

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: P269565

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269565
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-08-LED-E1-SL4-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 27178.2 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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

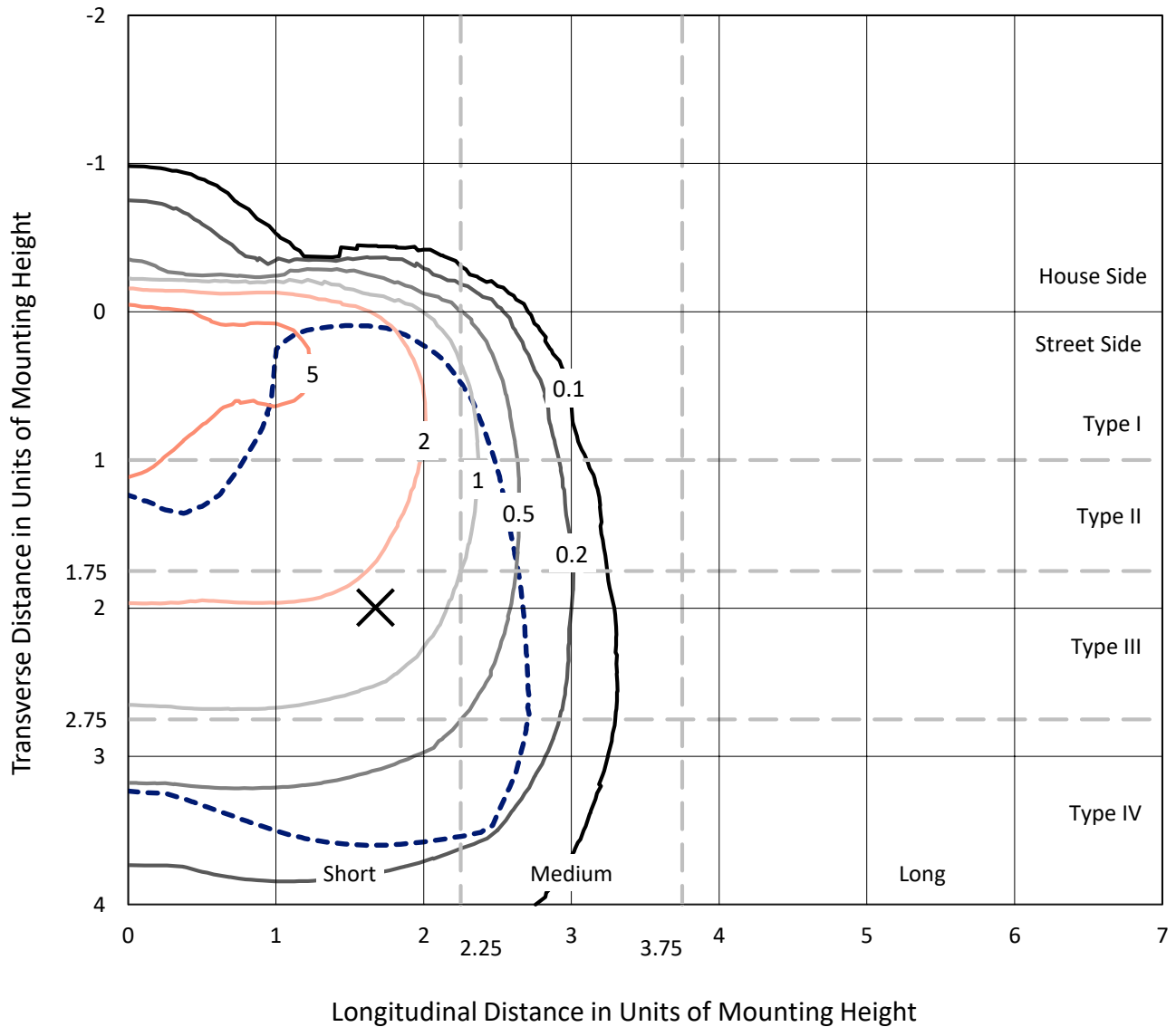


REPORT NUMBER: P269565

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

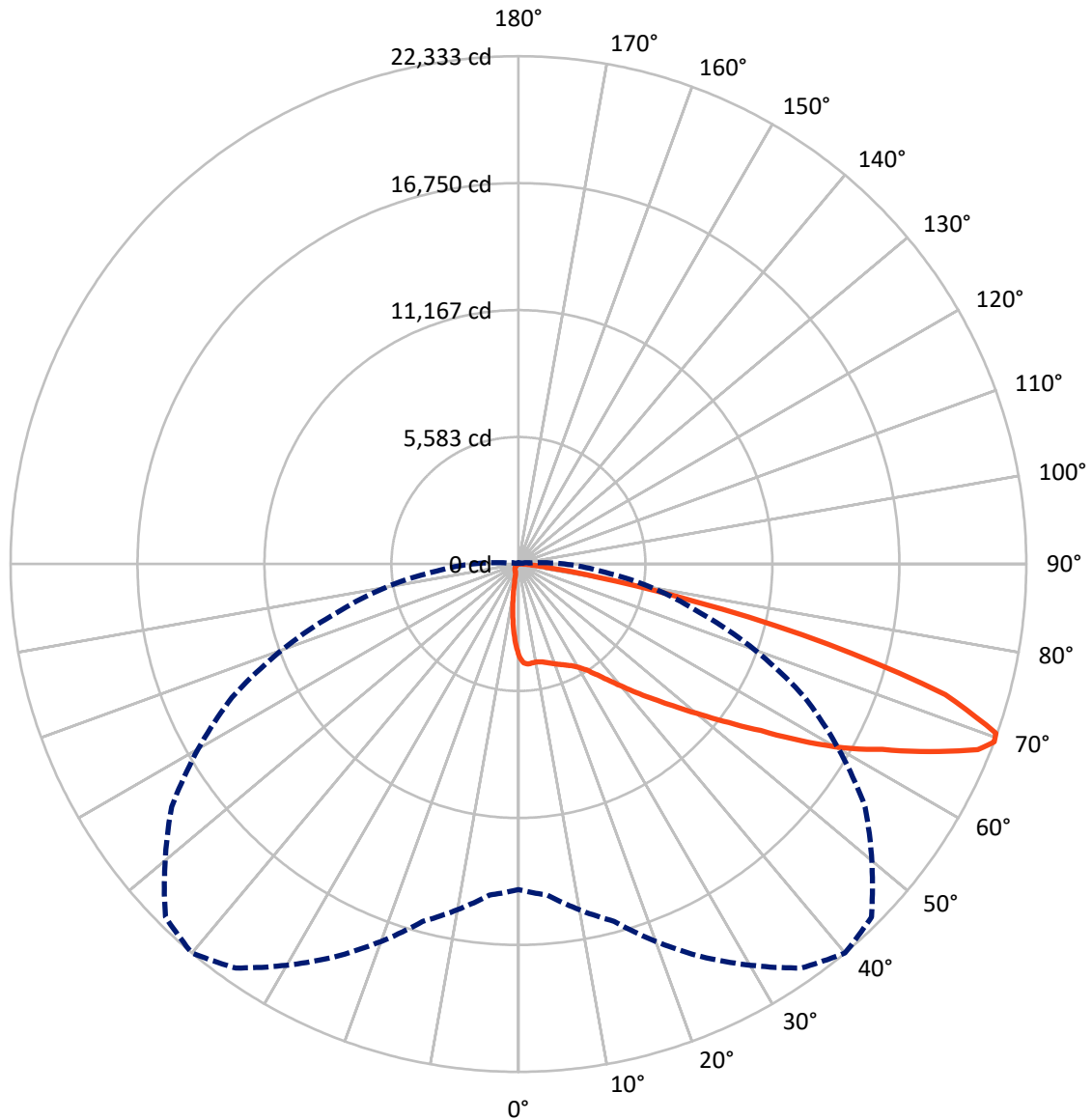


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269565

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-7027-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269565

