

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: P191227

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191227
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-SL4-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 48465.4 lumens
Efficiency: N/A
Efficacy: 84.3 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): 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

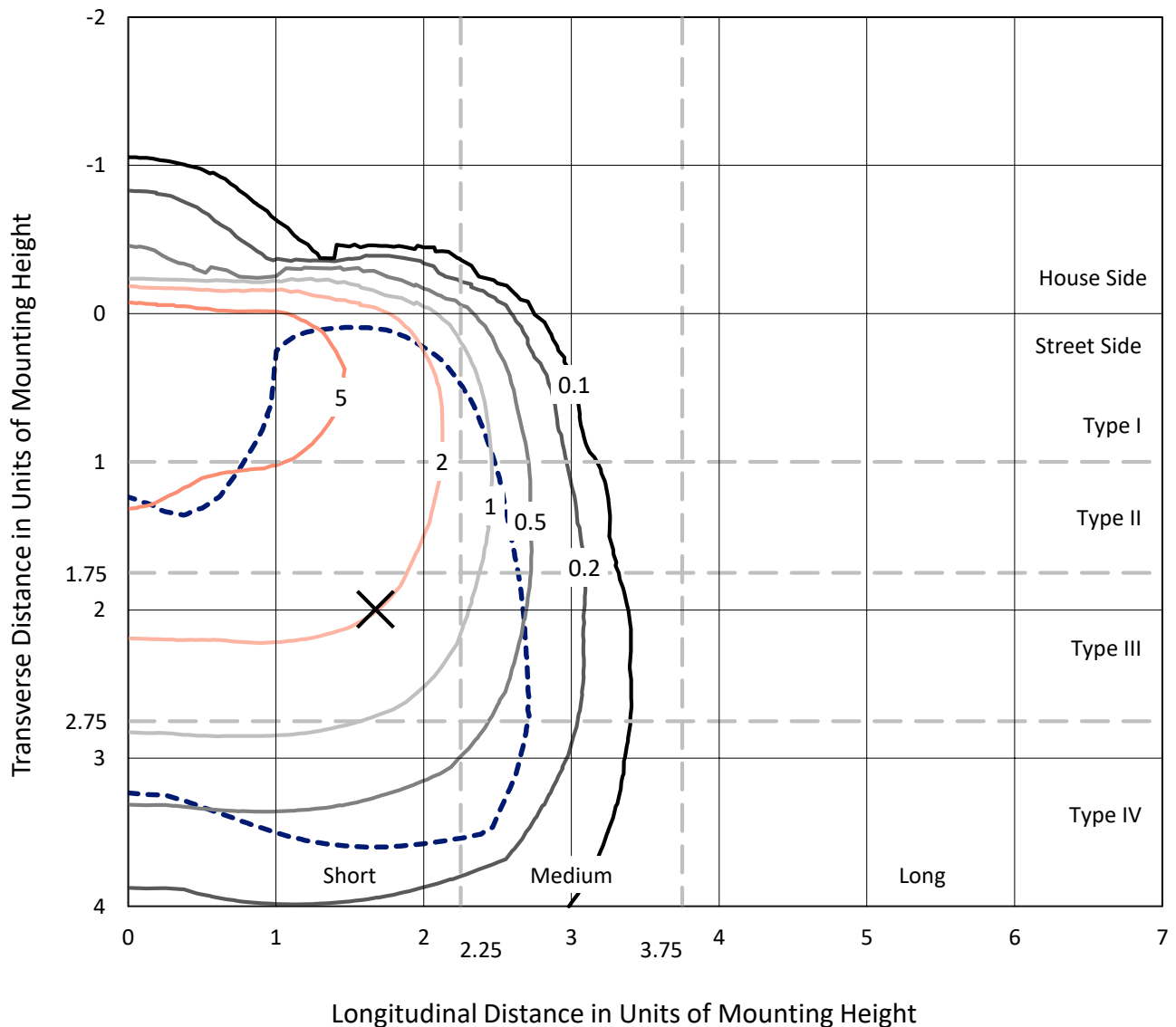


REPORT NUMBER: P191227

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL4-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

