

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: P269676

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T4FT-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51021.3 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

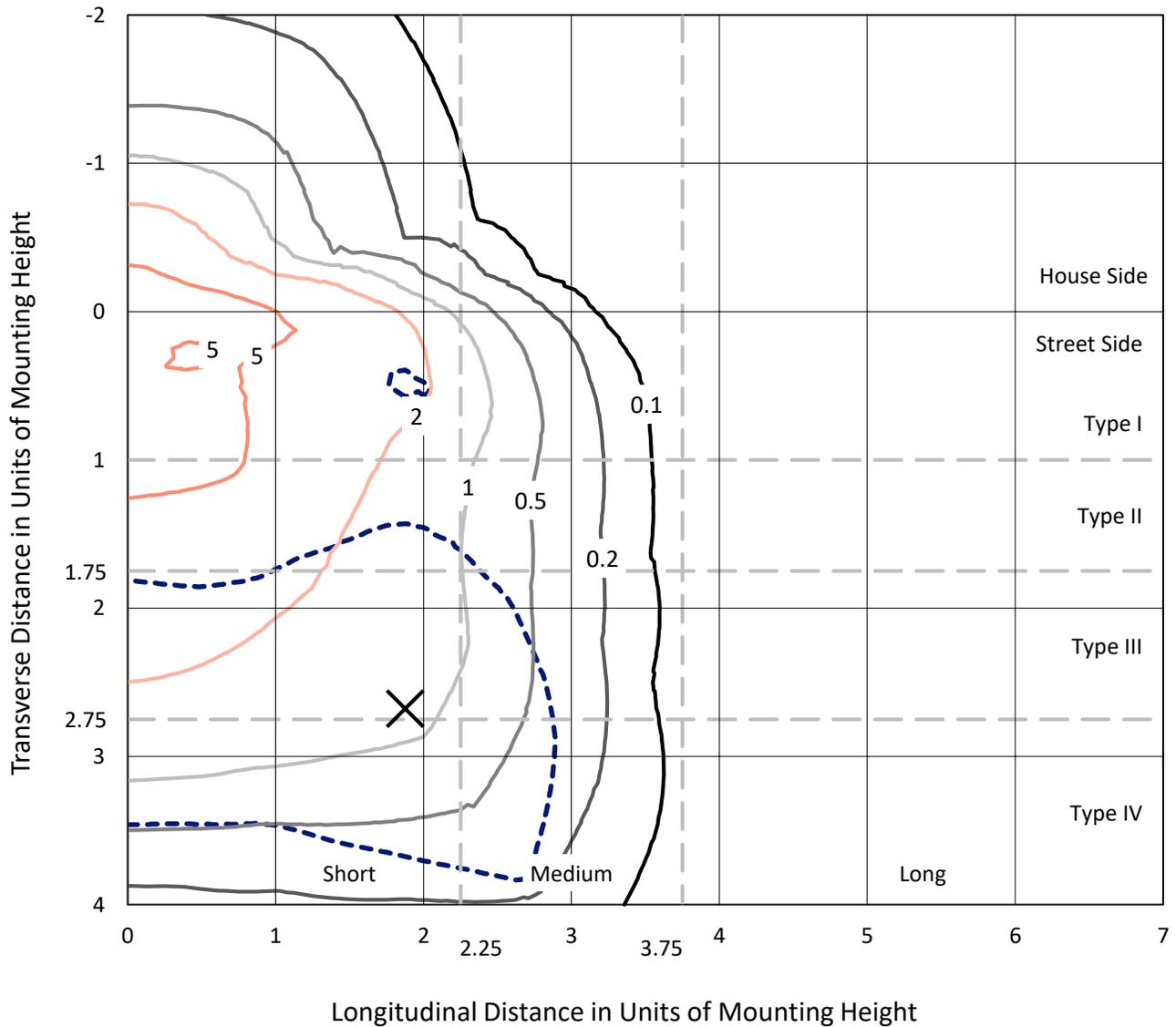


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

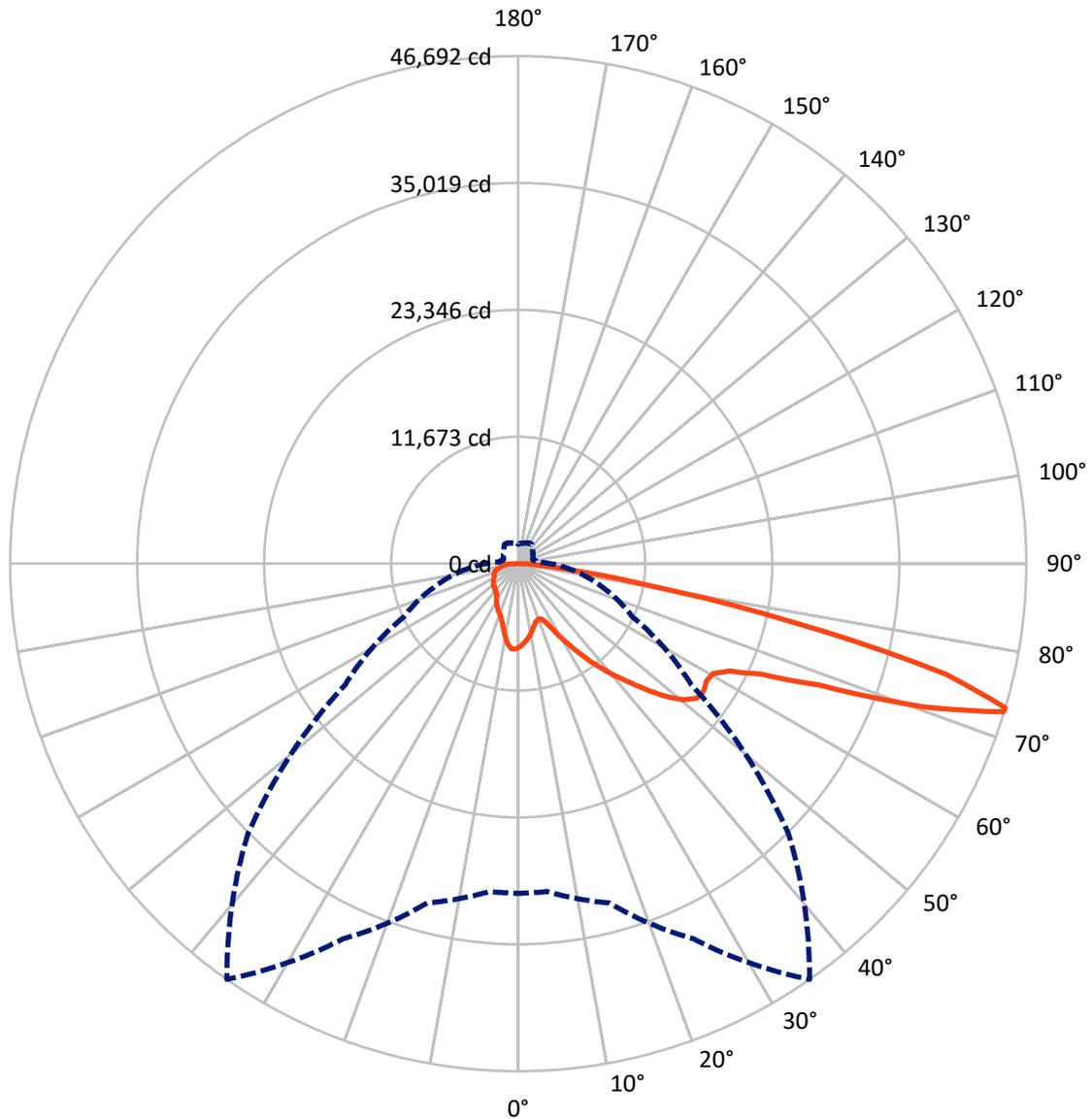


Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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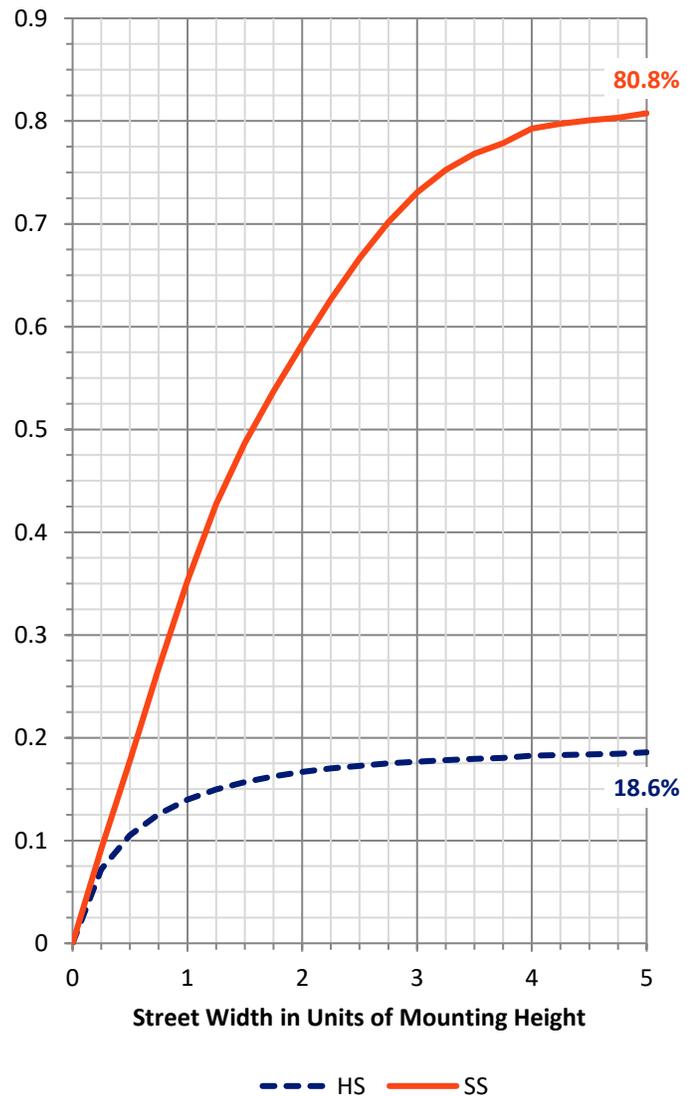
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9731.2	0.0	9731.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	41290.1	0.0	41290.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	51021.3	0.0	51021.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.1	1.4
10°-20°	1739.9	3.4
20°-30°	2812.9	5.5
30°-40°	4716.8	9.2
40°-50°	7270.7	14.3
50°-60°	9754.5	19.1
60°-70°	12994.9	25.5
70°-80°	9911.2	19.4
80°-90°	1123.4	2.2
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°	51021.3	100.0
0°-180°	51021.3	100.0



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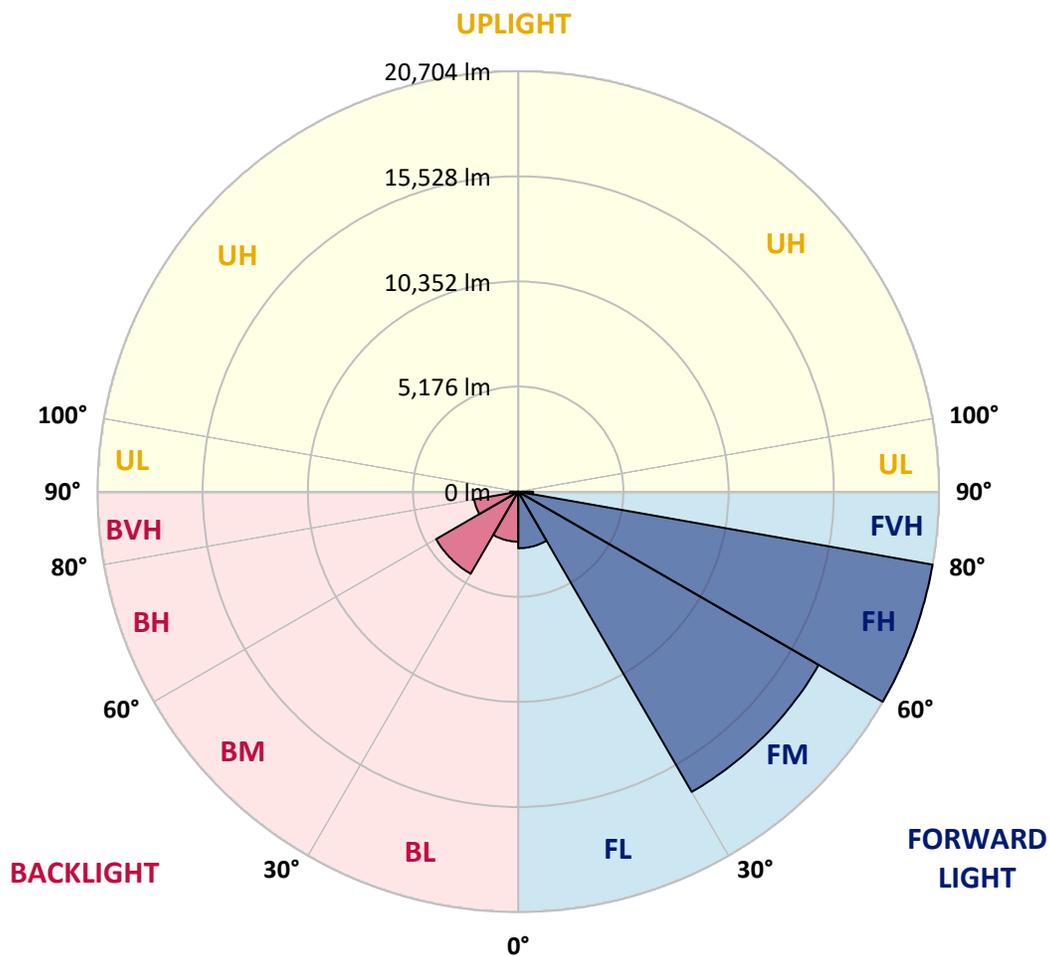
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2787.5	5.5			
FM	(30°-60°)	17072.1	33.5			
