

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: P301963

Luminaire Tested: **GLNA-AF-08-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301963
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-08-LED-E1-SL4-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 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: 22416 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 257
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

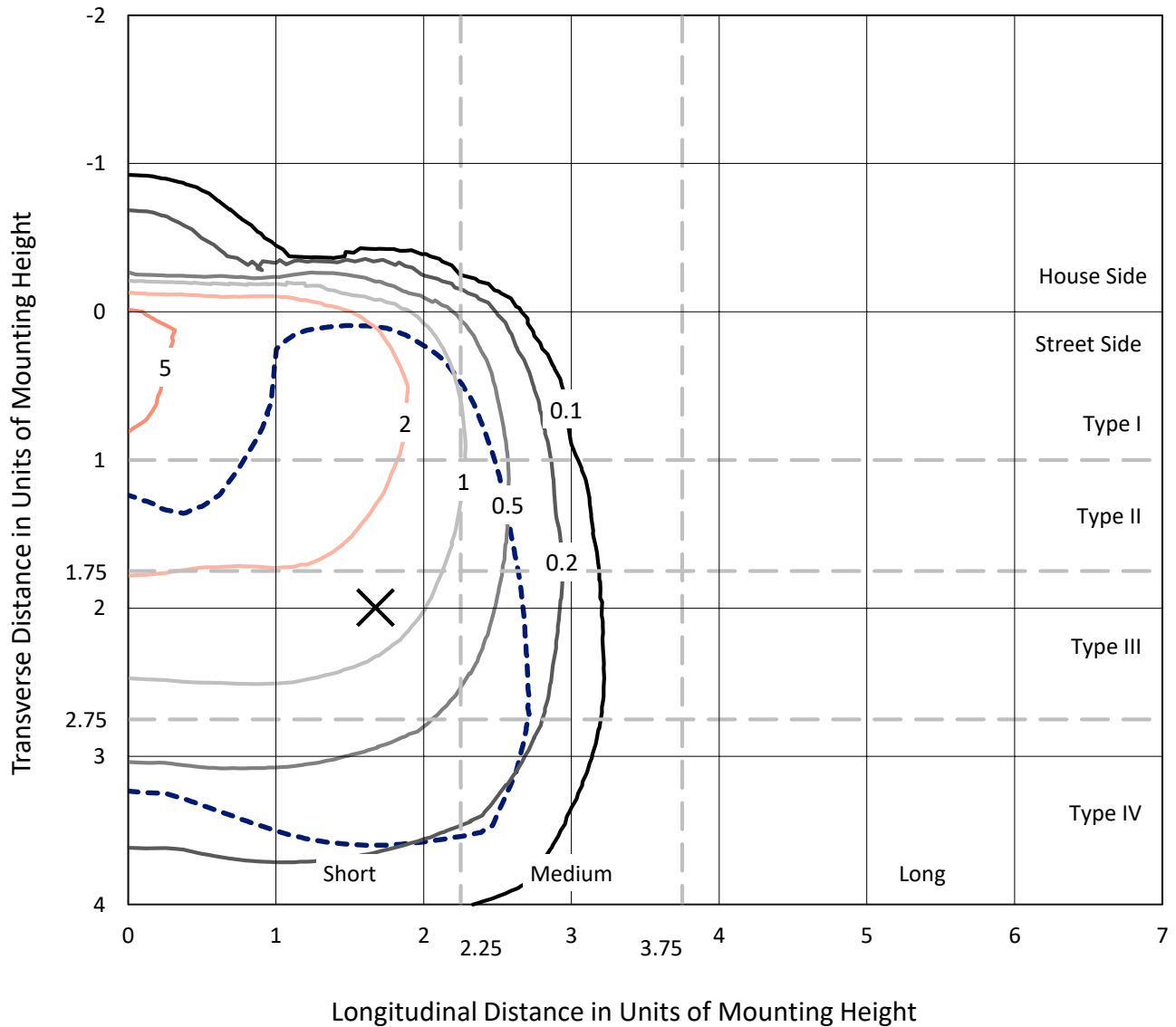


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

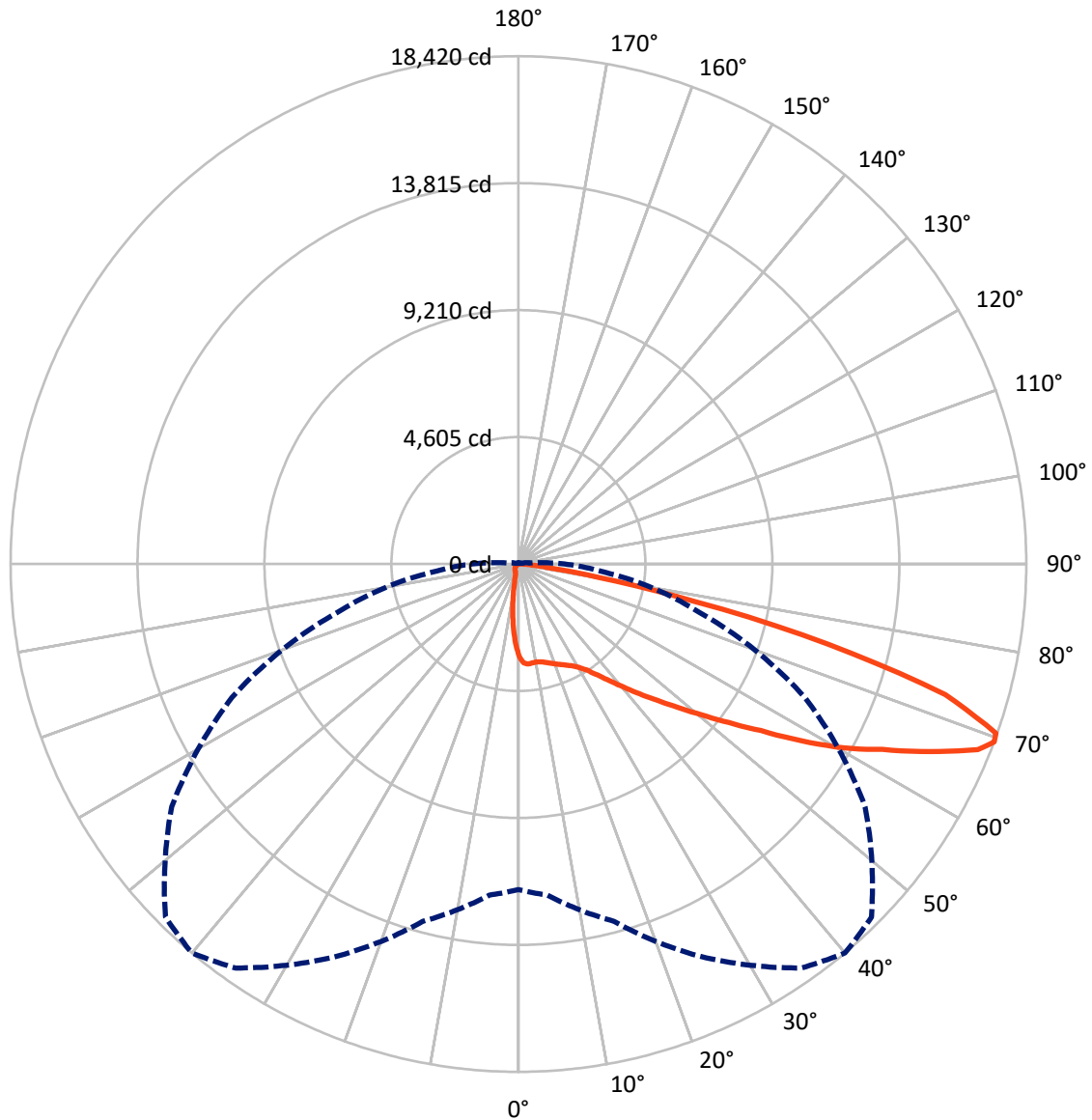


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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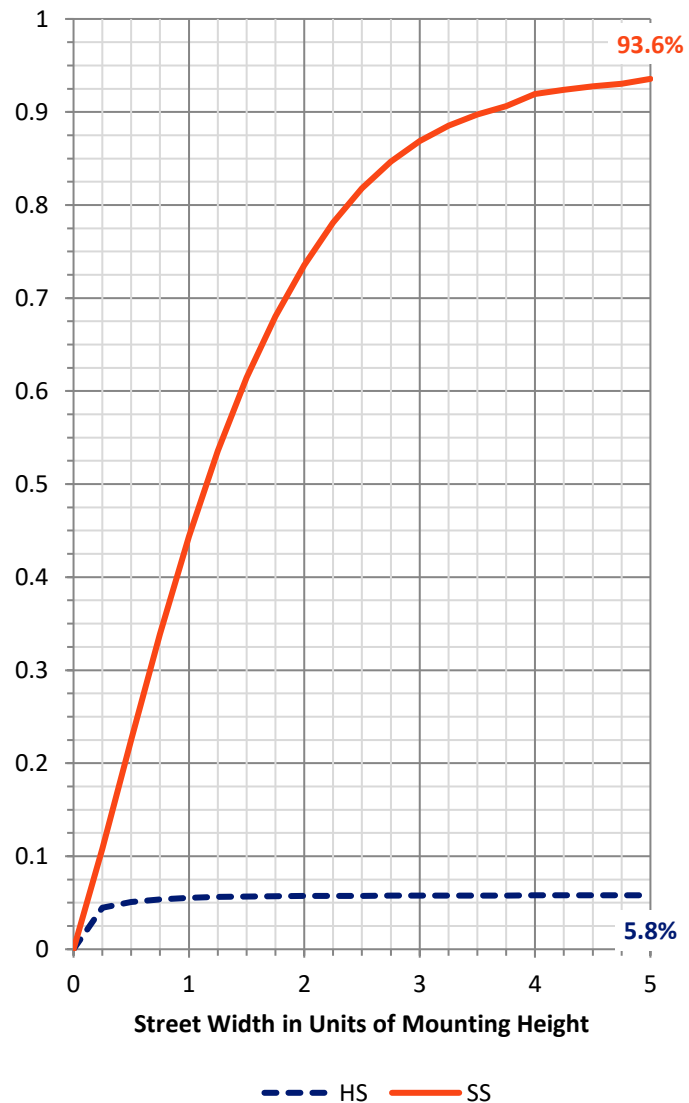
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.5	0.0	1311.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	21104.5	0.0	21104.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	22416.0	0.0	22416.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.2
10°-20°	667.8	3.0
20°-30°	1124.8	5.0
30°-40°	1841.3	8.2
40°-50°	3188.1	14.2
50°-60°	5021.6	22.4
60°-70°	6558.0	29.3
70°-80°	3377.6	15.1
80°-90°	365.4	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°	22416.0	100.0
