

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: P191226

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191226
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-SL4-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 43448.8 lumens
Efficiency: N/A
Efficacy: 85.0 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): 511
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

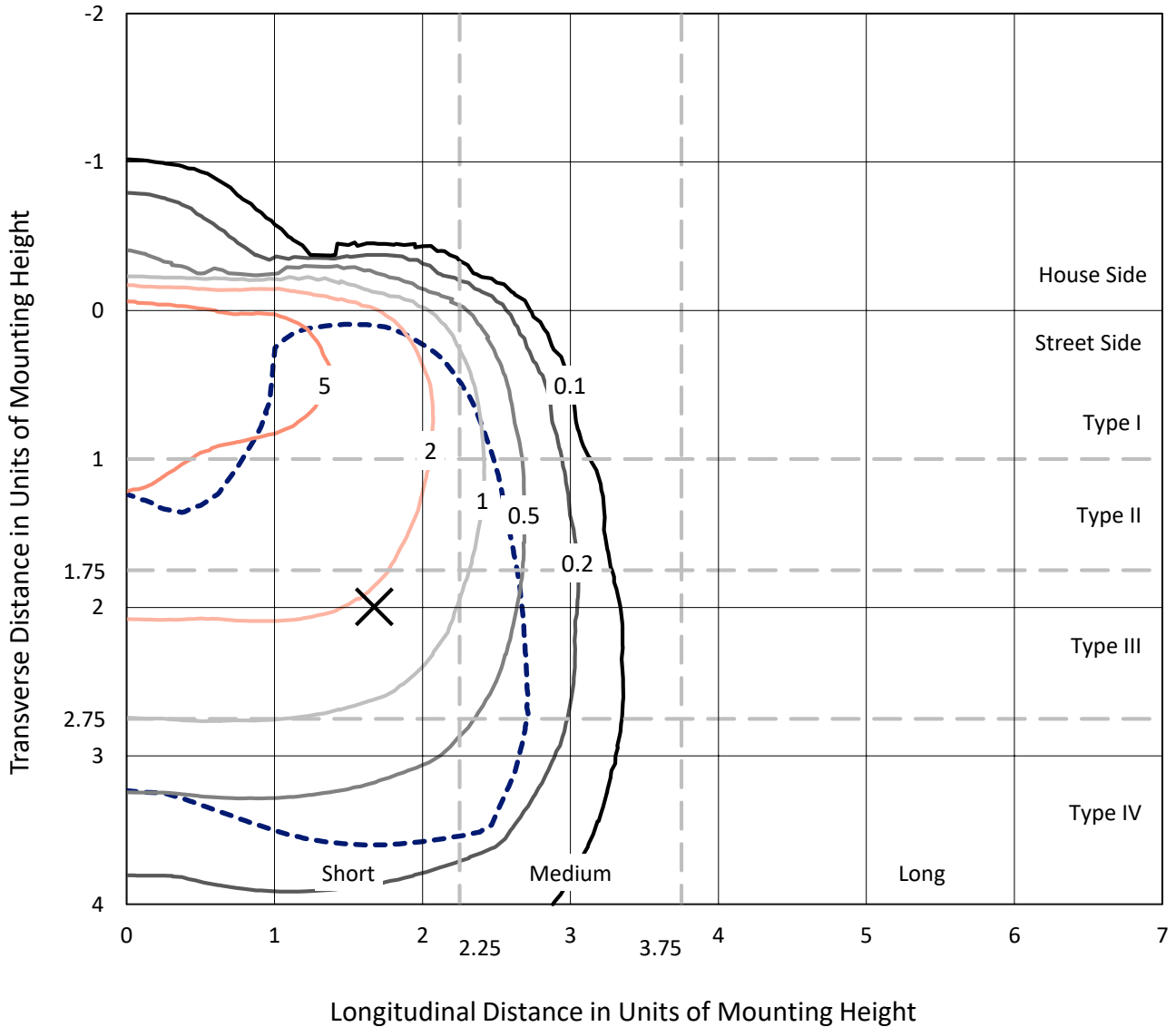


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

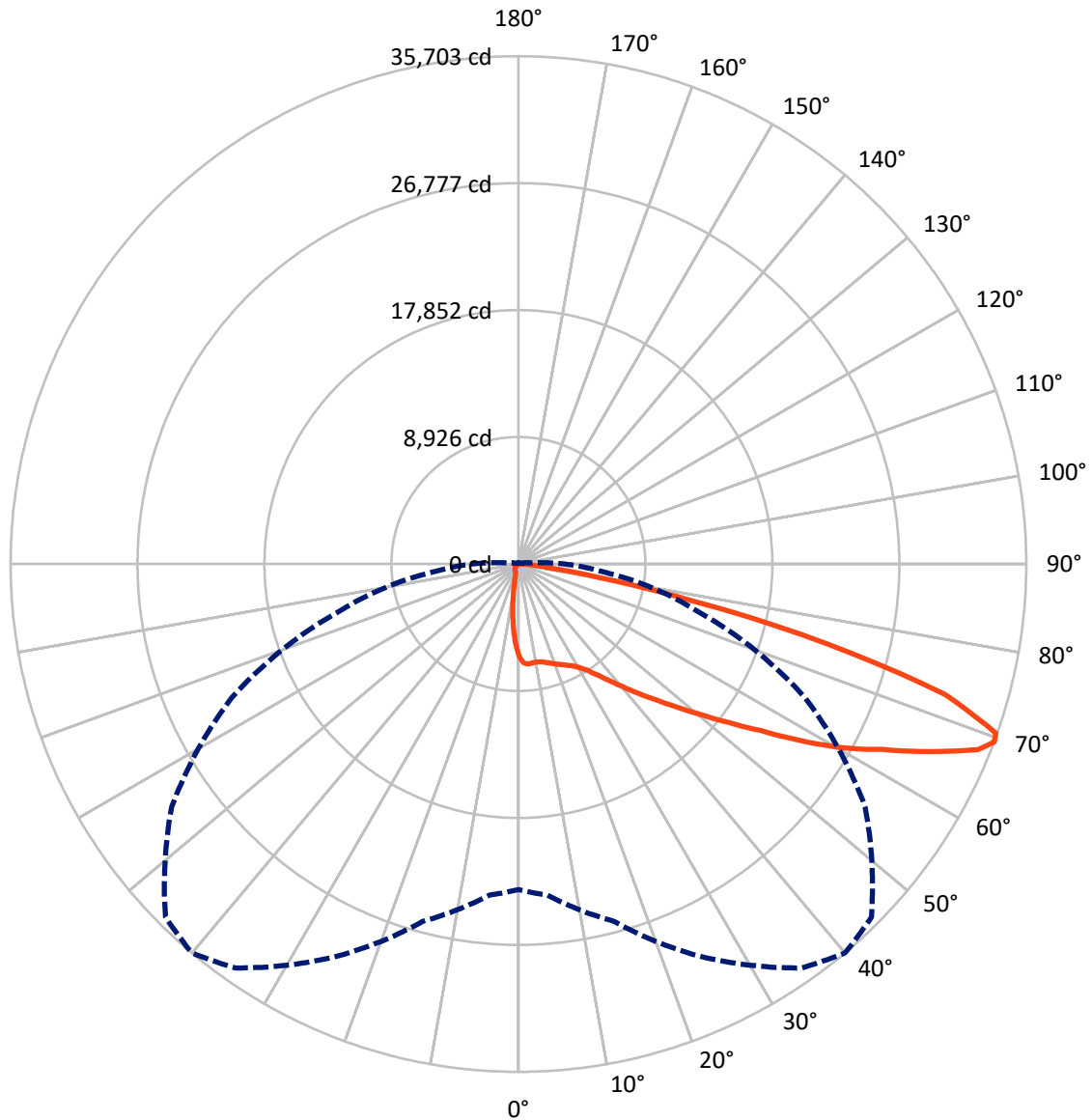


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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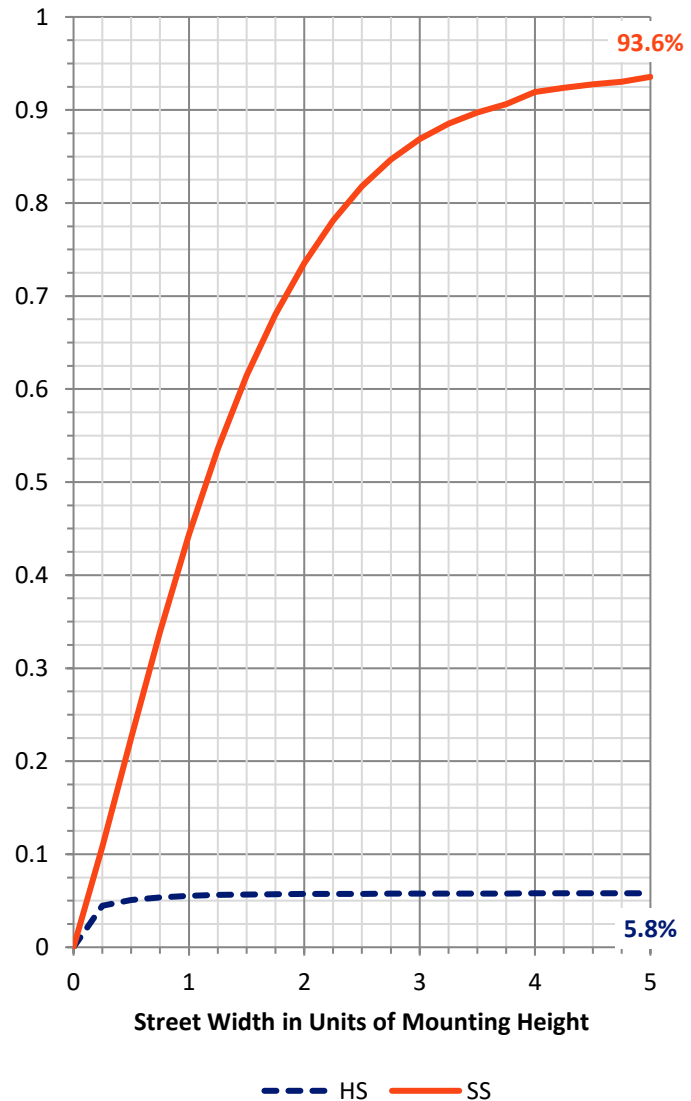
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2542.0	0.0	2542.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	40906.8	0.0	40906.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	43448.8	0.0	43448.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.3	1.2
10°-20°	1294.3	3.0
20°-30°	2180.1	5.0
30°-40°	3568.9	8.2
40°-50°	6179.5	14.2
50°-60°	9733.3	22.4
60°-70°	12711.3	29.3
70°-80°	6546.9	15.1
80°-90°	708.2	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°	43448.8	100.0
0°-180°	43448.8	100.0

Coefficient of Utilization