FH	(60°-80°)	20704.4	40.6			G5
FVH	(80°-90°)	726.1	1.4			G4/750
BL	(0°-30°)	2462.5	4.8	B3/2500		
BM	(30°-60°)	4669.9	9.2	B3/5000		
BH	(60°-80°)	2201.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	397.2	0.8			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°	45°	55°	65°	75°	85°	90°
0°	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7
2.5°	7397.0	7411.6	7394.5	7416.4	7453.2	7492.5	7519.4	7558.6	7602.6	7664.0	7678.6
5°	7049.0	7071.0	7071.0	7110.3	7181.3	7245.0	7303.8	7367.4	7460.7	7566.0	7607.6
7.5°	6666.7	6679.0	6701.0	6759.8	6862.8	6953.4	7036.8	7139.5	7267.0	7406.6	7480.1
10°	6206.1	6223.3	6257.7	6340.9	6480.6	6605.4	6725.6	6867.6	7029.3	7203.2	7296.5
12.5°	5880.2	5875.4	5890.0	5951.4	6073.8	6225.8	6399.6	6581.1	6779.5	6982.9	7095.5
15°	5770.1	5743.0	5686.7	5672.0	5738.2	5890.0	6091.0	6313.9	6551.6	6796.7	6936.3
17.5°	5838.7	5792.1	5637.8	5524.9	5515.2	5630.3	5843.6	6093.5	6367.8	6666.7	6840.8
20°	6269.8	6159.6	5779.9	5517.7	5427.0	5483.3	5669.6	5934.2	6257.7	6654.6	6877.5
22.5°	7301.3	7139.5	6333.5	5846.0	5539.7	5471.0	5610.8	5892.5	6269.8	6806.4	7090.6
25°	8803.3	8573.0	7284.1	6664.3	6032.2	5667.0	5698.9	5988.1	6443.8	7159.2	7502.3
27.5°	9989.2	9839.7	8526.4	7818.3	6928.9	6196.2	5985.6	6228.2	6799.0	7737.5	8087.8
