

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: P269728

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269728
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-10-LED-E1-SL4-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA 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: 41544.2 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 558
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

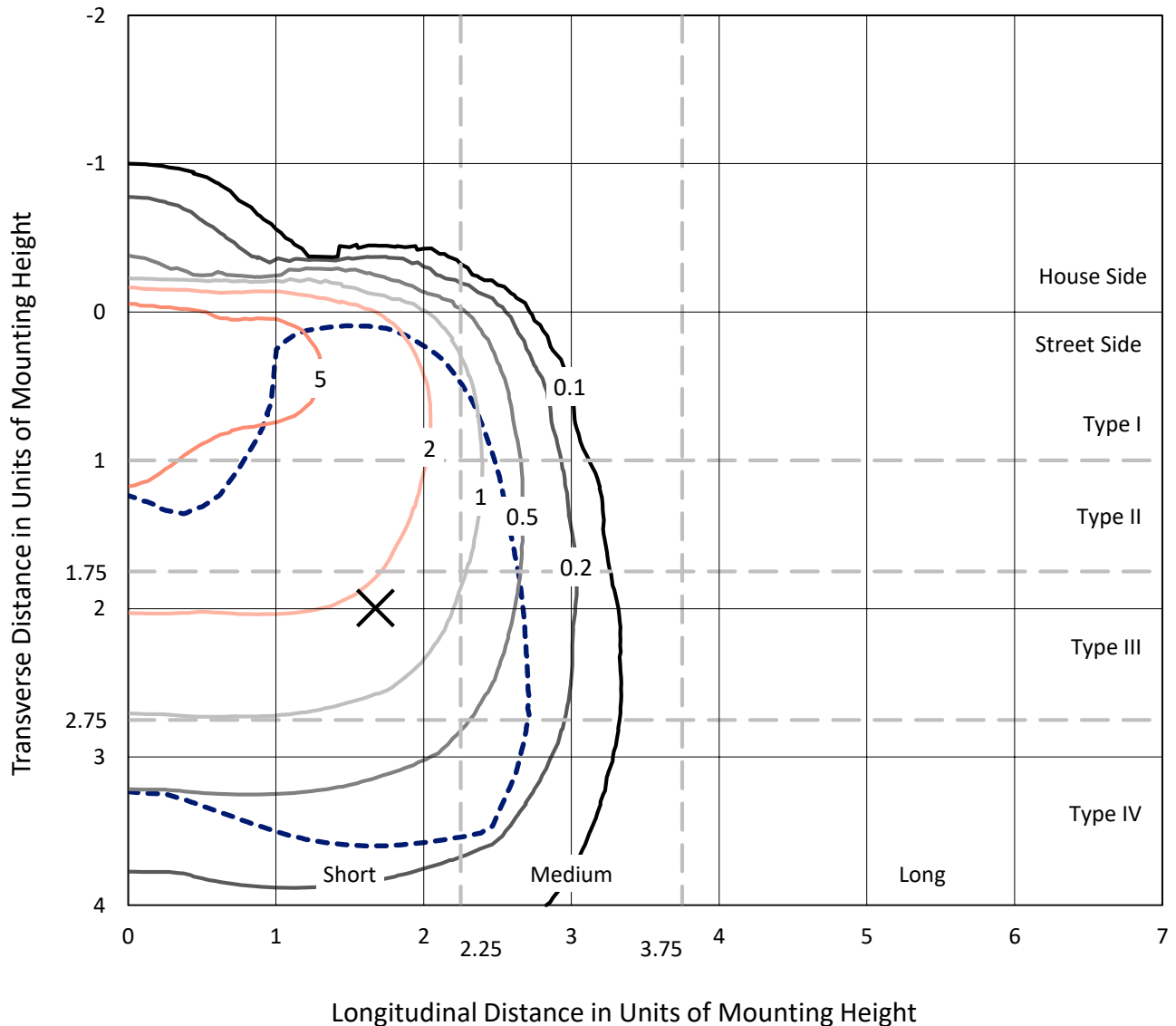


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

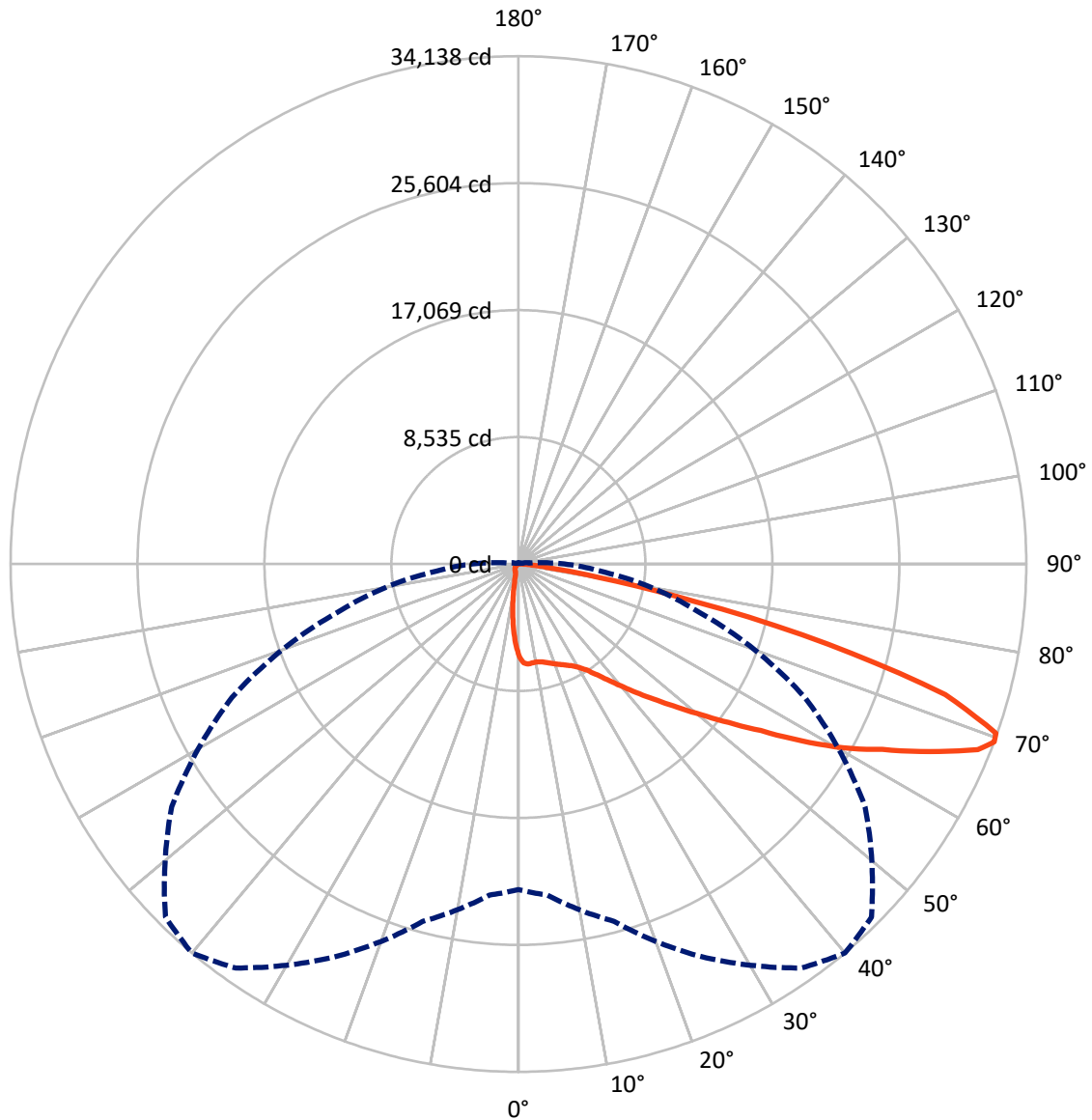


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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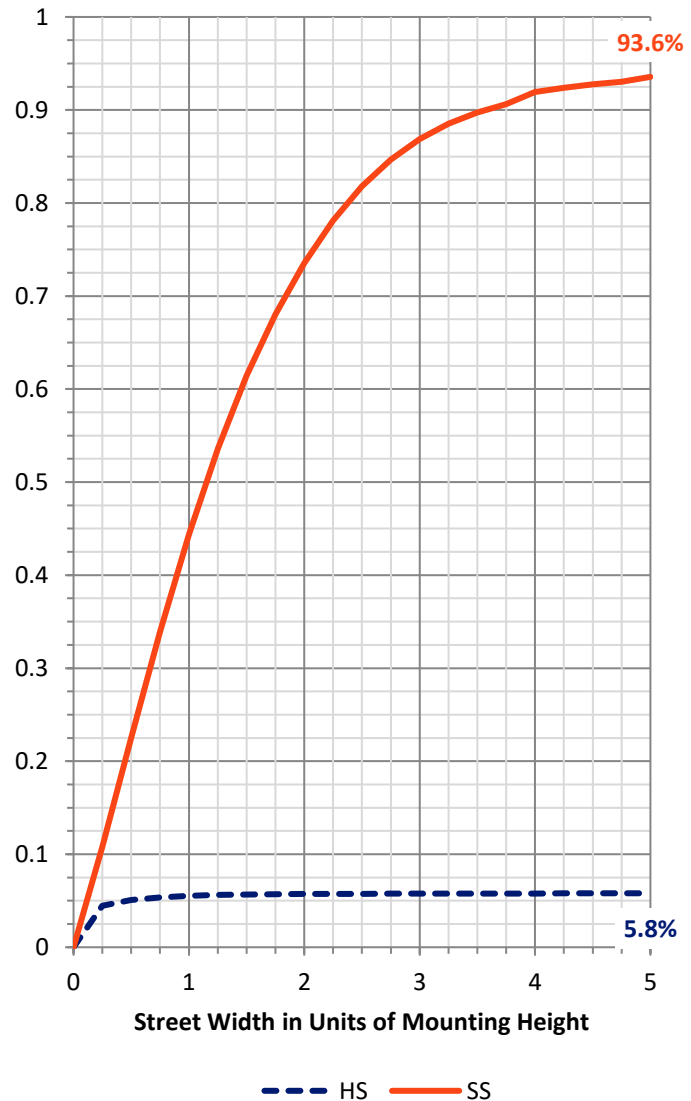
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2430.6	0.0	2430.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	39113.6	0.0	39113.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	41544.2	0.0	41544.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.3	1.2
10°-20°	1237.6	3.0
20°-30°	2084.6	5.0
30°-40°	3412.5	8.2
40°-50°	5908.6	14.2
50°-60°	9306.6	22.4
60°-70°	12154.1	29.3
70°-80°	6259.9	15.1
80°-90°	677.1	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°	41544.2	100.0
0°-180°	41544.2	100.0



