

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: P193737

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193737
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: GLEON-AF-09-LED-E1-SL4-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23220 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 290
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

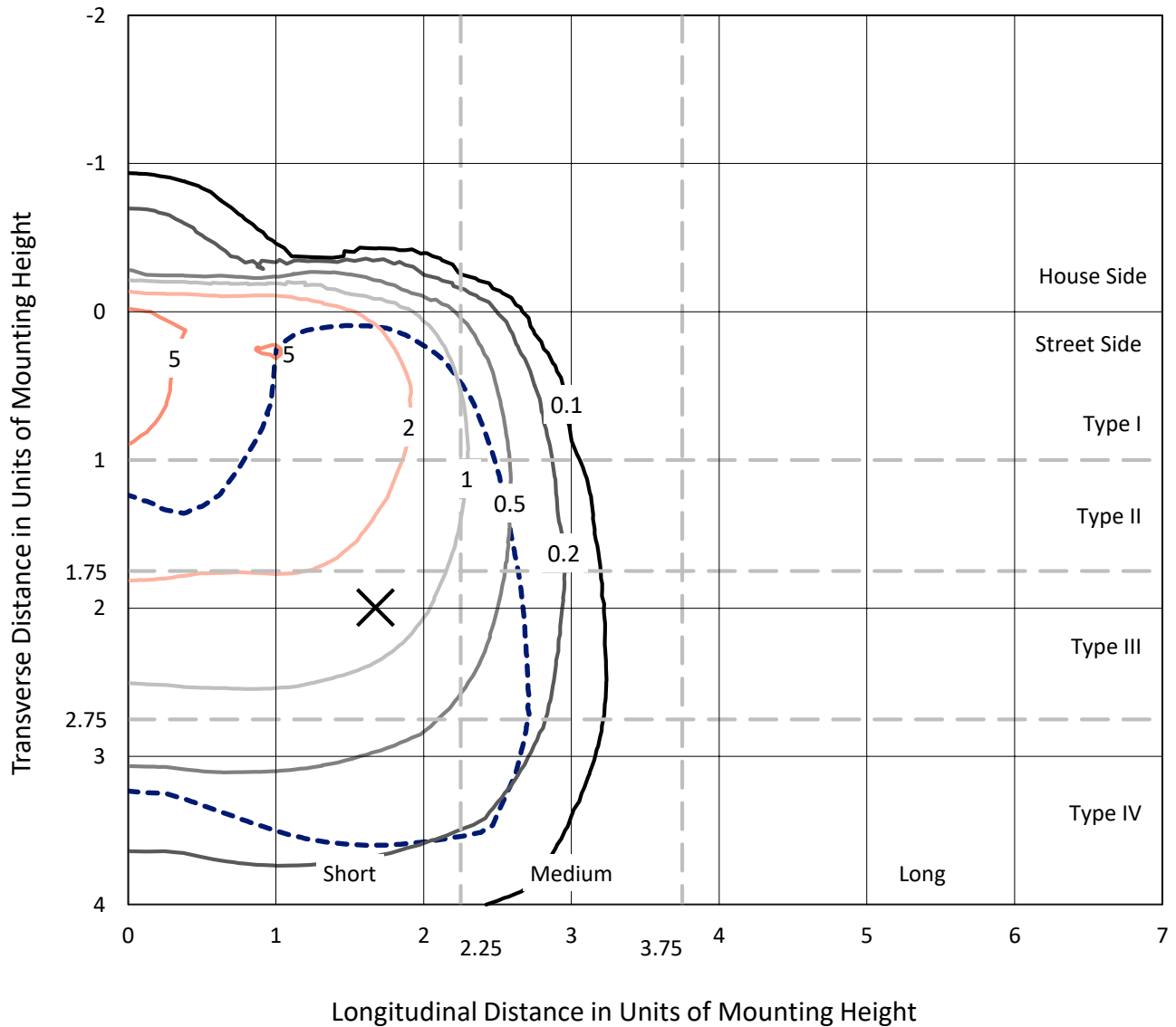


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

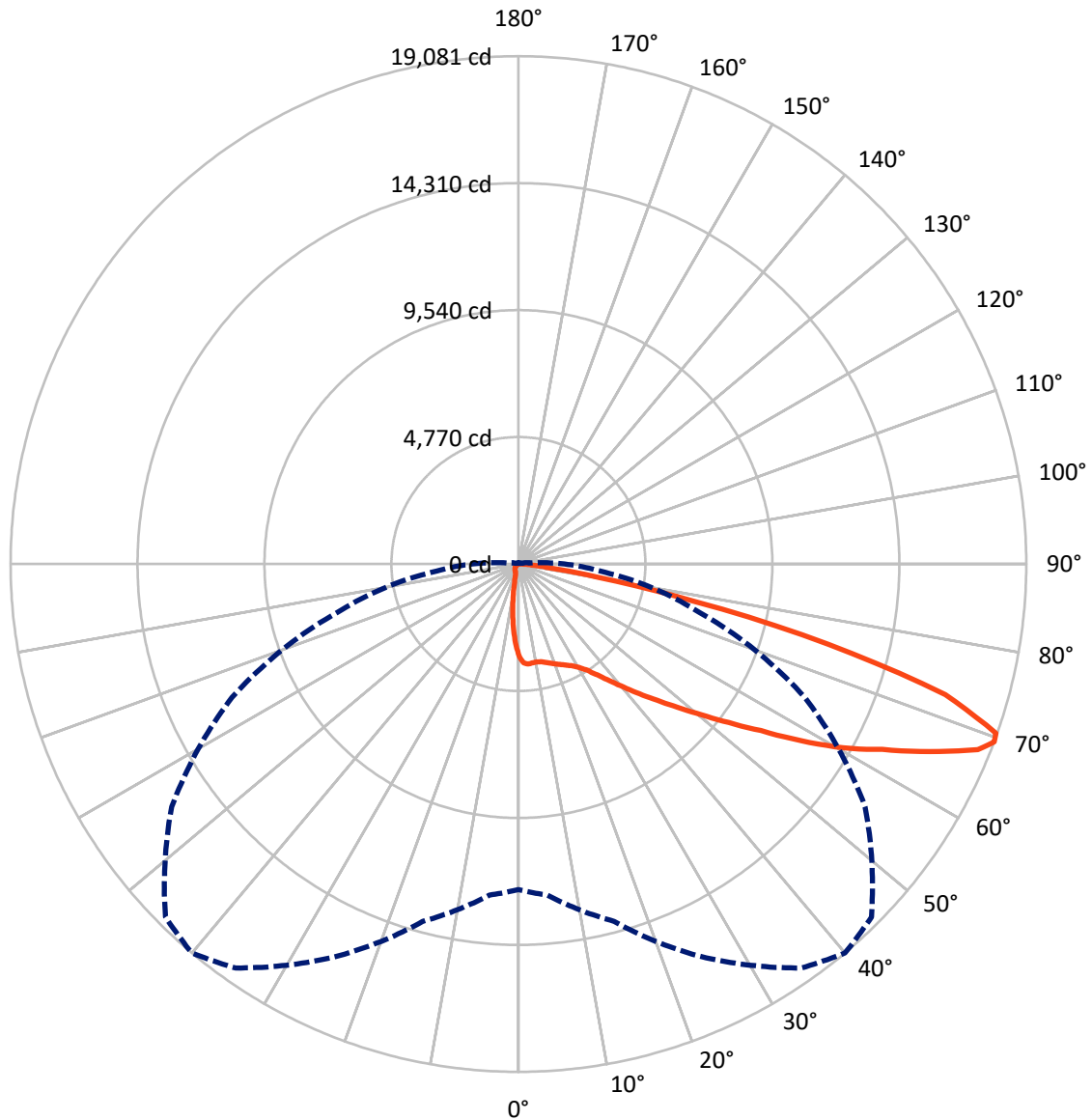


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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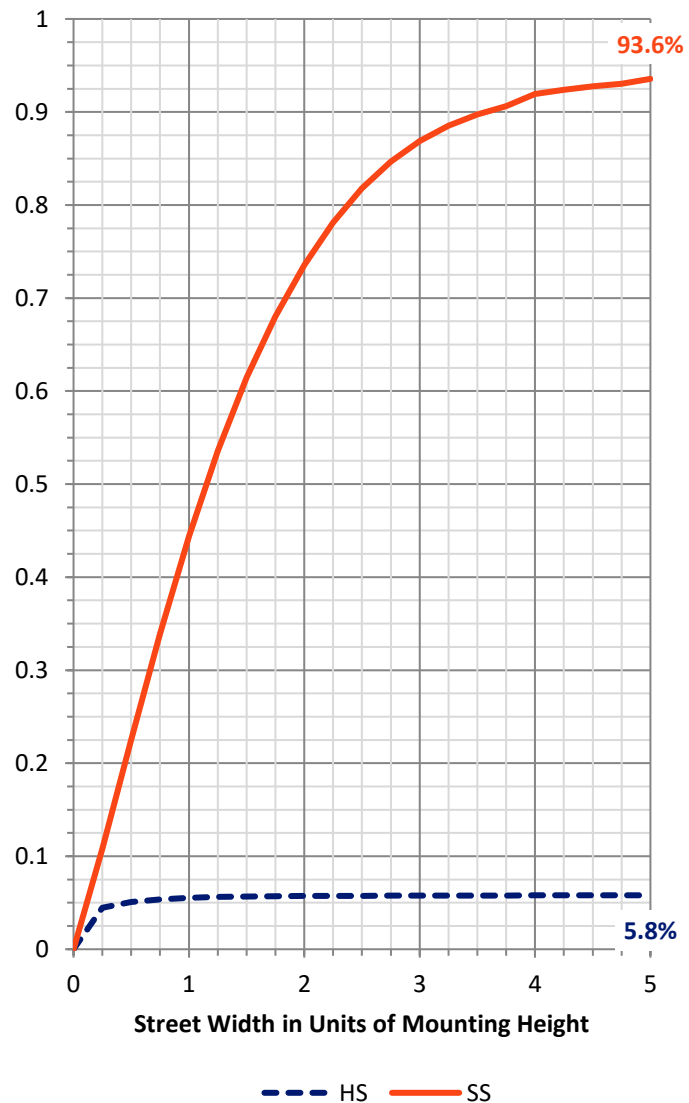
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1358.5	0.0	1358.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	21861.5	0.0	21861.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	23220.0	0.0	23220.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	1.2
10°-20°	691.7	3.0
20°-30°	1165.1	5.0
30°-40°	1907.3	8.2
40°-50°	3302.4	14.2
50°-60°	5201.7	22.4
60°-70°	6793.2	29.3
70°-80°	3498.8	15.1
80°-90°	378.5	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°	23220.0	100.0
0°-180°	23220.0	100.0



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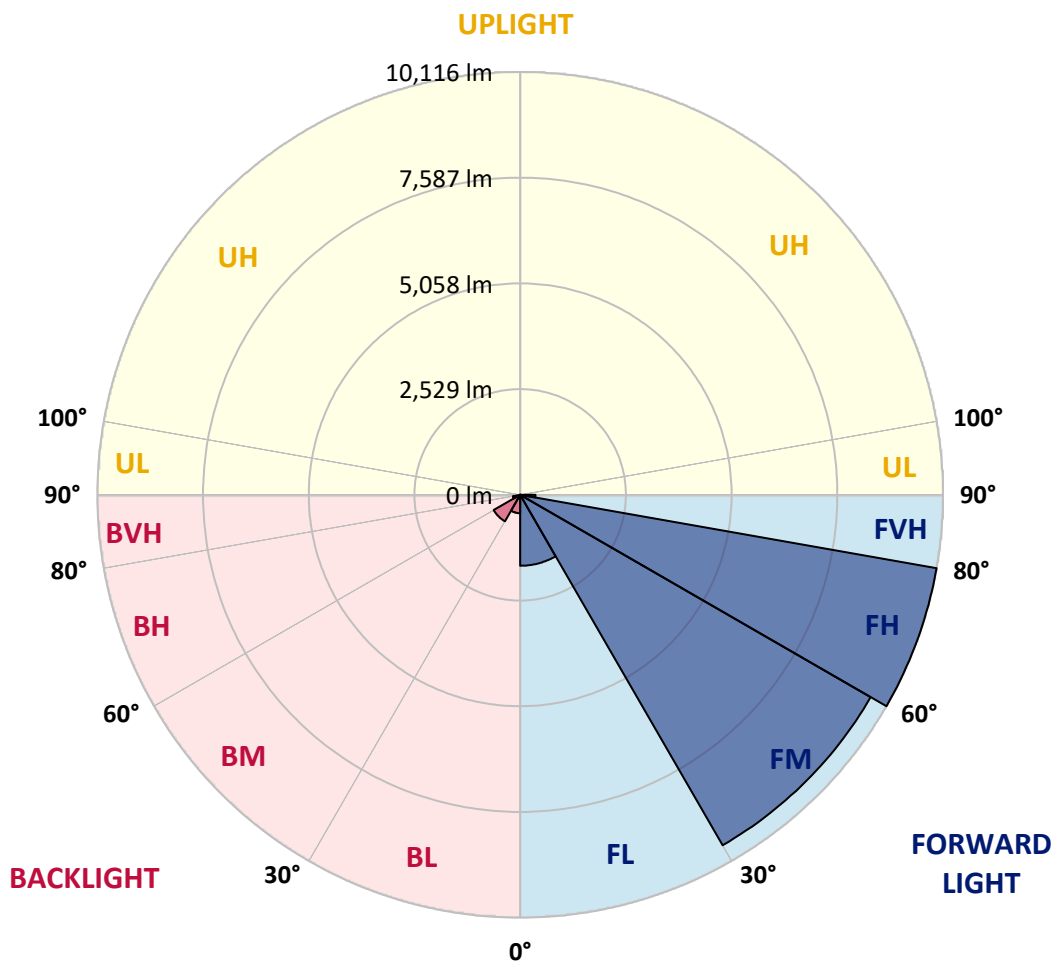
