5°	7736.3	7814.8	7849.1	8065.0	8565.4	9168.8	10002.7	10066.5	10787.7	10557.1	9360.1
25°	7952.2	7849.1	7858.9	8030.6	8501.6	9041.2	9894.8	10037.1	10939.7	10728.8	9257.1
27.5°	7986.5	8089.5	8118.9	8236.7	8550.7	9080.5	10164.6	10454.1	11317.5	11131.1	9286.5
30°	8285.7	8388.8	8383.9	8585.0	8800.8	9399.3	10768.0	10826.9	12097.5	11636.3	9468.0
32.5°	8648.8	8756.7	8791.0	9026.5	9198.2	9983.1	11503.9	11656.0	12848.1	12431.1	9943.9
35°	9100.1	9060.8	9217.8	9453.3	9821.2	10836.7	12401.6	12656.7	13657.5	13461.3	10434.4
37.5°	9664.2	9615.2	9767.3	10149.9	10650.3	11847.3	13230.7	13397.5	14246.2	14417.9	11342.0
40°	10061.6	10081.2	10542.4	11057.5	11587.3	12808.8	13755.6	13917.5	14658.3	15310.7	12028.8
42.5°	10723.9	10846.5	11400.9	12028.8	12583.1	13529.9	14182.4	14339.4	14849.6	16027.0	12956.0
45°	11685.4	11631.4	12244.7	12946.2	13559.4	14280.5	14687.7	14633.7	14962.4	16738.3	13539.8
47.5°	12921.6	12931.5	13338.6	13937.1	14574.9	14933.0	15251.9	15060.5	15197.9	17488.9	14319.8
50°	13765.4	13839.0	14167.7	14780.9	15099.8	15649.2	16056.4	15938.7	15894.5	17940.2	14810.3
52.5°	13981.3	14202.0	14378.6	15143.9	15889.6	16757.9	17277.9	17528.1	16743.2	18092.3	15433.4
55°	12352.6	12548.8	13171.8	14221.7	16188.8	18514.1	19230.4	19235.3	17851.9	18769.2	15870.0
57.5°	9875.2	9477.8	9860.5	10974.1	13686.9	18440.6	20182.1	19951.5	18406.2	18371.9	15492.2
60°	6828.7	6730.6	6755.2	7196.7	9472.9	14668.1	17984.3	18283.6	16949.2	15923.9	12264.3
62.5°	5411.0	5327.6	5219.7	5170.6	5881.9	9139.3	12686.2	13108.1	11852.2	10326.5	7270.3
65°	4238.5	4189.5	4204.2	4400.4	4395.5	5185.3	6936.7	6765.0	5415.9	4003.1	2286.1
67.5°	2860.0	2933.6	2992.5	3586.1	3890.2	3610.6	3350.6	3252.5	1761.1	740.8	505.3
70°	1609.1	1618.9	1682.7	2241.9	2953.2	2801.2	2310.6	2310.6	878.1	269.8	289.4
72.5°	878.1	848.7	789.8	966.4	1314.7	1334.4	1030.2	897.7	260.0	176.6	161.9
75°	426.8	421.9	363.0	299.2	284.5	235.5	181.5	166.8	117.7	112.8	98.1
77.5°	88.3	83.4	44.2	44.2	49.1	54.0	68.7	68.7	83.4	83.4	68.7
80°	0.0	0.0	4.9	19.6	34.3	49.1	58.9	58.9	68.7	68.7	54.0
82.5°	0.0	0.0	4.9	14.7	29.4	44.2	54.0	58.9	68.7	73.6	58.9
85°	0.0	0.0	0.0	9.8	24.5	34.3	29.4	29.4	24.5	19.6	9.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6	11621.6
2.5°	11449.9	11440.1	11214.5	11086.9	10856.3	10655.2	10493.3	10375.6	10375.6	10302.0	10233.3
5°	11126.1	11042.8	10562.0	10252.9	9816.3	9492.5	9271.8	9100.1	8830.3	8903.9	8614.4