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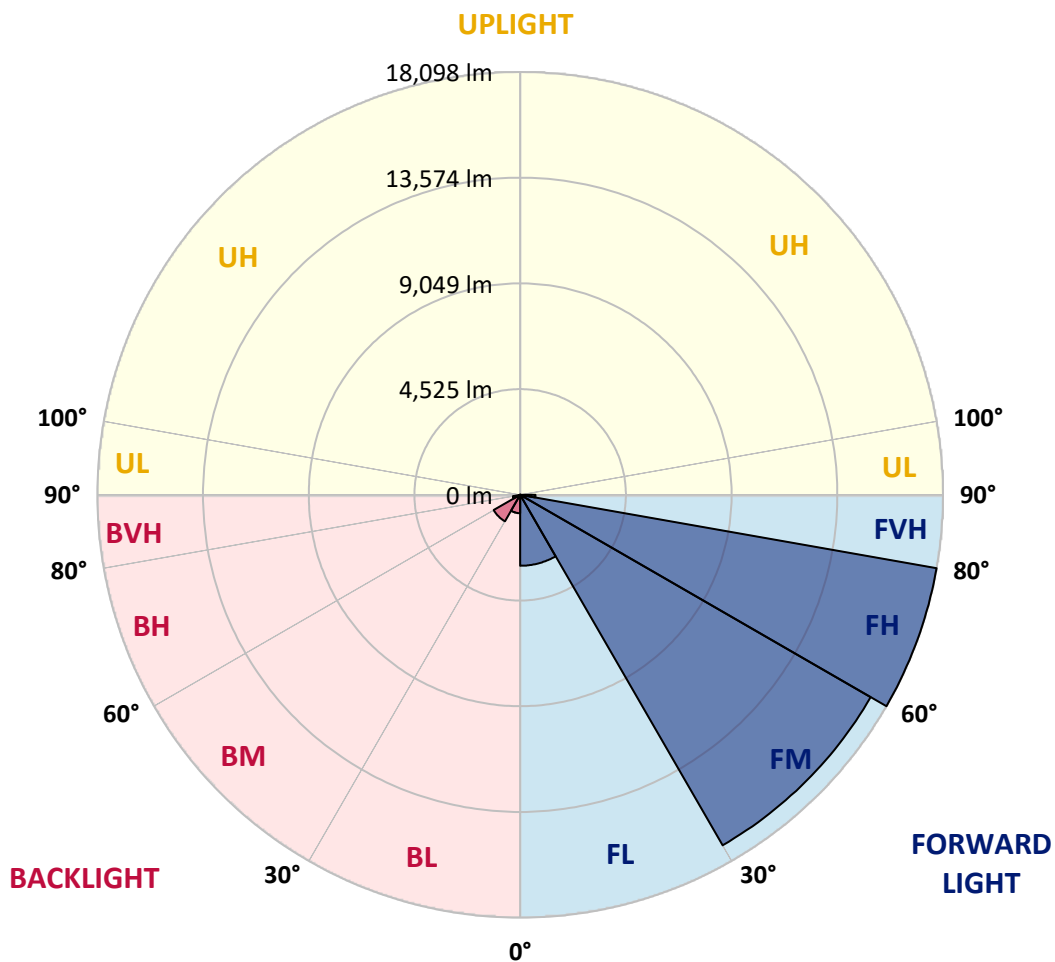
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3038.1	7.3			
FM	(30°-60°)	17321.3	41.7			
FH	(60°-80°)	18098.3	43.6			G5
FVH	(80°-90°)	655.9	1.6			G4/750
BL	(0°-30°)	787.3	1.9	B2/1000		
BM	(30°-60°)	1306.4	3.1	B2/2500		
BH	(60°-80°)	315.6	0.8	B1/500		G1/500
BVH	(80°-90°)	21.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8
2.5°	6815.3	6778.2	6756.0	6726.1	6689.0	6657.0	6644.7	6553.1	6466.5	6347.9	6211.9
5°	6941.4	6928.9	6889.5	6849.8	6805.3	6756.0	6728.7	6619.9	6496.3	6323.1	6085.7
7.5°	6953.7	6938.9	6889.5	6835.1	6773.2	6713.8	6667.0	6558.0	6444.4	6268.7	5979.4
10°	6933.9	6916.6	6879.5	6820.2	6743.5	6686.7	6639.6	6535.8	6439.4	6281.0	5959.6
12.5°	6911.6	6894.4	6877.1	6847.4	6780.6	6741.1	6701.4	6602.5	6516.0	6382.5	6031.3
15°	6933.9	6924.0	6943.8	6931.4	6894.4	6859.7	6820.2	6731.2	6651.9	6540.7	6162.5
17.5°	7027.9	7027.9	7089.8	7097.1	7062.6	7013.1	6956.1	6867.2	6800.3	6706.4	6318.1
20°	7248.0	7240.6	7319.7	7334.5	7250.5	7173.9	7089.8	6980.9	6928.9	6869.7	6471.5
22.5°	7626.3	7591.8	7638.6	7623.8	7458.2	7339.5	7235.6	7102.1	7075.0	7047.7	6642.2
25°	8118.4	8098.7	8130.7	7984.9	7693.2	7532.4	7408.7	7257.9	7257.9	7285.1	6835.1