0°-180°	22416.0	100.0



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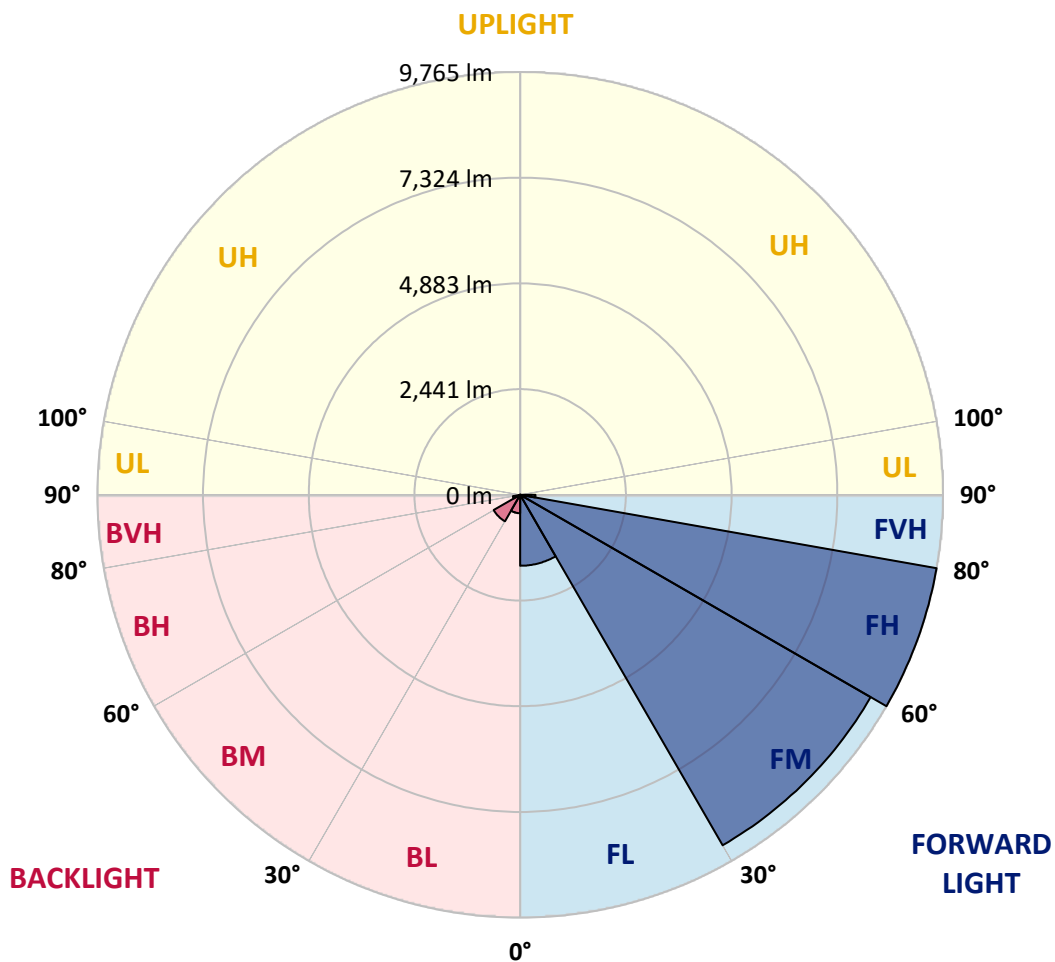
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1639.3	7.3			
FM	(30°-60°)	9346.1	41.7			
FH	(60°-80°)	9765.3	43.6			G4/12000
FVH	(80°-90°)	353.9	1.6			G3/500
BL	(0°-30°)	424.8	1.9	B1/500		
BM	(30°-60°)	704.9	3.1	B1/1000		
BH	(60°-80°)	170.3	0.8	B1/500		G1/500
BVH	(80°-90°)	11.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1
2.5°	3677.3	3657.3	3645.3	3629.3	3609.3	3591.9	3585.2	3535.9	3489.2	3425.1	3351.7
5°	3745.3	3738.7	3717.3	3696.0	3672.0	3645.3	3630.6	3571.9	3505.2	3411.8	3283.7
7.5°	3752.0	3744.0	3717.3	3688.0	3654.6	3622.6	3597.2	3538.5	3477.2	3382.4	3226.3
10°	3741.3	3732.0	3712.0	3680.0	3638.6	3607.9	3582.6	3526.5	3474.5	3389.1	3215.6
12.5°	3729.3	3720.0	3710.7	3694.6	3658.6	3637.3	3615.9	3562.6	3515.9	3443.8	3254.3
15°	3741.3	3736.0	3746.7	3740.0	3720.0	3701.3	3680.0	3631.9	3589.2	3529.2	3325.0
17.5°	3792.0	3792.0	3825.4	3829.4	3810.7	3784.0	3753.4	3705.3	3669.3	3618.6	3409.1
20°	3910.8	3906.8	3949.5	3957.5	3912.1	3870.8	3825.4	3766.7	3738.7	3706.7	3491.8
22.5°	4114.9	4096.3	4121.6	4113.6	4024.2	3960.2	3904.1	3832.1	3817.4	3802.7	3583.9