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1698.0	7.3			
FM	(30°-60°)	9681.3	41.7			
FH	(60°-80°)	10115.6	43.6			G4/12000
FVH	(80°-90°)	366.6	1.6			G3/500
BL	(0°-30°)	440.1	1.9	B1/500		
BM	(30°-60°)	730.2	3.1	B1/1000		
BH	(60°-80°)	176.4	0.8	B1/500		G1/500
BVH	(80°-90°)	11.9	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°	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2
2.5°	3809.2	3788.5	3776.0	3759.4	3738.7	3720.7	3713.8	3662.7	3614.3	3548.0	3472.0
5°	3879.7	3872.8	3850.7	3828.5	3803.7	3776.0	3760.8	3700.0	3630.9	3534.1	3401.5
7.5°	3886.6	3878.3	3850.7	3820.3	3785.7	3752.5	3726.3	3665.5	3601.9	3503.7	3342.0
10°	3875.5	3865.9	3845.1	3812.0	3769.1	3737.3	3711.1	3653.0	3599.1	3510.7	3331.0
12.5°	3863.1	3853.4	3843.7	3827.2	3789.8	3767.7	3745.6	3690.3	3642.0	3567.3	3371.1
15°	3875.5	3870.0	3881.1	3874.2	3853.4	3834.1	3812.0	3762.2	3718.0	3655.8	3444.3
17.5°	3928.1	3928.1	3962.6	3966.8	3947.4	3919.8	3888.0	3838.2	3800.9	3748.4	3531.4
20°	4051.1	4046.9	4091.2	4099.4	4052.5	4009.6	3962.6	3901.8	3872.8	3839.6	3617.1
22.5°	4262.5	4243.2	4269.5	4261.2	4168.6	4102.2	4044.2	3969.5	3954.3	3939.1	3712.4
25°	4537.6	4526.5	4544.5	4463.0	4299.9	4210.0	4140.9	4056.6	4056.6	4071.8	3820.3