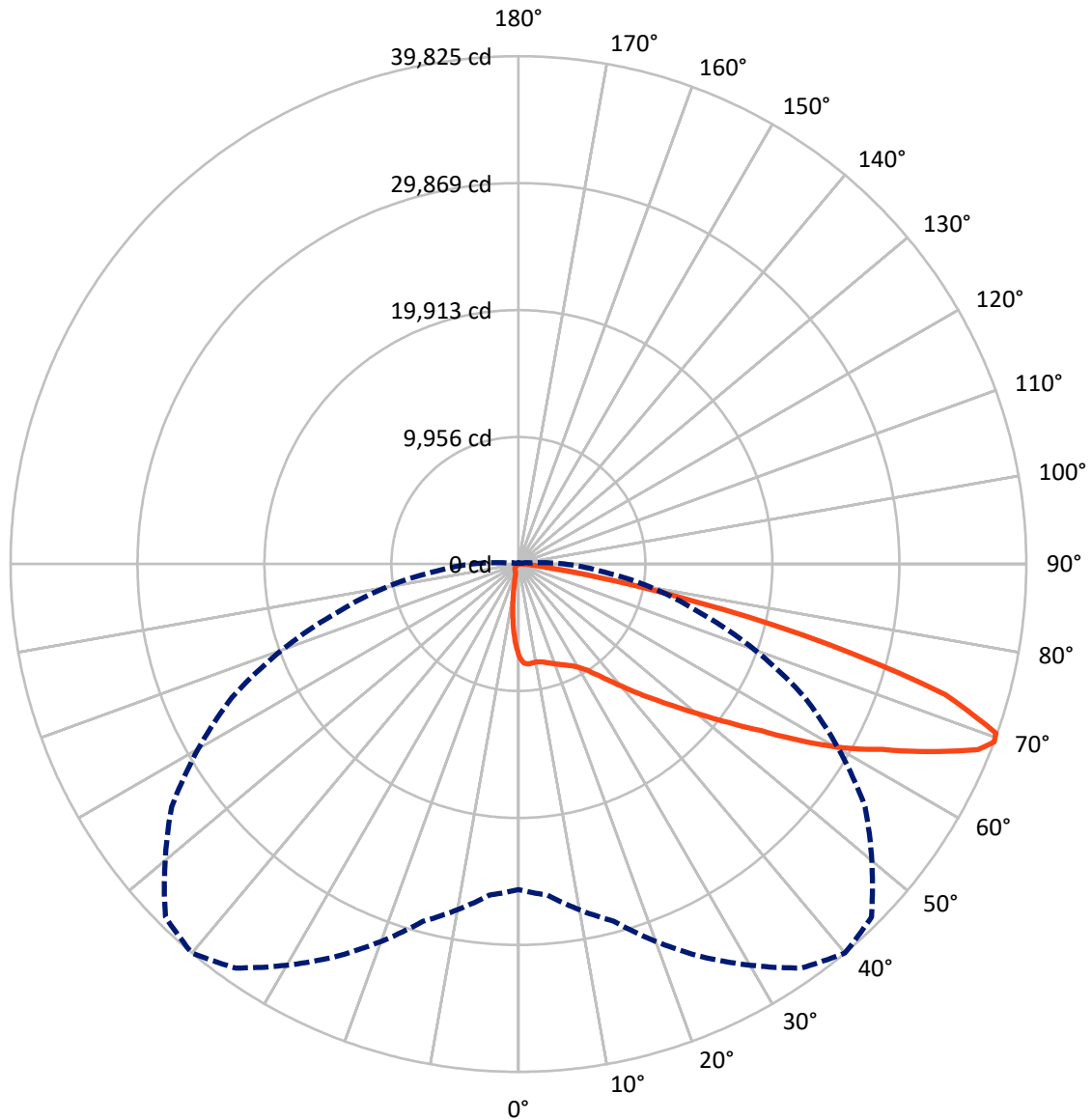


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191227

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL4-1200-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191227

