

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: P301951

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SL4-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16728.9 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 193
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: 25 FT

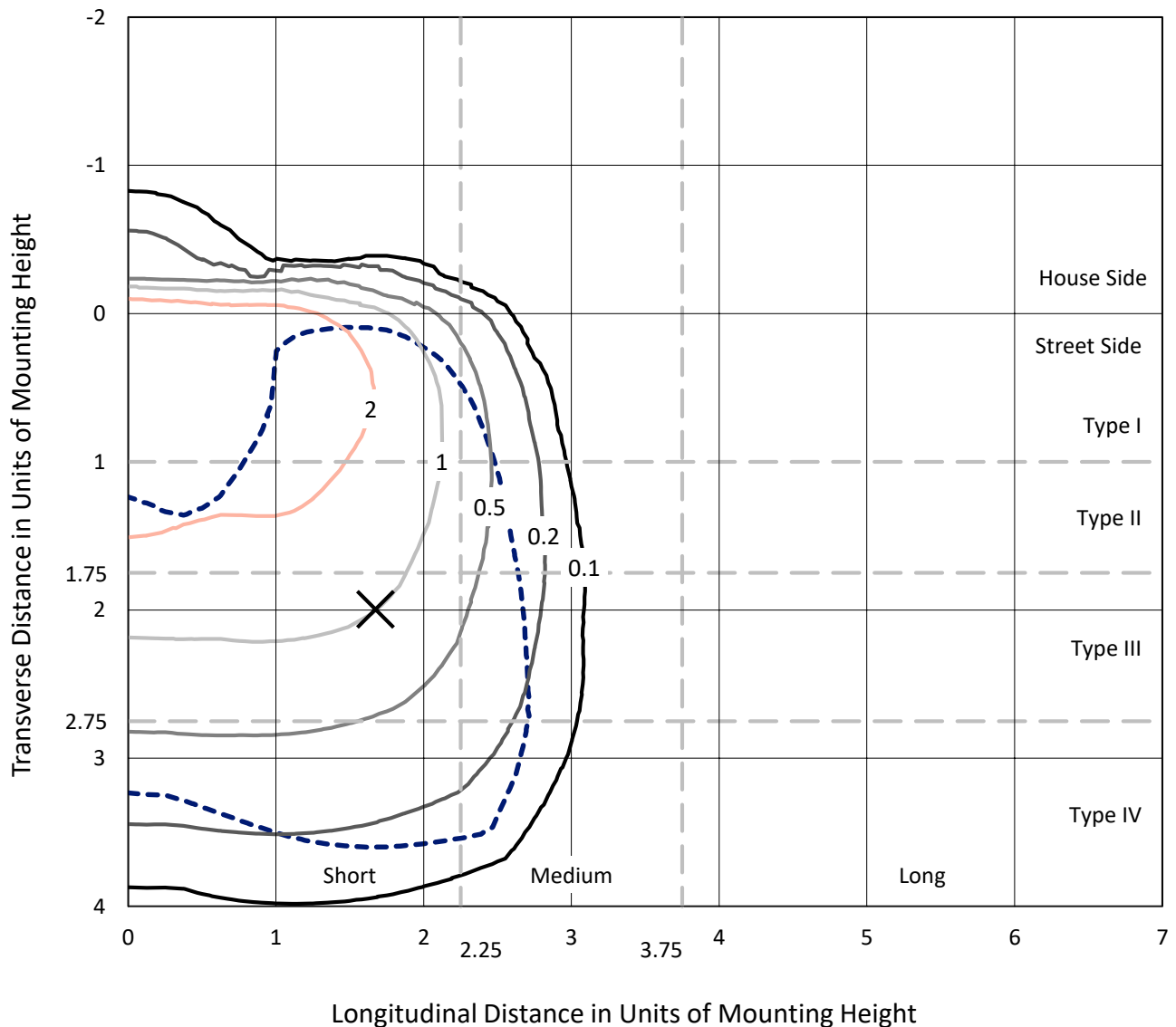


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

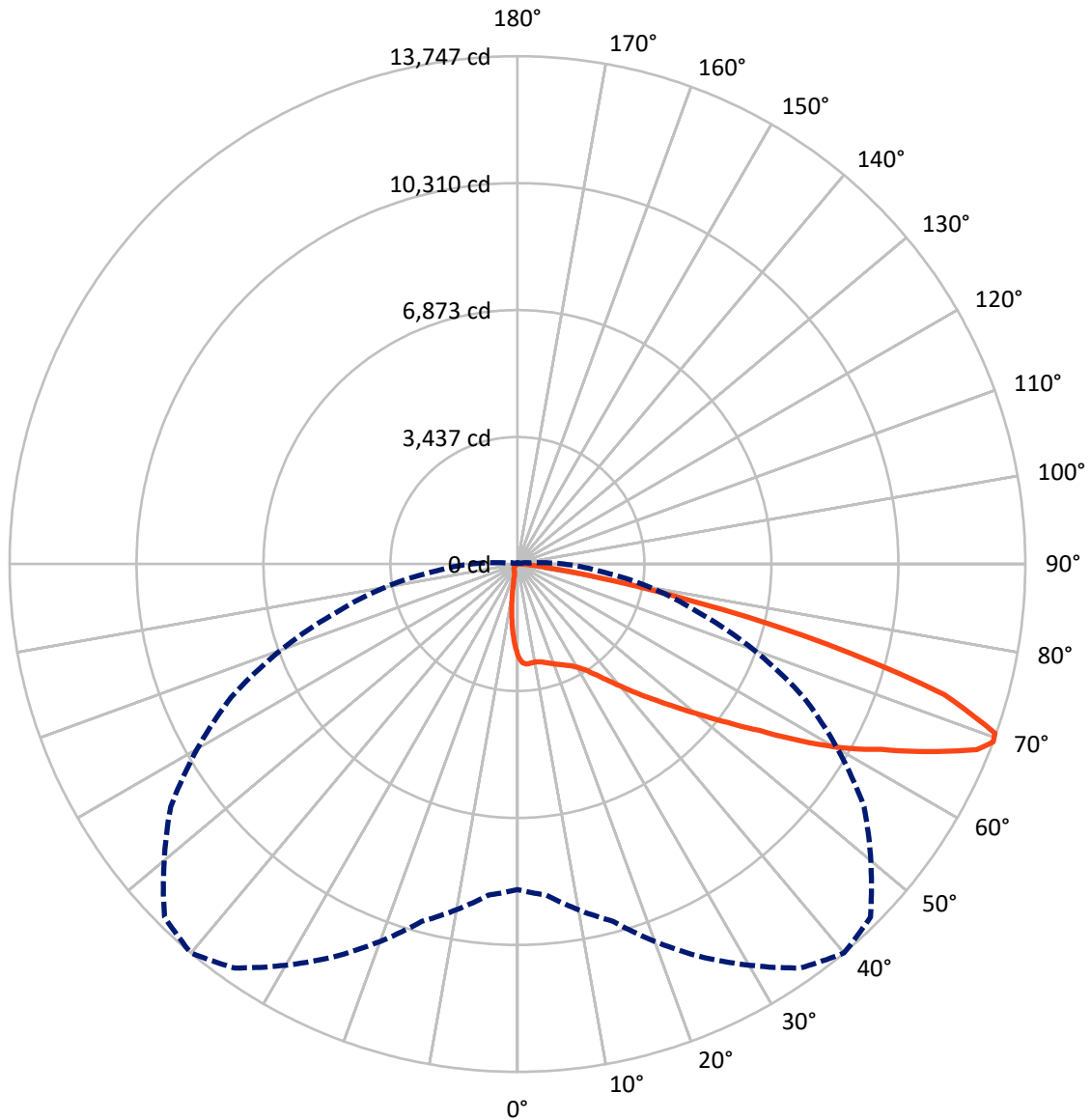


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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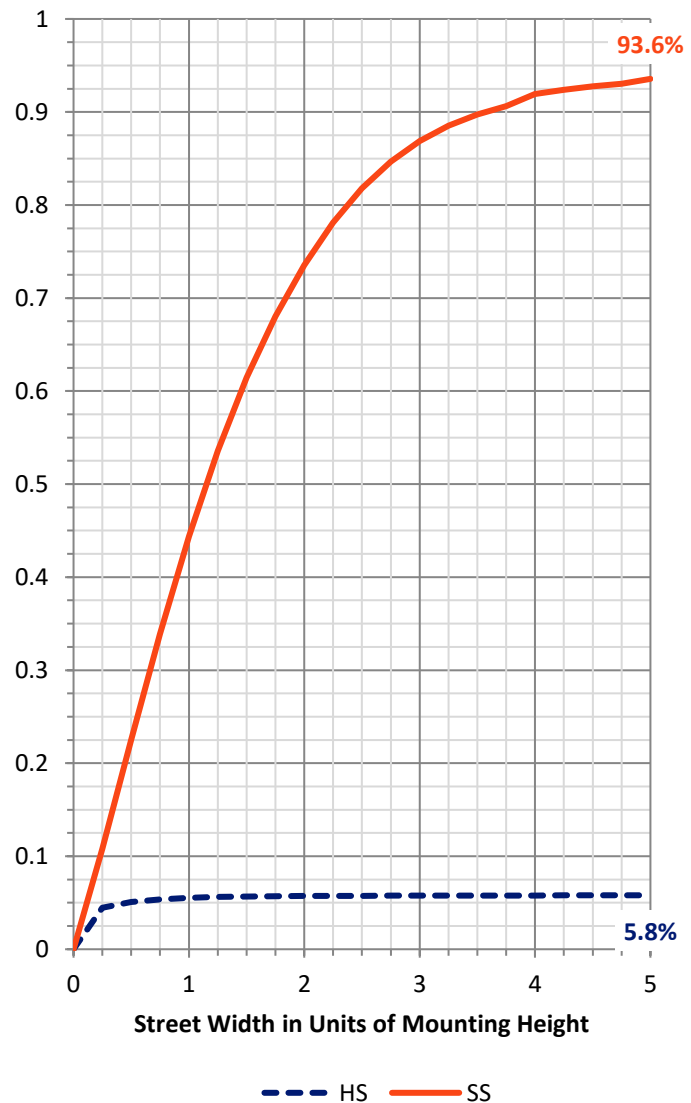
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	978.7	0.0	978.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	15750.2	0.0	15750.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	16728.9	0.0	16728.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	1.2
10°-20°	498.4	3.0
20°-30°	839.4	5.0
30°-40°	1374.1	8.2
40°-50°	2379.3	14.2
50°-60°	3747.6	22.4
60°-70°	4894.2	29.3
70°-80°	2520.7	15.1
80°-90°	272.7	1.6
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°	16728.9	100.0
0°-180°	16728.9	100.0

Coefficient of Utilization



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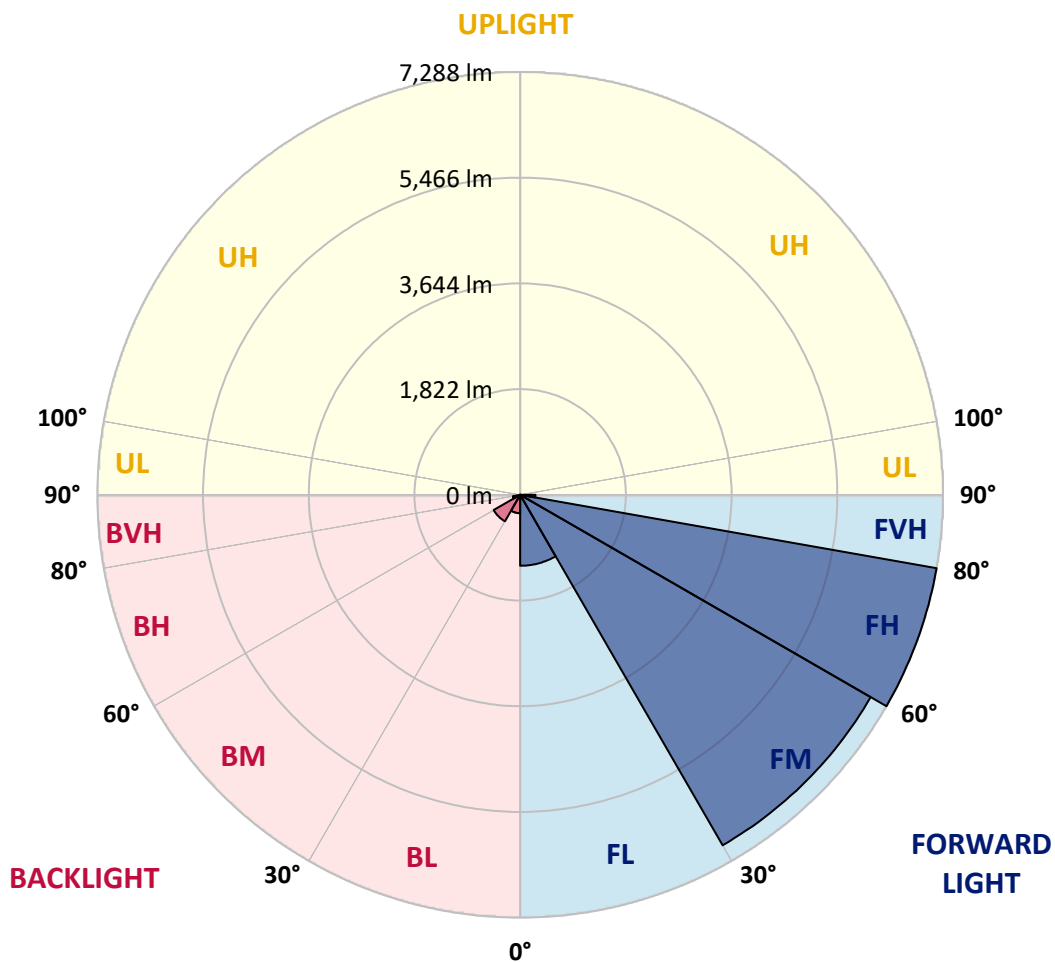
