

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: P269487

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269487
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-07-LED-E1-SL4-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 32567.5 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 448
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

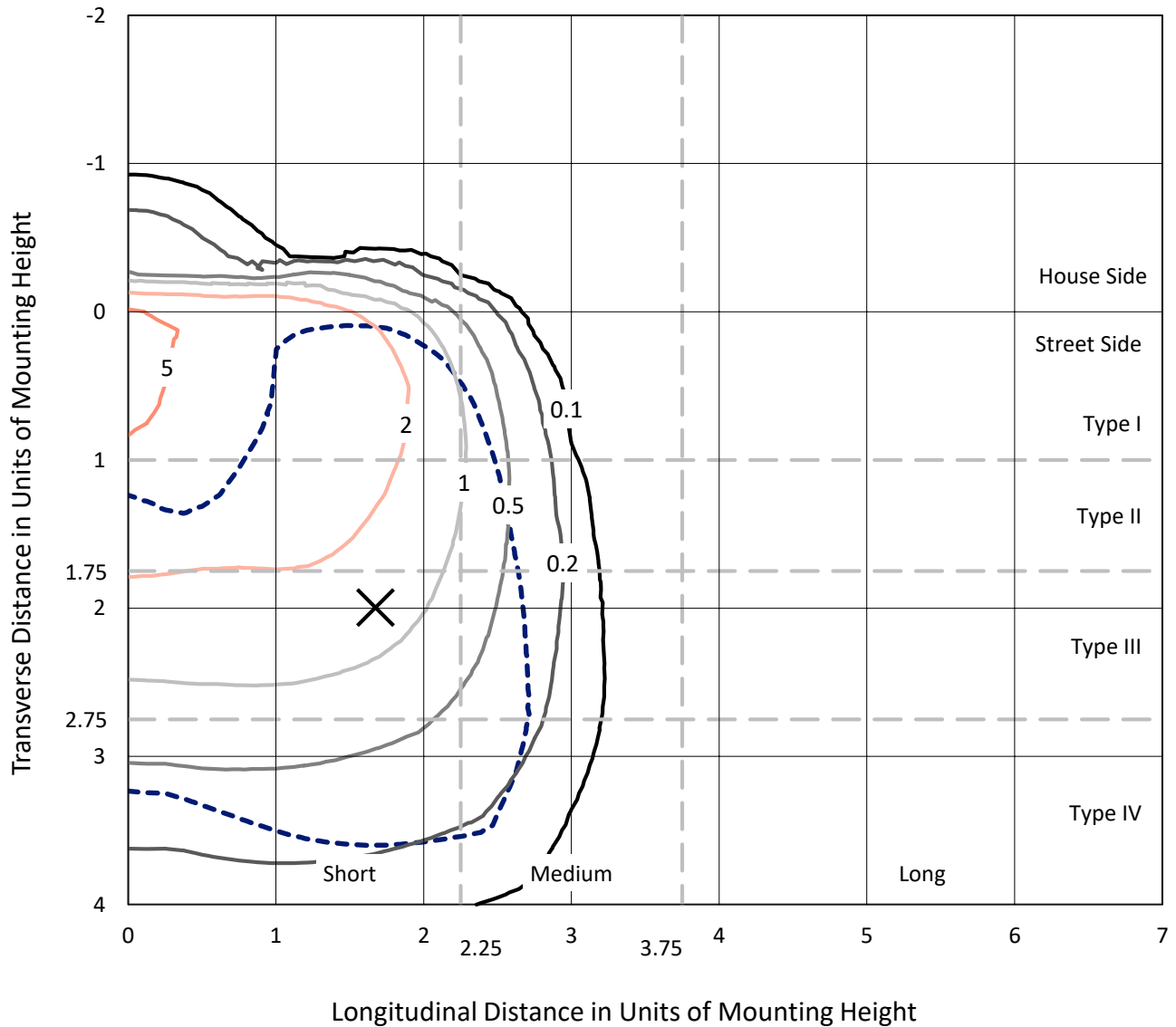


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

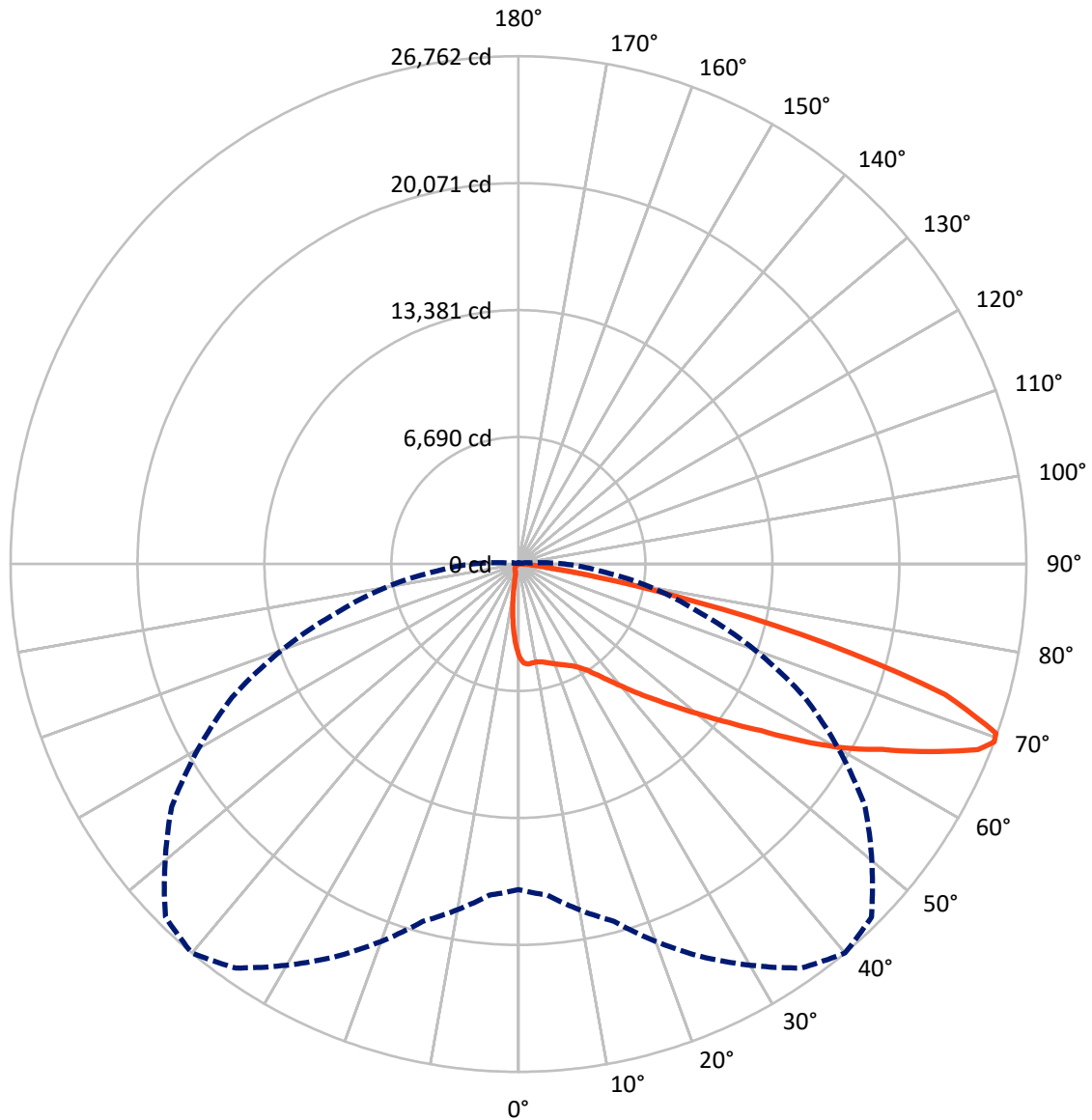


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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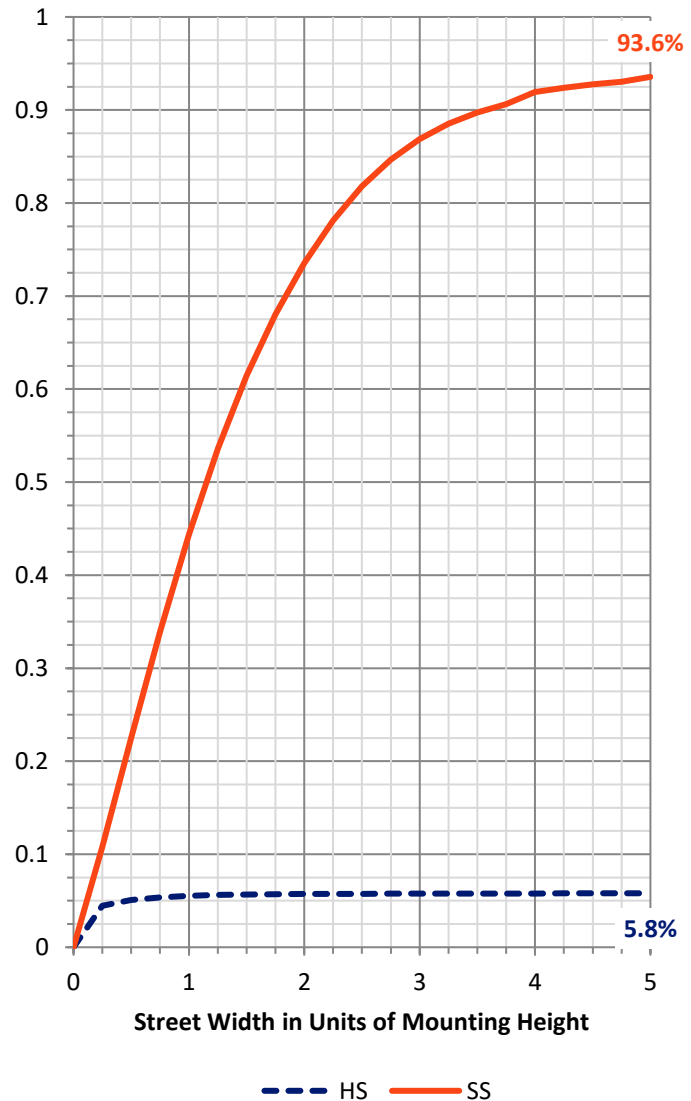
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1905.4	0.0	1905.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	30662.1	0.0	30662.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	32567.5	0.0	32567.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.5	1.2
10°-20°	970.2	3.0
20°-30°	1634.1	5.0
30°-40°	2675.1	8.2
40°-50°	4631.9	14.2
50°-60°	7295.7	22.4
60°-70°	9527.9	29.3
70°-80°	4907.3	15.1
80°-90°	530.8	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°	32567.5	100.0
0°-180°	32567.5	100.0



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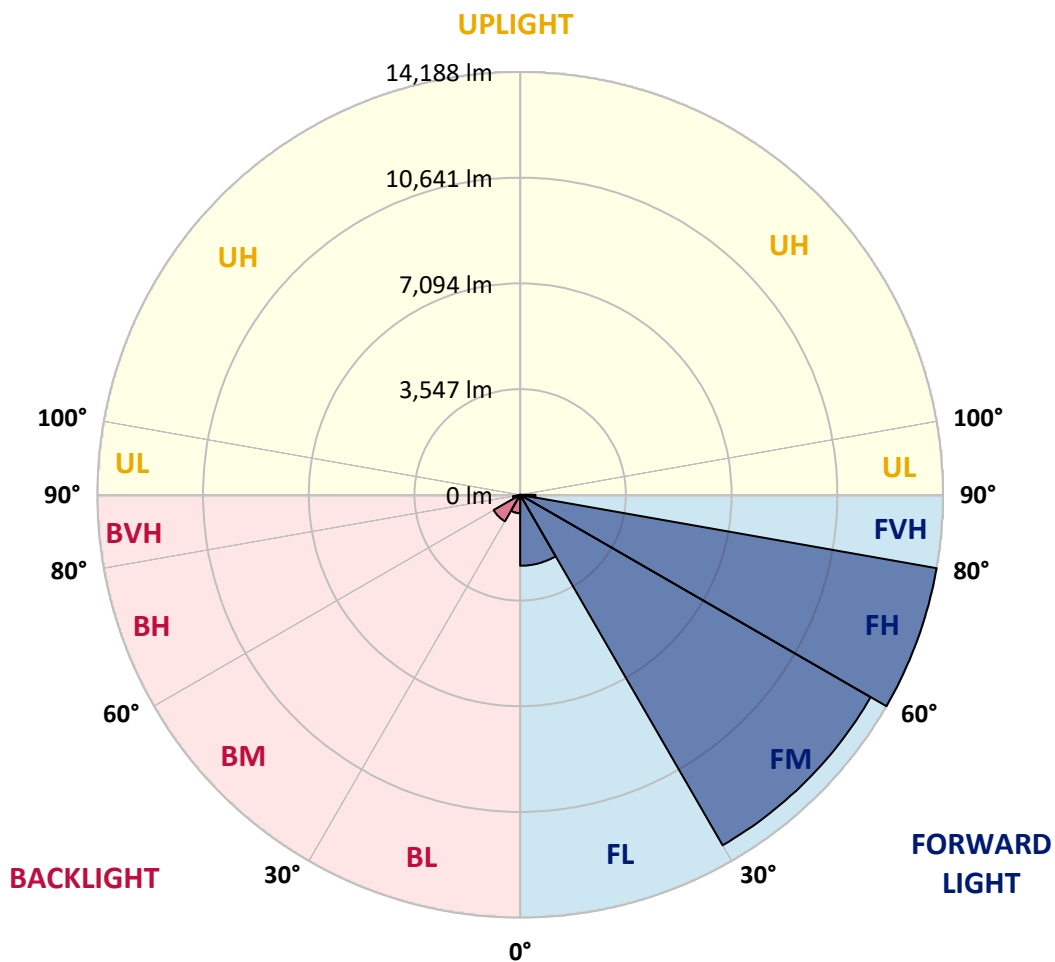