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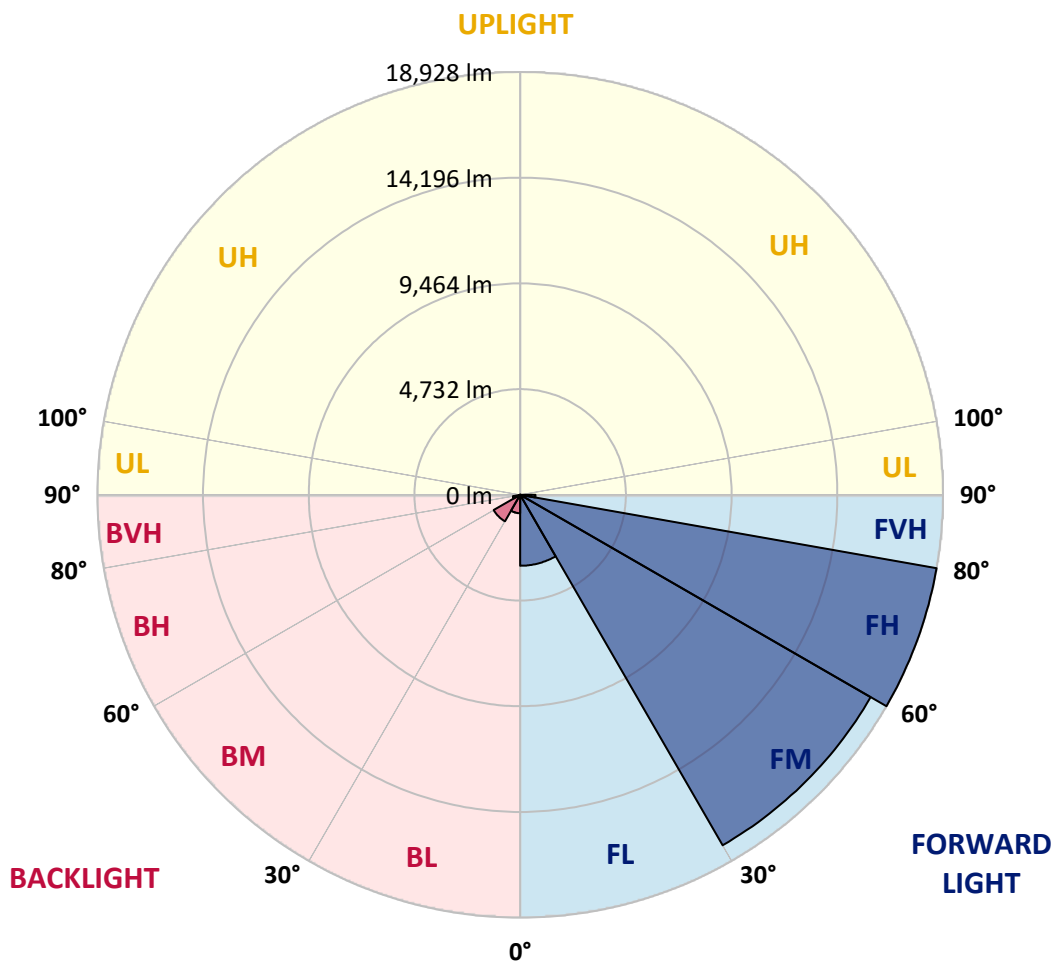
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3177.3	7.3			
FM	(30°-60°)	18115.4	41.7			
FH	(60°-80°)	18928.1	43.6			G5
FVH	(80°-90°)	686.0	1.6			G4/750
BL	(0°-30°)	823.4	1.9	B2/1000		
BM	(30°-60°)	1366.3	3.1	B2/2500		
BH	(60°-80°)	330.1	0.8	B1/500		G1/500
BVH	(80°-90°)	22.2	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°	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4
2.5°	7127.7	7088.9	7065.6	7034.6	6995.8	6962.2	6949.2	6853.6	6763.0	6638.8	6496.7
5°	7259.6	7246.7	7205.3	7163.9	7117.4	7065.6	7037.2	6923.3	6794.0	6613.1	6364.8
7.5°	7272.6	7257.0	7205.3	7148.4	7083.7	7021.6	6972.5	6858.7	6739.7	6556.1	6253.5
10°	7251.8	7233.7	7194.9	7132.8	7052.7	6993.2	6944.1	6835.5	6734.6	6569.1	6232.8
12.5°	7228.6	7210.5	7192.4	7161.3	7091.5	7050.1	7008.7	6905.2	6814.8	6675.1	6307.8
15°	7251.8	7241.5	7262.1	7249.2	7210.5	7174.3	7132.8	7039.7	6957.0	6840.6	6444.9
17.5°	7350.1	7350.1	7414.8	7422.5	7386.3	7334.6	7275.1	7182.0	7112.2	7013.9	6607.9
20°	7580.3	7572.5	7655.3	7670.8	7582.8	7502.7	7414.8	7301.0	7246.7	7184.6	6768.3
22.5°	7975.9	7939.7	7988.9	7973.4	7800.1	7676.0	7567.4	7427.6	7399.2	7370.8	6946.7
25°	8490.6	8469.9	8503.6	8351.0	8045.8	7877.7	7748.3	7590.6	7590.6	7619.0	7148.4