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1223.4	7.3			
FM	(30°-60°)	6974.9	41.7			
FH	(60°-80°)	7287.8	43.6			G3/7500
FVH	(80°-90°)	264.1	1.6			G3/500
BL	(0°-30°)	317.0	1.9	B1/500		
BM	(30°-60°)	526.0	3.1	B1/1000		
BH	(60°-80°)	127.1	0.8	B1/500		G1/500
BVH	(80°-90°)	8.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4
2.5°	2744.3	2729.4	2720.4	2708.5	2693.6	2680.6	2675.6	2638.8	2603.9	2556.1	2501.4
5°	2795.1	2790.2	2774.2	2758.3	2740.4	2720.4	2709.5	2665.7	2615.9	2546.2	2450.6
7.5°	2800.1	2794.1	2774.2	2752.3	2727.4	2703.5	2684.6	2640.8	2595.0	2524.3	2407.8
10°	2792.1	2785.2	2770.2	2746.3	2715.5	2692.6	2673.6	2631.8	2593.0	2529.3	2399.8
12.5°	2783.2	2776.2	2769.2	2757.3	2730.4	2714.5	2698.5	2658.7	2623.9	2570.1	2428.7
15°	2792.1	2788.2	2796.1	2791.1	2776.2	2762.3	2746.3	2710.5	2678.6	2633.8	2481.5
17.5°	2830.0	2830.0	2854.9	2857.9	2843.9	2824.0	2801.1	2765.3	2738.4	2700.5	2544.2
20°	2918.6	2915.6	2947.5	2953.5	2919.6	2888.7	2854.9	2811.1	2790.2	2766.3	2605.9
22.5°	3071.0	3057.0	3075.9	3070.0	3003.2	2955.5	2913.6	2859.9	2848.9	2837.9	2674.6
25°	3269.1	3261.2	3274.1	3215.3	3097.8	3033.1	2983.3	2922.6	2922.6	2933.5	2752.3
