

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: P191218

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191218
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-10-LED-E1-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA 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: 48915.4 lumens
Efficiency: N/A
Efficacy: 87.7 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

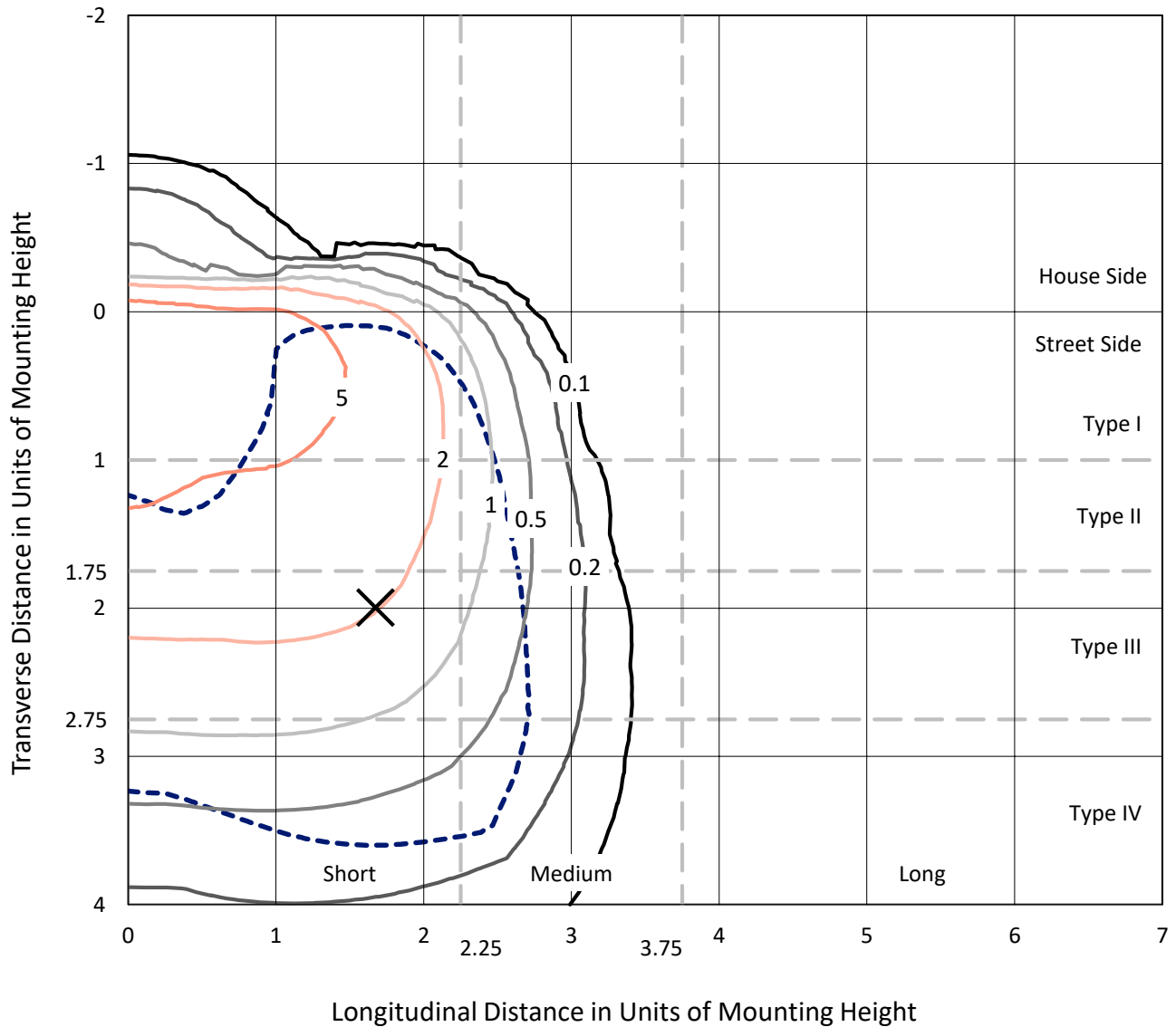
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

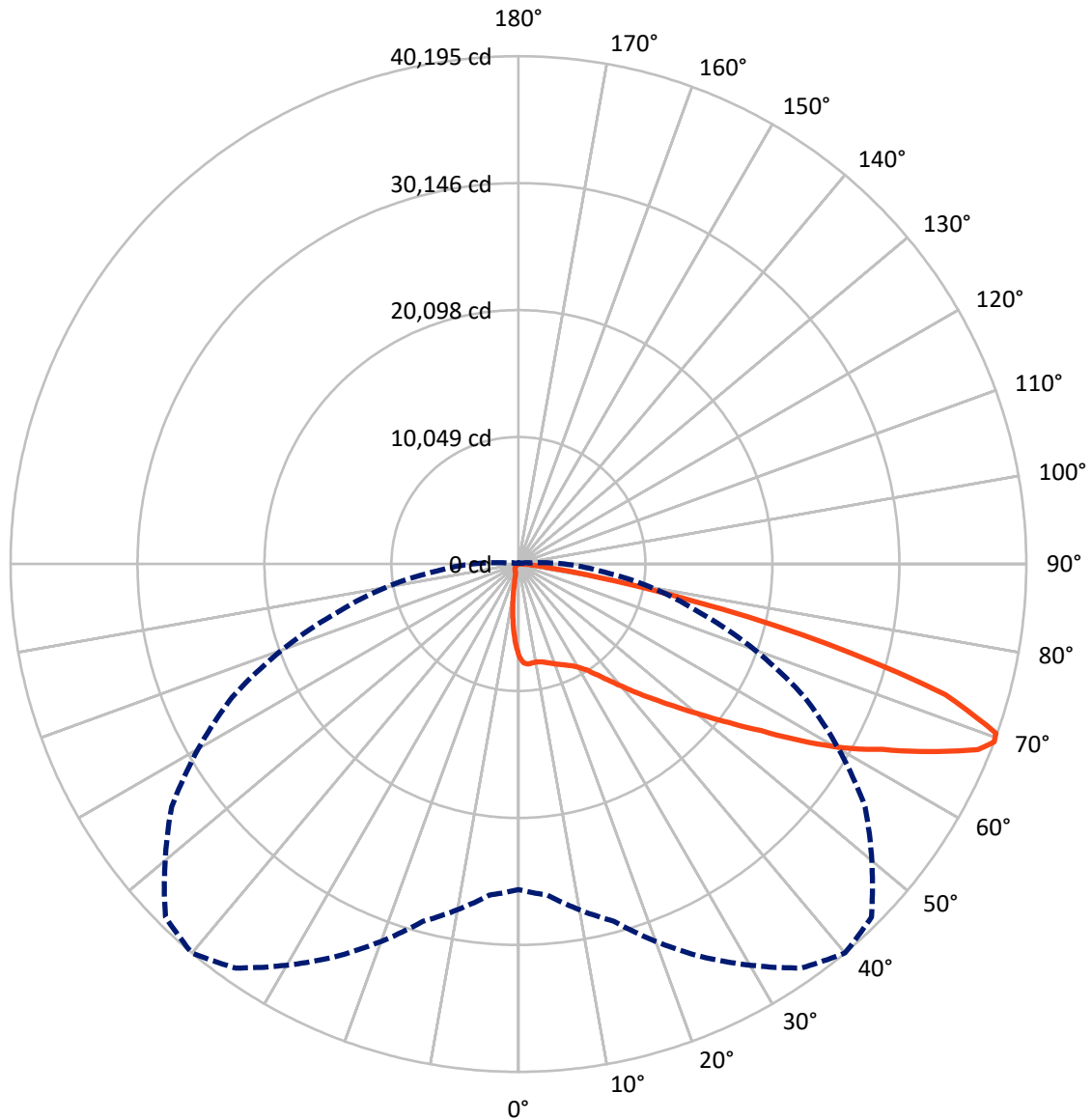
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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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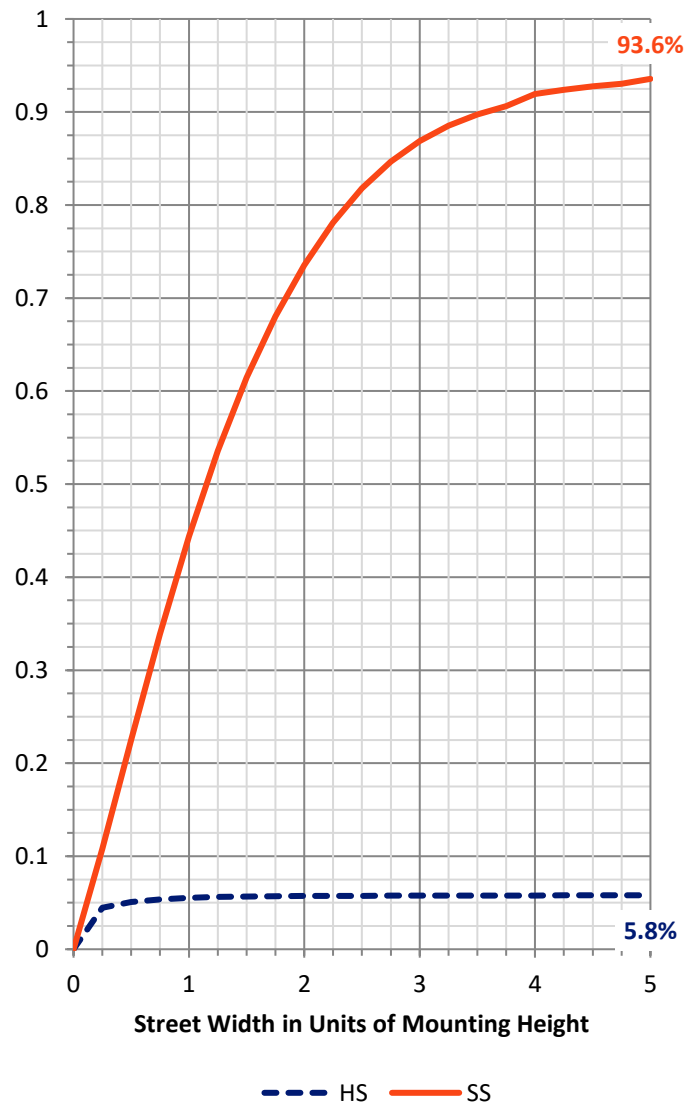
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2861.8	0.0	2861.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	46053.6	0.0	46053.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	48915.4	0.0	48915.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.5	1.2