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2381.6	7.3			
FM	(30°-60°)	13578.6	41.7			
FH	(60°-80°)	14187.8	43.6			G5
FVH	(80°-90°)	514.2	1.6			G4/750
BL	(0°-30°)	617.2	1.9	B2/1000		
BM	(30°-60°)	1024.1	3.1	B2/2500		
BH	(60°-80°)	247.4	0.8	B1/500		G1/500
BVH	(80°-90°)	16.7	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°	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8
2.5°	5342.6	5313.6	5296.0	5272.8	5243.8	5218.6	5208.9	5137.1	5069.2	4976.3	4869.6
5°	5441.6	5431.8	5400.8	5369.8	5334.9	5296.0	5274.8	5189.5	5092.6	4956.8	4770.8
7.5°	5451.2	5439.5	5400.8	5358.1	5309.7	5263.2	5226.2	5141.0	5051.9	4914.2	4687.4
10°	5435.6	5422.1	5393.1	5346.5	5286.4	5241.8	5205.0	5123.7	5047.9	4923.9	4671.8
12.5°	5418.2	5404.7	5391.1	5367.8	5315.5	5284.5	5253.5	5175.9	5108.1	5003.4	4728.0
15°	5435.6	5427.9	5443.4	5433.8	5404.7	5377.6	5346.5	5276.7	5214.8	5127.4	4830.8
17.5°	5509.3	5509.3	5557.9	5563.7	5536.6	5497.7	5453.2	5383.4	5331.0	5257.3	4953.0
20°	5681.9	5676.1	5738.2	5749.7	5683.8	5623.7	5557.9	5472.6	5431.8	5385.2	5073.2
22.5°	5978.5	5951.4	5988.2	5976.6	5846.7	5753.6	5672.2	5567.5	5546.1	5524.8	5206.9
25°	6364.2	6348.7	6374.0	6259.6	6030.9	5904.7	5807.9	5689.7	5689.7	5711.0	5358.1