27.5°	3556.9	3527.0	3483.2	3379.6	3203.4	3120.7	3067.0	3002.3	3019.2	3060.0	2854.9
30°	3851.6	3818.8	3718.2	3558.9	3331.9	3245.2	3182.5	3114.8	3154.6	3229.3	2992.3
32.5°	4142.4	4105.6	3963.2	3762.0	3516.1	3429.4	3368.7	3294.0	3360.7	3486.2	3193.4
35°	4424.2	4391.4	4227.1	3990.1	3761.0	3689.3	3633.6	3568.8	3654.5	3829.7	3477.2
37.5°	4740.9	4705.0	4504.9	4248.0	4058.8	4007.0	3966.2	3901.4	4050.8	4307.7	3872.6
40°	5130.2	5069.5	4799.6	4543.7	4403.3	4378.4	4350.5	4341.6	4573.6	4929.1	4399.3
42.5°	5576.3	5476.7	5108.3	4855.4	4781.7	4799.6	4792.6	4832.5	5227.8	5701.8	5040.6
45°	6022.4	5894.0	5451.9	5188.0	5197.9	5260.7	5299.5	5458.8	6047.3	6588.0	5730.7
47.5°	6400.8	6274.4	5781.5	5547.4	5666.9	5790.4	5896.0	6197.7	6889.7	7460.3	6267.4
50°	6724.4	6605.0	6131.0	5942.8	6211.6	6410.8	6582.1	7029.2	7795.9	8124.5	6643.8
52.5°	6989.3	6909.7	6493.4	6395.8	6834.0	7125.7	7376.7	7912.4	8598.5	8664.2	6936.5
55°	7247.2	7190.5	6882.8	6934.6	7564.9	7962.2	8279.8	8849.4	9289.6	9114.3	7217.4
57.5°	7544.0	7492.2	7326.9	7617.7	8525.8	9025.7	9372.2	9679.9	9898.0	9574.3	7482.2
60°	7846.7	7816.8	7820.8	8376.4	9629.1	10109.1	10300.3	10379.9	10495.4	10007.5	7497.2
