

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: P269645

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269645
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-SL4-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 30316 lumens
Efficiency: N/A
Efficacy: 81.1 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): 374
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

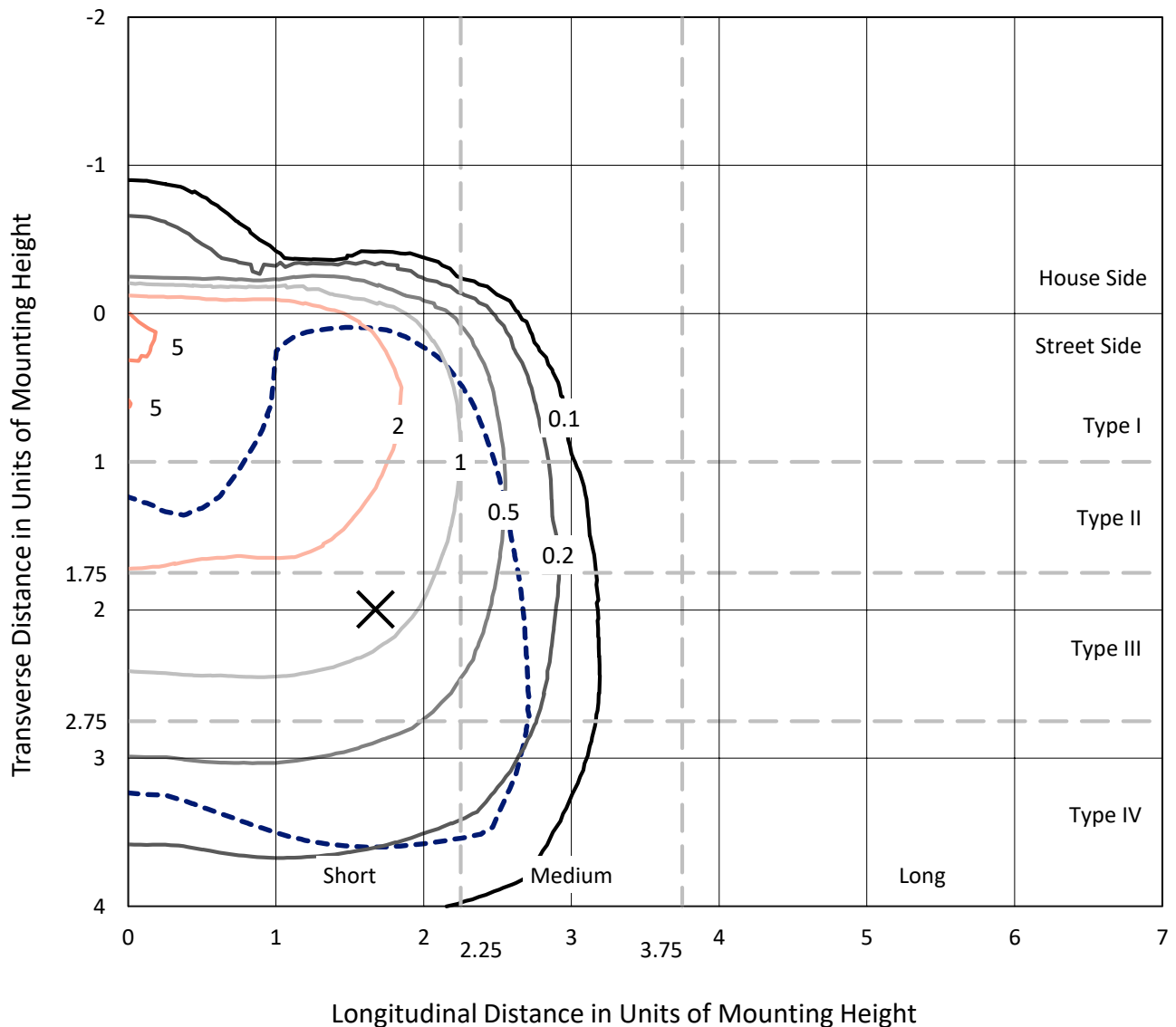


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

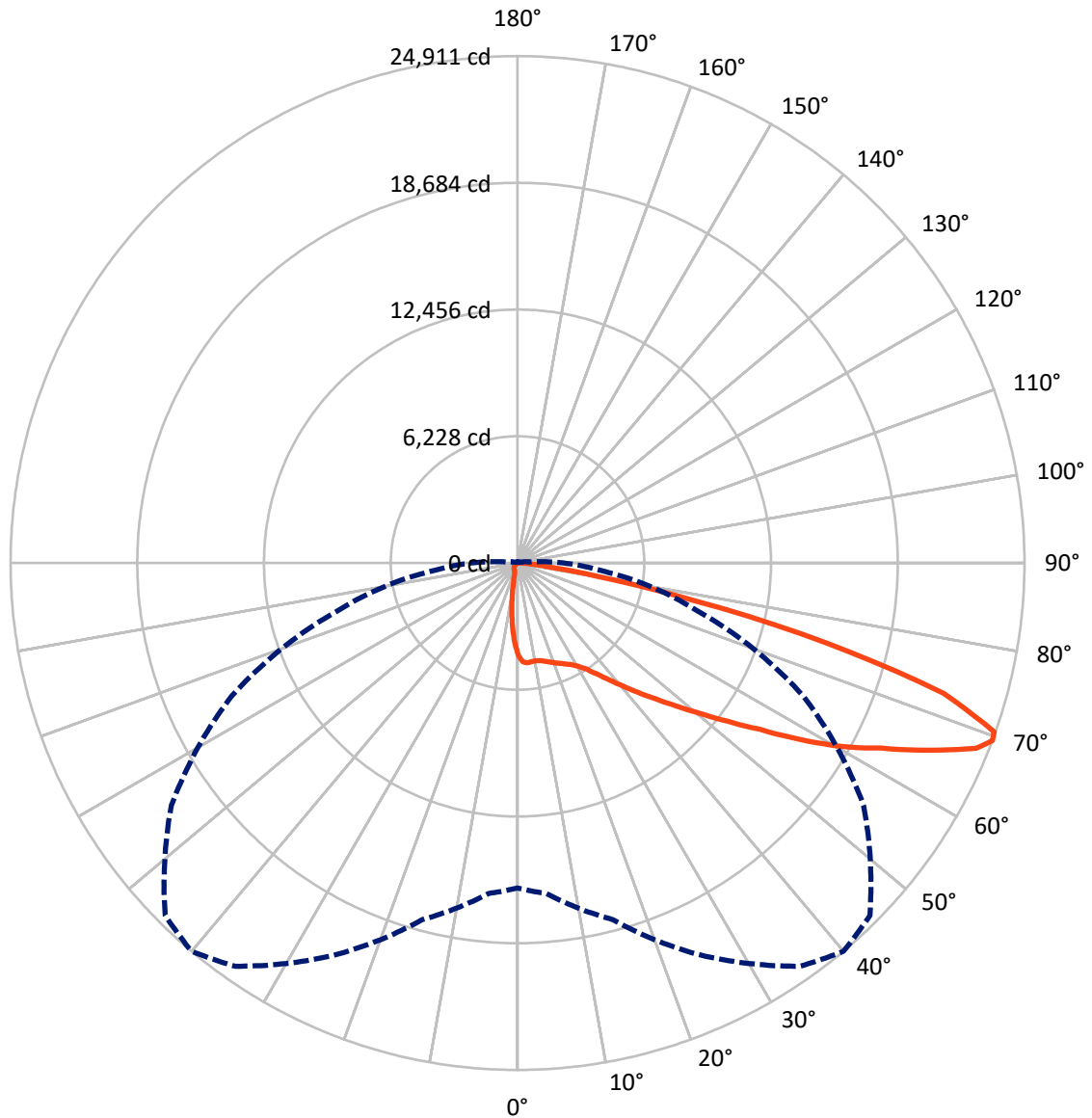


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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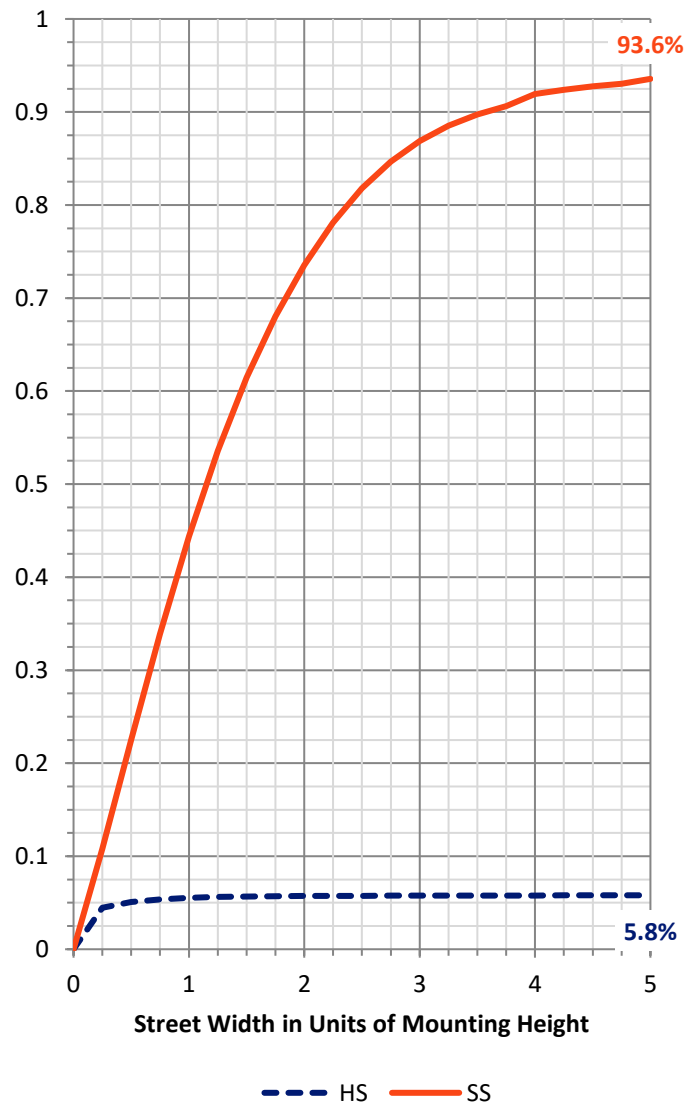
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1773.6	0.0	1773.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	28542.3	0.0	28542.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	30316.0	0.0	30316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	1.2
10°-20°	903.1	3.0
20°-30°	1521.2	5.0
30°-40°	2490.2	8.2
40°-50°	4311.7	14.2
50°-60°	6791.3	22.4
60°-70°	8869.2	29.3
70°-80°	4568.0	15.1
80°-90°	494.1	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°	30316.0	100.0
0°-180°	30316.0	100.0