27.5°	4937.0	4895.6	4834.7	4691.0	4446.4	4331.6	4257.0	4167.2	4190.7	4247.3	3962.6
30°	5346.1	5300.5	5160.9	4939.8	4624.7	4504.4	4417.3	4323.4	4378.6	4482.3	4153.3
32.5°	5749.7	5698.6	5500.9	5221.7	4880.4	4760.1	4675.8	4572.1	4664.7	4838.9	4432.5
35°	6140.9	6095.3	5867.2	5538.3	5220.4	5120.9	5043.5	4953.6	5072.5	5315.7	4826.5
37.5°	6580.4	6530.6	6252.8	5896.2	5633.6	5561.8	5505.1	5415.2	5622.6	5979.2	5375.2
40°	7120.8	7036.5	6661.9	6306.7	6111.9	6077.3	6038.6	6026.2	6348.2	6841.6	6106.3
42.5°	7740.0	7601.8	7090.4	6739.3	6637.1	6661.9	6652.3	6707.6	7256.3	7914.2	6996.4
45°	8359.2	8180.9	7567.3	7201.0	7214.8	7301.9	7355.8	7576.9	8393.8	9144.3	7954.3
47.5°	8884.4	8708.9	8024.7	7699.9	7865.8	8037.2	8183.7	8602.5	9563.1	10355.0	8699.2
50°	9333.6	9167.8	8509.9	8248.6	8621.8	8898.3	9136.0	9756.6	10820.8	11276.9	9221.7
52.5°	9701.3	9590.7	9013.0	8877.5	9485.7	9890.6	10238.9	10982.5	11934.8	12026.1	9628.0
55°	10059.3	9980.5	9553.4	9625.3	10500.2	11051.6	11492.5	12283.1	12894.0	12650.8	10017.8
57.5°	10471.1	10399.3	10169.8	10573.4	11833.9	12527.8	13008.8	13435.8	13738.5	13289.3	10385.4
60°	10891.3	10849.8	10855.4	11626.6	13365.4	14031.5	14296.9	14407.5	14567.8	13890.6	10406.2