62.5°	8135.5	8192.2	8385.4	9220.8	10685.6	11054.1	11150.7	11229.3	11093.9	10076.2	6926.6
65°	8624.4	8717.0	9178.0	10351.0	11847.7	12242.0	12341.6	12071.7	11188.5	9188.0	5634.1
67.5°	8863.4	9032.6	9855.2	11404.6	12974.9	13413.0	13376.2	12126.5	10040.4	7006.3	3615.6
69°	8813.6	8993.8	10011.5	11727.2	13349.3	13746.6	13512.6	11456.4	8553.7	5075.4	2219.6
70°	8616.4	8798.6	9930.8	11715.3	13397.1	13711.8	13259.7	10628.9	7232.3	3711.2	1388.1
72.5°	7195.4	7352.8	8816.6	10589.0	12341.6	12085.7	11092.9	7363.7	3524.0	1010.7	312.7
75°	4429.2	4516.8	6326.1	7977.1	9321.4	8664.2	7390.6	3663.4	1050.5	285.8	173.3
77.5°	2340.1	2379.9	3463.3	4702.0	5908.9	4889.2	3787.9	1428.9	483.9	179.2	125.5
80°	1383.1	1413.0	1865.1	2149.9	2557.1	2135.9	1514.6	877.3	346.5	112.5	111.5
82.5°	791.6	810.6	1352.3	1194.9	1007.7	860.3	753.8	831.5	208.1	75.7	115.5
85°	290.8	294.7	760.8	909.1	599.5	356.5	374.4	689.1	55.8	47.8	90.6
87.5°	135.4	132.4	391.3	556.6	350.5	226.0	291.8	151.4	21.9	30.9	24.9
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°	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4
2.5°	2469.5	2432.7	2366.0	2297.2	2227.5	2173.8	2121.0	2079.2	2065.2	2039.3	2041.3
5°	2393.8	2326.1	2186.7	2045.3	1897.9	1776.5	1661.9	1569.3	1524.5	1478.7	1478.7