27.5°	8833.2	8759.0	8650.0	8393.0	7955.2	7749.9	7616.5	7455.8	7497.8	7599.1	7089.8
30°	9565.1	9483.4	9233.7	8838.1	8274.2	8059.1	7903.3	7735.1	7834.1	8019.4	7431.0
32.5°	10287.1	10195.7	9842.0	9342.6	8731.7	8516.7	8365.7	8180.2	8346.0	8657.5	7930.4
35°	10987.0	10905.3	10497.4	9908.8	9340.0	9162.1	9023.6	8862.8	9075.4	9510.6	8635.2
37.5°	11773.4	11684.3	11187.3	10549.2	10079.4	9950.9	9849.5	9688.7	10059.6	10697.6	9617.1
40°	12740.2	12589.3	11919.3	11283.7	10935.1	10873.3	10803.9	10781.7	11357.9	12240.8	10925.1
42.5°	13848.1	13600.8	12685.9	12057.7	11874.8	11919.3	11902.0	12000.8	12982.6	14159.7	12517.7
45°	14955.9	14637.0	13539.0	12883.8	12908.4	13064.2	13160.6	13556.3	15017.8	16360.6	14231.4
47.5°	15895.6	15581.6	14357.5	13776.3	14073.0	14379.8	14641.8	15391.2	17109.7	18526.7	15564.3
50°	16699.3	16402.5	15225.5	14758.2	15425.8	15920.3	16345.6	17456.0	19360.1	20176.1	16499.0
52.5°	17357.1	17159.2	16125.7	15883.2	16971.3	17695.9	18319.0	19649.4	21353.3	21516.5	17226.0
55°	17997.5	17856.6	17092.5	17221.0	18786.4	19773.1	20561.9	21976.5	23069.5	22634.2	17923.4
57.5°	18734.5	18605.9	18195.3	18917.4	21172.7	22414.1	23274.6	24038.9	24580.3	23776.7	18581.3
60°	19486.3	19412.1	19422.0	20801.8	23912.7	25104.7	25579.3	25777.3	26064.1	24852.4	18618.2