10°-20°	1457.2	3.0
20°-30°	2454.4	5.0
30°-40°	4017.9	8.2
40°-50°	6957.0	14.2
50°-60°	10957.9	22.4
60°-70°	14310.6	29.3
70°-80°	7370.6	15.1
80°-90°	797.3	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°	48915.4	100.0
0°-180°	48915.4	100.0



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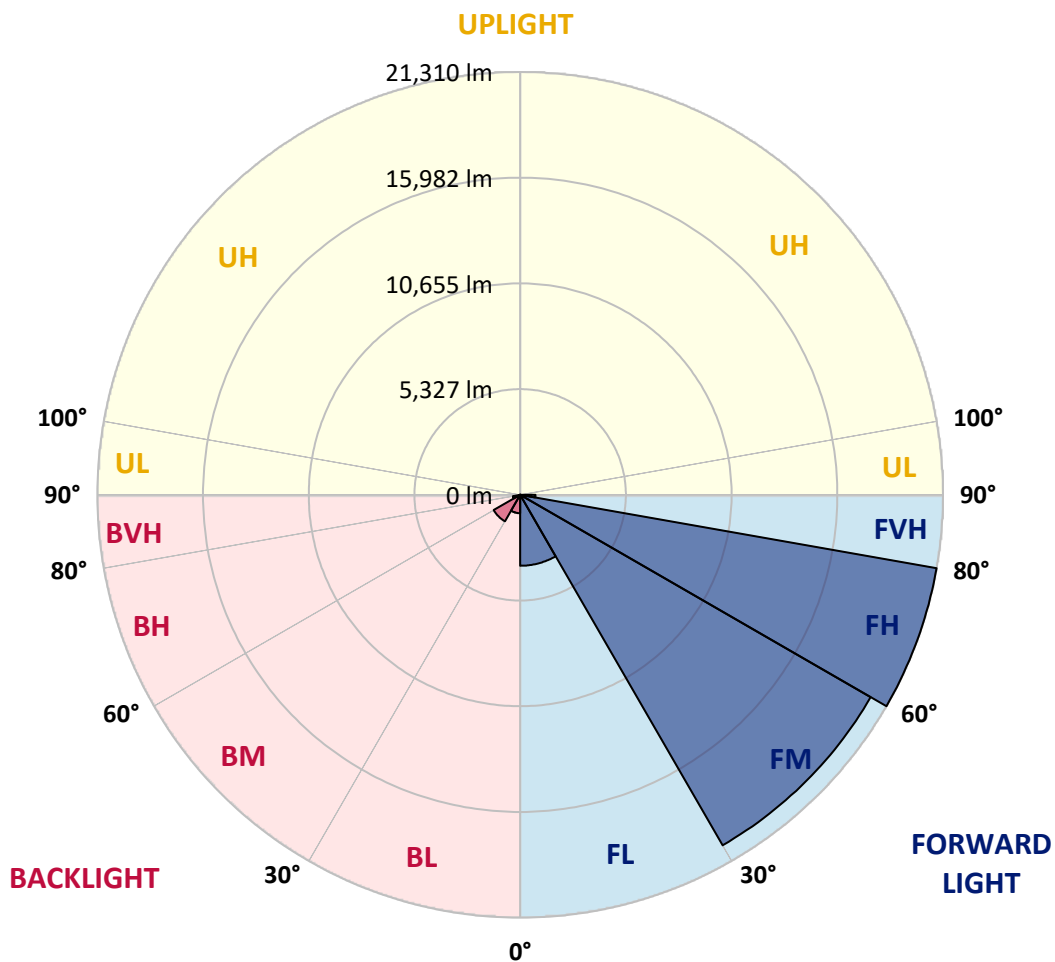
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3577.1	7.3			
FM	(30°-60°)	20394.7	41.7			
FH	(60°-80°)	21309.6	43.6			G5
FVH	(80°-90°)	772.3	1.6			G5
BL	(0°-30°)	927.0	1.9	B2/1000		
BM	(30°-60°)	1538.2	3.1	B2/2500		
BH	(60°-80°)	371.6	0.8	B1/500		G1/500
BVH	(80°-90°)	25.0	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°	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3
2.5°	8024.4	7980.9	7954.6	7919.7	7876.0	7838.2	7823.6	7715.8	7613.9	7474.2	7314.0
5°	8173.0	8158.4	8111.8	8065.3	8012.9	7954.6	7922.5	7794.5	7648.9	7445.0	7165.6