27.5°	6924.5	6866.4	6781.0	6579.5	6236.4	6075.3	5970.8	5844.7	5877.7	5957.2	5557.9
30°	7498.3	7434.4	7238.5	6928.4	6486.4	6317.7	6195.6	6063.7	6141.4	6286.7	5825.2
32.5°	8064.4	7992.6	7715.5	7323.8	6845.1	6676.4	6558.0	6412.7	6542.5	6786.9	6216.9
35°	8612.9	8549.0	8229.2	7767.7	7321.8	7182.3	7073.8	6947.8	7114.4	7455.7	6769.4
37.5°	9229.5	9159.7	8770.1	8269.8	7901.5	7800.7	7721.2	7595.2	7886.0	8386.1	7539.0
40°	9987.4	9869.1	9343.8	8845.6	8572.3	8523.7	8469.5	8452.1	8903.7	9595.9	8564.5
42.5°	10855.8	10662.1	9944.7	9452.3	9308.9	9343.8	9330.2	9407.8	10177.3	11100.1	9812.9
45°	11724.4	11474.3	10613.6	10099.9	10119.1	10241.3	10316.9	10627.0	11772.7	12825.5	11156.3
47.5°	12461.0	12214.9	11255.3	10799.7	11032.3	11272.7	11478.2	12065.6	13412.9	14523.5	12201.1
50°	13091.0	12858.3	11935.6	11569.2	12092.7	12480.3	12813.9	13684.2	15176.9	15816.5	12933.9
52.5°	13606.6	13451.6	12641.3	12451.2	13304.3	13872.3	14360.8	15403.6	16739.3	16867.4	13504.0
55°	14108.8	13998.3	13399.3	13500.1	14727.2	15500.7	16119.0	17227.9	18084.7	17743.5	14050.6
57.5°	14686.4	14585.6	14263.8	14829.8	16597.9	17570.9	18245.7	18844.6	19269.2	18639.1	14566.2
60°	15275.8	15217.6	15225.4	16307.0	18745.7	19680.2	20052.3	20207.5	20432.3	19482.4	14595.3