30°	10694.7	10604.1	9854.3	9126.7	8073.1	7039.2	6534.5	6679.0	7355.2	8538.6	8827.7
32.5°	11513.0	11459.1	11091.6	10422.8	9308.0	8146.5	7404.2	7352.7	8100.0	9501.6	9633.9
35°	12360.8	12343.7	12128.0	11647.9	10633.4	9607.0	8558.2	8210.2	8911.0	10501.1	10417.9
37.5°	13149.7	13120.4	12995.4	12716.0	12020.3	11174.9	9734.4	9089.9	9785.7	11456.8	11086.7
40°	14602.7	14372.3	13943.6	13732.8	13421.8	12495.6	10667.8	9910.7	10692.3	12368.1	11665.0
42.5°	16374.0	15999.3	15200.5	14911.3	14867.3	13536.9	11304.8	10707.0	11606.2	13272.3	12233.4
45°	17768.3	17415.4	16726.9	16361.9	16523.6	14480.1	11944.4	11557.1	12547.0	14220.4	12819.1
47.5°	19255.3	18701.8	17790.3	17900.5	18253.3	15371.9	12596.0	12471.1	13578.5	15281.3	13546.7
50°	19309.3	18885.4	18486.1	19145.1	19694.0	16192.8	13412.0	13429.0	14840.3	16616.7	14514.5
52.5°	18189.6	18099.1	18733.6	19770.0	20561.3	16842.1	14340.5	14419.0	16455.0	18150.4	15577.8
55°	17797.6	17694.8	18427.3	19551.9	20679.0	17378.6	15347.5	15489.7	18407.7	19767.6	16614.2
57.5°	18753.1	18525.2	18574.3	19449.1	20392.2	17966.7	16445.1	16731.8	20529.4	21181.2	17280.7
60°	21423.8	20936.2	20010.0	19988.0	20546.7	18848.7	17714.2	18064.6	22734.7	21857.5	17020.9
62.5°	25170.0	24682.4	22947.7	21818.3	21734.9	20304.1	19272.5	19365.8	24008.6	20941.1	15435.7