25°	4380.5	4369.8	4387.1	4308.4	4151.0	4064.2	3997.5	3916.1	3916.1	3930.8	3688.0
27.5°	4766.1	4726.1	4667.3	4528.6	4292.4	4181.7	4109.6	4022.9	4045.6	4100.3	3825.4
30°	5161.0	5117.0	4982.2	4768.7	4464.5	4348.4	4264.4	4173.7	4227.0	4327.1	4009.5
32.5°	5550.6	5501.3	5310.5	5040.9	4711.4	4595.3	4513.9	4413.8	4503.2	4671.3	4279.1
35°	5928.2	5884.2	5664.1	5346.5	5039.6	4943.5	4868.8	4782.1	4896.8	5131.7	4659.3
37.5°	6352.6	6304.5	6036.3	5692.1	5438.6	5369.2	5314.5	5227.7	5427.9	5772.1	5189.1
40°	6874.3	6792.9	6431.3	6088.4	5900.2	5866.9	5829.5	5817.5	6128.4	6604.7	5894.9
42.5°	7472.0	7338.6	6844.9	6506.0	6407.3	6431.3	6421.9	6475.3	7005.0	7640.1	6754.2
45°	8069.8	7897.7	7305.2	6951.6	6965.0	7049.0	7101.1	7314.6	8103.1	8827.7	7678.8
47.5°	8576.8	8407.4	7746.9	7433.3	7593.4	7758.9	7900.3	8304.6	9231.9	9996.5	8398.0
50°	9010.5	8850.3	8215.2	7963.0	8323.3	8590.2	8819.7	9418.7	10446.1	10886.5	8902.4
52.5°	9365.4	9258.6	8700.9	8570.1	9157.2	9548.2	9884.4	10602.3	11521.6	11609.6	9294.7
55°	9711.0	9634.9	9222.6	9292.0	10136.6	10669.0	11094.6	11857.8	12447.6	12212.7	9670.9
57.5°	10108.6	10039.2	9817.7	10207.3	11424.2	12094.0	12558.3	12970.6	13262.8	12829.2	10025.8
60°	10514.2	10474.2	10479.5	11224.0	12902.6	13545.7	13801.9	13908.6	14063.4	13409.6	10045.9