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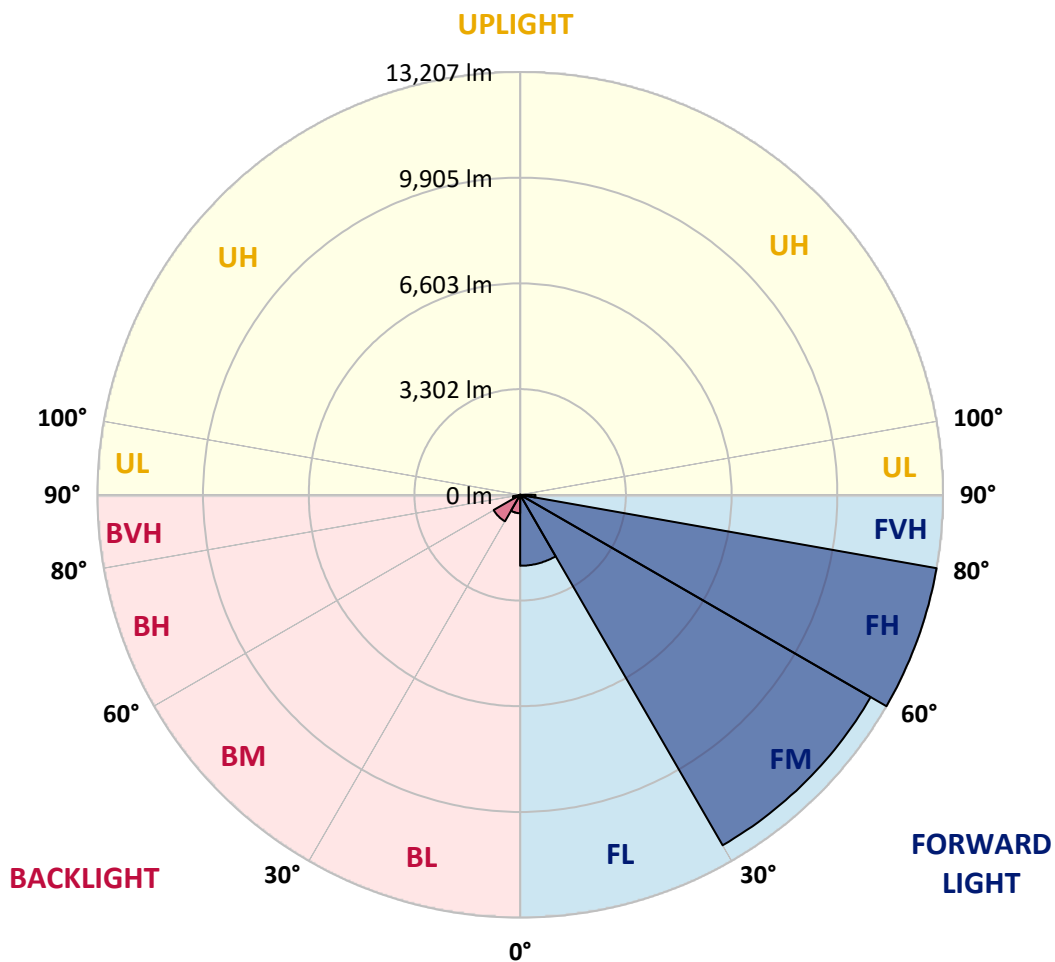
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2217.0	7.3			
FM	(30°-60°)	12639.9	41.7			
FH	(60°-80°)	13206.9	43.6			G5
FVH	(80°-90°)	478.6	1.6			G3/500
BL	(0°-30°)	574.5	1.9	B2/1000		
BM	(30°-60°)	953.3	3.1	B1/1000		
BH	(60°-80°)	230.3	0.8	B1/500		G1/500
BVH	(80°-90°)	15.5	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°	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3
2.5°	4973.2	4946.2	4930.0	4908.2	4881.2	4857.8	4848.8	4781.9	4718.8	4632.2	4532.9
5°	5065.4	5056.3	5027.5	4998.6	4966.1	4930.0	4910.1	4830.7	4740.4	4614.1	4441.0
7.5°	5074.3	5063.4	5027.5	4987.7	4942.7	4899.3	4865.0	4785.6	4702.5	4574.4	4363.3
10°	5060.0	5047.2	5020.2	4976.9	4920.9	4879.5	4845.2	4769.5	4699.0	4583.5	4349.0
12.5°	5043.7	5031.0	5018.4	4996.7	4948.0	4919.2	4890.3	4818.1	4754.9	4657.5	4401.2
15°	5060.0	5052.6	5067.1	5058.0	5031.0	5005.7	4976.9	4911.9	4854.3	4773.0	4496.8
17.5°	5128.5	5128.5	5173.6	5179.0	5153.8	5117.6	5076.1	5011.1	4962.4	4893.8	4610.6
20°	5289.1	5283.7	5341.4	5352.2	5290.8	5235.0	5173.6	5094.2	5056.3	5013.0	4722.5
22.5°	5565.2	5539.8	5574.3	5563.4	5442.4	5355.9	5280.1	5182.6	5162.7	5142.8	4847.0
25°	5924.2	5909.8	5933.2	5826.9	5613.9	5496.5	5406.4	5296.2	5296.2	5316.1	4987.7