65°	29225.0	28788.8	26850.8	25255.8	24486.4	22715.0	21083.2	19946.3	23592.1	18419.9	12662.1
67.5°	34147.2	33679.3	32013.2	30540.7	29800.7	26605.8	22354.9	19390.2	20948.5	14269.4	9102.2
70°	37589.7	37111.9	36455.2	37648.4	39459.0	32219.0	22519.0	17128.7	15646.4	9484.3	5478.5
72.5°	33098.6	32875.6	34073.7	39098.9	46640.4	35624.7	20355.6	12471.1	9087.4	5035.0	3170.5
73°	30325.1	30276.0	32319.4	38082.0	46691.8	35100.4	19407.3	11591.5	7793.9	4454.2	2898.6
75°	13693.8	14088.2	18567.0	29087.7	40566.5	28923.5	13659.4	6649.7	4402.9	3077.4	2187.9
77.5°	3290.5	3427.8	5809.2	13813.7	25618.4	17236.6	6189.1	3288.1	2815.2	2173.3	1597.5
80°	1401.4	1448.0	2237.0	5103.6	12061.9	6941.2	2851.8	2202.6	1947.9	1516.6	1119.6
82.5°	779.1	828.1	1269.1	2315.3	4868.4	2366.9	1739.6	1533.8	1281.4	913.8	727.6
85°	441.0	467.9	742.4	1293.6	2063.0	950.6	1041.2	1019.2	722.7	470.4	357.7
87.5°	208.2	225.5	357.7	600.2	808.6	372.3	529.2	583.1	453.3	286.6	186.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7	7700.7
2.5°	7695.8	7739.8	7791.4	7818.3	7842.8	7872.1	7901.6	7901.6	7906.5	7908.9
5°	7641.9	7732.6	7813.4	7847.8	7855.0	7855.0	7847.8	7808.4	7774.2	7788.9
7.5°	7529.2	7661.6	7730.2	7717.9	7624.8	7516.9	7426.3	7316.1	7259.7	7250.0