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-7027-800-HSS

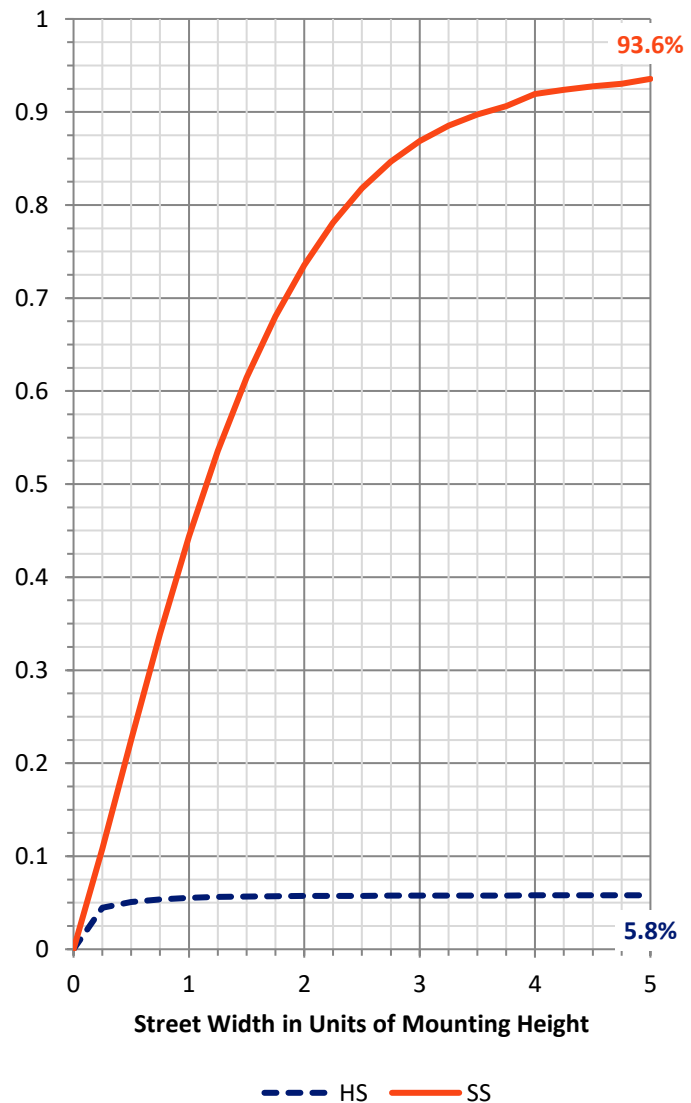
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1590.1	0.0	1590.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	25588.1	0.0	25588.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	27178.2	0.0	27178.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.2	1.2
10°-20°	809.6	3.0
20°-30°	1363.7	5.0
30°-40°	2232.4	8.2
40°-50°	3865.4	14.2
50°-60°	6088.4	22.4
60°-70°	7951.2	29.3
70°-80°	4095.2	15.1
80°-90°	443.0	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°	27178.2	100.0
0°-180°	27178.2	100.0