27.5°	6445.8	6391.6	6312.2	6124.6	5805.1	5655.4	5558.0	5440.7	5471.3	5545.2	5173.6
30°	6979.9	6920.4	6738.0	6449.4	6038.0	5880.9	5767.3	5644.6	5716.8	5852.1	5422.6
32.5°	7506.9	7440.0	7181.9	6817.4	6371.8	6214.8	6104.7	5969.3	6090.2	6317.7	5787.2
35°	8017.6	7957.9	7660.2	7230.7	6815.7	6685.7	6584.8	6467.4	6622.7	6940.2	6301.4
37.5°	8591.4	8526.4	8163.6	7698.1	7355.2	7261.4	7187.3	7070.1	7340.8	7806.5	7017.7
40°	9296.9	9186.8	8697.7	8234.0	7979.6	7934.5	7884.0	7867.7	8288.2	8932.4	7972.4
42.5°	10105.4	9925.0	9257.3	8798.9	8665.3	8697.7	8685.3	8757.3	9473.7	10332.8	9134.5
45°	10913.8	10680.9	9879.7	9401.7	9419.6	9533.4	9603.7	9892.5	10959.0	11938.7	10385.0
47.5°	11599.5	11370.3	10477.1	10053.0	10269.6	10493.3	10684.6	11231.4	12485.5	13519.5	11357.7
50°	12186.0	11969.5	11110.4	10769.4	11256.7	11617.6	11928.0	12738.1	14127.6	14723.1	12039.9
52.5°	12666.0	12521.7	11767.3	11590.6	12384.5	12913.2	13367.9	14338.7	15582.1	15701.3	12570.3
55°	13133.4	13030.5	12472.8	12566.7	13709.0	14429.0	15004.7	16036.8	16834.4	16516.9	13079.2
57.5°	13671.1	13577.3	13277.7	13804.7	15450.4	16356.2	16984.3	17541.8	17936.9	17350.6	13559.2
60°	14219.7	14165.6	14172.7	15179.6	17449.8	18319.6	18666.1	18810.4	19019.8	18135.5	13586.2