62.5°	10901.1	10977.2	11236.0	12355.5	14318.3	14811.9	14941.4	15046.8	14865.3	13501.7	9281.3
65°	11556.3	11680.4	12298.1	13869.9	15875.4	16403.8	16537.2	16175.6	14992.1	12311.5	7549.4
67.5°	11876.5	12103.3	13205.5	15281.6	17385.8	17972.9	17923.5	16249.0	13453.6	9388.1	4844.8
69°	11809.8	12051.3	13414.9	15713.9	17887.5	18419.9	18106.3	15351.0	11461.5	6800.9	2974.1
70°	11545.6	11789.8	13306.9	15697.9	17951.5	18373.2	17767.4	14242.2	9690.9	4972.9	1860.0
72.5°	9641.6	9852.4	11813.8	14188.8	16537.2	16194.3	14864.0	9867.1	4722.0	1354.3	419.0
75°	5934.9	6052.3	8476.7	10689.0	12490.3	11609.6	9903.1	4908.8	1407.7	382.9	232.2
77.5°	3135.6	3189.0	4640.7	6300.5	7917.7	6551.4	5075.6	1914.7	648.5	240.2	168.1
80°	1853.3	1893.4	2499.1	2880.7	3426.5	2862.1	2029.5	1175.5	464.3	150.8	149.4
82.5°	1060.8	1086.1	1812.0	1601.1	1350.3	1152.8	1010.1	1114.1	278.9	101.4	154.8
85°	389.6	394.9	1019.4	1218.2	803.2	477.7	501.7	923.3	74.7	64.0	121.4
87.5°	181.5	177.5	524.4	745.9	469.7	302.9	390.9	202.8	29.4	41.4	33.4
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°	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1	3349.1
2.5°	3309.0	3259.7	3170.3	3078.2	2984.8	2912.8	2842.0	2786.0	2767.3	2732.6	2735.3