27.5°	9238.1	9160.5	9046.7	8777.7	8320.0	8105.2	7965.6	7797.5	7841.5	7947.5	7414.8
30°	10003.6	9918.2	9657.1	9243.3	8653.6	8428.6	8265.6	8089.8	8193.2	8387.2	7771.7
32.5°	10758.8	10663.1	10293.2	9770.8	9132.0	8907.0	8749.3	8555.3	8728.5	9054.4	8294.1
35°	11490.7	11405.4	10978.6	10363.1	9768.3	9582.1	9437.2	9269.1	9491.6	9946.7	9031.1
37.5°	12313.2	12220.0	11700.2	11032.9	10541.5	10407.1	10301.0	10132.9	10520.8	11188.1	10058.0
40°	13324.3	13166.6	12465.7	11801.1	11436.4	11371.7	11299.3	11276.0	11878.6	12801.9	11426.1
42.5°	14482.9	14224.3	13267.5	12610.5	12419.1	12465.7	12447.6	12551.1	13577.8	14808.8	13091.6
45°	15641.6	15307.9	14159.7	13474.3	13500.2	13663.1	13764.0	14177.8	15706.3	17110.6	14883.8
47.5°	16624.4	16295.9	15015.7	14408.0	14718.3	15039.0	15313.2	16096.7	17894.3	19376.1	16277.8
50°	17464.9	17154.6	15923.6	15434.7	16133.0	16650.3	17095.0	18256.3	20247.7	21101.2	17255.4
52.5°	18152.9	17945.9	16864.9	16611.5	17749.4	18507.1	19158.9	20550.3	22332.2	22502.9	18015.8
55°	18822.7	18675.3	17876.2	18010.6	19647.7	20679.7	21504.7	22984.0	24127.1	23671.9	18745.1
57.5°	19593.4	19458.9	19029.5	19784.8	22143.4	23441.7	24341.7	25140.9	25707.3	24866.7	19433.1
60°	20379.6	20302.0	20312.3	21755.5	25009.0	26255.6	26752.1	26959.1	27259.0	25991.7	19471.9