62.5°	14743.1	14845.8	15195.9	16709.9	19364.5	20032.1	20207.2	20349.7	20104.2	18260.0	12552.2
65°	15629.0	15796.9	16632.4	18758.0	21470.3	22184.9	22365.3	21876.3	20275.6	16650.4	10210.0
67.5°	16062.1	16368.8	17859.5	20667.2	23513.0	24307.0	24240.3	21975.5	18195.1	12696.6	6552.2
69°	15971.9	16298.5	18142.7	21251.9	24191.5	24911.4	24487.4	20761.1	15501.0	9197.7	4022.3
70°	15614.6	15944.8	17996.6	21230.3	24278.1	24848.3	24029.1	19261.5	13106.4	6725.5	2515.6
72.5°	13039.5	13324.6	15977.3	19189.4	22365.3	21901.5	20102.5	13344.5	6386.2	1831.6	566.7
75°	8026.5	8185.4	11464.2	14456.1	16892.2	15701.3	13393.2	6638.8	1903.8	518.0	314.0
77.5°	4240.7	4312.9	6276.2	8521.1	10708.1	8860.3	6864.4	2589.5	876.9	324.7	227.5
80°	2506.5	2560.6	3380.0	3895.9	4634.0	3870.6	2744.7	1589.8	627.9	203.9	202.1
82.5°	1434.7	1468.9	2450.5	2165.5	1826.2	1559.1	1366.1	1506.7	377.2	137.1	209.3
85°	526.9	534.1	1378.7	1647.5	1086.3	646.1	678.5	1248.7	101.1	86.6	164.2
87.5°	245.3	239.9	709.2	1008.7	635.2	409.6	528.7	274.3	39.6	56.0	45.2
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°	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3	4529.3
2.5°	4475.3	4408.4	4287.6	4163.0	4036.8	3939.2	3843.7	3767.9	3742.6	3695.6	3699.3