62.5°	11292.1	11370.9	11639.1	12798.7	14831.8	15343.2	15477.3	15586.5	15398.5	13985.9	9614.2
65°	11970.8	12099.3	12739.2	14367.4	16444.8	16992.1	17130.3	16755.8	15529.8	12753.1	7820.2
67.5°	12302.5	12537.4	13679.1	15829.7	18009.4	18617.5	18566.4	16831.8	13936.2	9724.8	5018.6
69°	12233.4	12483.5	13896.1	16277.5	18529.1	19080.5	18755.7	15901.6	11872.6	7044.8	3080.8
70°	11959.7	12212.6	13784.1	16261.0	18595.4	19032.2	18404.7	14753.0	10038.5	5151.3	1926.7
72.5°	9987.4	10205.8	12237.5	14697.7	17130.3	16775.1	15397.1	10221.0	4891.4	1402.9	434.0
75°	6147.8	6269.4	8780.8	11072.4	12938.3	12026.1	10258.3	5084.9	1458.2	396.7	240.5
77.5°	3248.0	3303.3	4807.1	6526.5	8201.7	6786.3	5257.7	1983.4	671.7	248.8	174.2
80°	1919.8	1961.3	2588.8	2984.1	3549.4	2964.7	2102.2	1217.7	481.0	156.2	154.8
82.5°	1098.8	1125.1	1877.0	1658.6	1398.7	1194.2	1046.3	1154.1	288.9	105.0	160.3
85°	403.6	409.1	1056.0	1261.9	832.1	494.8	519.7	956.4	77.4	66.3	125.8
87.5°	188.0	183.8	543.2	772.6	486.5	313.7	405.0	210.1	30.4	42.8	34.6
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°	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2	3469.2
2.5°	3427.7	3376.6	3284.0	3188.6	3091.9	3017.2	2944.0	2885.9	2866.6	2830.6	2833.4