62.5°	20203.4	20344.4	20824.1	22898.8	26536.4	27451.3	27691.2	27886.5	27550.3	25022.9	17201.4
65°	21417.6	21647.5	22792.4	25705.4	29422.2	30401.5	30648.8	29978.6	27785.1	22817.2	13991.6
67.5°	22011.0	22431.4	24474.1	28321.9	32221.6	33309.6	33218.1	30114.6	24934.0	17399.1	8979.0
69°	21887.5	22335.0	24862.3	29123.1	33151.3	34138.0	33556.8	28450.4	21242.0	12604.2	5512.0
70°	21397.7	21850.4	24662.0	29093.3	33270.0	34051.4	32928.8	26395.4	17960.4	9216.4	3447.2
72.5°	17868.9	18259.7	21894.7	26296.5	30648.8	30013.2	27547.9	18286.8	8751.5	2510.0	776.5
75°	10999.3	11217.0	15710.2	19810.2	23148.6	21516.5	18353.7	9097.8	2608.9	709.8	430.3
77.5°	5811.2	5910.2	8600.6	11676.9	14674.1	12141.9	9406.8	3548.6	1201.8	445.1	311.6
80°	3434.8	3509.0	4631.8	5338.9	6350.4	5304.3	3761.3	2178.6	860.5	279.5	276.9
82.5°	1965.9	2012.9	3358.1	2967.5	2502.6	2136.6	1872.0	2064.8	516.9	187.9	286.9
85°	722.1	731.9	1889.2	2257.7	1488.8	885.3	929.7	1711.2	138.5	118.7	225.0
87.5°	336.3	328.9	971.8	1382.3	870.5	561.4	724.6	375.9	54.3	76.6	61.9
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°	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8	6206.8
2.5°	6132.6	6041.2	5875.5	5705.0	5531.9	5398.3	5267.2	5163.4	5128.8	5064.5	5069.3
5°	5944.9	5776.6	5430.4	5079.2	4713.2	4411.5	4127.3	3897.2	3785.9	3672.2	3672.2