REPORT NUMBER: P269565

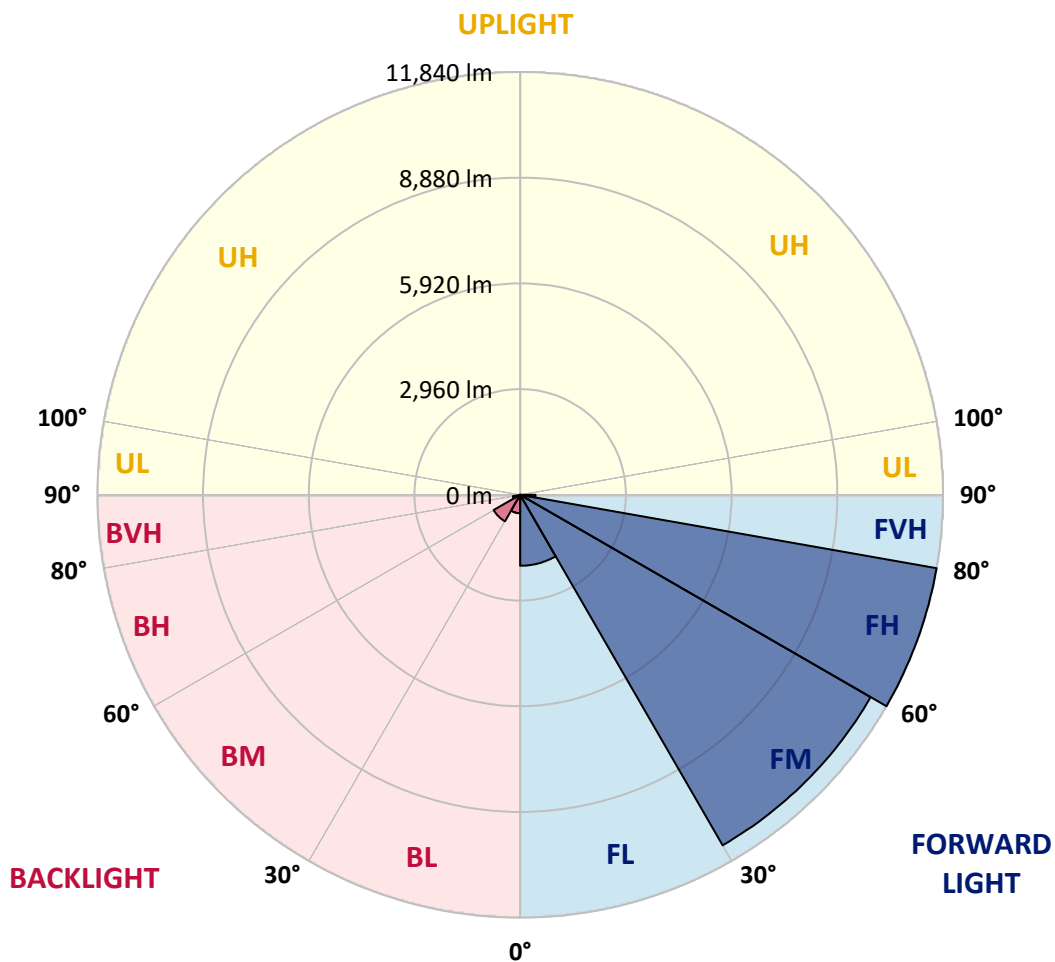
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL4-7027-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1987.5	7.3			
FM	(30°-60°)	11331.6	41.7			
FH	(60°-80°)	11839.9	43.6			G4/12000
FVH	(80°-90°)	429.1	1.6			G3/500
BL	(0°-30°)	515.1	1.9	B2/1000		
BM	(30°-60°)	854.6	3.1	B1/1000		
BH	(60°-80°)	206.5	0.8	B1/500		G1/500
BVH	(80°-90°)	13.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P269565