5°	4338.1	4215.3	3962.8	3706.4	3439.4	3219.3	3011.7	2843.9	2762.7	2679.7	2679.7
7.5°	4219.0	4040.3	3645.1	3228.2	2797.1	2434.2	2107.8	1862.2	1726.9	1618.7	1616.9
10°	4173.9	3932.2	3380.0	2782.6	2181.7	1687.2	1299.3	1050.3	922.1	839.0	835.6
12.5°	4193.7	3894.2	3176.0	2371.2	1616.9	1084.6	752.5	592.0	537.7	512.6	512.6
15°	4251.5	3883.4	2972.0	1968.7	1142.3	678.5	499.8	456.6	452.9	452.9	452.9
17.5°	4321.8	3887.0	2762.7	1577.2	777.8	485.4	431.2	425.8	429.5	429.5	429.5
20°	4394.0	3888.8	2537.2	1214.5	548.5	422.3	406.0	404.1	407.8	407.8	409.6
22.5°	4482.5	3897.7	2311.6	907.6	452.9	398.8	386.2	386.2	388.0	388.0	386.2
25°	4583.5	3915.8	2077.1	673.1	413.2	382.6	371.7	369.9	371.7	369.9	368.1
27.5°	4709.9	3941.1	1815.4	526.9	395.2	366.2	357.3	357.3	355.5	353.8	351.9
30°	4868.6	3970.0	1521.2	447.5	377.2	351.9	342.9	341.0	339.3	335.6	335.6
32.5°	5110.4	4033.1	1230.7	406.0	357.3	332.1	324.7	324.7	321.2	317.6	315.8
35°	5482.1	4157.6	970.9	380.7	335.6	310.4	301.3	301.3	297.8	295.9	294.1
37.5°	5996.5	4347.1	754.2	357.3	314.0	286.9	277.8	276.0	272.5	268.9	267.1
40°	6680.3	4581.6	593.7	335.6	292.3	263.5	256.2	252.7	245.3	239.9	239.9
42.5°	7539.4	4848.8	481.9	312.3	267.1	241.9	236.4	231.0	218.4	213.0	211.1
45°	8438.0	5088.8	407.8	285.1	241.9	220.2	216.5	207.5	191.2	185.9	185.9