10°	7367.4	7519.4	7531.7	7409.1	7178.9	6948.5	6757.4	6571.2	6483.0	6461.0
12.5°	7188.6	7328.4	7250.0	6997.5	6627.5	6291.9	6049.4	5860.6	5777.4	5755.4
15°	7044.1	7139.5	6941.2	6544.2	6078.7	5723.6	5522.6	5383.0	5324.1	5306.9
17.5°	6968.2	6987.7	6625.1	6088.5	5593.6	5297.1	5172.3	5106.1	5084.0	5071.7
20°	7004.9	6867.6	6323.8	5664.6	5196.6	4988.5	4959.1	4941.8	4936.9	4929.5
22.5°	7188.6	6830.9	6046.9	5262.8	4848.8	4758.1	4782.7	4780.2	4775.3	4770.4
25°	7516.9	6862.8	5777.4	4880.6	4557.2	4537.6	4581.7	4581.7	4562.1	4562.1
27.5°	7950.5	6928.9	5476.0	4518.0	4292.6	4295.1	4329.3	4319.5	4297.5	4282.8
30°	8479.8	6970.6	5123.2	4192.1	4045.2	4035.4	4045.2	4003.4	3937.4	3932.4
32.5°	9021.3	6919.1	4714.0	3903.0	3783.0	3760.9	3753.6	3694.8	3618.8	3596.8
35°	9511.3	6730.5	4297.5	3672.7	3533.0	3484.0	3518.3	3498.8	3430.2	3413.0
37.5°	9869.0	6380.1	3922.5	3469.3	3354.2	3342.0	3364.1	3371.3	3290.5	3273.3
40°	10109.2	5904.7	3601.7	3297.9	3319.9	3273.3	3199.9	3148.4	3123.9	3116.5
42.5°	10302.8	5409.9	3332.2	3217.0	3327.2	3192.4	3033.2	2949.9	2994.1	3013.6
45°	10525.7	4927.2	3106.8	3116.5	3290.5	3099.4	2918.1	2837.2	2854.4	2859.2
47.5°	10831.9	4339.2	2864.2	2954.9	3168.1	3035.7	2847.0	2731.8	2651.0	2614.2
50°	11255.9	3643.3	2611.8	2773.5	3047.9	2989.1	2736.7	2614.2	2464.8	2430.5