62.5°	15837.9	15948.4	16324.4	17950.9	20802.6	21519.8	21707.8	21861.1	21597.4	19616.2	13484.5
65°	16789.7	16970.1	17867.6	20151.1	23064.8	23832.6	24026.3	23501.0	21781.6	17887.1	10968.3
67.5°	17255.1	17584.6	19185.8	22202.1	25259.4	26112.2	26040.4	23607.6	19546.4	13639.7	7038.8
69°	17158.0	17509.0	19490.2	22830.2	25988.1	26761.6	26306.1	22302.9	16652.2	9880.7	4321.0
70°	16774.2	17129.1	19333.1	22807.0	26081.2	26693.9	25813.8	20692.1	14079.7	7225.0	2702.3
72.5°	14007.9	14314.2	17163.8	20614.6	24026.3	23528.1	21595.4	14335.5	6860.5	1967.6	608.7
75°	8622.7	8793.2	12315.7	15529.7	18146.8	16867.4	14388.0	7132.0	2045.3	556.4	337.4
77.5°	4555.6	4633.1	6742.3	9153.8	11503.3	9518.4	7374.2	2781.8	942.1	348.9	244.2
80°	2692.6	2750.8	3630.9	4185.4	4978.1	4158.2	2948.5	1707.9	674.5	219.0	217.1
82.5°	1541.1	1578.1	2632.6	2326.3	1961.8	1674.9	1467.6	1618.7	405.1	147.3	224.8
85°	566.0	573.7	1481.0	1769.9	1167.0	694.0	728.9	1341.4	108.5	93.1	176.3
87.5°	263.7	257.9	761.9	1083.6	682.4	440.1	568.0	294.6	42.7	60.0	48.5
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°	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8
2.5°	4807.5	4735.9	4606.0	4472.2	4336.6	4231.8	4129.1	4047.8	4020.5	3970.1	3974.0
5°	4660.2	4528.4	4257.1	3981.7	3694.9	3458.4	3235.4	3055.1	2967.9	2878.8	2878.8