7.5°	2328.1	2229.5	2011.5	1781.4	1543.4	1343.3	1163.1	1027.6	953.0	893.2	892.2
10°	2303.2	2169.8	1865.1	1535.5	1203.9	931.0	717.0	579.5	508.8	463.0	461.0
12.5°	2314.2	2148.9	1752.6	1308.4	892.2	598.5	415.2	326.6	296.7	282.8	282.8
15°	2346.0	2142.9	1640.0	1086.4	630.3	374.4	275.8	251.9	249.9	249.9	249.9
17.5°	2384.9	2144.9	1524.5	870.3	429.2	267.9	238.0	235.0	237.0	237.0	237.0
20°	2424.7	2145.9	1400.1	670.2	302.7	233.0	224.0	223.1	225.0	225.0	226.0
22.5°	2473.5	2150.9	1275.6	500.9	249.9	220.1	213.1	213.1	214.1	214.1	213.1
25°	2529.3	2160.8	1146.1	371.4	228.0	211.1	205.1	204.1	205.1	204.1	203.1
27.5°	2599.0	2174.8	1001.7	290.8	218.1	202.1	197.2	197.2	196.2	195.2	194.2
30°	2686.6	2190.7	839.4	247.0	208.1	194.2	189.2	188.2	187.2	185.2	185.2
32.5°	2820.0	2225.5	679.1	224.0	197.2	183.2	179.2	179.2	177.2	175.3	174.3
35°	3025.2	2294.3	535.7	210.1	185.2	171.3	166.3	166.3	164.3	163.3	162.3
37.5°	3308.9	2398.8	416.2	197.2	173.3	158.3	153.3	152.4	150.4	148.4	147.4
40°	3686.3	2528.3	327.6	185.2	161.3	145.4	141.4	139.4	135.4	132.4	132.4
42.5°	4160.3	2675.6	265.9	172.3	147.4	133.4	130.4	127.5	120.5	117.5	116.5
45°	4656.2	2808.1	225.0	157.3	133.4	121.5	119.5	114.5	105.6	102.6	102.6