7.5°	5781.6	5536.8	4995.3	4424.0	3833.0	3335.9	2888.3	2552.1	2366.6	2218.2	2215.7
10°	5719.8	5388.5	4631.8	3813.1	2989.6	2312.1	1780.5	1439.3	1263.6	1149.9	1144.9
12.5°	5746.9	5336.4	4352.3	3249.3	2215.7	1486.2	1031.2	811.1	736.9	702.2	702.2
15°	5826.0	5321.6	4072.8	2697.9	1565.3	929.7	685.0	625.6	620.6	620.6	620.6
17.5°	5922.5	5326.6	3785.9	2161.3	1065.7	665.3	591.1	583.5	588.5	588.5	588.5
20°	6021.5	5329.0	3476.9	1664.2	751.7	578.7	556.4	554.0	558.8	558.8	561.4
22.5°	6142.6	5341.4	3167.8	1243.9	620.6	546.4	529.2	529.2	531.6	531.6	529.2
25°	6281.0	5366.1	2846.3	922.4	566.3	524.3	509.3	507.0	509.3	507.0	504.5
27.5°	6454.2	5400.8	2487.6	722.1	541.6	502.1	489.7	489.7	487.2	484.6	482.2
30°	6671.8	5440.3	2084.6	613.3	516.9	482.2	469.9	467.4	465.0	459.9	459.9
32.5°	7003.1	5526.9	1686.5	556.4	489.7	455.0	445.1	445.1	440.2	435.1	432.8
35°	7512.5	5697.5	1330.4	521.7	459.9	425.3	413.0	413.0	408.0	405.6	403.1
37.5°	8217.3	5957.1	1033.7	489.7	430.3	393.2	380.8	378.4	373.3	368.5	366.0
40°	9154.5	6278.7	813.5	459.9	400.6	361.1	351.1	346.1	336.3	328.9	328.9
42.5°	10331.6	6644.7	660.3	427.9	366.0	331.4	324.0	316.6	299.2	291.8	289.3
45°	11563.2	6973.5	558.8	390.8	331.4	301.7	296.7	284.4	262.1	254.7	254.7