62.5°	21129.7	21277.1	21778.7	23948.6	27753.0	28709.9	28960.8	29165.0	28813.4	26170.3	17989.9
65°	22399.5	22639.9	23837.4	26884.1	30771.2	31795.3	32054.0	31353.0	29059.1	23863.3	14633.0
67.5°	23020.2	23459.8	25596.1	29620.3	33698.8	34836.7	34741.0	31495.3	26077.1	18196.9	9390.7
69°	22890.9	23359.0	26002.1	30458.3	34671.2	35703.1	35095.4	29754.8	22215.8	13182.1	5764.7
70°	22378.8	22852.1	25792.6	30427.2	34795.4	35612.6	34438.5	27605.6	18783.9	9639.0	3605.2
72.5°	18688.2	19096.9	22898.7	27502.1	32054.0	31389.2	28810.8	19125.3	9152.8	2625.0	812.1
75°	11503.6	11731.2	16430.4	20718.4	24209.9	22502.9	19195.2	9514.8	2728.5	742.3	450.0
77.5°	6077.7	6181.1	8995.0	12212.3	15346.8	12698.5	9838.1	3711.3	1256.9	465.5	325.9
80°	3592.3	3669.8	4844.1	5583.7	6641.5	5547.5	3933.7	2278.5	900.0	292.3	289.7
82.5°	2056.0	2105.2	3512.1	3103.5	2617.3	2234.5	1957.8	2159.6	540.5	196.5	300.0
85°	755.1	765.6	1975.9	2361.3	1556.9	925.9	972.4	1789.7	144.8	124.2	235.4
87.5°	351.7	344.0	1016.4	1445.7	910.3	587.1	757.8	393.1	56.9	80.2	64.7
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°	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4
2.5°	6413.9	6318.2	6145.0	5966.5	5785.4	5645.8	5508.7	5400.1	5363.8	5296.6	5301.9