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6
2.5°	4458.6	4434.3	4419.8	4400.3	4376.1	4355.1	4346.9	4287.0	4230.4	4152.8	4063.8
5°	4541.0	4532.9	4507.1	4481.1	4452.1	4419.8	4402.0	4330.6	4249.8	4136.5	3981.3
7.5°	4549.1	4539.4	4507.1	4471.5	4431.0	4392.3	4361.5	4290.2	4215.8	4101.0	3911.7
10°	4536.3	4524.9	4500.6	4461.8	4411.7	4374.3	4343.7	4275.8	4212.6	4109.0	3898.7
12.5°	4521.6	4510.3	4499.0	4479.6	4435.9	4410.0	4384.1	4319.4	4262.7	4175.4	3945.7
15°	4536.3	4529.8	4542.6	4534.6	4510.3	4487.7	4461.8	4403.5	4351.7	4278.9	4031.5
17.5°	4597.6	4597.6	4638.0	4643.0	4620.3	4588.0	4550.8	4492.6	4448.9	4387.3	4133.5
20°	4741.7	4736.9	4788.5	4798.2	4743.3	4693.1	4638.0	4567.0	4532.9	4494.1	4233.6
22.5°	4989.1	4966.5	4997.2	4987.5	4879.1	4801.5	4733.6	4646.3	4628.3	4610.6	4345.3
25°	5311.0	5298.2	5319.1	5223.7	5032.8	4927.7	4846.7	4748.1	4748.1	4765.9	4471.5
27.5°	5778.5	5730.1	5659.0	5490.7	5204.3	5070.0	4982.7	4877.5	4905.0	4971.4	4638.0
30°	6257.5	6204.1	6040.7	5781.9	5412.9	5272.2	5170.4	5060.3	5125.0	5246.5	4861.4
32.5°	6729.8	6670.1	6438.6	6111.9	5712.3	5571.6	5472.8	5351.6	5459.9	5663.8	5188.2
35°	7187.7	7134.2	6867.4	6482.3	6110.2	5993.9	5903.2	5798.0	5937.2	6221.9	5649.3
37.5°	7702.2	7643.9	7318.8	6901.4	6594.0	6509.8	6443.5	6338.4	6581.1	6998.4	6291.5
40°	8334.7	8236.0	7797.6	7381.8	7153.7	7113.3	7068.0	7053.4	7430.3	8007.9	7147.3
42.5°	9059.4	8897.6	8299.1	7888.1	7768.5	7797.6	7786.2	7850.9	8493.3	9263.2	8189.0
45°	9784.2	9575.6	8857.2	8428.4	8444.6	8546.7	8609.6	8868.5	9824.7	10703.0	9310.2
47.5°	10398.9	10193.4	9392.7	9012.5	9206.6	9407.2	9578.7	10068.9	11193.2	12120.2	10182.2
50°	10924.6	10730.6	9960.4	9654.8	10091.6	10415.0	10693.3	11419.8	12665.5	13199.2	10793.7
52.5°	11355.0	11225.6	10549.3	10390.9	11102.6	11576.6	11984.3	12854.7	13969.4	14076.1	11269.2
55°	11774.1	11681.7	11181.9	11266.1	12290.2	12935.6	13451.6	14377.0	15092.1	14807.3	11725.4
57.5°	12256.1	12171.9	11903.4	12375.8	13851.2	14663.4	15226.4	15726.2	16080.5	15554.7	12155.9
60°	12747.8	12699.3	12705.8	13608.6	15643.7	16423.4	16734.0	16863.4	17051.2	16258.5	12180.1
62.5°	13217.0	13309.3	13623.1	14980.5	17360.1	17958.6	18115.6	18243.4	18023.5	16370.1	11253.1
65°	14011.4	14161.8	14910.8	16816.5	19248.1	19888.7	20050.4	19612.1	18177.2	14927.0	9153.3
67.5°	14399.7	14674.6	16010.9	18528.1	21079.4	21791.2	21731.3	19701.0	16311.9	11382.6	5874.0
69°	14318.8	14611.6	16264.9	19052.3	21687.6	22333.1	21952.9	18612.3	13896.5	8245.7	3605.9
70°	13998.4	14294.5	16133.9	19032.8	21765.3	22276.4	21542.1	17267.8	11749.7	6029.3	2255.1
72.5°	11690.0	11945.5	14323.7	17203.3	20050.4	19634.8	18021.7	11963.3	5725.3	1642.0	508.0
75°	7195.8	7338.2	10277.6	12959.8	15143.7	14076.1	12006.9	5951.7	1706.7	464.3	281.4
77.5°	3801.7	3866.5	5626.5	7639.0	9599.7	7943.2	6153.8	2321.5	786.2	291.2	203.8
80°	2247.1	2295.6	3030.1	3492.7	4154.4	3470.2	2460.5	1425.3	563.0	182.8	181.2
82.5°	1286.2	1316.8	2197.0	1941.2	1637.3	1397.8	1224.6	1350.8	338.1	123.0	187.7
85°	472.4	478.8	1236.0	1477.1	973.9	579.1	608.3	1119.5	90.5	77.7	147.2
87.5°	220.1	215.1	635.8	904.4	569.4	367.2	473.9	245.9	35.7	50.1	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269565