47.5°	12450.9	7050.2	492.1	356.1	299.2	269.5	267.1	244.8	225.0	220.1	217.6
50°	13004.9	6899.3	437.7	321.5	269.5	239.8	232.4	205.3	192.9	187.9	185.5
52.5°	13378.3	6629.9	393.2	291.8	242.4	212.7	195.3	175.6	165.6	160.7	160.7
55°	13677.5	6249.0	348.7	264.6	220.1	190.4	165.6	150.8	140.9	136.1	136.1
57.5°	13761.6	5732.2	304.2	242.4	197.8	168.2	140.9	131.1	118.7	116.2	116.2
60°	13150.7	4799.9	269.5	215.1	178.0	146.0	123.6	111.3	99.0	96.5	94.0
62.5°	11540.9	3714.2	237.4	190.4	155.8	126.1	106.3	91.4	81.6	81.6	81.6
65°	8803.4	2490.2	207.7	165.6	136.1	106.3	91.4	74.2	69.2	69.2	71.8
67.5°	5269.6	1355.2	178.0	140.9	116.2	89.0	76.6	64.3	61.9	64.3	64.3
69°	3088.6	796.3	160.7	126.1	101.4	79.1	66.7	56.9	61.9	64.3	64.3
70°	1906.7	536.6	148.4	113.7	91.4	71.8	61.9	54.3	59.4	61.9	61.9
72.5°	531.6	276.9	118.7	89.0	74.2	59.4	49.4	49.4	56.9	59.4	59.4
75°	346.1	205.3	91.4	66.7	56.9	47.0	42.0	47.0	54.3	56.9	56.9
77.5°	286.9	168.2	74.2	54.3	47.0	44.6	39.5	42.0	49.4	51.9	51.9
80°	262.1	118.7	59.4	49.4	42.0	39.5	37.1	34.7	44.6	47.0	47.0
82.5°	249.8	94.0	51.9	44.6	39.5	34.7	32.2	34.7	39.5	42.0	44.6
85°	155.8	61.9	47.0	42.0	34.7	32.2	32.2	32.2	37.1	39.5	39.5
87.5°	56.9	49.4	42.0	34.7	29.6	29.6	29.6	29.6	32.2	37.1	37.1
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)