5°	6217.3	6041.4	5679.4	5312.2	4929.4	4613.8	4316.4	4075.9	3959.5	3840.6	3840.6
7.5°	6046.7	5790.6	5224.2	4626.8	4008.6	3488.9	3020.8	2669.0	2475.0	2319.8	2317.3
10°	5982.0	5635.4	4844.1	3988.0	3126.8	2418.2	1862.1	1505.2	1321.6	1202.6	1197.5
12.5°	6010.4	5581.1	4551.8	3398.3	2317.3	1554.4	1078.5	848.3	770.7	734.5	734.5
15°	6093.2	5565.6	4259.6	2821.6	1637.1	972.4	716.4	654.3	649.2	649.2	649.2
17.5°	6194.1	5570.8	3959.5	2260.4	1114.7	695.7	618.1	610.4	615.5	615.5	615.5
20°	6297.5	5573.3	3636.3	1740.6	786.2	605.2	581.9	579.3	584.5	584.5	587.1
22.5°	6424.2	5586.3	3313.0	1300.9	649.2	571.5	553.4	553.4	556.1	556.1	553.4
25°	6569.1	5612.1	2976.8	964.6	592.3	548.3	532.8	530.2	532.8	530.2	527.6
27.5°	6750.1	5648.3	2601.8	755.1	566.4	525.0	512.1	512.1	509.5	506.9	504.3
30°	6977.6	5689.8	2180.2	641.4	540.5	504.3	491.4	488.8	486.2	481.0	481.0
32.5°	7324.2	5780.3	1763.8	581.9	512.1	475.9	465.5	465.5	460.3	455.2	452.6
35°	7857.0	5958.7	1391.4	545.7	481.0	444.9	431.9	431.9	426.8	424.1	421.6
37.5°	8594.1	6230.3	1081.1	512.1	450.0	411.2	398.2	395.7	390.6	385.3	382.8
40°	9574.3	6566.5	850.9	481.0	419.0	377.6	367.2	362.1	351.7	344.0	344.0
42.5°	10805.3	6949.2	690.5	447.4	382.8	346.6	338.8	331.0	312.9	305.1	302.6
45°	12093.3	7293.2	584.5	408.7	346.6	315.5	310.4	297.4	274.2	266.4	266.4