47.5°	5013.7	2838.9	198.2	143.4	120.5	108.5	107.5	98.6	90.6	88.6	87.6
50°	5236.8	2778.2	176.3	129.5	108.5	96.6	93.6	82.6	77.7	75.7	74.7
52.5°	5387.1	2669.7	158.3	117.5	97.6	85.6	78.7	70.7	66.7	64.7	64.7
55°	5507.6	2516.3	140.4	106.5	88.6	76.7	66.7	60.7	56.8	54.8	54.8
57.5°	5541.5	2308.2	122.5	97.6	79.7	67.7	56.8	52.8	47.8	46.8	46.8
60°	5295.5	1932.8	108.5	86.6	71.7	58.8	49.8	44.8	39.8	38.8	37.8
62.5°	4647.3	1495.6	95.6	76.7	62.7	50.8	42.8	36.8	32.9	32.9	32.9
65°	3544.9	1002.7	83.6	66.7	54.8	42.8	36.8	29.9	27.9	27.9	28.9
67.5°	2122.0	545.7	71.7	56.8	46.8	35.8	30.9	25.9	24.9	25.9	25.9
69°	1243.7	320.6	64.7	50.8	40.8	31.9	26.9	22.9	24.9	25.9	25.9
70°	767.7	216.1	59.7	45.8	36.8	28.9	24.9	21.9	23.9	24.9	24.9
72.5°	214.1	111.5	47.8	35.8	29.9	23.9	19.9	19.9	22.9	23.9	23.9
75°	139.4	82.6	36.8	26.9	22.9	18.9	16.9	18.9	21.9	22.9	22.9
77.5°	115.5	67.7	29.9	21.9	18.9	17.9	15.9	16.9	19.9	20.9	20.9
80°	105.6	47.8	23.9	19.9	16.9	15.9	14.9	13.9	17.9	18.9	18.9
82.5°	100.6	37.8	20.9	17.9	15.9	13.9	12.9	13.9	15.9	16.9	17.9
85°	62.7	24.9	18.9	16.9	13.9	12.9	12.9	12.9	14.9	15.9	15.9
87.5°	22.9	19.9	16.9	13.9	11.9	11.9	11.9	11.9	12.9	14.9	14.9
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)