5°	3322.7	3228.7	3035.2	2838.9	2634.4	2465.7	2306.8	2178.3	2116.1	2052.5	2052.5
7.5°	3231.5	3094.6	2791.9	2472.7	2142.3	1864.5	1614.3	1426.4	1322.7	1239.8	1238.4
10°	3196.9	3011.7	2588.8	2131.3	1671.0	1292.3	995.1	804.4	706.3	642.7	639.9
12.5°	3212.1	2982.7	2432.6	1816.1	1238.4	830.7	576.4	453.3	411.9	392.5	392.5
15°	3256.3	2974.4	2276.4	1507.9	874.9	519.7	382.9	349.7	346.9	346.9	346.9
17.5°	3310.2	2977.1	2116.1	1208.0	595.7	371.8	330.3	326.2	329.0	329.0	329.0
20°	3365.5	2978.5	1943.3	930.2	420.2	323.4	311.0	309.6	312.4	312.4	313.7
22.5°	3433.3	2985.4	1770.5	695.2	346.9	305.5	295.8	295.8	297.2	297.2	295.8
25°	3510.7	2999.3	1590.9	515.5	316.5	293.0	284.7	283.3	284.7	283.3	282.0
27.5°	3607.4	3018.6	1390.4	403.6	302.7	280.6	273.7	273.7	272.3	270.9	269.5
30°	3729.0	3040.7	1165.1	342.8	288.9	269.5	262.6	261.2	259.8	257.1	257.1
32.5°	3914.2	3089.1	942.6	311.0	273.7	254.3	248.8	248.8	246.0	243.3	241.9
35°	4199.0	3184.5	743.6	291.6	257.1	237.7	230.8	230.8	228.1	226.7	225.3
37.5°	4592.9	3329.6	577.7	273.7	240.5	219.8	212.9	211.5	208.7	205.9	204.6
40°	5116.7	3509.3	454.7	257.1	223.9	201.8	196.3	193.5	188.0	183.8	183.8
42.5°	5774.6	3713.8	369.0	239.1	204.6	185.2	181.1	176.9	167.2	163.1	161.7
45°	6462.9	3897.7	312.4	218.4	185.2	168.6	165.9	158.9	146.5	142.4	142.4