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6	4060.6
2.5°	4012.0	3952.2	3843.8	3732.2	3618.9	3531.5	3445.8	3377.8	3355.2	3313.2	3316.5
5°	3889.1	3779.1	3552.5	3322.9	3083.4	2886.1	2700.0	2549.6	2476.7	2402.3	2402.3
7.5°	3782.4	3622.1	3267.9	2894.2	2507.4	2182.3	1889.6	1669.5	1548.1	1451.1	1449.5
10°	3741.9	3525.0	3030.1	2494.6	1955.9	1512.6	1164.8	941.6	826.7	752.2	749.0
12.5°	3759.6	3491.2	2847.3	2125.7	1449.5	972.2	674.5	530.5	482.1	459.5	459.5
15°	3811.4	3481.4	2664.5	1765.0	1024.1	608.3	448.2	409.3	406.0	406.0	406.0
17.5°	3874.5	3484.6	2476.7	1413.9	697.3	435.1	386.6	381.8	385.1	385.1	385.1
20°	3939.2	3486.2	2274.6	1088.7	491.8	378.5	364.1	362.3	365.6	365.6	367.2
22.5°	4018.5	3494.3	2072.3	813.8	406.0	357.5	346.1	346.1	347.9	347.9	346.1
25°	4109.0	3510.5	1862.0	603.4	370.6	343.0	333.2	331.7	333.2	331.7	329.9
27.5°	4222.4	3533.2	1627.5	472.4	354.3	328.4	320.3	320.3	318.7	317.1	315.5
30°	4364.8	3559.1	1363.7	401.3	338.1	315.5	307.4	305.8	304.2	300.9	300.9
32.5°	4581.4	3615.7	1103.3	364.1	320.3	297.7	291.2	291.2	287.9	284.8	283.1
35°	4914.7	3727.2	870.4	341.4	300.9	278.3	270.2	270.2	266.9	265.3	263.7
37.5°	5375.7	3897.1	676.2	320.3	281.4	257.3	249.1	247.6	244.2	241.0	239.4
40°	5988.9	4107.5	532.2	300.9	262.0	236.2	229.7	226.6	220.1	215.1	215.1
42.5°	6758.9	4346.9	431.9	279.9	239.4	216.9	211.9	207.1	195.7	190.9	189.3
45°	7564.5	4562.0	365.6	255.6	216.9	197.4	194.2	186.0	171.4	166.6	166.6
47.5°	8145.4	4612.2	322.0	233.0	195.7	176.3	174.7	160.2	147.2	144.0	142.3
50°	8507.8	4513.5	286.3	210.4	176.3	156.9	152.1	134.2	126.2	123.0	121.4
52.5°	8752.0	4337.1	257.3	190.9	158.6	139.1	127.7	114.9	108.3	105.1	105.1
55°	8947.7	4088.0	228.1	173.2	144.0	124.5	108.3	98.6	92.3	89.0	89.0
57.5°	9002.9	3750.0	199.0	158.6	129.4	110.0	92.3	85.8	77.7	76.0	76.0
60°	8603.2	3140.0	176.3	140.8	116.5	95.4	80.8	72.9	64.7	63.2	61.4
62.5°	7550.1	2429.8	155.2	124.5	101.9	82.6	69.6	59.8	53.4	53.4	53.4
65°	5759.3	1629.0	136.0	108.3	89.0	69.6	59.8	48.5	45.4	45.4	46.9
67.5°	3447.4	886.5	116.5	92.3	76.0	58.2	50.1	42.1	40.5	42.1	42.1
69°	2020.6	520.8	105.1	82.6	66.4	51.7	43.7	37.2	40.5	42.1	42.1
70°	1247.2	351.1	97.0	74.4	59.8	46.9	40.5	35.7	38.8	40.5	40.5
72.5°	347.9	181.2	77.7	58.2	48.5	38.8	32.3	32.3	37.2	38.8	38.8
75°	226.6	134.2	59.8	43.7	37.2	30.7	27.5	30.7	35.7	37.2	37.2
77.5°	187.7	110.0	48.5	35.7	30.7	29.1	26.0	27.5	32.3	34.0	34.0
80°	171.4	77.7	38.8	32.3	27.5	26.0	24.3	22.6	29.1	30.7	30.7
82.5°	163.4	61.4	34.0	29.1	26.0	22.6	21.0	22.6	26.0	27.5	29.1
85°	101.9	40.5	30.7	27.5	22.6	21.0	21.0	21.0	24.3	26.0	26.0
87.5°	37.2	32.3	27.5	22.6	19.5	19.5	19.5	19.5	21.0	24.3	24.3
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)