47.5°	9085.7	5144.8	359.1	259.9	218.4	196.6	194.9	178.7	164.2	160.5	158.8
50°	9490.1	5034.6	319.3	234.5	196.6	175.0	169.6	149.7	140.8	137.1	135.4
52.5°	9762.5	4837.9	286.9	213.0	176.8	155.1	142.6	128.1	120.9	117.3	117.3
55°	9980.9	4560.1	254.4	193.0	160.5	139.0	120.9	110.1	102.9	99.3	99.3
57.5°	10042.2	4182.9	221.9	176.8	144.4	122.7	102.9	95.6	86.6	84.8	84.8
60°	9596.5	3502.6	196.6	157.1	130.0	106.4	90.2	81.1	72.1	70.3	68.6
62.5°	8421.7	2710.4	173.3	139.0	113.6	92.0	77.7	66.7	59.6	59.6	59.6
65°	6424.0	1817.1	151.5	120.9	99.3	77.7	66.7	54.2	50.6	50.6	52.3
67.5°	3845.5	988.9	130.0	102.9	84.8	64.9	56.0	46.9	45.2	46.9	46.9
69°	2253.8	581.1	117.3	92.0	74.0	57.8	48.7	41.5	45.2	46.9	46.9
70°	1391.2	391.7	108.2	83.1	66.7	52.3	45.2	39.6	43.3	45.2	45.2
72.5°	388.0	202.1	86.6	64.9	54.2	43.3	36.1	36.1	41.5	43.3	43.3
75°	252.7	149.7	66.7	48.7	41.5	34.2	30.7	34.2	39.6	41.5	41.5
77.5°	209.3	122.7	54.2	39.6	34.2	32.5	28.8	30.7	36.1	37.9	37.9
80°	191.2	86.6	43.3	36.1	30.7	28.8	27.0	25.2	32.5	34.2	34.2
82.5°	182.3	68.6	37.9	32.5	28.8	25.2	23.4	25.2	28.8	30.7	32.5
85°	113.6	45.2	34.2	30.7	25.2	23.4	23.4	23.4	27.0	28.8	28.8
87.5°	41.5	36.1	30.7	25.2	21.6	21.6	21.6	21.6	23.4	27.0	27.0
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)