47.5°	6959.1	3940.5	275.0	199.0	167.2	150.7	149.3	136.8	125.8	123.0	121.6
50°	7268.7	3856.2	244.6	179.7	150.7	134.1	129.9	114.7	107.8	105.0	103.7
52.5°	7477.4	3705.5	219.8	163.1	135.5	118.9	109.2	98.1	92.6	89.8	89.8
55°	7644.7	3492.7	194.9	147.9	123.0	106.4	92.6	84.3	78.8	76.0	76.0
57.5°	7691.6	3203.8	170.0	135.5	110.6	94.0	78.8	73.3	66.3	65.0	65.0
60°	7350.3	2682.7	150.7	120.2	99.5	81.5	69.1	62.2	55.3	53.9	52.5
62.5°	6450.5	2076.0	132.7	106.4	87.1	70.5	59.4	51.1	45.6	45.6	45.6
65°	4920.4	1391.8	116.1	92.6	76.0	59.4	51.1	41.5	38.7	38.7	40.1
67.5°	2945.4	757.4	99.5	78.8	65.0	49.8	42.8	35.9	34.6	35.9	35.9
69°	1726.3	445.1	89.8	70.5	56.7	44.2	37.3	31.8	34.6	35.9	35.9
70°	1065.6	299.9	82.9	63.6	51.1	40.1	34.6	30.4	33.2	34.6	34.6
72.5°	297.2	154.8	66.3	49.8	41.5	33.2	27.6	27.6	31.8	33.2	33.2
75°	193.5	114.7	51.1	37.3	31.8	26.3	23.5	26.3	30.4	31.8	31.8
77.5°	160.3	94.0	41.5	30.4	26.3	24.9	22.1	23.5	27.6	29.0	29.0
80°	146.5	66.3	33.2	27.6	23.5	22.1	20.7	19.4	24.9	26.3	26.3
82.5°	139.6	52.5	29.0	24.9	22.1	19.4	18.0	19.4	22.1	23.5	24.9
85°	87.1	34.6	26.3	23.5	19.4	18.0	18.0	18.0	20.7	22.1	22.1
87.5°	31.8	27.6	23.5	19.4	16.6	16.6	16.6	16.6	18.0	20.7	20.7
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)