7.5°	8187.5	8170.1	8111.8	8047.8	7975.0	7905.2	7849.8	7721.6	7587.7	7381.0	7040.4
10°	8164.3	8143.8	8100.2	8030.3	7940.0	7873.0	7817.8	7695.5	7581.9	7395.5	7017.0
12.5°	8138.1	8117.6	8097.3	8062.4	7983.7	7937.2	7890.5	7774.1	7672.1	7514.9	7101.5
15°	8164.3	8152.6	8175.9	8161.3	8117.6	8076.9	8030.3	7925.5	7832.3	7701.3	7255.8
17.5°	8274.9	8274.9	8347.7	8356.4	8315.7	8257.5	8190.5	8085.6	8007.0	7896.4	7439.2
20°	8534.1	8525.3	8618.5	8636.0	8536.9	8446.7	8347.7	8219.6	8158.4	8088.6	7619.8
22.5°	8979.5	8938.7	8994.1	8976.6	8781.5	8641.8	8519.4	8362.2	8330.2	8298.2	7820.7
25°	9559.0	9535.6	9573.5	9401.7	9058.1	8868.9	8723.3	8545.6	8545.6	8577.6	8047.8
27.5°	10400.3	10313.1	10184.9	9882.1	9366.8	9125.1	8967.9	8778.6	8828.1	8947.4	8347.7
30°	11262.3	11166.1	10872.0	10406.2	9742.4	9489.0	9305.6	9107.6	9224.0	9442.4	8749.5
32.5°	12112.5	12004.7	11588.3	11000.2	10281.0	10027.7	9850.1	9631.7	9826.8	10193.7	9337.6