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL4-1200-HSS

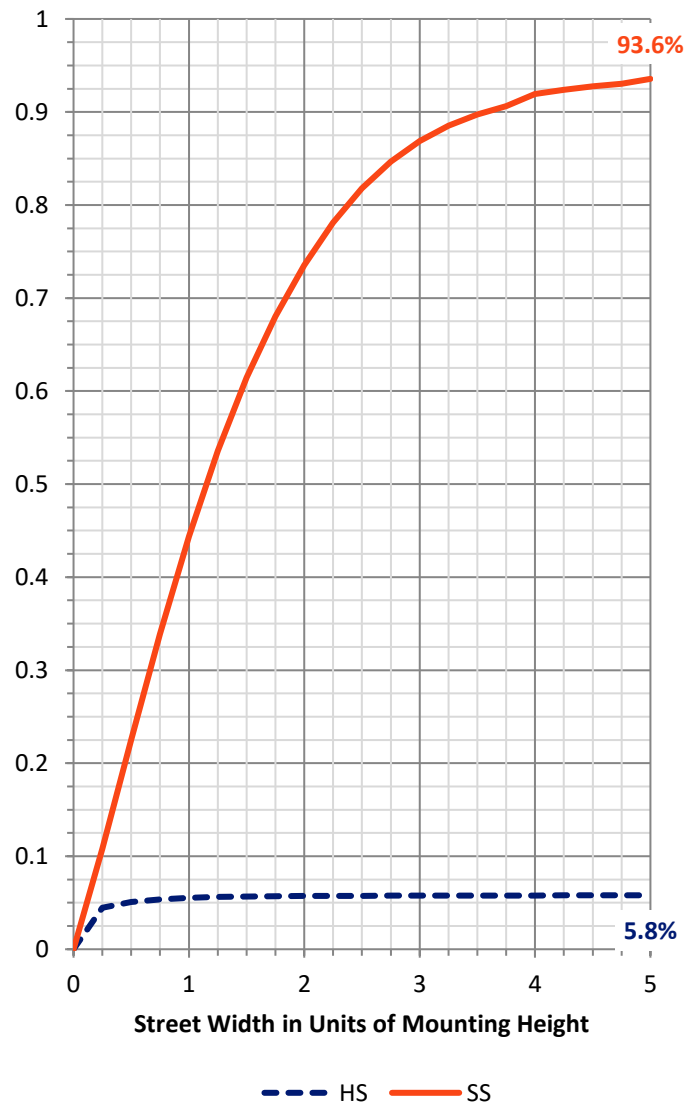
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2835.5	0.0	2835.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	45629.9	0.0	45629.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	48465.4	0.0	48465.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.1	1.2
10°-20°	1443.8	3.0
20°-30°	2431.8	5.0
30°-40°	3981.0	8.2
40°-50°	6893.0	14.2
50°-60°	10857.1	22.4
60°-70°	14178.9	29.3
70°-80°	7302.8	15.1
80°-90°	789.9	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°	48465.4	100.0
0°-180°	48465.4	100.0