7.5°	4532.3	4340.4	3915.9	3468.0	3004.7	2615.1	2264.2	2000.5	1855.2	1738.8	1737.0
10°	4483.9	4224.1	3630.9	2989.2	2343.7	1812.5	1395.7	1128.2	990.7	901.4	897.5
12.5°	4505.2	4183.3	3411.9	2547.2	1737.0	1165.0	808.4	635.8	577.7	550.5	550.5
15°	4567.3	4171.8	3192.8	2115.0	1227.2	728.9	536.9	490.5	486.6	486.6	486.6
17.5°	4642.8	4175.6	2967.9	1694.4	835.6	521.5	463.3	457.4	461.4	461.4	461.4
20°	4720.4	4177.6	2725.5	1304.7	589.3	453.6	436.1	434.2	438.2	438.2	440.1
22.5°	4815.4	4187.3	2483.3	975.1	486.6	428.4	414.8	414.8	416.9	416.9	414.8
25°	4923.9	4206.7	2231.3	723.0	443.9	411.0	399.3	397.4	399.3	397.4	395.4
27.5°	5059.7	4233.8	1950.2	566.0	424.5	393.5	383.8	383.8	381.9	380.0	377.9
30°	5230.2	4264.9	1634.1	480.8	405.1	377.9	368.3	366.4	364.4	360.6	360.6
32.5°	5490.0	4332.6	1322.0	436.1	383.8	356.6	348.9	348.9	345.0	341.1	339.2
35°	5889.3	4466.5	1042.9	409.1	360.6	333.5	323.7	323.7	319.8	317.9	315.9
37.5°	6441.7	4670.0	810.4	383.8	337.4	308.2	298.5	296.6	292.7	288.9	286.9
40°	7176.5	4922.0	637.7	360.6	314.0	283.1	275.3	271.4	263.7	257.9	257.9
42.5°	8099.3	5208.9	517.7	335.3	286.9	259.8	254.0	248.1	234.5	228.8	226.8
45°	9064.6	5466.6	438.2	306.3	259.8	236.6	232.7	222.9	205.5	199.7	199.7