35°	12936.4	12840.4	12359.9	11667.0	10997.2	10787.6	10624.6	10435.3	10685.7	11198.1	10167.4
37.5°	13862.3	13757.5	13172.2	12421.1	11867.9	11716.5	11597.1	11407.8	11844.5	12595.8	11323.3
40°	15000.8	14823.2	14034.1	13285.8	12875.3	12802.5	12721.0	12694.7	13373.1	14412.7	12863.6
42.5°	16305.2	16014.0	14936.7	14197.1	13981.7	14034.1	14013.7	14130.2	15286.2	16672.1	14738.8
45°	17609.6	17234.0	15941.3	15169.6	15198.8	15382.2	15495.8	15961.6	17682.4	19263.4	16756.5
47.5°	18716.0	18346.2	16905.0	16220.7	16570.2	16931.2	17239.8	18122.1	20145.7	21814.0	18325.9
50°	19662.3	19312.9	17927.0	17376.7	18162.8	18745.2	19246.0	20553.3	22795.2	23756.1	19426.4
52.5°	20436.8	20203.9	18986.8	18701.5	19982.6	20835.7	21569.4	23135.9	25142.0	25334.2	20282.5
55°	21190.9	21025.0	20125.2	20276.6	22119.8	23281.4	24210.3	25875.7	27162.7	26650.2	21103.6
57.5°	22058.6	21907.2	21423.9	22274.0	24929.5	26391.1	27404.3	28304.0	28941.7	27995.4	21878.1