Coefficient of Utilization



REPORT NUMBER: P191227

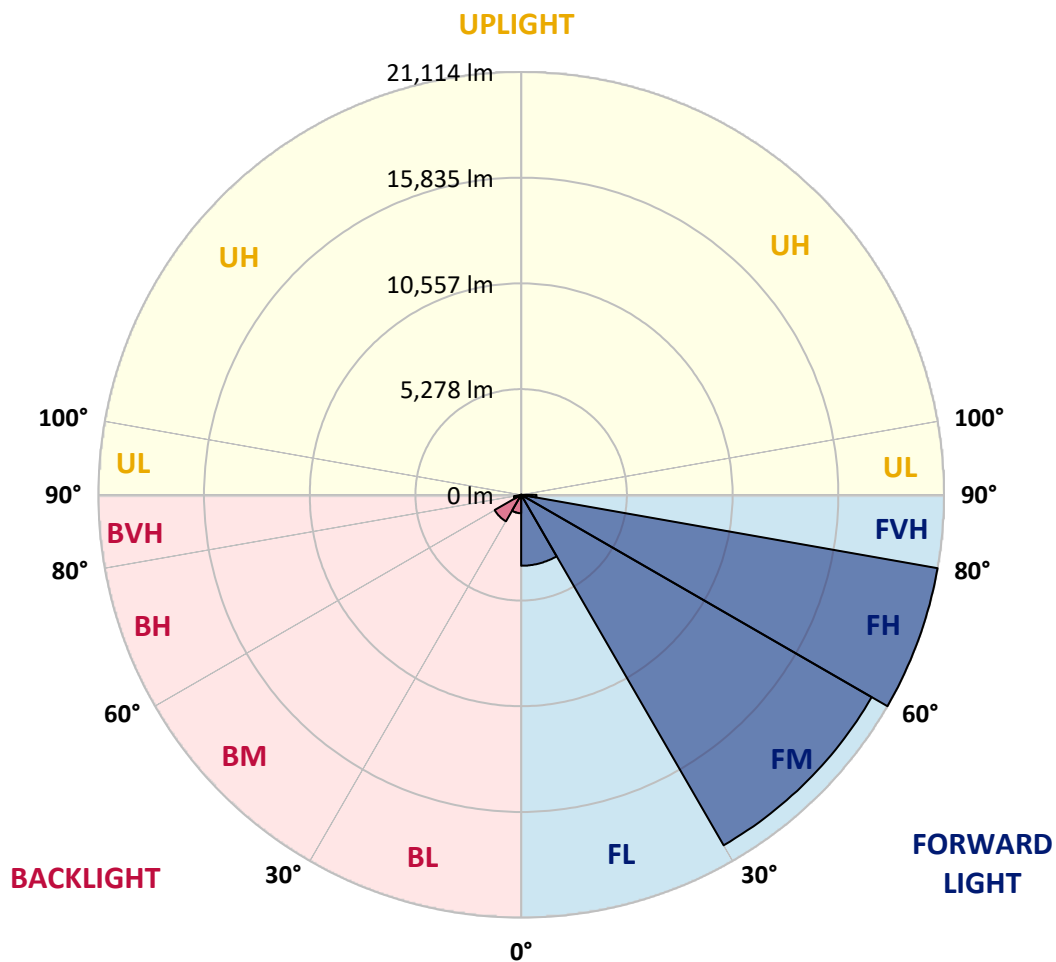
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3544.2	7.3			
FM	(30°-60°)	20207.0	41.7			
FH	(60°-80°)	21113.5	43.6			G5
FVH	(80°-90°)	765.1	1.6			G5
BL	(0°-30°)	918.5	1.9	B2/1000		
BM	(30°-60°)	1524.0	3.1	B2/2500		
BH	(60°-80°)	368.2	0.8	B1/500		G1/500
BVH	(80°-90°)	24.8	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°	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0
2.5°	7950.7	7907.4	7881.4	7846.7	7803.5	7766.0	7751.6	7644.8	7543.9	7405.4	7246.8
5°	8097.8	8083.4	8037.2	7991.0	7939.1	7881.4	7849.7	7722.8	7578.5	7376.6	7099.6
7.5°	8112.2	8094.9	8037.2	7973.7	7901.6	7832.3	7777.6	7650.6	7517.9	7313.1	6975.6
10°	8089.1	8068.9	8025.7	7956.4	7867.0	7800.6	7745.8	7624.7	7512.1	7327.5	6952.5
12.5°	8063.2	8043.0	8022.8	7988.1	7910.3	7864.1	7817.9	7702.5	7601.5	7445.8	7036.2
15°	8089.1	8077.6	8100.6	8086.2	8043.0	8002.5	7956.4	7852.6	7760.2	7630.4	7189.1
17.5°	8198.7	8198.7	8270.9	8279.6	8239.2	8181.5	8115.1	8011.2	7933.3	7823.7	7370.8
20°	8455.5	8446.8	8539.2	8556.5	8458.4	8369.0	8270.9	8143.9	8083.4	8014.1	7549.7
22.5°	8896.9	8856.5	8911.3	8893.9	8700.7	8562.2	8441.1	8285.3	8253.6	8221.9	7748.8
25°	9471.0	9447.9	9485.4	9315.2	8974.8	8787.2	8643.0	8467.1	8467.1	8498.8	7973.7
27.5°	10304.7	10218.2	10091.2	9791.2	9280.5	9041.1	8885.4	8697.8	8746.8	8865.1	8270.9
30°	11158.6	11063.4	10772.1	10310.4	9652.7	9401.7	9220.0	9023.9	9139.2	9355.6	8669.0
32.5°	12001.0	11894.3	11481.7	10898.9	10186.4	9935.4	9759.5	9543.1	9736.3	10099.9	9251.7
35°	12817.4	12722.2	12246.2	11559.5	10896.1	10688.4	10526.8	10339.3	10587.4	11095.1	10073.9
37.5°	13734.8	13630.9	13051.1	12306.8	11758.6	11608.7	11490.4	11302.9	11735.6	12479.9	11219.2
40°	14862.8	14686.8	13905.0	13163.5	12756.8	12684.7	12603.9	12578.0	13250.1	14280.0	12745.3
42.5°	16155.2	15866.7	14799.2	14066.5	13853.0	13905.0	13884.8	14000.2	15145.5	16518.6	14603.1
45°	17447.6	17075.4	15794.6	15030.1	15059.0	15240.6	15353.2	15814.7	17519.7	19086.2	16602.3
47.5°	18543.8	18177.4	16749.5	16071.5	16417.6	16775.4	17081.2	17955.3	19960.3	21613.3	18157.3