47.5°	13021.8	7373.4	514.6	372.5	312.9	281.9	279.3	256.0	235.4	230.2	227.6
50°	13601.1	7215.6	457.8	336.2	281.9	250.8	243.2	214.6	201.7	196.5	194.0
52.5°	13991.6	6933.8	411.2	305.1	253.5	222.4	204.3	183.6	173.3	168.1	168.1
55°	14304.5	6535.4	364.7	276.7	230.2	199.2	173.3	157.7	147.4	142.3	142.3
57.5°	14392.4	5994.9	318.1	253.5	206.9	175.8	147.4	137.1	124.2	121.5	121.5
60°	13753.7	5019.9	281.9	225.0	186.2	152.6	129.3	116.4	103.4	100.9	98.3
62.5°	12070.0	3884.6	248.3	199.2	163.0	131.9	111.2	95.6	85.3	85.3	85.3
65°	9207.1	2604.3	217.3	173.3	142.3	111.2	95.6	77.5	72.4	72.4	75.0
67.5°	5511.2	1417.3	186.2	147.4	121.5	93.1	80.2	67.2	64.7	67.2	67.2
69°	3230.2	832.8	168.1	131.9	106.1	82.8	69.9	59.4	64.7	67.2	67.2
70°	1994.0	561.2	155.2	119.0	95.6	75.0	64.7	56.9	62.1	64.7	64.7
72.5°	556.1	289.7	124.2	93.1	77.5	62.1	51.8	51.8	59.4	62.1	62.1
75°	362.1	214.6	95.6	69.9	59.4	49.1	44.0	49.1	56.9	59.4	59.4
77.5°	300.0	175.8	77.5	56.9	49.1	46.5	41.4	44.0	51.8	54.3	54.3
80°	274.2	124.2	62.1	51.8	44.0	41.4	38.8	36.2	46.5	49.1	49.1
82.5°	261.3	98.3	54.3	46.5	41.4	36.2	33.7	36.2	41.4	44.0	46.5
85°	163.0	64.7	49.1	44.0	36.2	33.7	33.7	33.7	38.8	41.4	41.4
87.5°	59.4	51.8	44.0	36.2	31.0	31.0	31.0	31.0	33.7	38.8	38.8
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)