5°	3207.6	3116.9	2930.1	2740.6	2543.2	2380.4	2226.9	2102.8	2042.8	1981.4	1981.4
7.5°	3119.6	2987.5	2695.3	2387.0	2068.1	1800.0	1558.4	1377.0	1276.9	1196.9	1195.5
10°	3086.2	2907.4	2499.1	2057.5	1613.2	1247.6	960.7	776.6	681.8	620.4	617.8
12.5°	3100.9	2879.4	2348.3	1753.3	1195.5	801.9	556.4	437.6	397.6	378.9	378.9
15°	3143.6	2871.4	2197.6	1455.7	844.6	501.7	369.6	337.6	334.9	334.9	334.9
17.5°	3195.6	2874.1	2042.8	1166.2	575.1	358.9	318.9	314.9	317.6	317.6	317.6
20°	3249.0	2875.4	1876.0	898.0	405.6	312.2	300.2	298.9	301.5	301.5	302.9
22.5°	3314.4	2882.1	1709.2	671.1	334.9	294.9	285.5	285.5	286.9	286.9	285.5
25°	3389.1	2895.4	1535.8	497.7	305.6	282.9	274.9	273.5	274.9	273.5	272.2
27.5°	3482.5	2914.1	1342.3	389.6	292.2	270.9	264.2	264.2	262.9	261.5	260.2
30°	3599.9	2935.4	1124.8	330.9	278.9	260.2	253.5	252.2	250.8	248.2	248.2
32.5°	3778.7	2982.1	910.0	300.2	264.2	245.5	240.2	240.2	237.5	234.8	233.5
35°	4053.6	3074.2	717.8	281.5	248.2	229.5	222.8	222.8	220.2	218.8	217.5
37.5°	4433.8	3214.3	557.7	264.2	232.2	212.2	205.5	204.1	201.5	198.8	197.5
40°	4939.5	3387.8	439.0	248.2	216.2	194.8	189.5	186.8	181.5	177.5	177.5
42.5°	5574.7	3585.2	356.3	230.8	197.5	178.8	174.8	170.8	161.4	157.4	156.1
45°	6239.1	3762.7	301.5	210.8	178.8	162.8	160.1	153.4	141.4	137.4	137.4