50°	19481.4	19135.2	17762.0	17216.8	17995.6	18572.7	19068.8	20364.2	22585.5	23537.5	19247.7
52.5°	20248.8	20018.0	18812.1	18529.4	19798.7	20644.0	21371.0	22923.0	24910.7	25101.1	20095.9
55°	20996.0	20831.5	19940.1	20090.1	21916.2	23067.2	23987.5	25637.7	26912.8	26405.0	20909.4
57.5°	21855.7	21705.6	21226.7	22069.1	24700.1	26148.3	27152.2	28043.6	28675.5	27737.8	21676.7
60°	22732.6	22646.1	22657.6	24267.4	27896.5	29287.0	29840.9	30071.7	30406.3	28992.8	21720.0
62.5°	23569.2	23733.7	24293.3	26713.7	30957.4	32024.7	32304.6	32532.5	32140.1	29191.8	20067.0
65°	24985.7	25254.0	26589.7	29988.0	34324.0	35466.3	35754.8	34973.1	32414.1	26618.5	16322.5
67.5°	25678.0	26168.5	28551.4	33040.2	37589.6	38858.9	38752.2	35131.7	29087.9	20297.8	10474.9
69°	25533.8	26056.0	29004.2	33974.9	38674.3	39825.3	39147.4	33190.3	24780.9	14704.1	6430.4
70°	24962.7	25490.5	28770.6	33940.3	38812.8	39724.4	38414.7	30792.9	20952.7	10751.8	4021.5
72.5°	20845.9	21301.7	25542.5	30677.5	35754.8	35013.5	32137.2	21333.4	10209.5	2928.1	905.8
75°	12831.8	13085.7	18327.5	23110.5	27005.1	25101.1	21411.4	10613.3	3043.5	828.0	502.0
77.5°	6779.4	6894.8	10033.5	13622.2	17118.7	14164.6	10974.0	4139.8	1402.1	519.2	363.5
80°	4007.1	4093.6	5403.3	6228.4	7408.3	6188.0	4387.8	2541.5	1003.9	326.0	323.2
82.5°	2293.5	2348.3	3917.6	3461.9	2919.5	2492.5	2183.8	2408.8	602.9	219.2	334.6
85°	842.4	854.0	2204.0	2633.9	1736.7	1032.8	1084.7	1996.3	161.5	138.5	262.5
87.5°	392.3	383.7	1133.7	1612.7	1015.5	654.9	845.3	438.5	63.4	89.4	72.1
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°	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0	7241.0
2.5°	7154.4	7047.7	6854.4	6655.3	6453.4	6297.6	6144.8	6023.5	5983.1	5908.2	5914.0
5°	6935.2	6739.0	6335.1	5925.4	5498.6	5146.6	4814.8	4546.5	4416.7	4284.0	4284.0
7.5°	6744.8	6459.2	5827.4	5161.0	4471.5	3891.7	3369.5	2977.2	2760.8	2587.8	2584.8
10°	6672.7	6286.1	5403.3	4448.4	3487.8	2697.3	2077.1	1679.0	1474.2	1341.5	1335.7
12.5°	6704.4	6225.5	5077.3	3790.6	2584.8	1733.8	1203.0	946.2	859.7	819.3	819.3
15°	6796.7	6208.2	4751.3	3147.4	1826.1	1084.7	799.1	729.9	724.1	724.1	724.1
17.5°	6909.2	6214.0	4416.7	2521.4	1243.4	776.0	689.5	680.8	686.6	686.6	686.6