7.5°	10723.9	10512.9	9875.2	9404.2	8800.8	8339.7	7868.8	7451.8	7049.5	6868.0	6966.1
10°	10292.2	9924.3	9065.8	8320.1	7569.5	6725.7	6176.3	5509.1	5097.0	5072.5	4964.6
12.5°	9835.9	9419.0	8374.0	7343.8	6357.8	5342.3	4503.4	3880.4	3600.8	3291.7	3350.6
15°	9492.5	8874.4	7603.8	6362.7	5052.9	4027.6	3183.8	2703.0	2438.1	2364.6	2340.0
17.5°	9119.7	8457.4	6818.9	5317.8	3963.8	2899.3	2291.0	2060.4	1957.4	1957.4	1942.7
20°	8732.2	7986.5	6038.9	4346.5	2972.9	2163.4	1834.7	1761.1	1756.2	1751.3	1751.3
22.5°	8477.1	7446.9	5332.5	3453.6	2241.9	1731.7	1594.4	1564.9	1584.5	1643.4	1643.4
25°	8207.3	6926.9	4552.5	2663.8	1736.6	1486.4	1407.9	1427.6	1476.6	1530.6	1511.0
27.5°	7932.5	6588.4	3816.6	2089.8	1422.7	1300.0	1270.6	1314.7	1368.7	1417.8	1403.0
30°	7868.8	6225.3	3120.0	1584.5	1221.5	1133.2	1152.8	1192.1	1246.1	1265.7	1285.3
32.5°	7966.9	5940.8	2555.9	1300.0	1064.5	1040.0	1040.0	1059.6	1094.0	1138.1	1123.4
35°	8246.5	5778.9	2021.2	1128.3	976.2	951.7	946.8	966.4	986.0	1000.8	986.0
37.5°	8673.3	5651.4	1653.2	1000.8	917.4	878.1	868.3	863.4	883.0	887.9	897.7
40°	9217.8	5720.1	1403.0	922.3	858.5	814.3	784.9	784.9	784.9	799.6	804.5
42.5°	9806.5	5813.3	1211.7	878.1	804.5	750.6	721.1	711.3	721.1	740.8	735.9
45°	10424.6	5994.8	1089.1	809.4	755.5	686.8	647.6	637.7	662.3	701.5	696.6
47.5°	11003.5	6254.8	995.9	765.3	706.4	642.6	593.6	583.8	627.9	681.9	686.8
50°	11582.4	6706.1	961.5	731.0	672.1	598.5	554.3	544.5	593.6	662.3	677.0
52.5°	12249.6	7191.8	937.0	686.8	632.8	564.2	515.1	505.3	559.3	647.6	652.5
55°	12686.2	7603.8	917.4	608.3	559.3	510.2	470.9	466.0	524.9	603.4	623.0
57.5°	12176.0	7029.9	848.7	529.8	475.9	451.3	417.0	417.0	466.0	539.6	554.3
60°	9232.5	4626.1	603.4	426.8	402.3	387.6	372.8	372.8	412.1	466.0	470.9
62.5°	5406.1	2492.1	387.6	343.4	343.4	328.7	304.2	304.2	343.4	372.8	377.7
65°	1604.2	799.6	314.0	294.3	289.4	264.9	240.4	235.5	264.9	279.6	274.7
67.5°	461.1	367.9	260.0	245.3	240.4	201.1	186.4	181.5	186.4	176.6	171.7
70°	274.7	250.2	201.1	206.0	181.5	147.2	132.5	127.5	117.7	103.0	93.2
72.5°	152.1	152.1	147.2	157.0	127.5	98.1	83.4	68.7	54.0	44.2	39.2
75°	93.2	98.1	103.0	107.9	83.4	63.8	54.0	34.3	19.6	9.8	9.8
77.5°	63.8	68.7	73.6	78.5	68.7	58.9	44.2	24.5	4.9	0.0	0.0
80°	49.1	54.0	63.8	68.7	73.6	78.5	58.9	24.5	4.9	0.0	0.0
82.5°	54.0	58.9	73.6	68.7	68.7	68.7	54.0	24.5	4.9	0.0	0.0
85°	9.8	14.7	24.5	24.5	34.3	44.2	34.3	9.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)