47.5°	9760.5	5526.8	385.7	279.2	234.5	211.3	209.3	191.9	176.3	172.6	170.6
50°	10194.9	5408.5	343.2	252.1	211.3	188.0	182.3	160.8	151.3	147.3	145.3
52.5°	10487.5	5197.2	308.2	228.8	190.0	166.7	153.2	137.6	129.8	126.0	126.0
55°	10722.1	4898.6	273.4	207.4	172.6	149.3	129.8	118.2	110.5	106.5	106.5
57.5°	10788.0	4493.5	238.4	190.0	155.0	131.8	110.5	102.8	93.1	91.1	91.1
60°	10309.2	3762.7	211.3	168.6	139.5	114.4	96.9	87.2	77.6	75.5	73.8
62.5°	9047.2	2911.6	186.0	149.3	122.1	98.9	83.4	71.8	64.0	64.0	64.0
65°	6901.1	1952.0	162.9	129.8	106.5	83.4	71.8	58.2	54.3	54.3	56.2
67.5°	4131.0	1062.3	139.5	110.5	91.1	69.8	60.0	50.5	48.5	50.5	50.5
69°	2421.2	624.2	126.0	98.9	79.5	62.1	52.3	44.6	48.5	50.5	50.5
70°	1494.6	420.6	116.3	89.2	71.8	56.2	48.5	42.7	46.5	48.5	48.5
72.5°	416.9	217.1	93.1	69.8	58.2	46.5	38.7	38.7	44.6	46.5	46.5
75°	271.4	160.8	71.8	52.3	44.6	36.8	33.0	36.8	42.7	44.6	44.6
77.5°	224.8	131.8	58.2	42.7	36.8	34.9	31.0	33.0	38.7	40.8	40.8
80°	205.5	93.1	46.5	38.7	33.0	31.0	29.0	27.2	34.9	36.8	36.8
82.5°	195.8	73.8	40.8	34.9	31.0	27.2	25.2	27.2	31.0	33.0	34.9
85°	122.1	48.5	36.8	33.0	27.2	25.2	25.2	25.2	29.0	31.0	31.0
87.5°	44.6	38.7	33.0	27.2	23.3	23.3	23.3	23.3	25.2	29.0	29.0
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)