20°	7024.6	6216.9	4056.1	1941.5	877.0	675.0	649.1	646.2	651.9	651.9	654.9
22.5°	7166.0	6231.3	3695.5	1451.1	724.1	637.5	617.4	617.4	620.2	620.2	617.4
25°	7327.5	6260.2	3320.5	1076.0	660.6	611.6	594.2	591.4	594.2	591.4	588.5
27.5°	7529.4	6300.6	2902.1	842.4	631.8	585.6	571.2	571.2	568.4	565.4	562.5
30°	7783.3	6346.7	2432.0	715.5	602.9	562.5	548.1	545.2	542.4	536.5	536.5
32.5°	8169.9	6447.7	1967.4	649.1	571.2	530.8	519.2	519.2	513.5	507.7	504.8
35°	8764.1	6646.7	1552.0	608.7	536.5	496.2	481.8	481.8	476.0	473.1	470.3
37.5°	9586.4	6949.6	1205.9	571.2	502.0	458.7	444.3	441.4	435.6	429.8	427.0
40°	10679.7	7324.6	949.1	536.5	467.4	421.1	409.7	403.9	392.3	383.7	383.7
42.5°	12052.9	7751.6	770.3	499.1	427.0	386.6	377.9	369.3	349.0	340.4	337.6
45°	13489.6	8135.3	651.9	455.8	386.6	352.0	346.2	331.7	305.8	297.2	297.2
47.5°	14525.2	8224.7	574.1	415.4	349.0	314.5	311.6	285.6	262.5	256.8	253.9
50°	15171.4	8048.8	510.7	375.0	314.5	279.9	271.2	239.5	225.0	219.2	216.4
52.5°	15607.1	7734.3	458.7	340.4	282.7	248.1	227.9	204.8	193.2	187.5	187.5
55°	15956.1	7290.1	406.7	308.7	256.8	222.1	193.2	175.9	164.4	158.7	158.7
57.5°	16054.2	6687.1	354.9	282.7	230.8	196.2	164.4	152.9	138.5	135.5	135.5
60°	15341.6	5599.5	314.5	251.0	207.7	170.2	144.2	129.8	115.4	112.5	109.7
62.5°	13463.6	4333.0	276.9	222.1	181.8	147.1	124.1	106.7	95.2	95.2	95.2
65°	10270.0	2905.1	242.3	193.2	158.7	124.1	106.7	86.5	80.8	80.8	83.7
67.5°	6147.6	1580.9	207.7	164.4	135.5	103.8	89.4	75.0	72.1	75.0	75.0
69°	3603.1	928.9	187.5	147.1	118.3	92.3	77.8	66.4	72.1	75.0	75.0
70°	2224.2	626.0	173.1	132.7	106.7	83.7	72.1	63.4	69.3	72.1	72.1
72.5°	620.2	323.2	138.5	103.8	86.5	69.3	57.7	57.7	66.4	69.3	69.3
75°	403.9	239.5	106.7	77.8	66.4	54.8	49.0	54.8	63.4	66.4	66.4
77.5°	334.6	196.2	86.5	63.4	54.8	52.0	46.1	49.0	57.7	60.6	60.6
80°	305.8	138.5	69.3	57.7	49.0	46.1	43.3	40.4	52.0	54.8	54.8
82.5°	291.3	109.7	60.6	52.0	46.1	40.4	37.5	40.4	46.1	49.0	52.0
85°	181.8	72.1	54.8	49.0	40.4	37.5	37.5	37.5	43.3	46.1	46.1
87.5°	66.4	57.7	49.0	40.4	34.6	34.6	34.6	34.6	37.5	43.3	43.3
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)