52.5°	11549.9	2994.1	2403.5	2621.7	2940.2	2896.0	2648.6	2489.4	2332.4	2303.2
55°	11390.6	2486.9	2222.2	2452.6	2798.0	2780.9	2575.1	2362.0	2239.5	2215.0
57.5°	10594.3	2166.0	2082.6	2293.4	2624.0	2682.9	2477.0	2254.0	2166.0	2148.7
60°	9075.1	1965.0	1994.3	2185.4	2481.9	2584.9	2379.0	2195.3	2136.4	2124.2
62.5°	7041.6	1830.2	1928.2	2107.2	2371.7	2516.2	2325.2	2187.9	2166.0	2151.3
65°	5044.8	1722.4	1857.2	2028.7	2271.3	2452.6	2305.6	2178.1	2183.1	2170.8
67.5°	3427.8	1626.9	1771.5	1940.5	2173.3	2396.1	2278.6	2143.8	2205.1	2190.3
70°	2398.7	1533.8	1670.9	1827.8	2050.7	2317.7	2229.7	2092.4	2087.5	2028.7
72.5°	1871.9	1411.2	1533.8	1670.9	1893.9	2207.6	2131.6	1977.2	1896.4	1835.1
73°	1786.1	1381.9	1499.5	1636.7	1859.6	2180.5	2104.6	1945.4	1854.7	1798.3
75°	1477.4	1254.5	1362.3	1484.8	1712.6	2053.2	1972.4	1800.8	1685.7	1651.4
77.5°	1161.4	1073.1	1176.1	1286.4	1509.2	1866.9	1776.3	1612.2	1548.5	1519.0
80°	859.9	889.4	980.1	1078.1	1308.3	1668.5	1587.7	1423.5	1707.7	1636.7
82.5°	605.2	673.8	757.1	845.2	1097.6	1474.9	1376.9	1208.0	1249.5	1038.8
85°	357.7	441.0	519.4	595.3	791.3	1222.7	1136.8	963.0	788.9	752.2
87.5°	208.2	245.0	267.1	345.5	544.0	921.2	801.2	713.0	409.2	276.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)