47.5°	6718.1	3804.1	265.5	192.1	161.4	145.4	144.1	132.1	121.4	118.8	117.4
50°	7017.0	3722.7	236.2	173.5	145.4	129.4	125.4	110.7	104.1	101.4	100.1
52.5°	7218.5	3577.2	212.2	157.4	130.8	114.7	105.4	94.7	89.4	86.7	86.7
55°	7380.0	3371.7	188.1	142.8	118.8	102.7	89.4	81.4	76.1	73.4	73.4
57.5°	7425.3	3092.9	164.1	130.8	106.7	90.7	76.1	70.7	64.0	62.7	62.7
60°	7095.7	2589.9	145.4	116.1	96.1	78.7	66.7	60.0	53.4	52.0	50.7
62.5°	6227.1	2004.1	128.1	102.7	84.1	68.0	57.4	49.4	44.0	44.0	44.0
65°	4750.1	1343.6	112.1	89.4	73.4	57.4	49.4	40.0	37.4	37.4	38.7
67.5°	2843.4	731.2	96.1	76.1	62.7	48.0	41.4	34.7	33.4	34.7	34.7
69°	1666.5	429.6	86.7	68.0	54.7	42.7	36.0	30.7	33.4	34.7	34.7
70°	1028.7	289.5	80.1	61.4	49.4	38.7	33.4	29.4	32.0	33.4	33.4
72.5°	286.9	149.4	64.0	48.0	40.0	32.0	26.7	26.7	30.7	32.0	32.0
75°	186.8	110.7	49.4	36.0	30.7	25.4	22.7	25.4	29.4	30.7	30.7
77.5°	154.8	90.7	40.0	29.4	25.4	24.0	21.3	22.7	26.7	28.0	28.0
80°	141.4	64.0	32.0	26.7	22.7	21.3	20.0	18.7	24.0	25.4	25.4
82.5°	134.8	50.7	28.0	24.0	21.3	18.7	17.3	18.7	21.3	22.7	24.0
85°	84.1	33.4	25.4	22.7	18.7	17.3	17.3	17.3	20.0	21.3	21.3
87.5°	30.7	26.7	22.7	18.7	16.0	16.0	16.0	16.0	17.3	20.0	20.0
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)