60°	22943.8	22856.4	22868.1	24492.7	28155.6	29559.0	30118.0	30351.0	30688.7	29262.0	21921.7
62.5°	23788.1	23954.0	24518.9	26961.8	31244.8	32322.2	32604.6	32834.6	32438.6	29462.9	20253.4
65°	25217.7	25488.6	26836.6	30266.6	34642.7	35795.7	36086.8	35297.8	32715.2	26865.8	16474.1
67.5°	25916.6	26411.5	28816.5	33347.1	37938.7	39219.8	39112.1	35457.9	29358.1	20486.3	10572.2
69°	25770.9	26297.9	29273.7	34290.4	39033.5	40195.2	39511.0	33498.5	25011.0	14840.7	6490.0
70°	25194.5	25727.3	29037.8	34255.5	39173.2	40093.3	38771.5	31078.9	21147.3	10851.7	4058.9
72.5°	21039.5	21499.6	25779.7	30962.4	36086.8	35338.6	32435.7	21531.6	10304.3	2955.3	914.2
75°	12951.0	13207.2	18497.7	23325.1	27255.9	25334.2	21610.2	10711.9	3071.8	835.6	506.7
77.5°	6842.3	6958.8	10126.7	13748.8	17277.6	14296.1	11075.9	4178.2	1415.0	524.1	366.8
80°	4044.2	4131.6	5453.6	6286.2	7477.1	6245.4	4428.6	2565.2	1013.2	329.0	326.1
82.5°	2314.7	2370.1	3954.0	3494.0	2946.6	2515.6	2204.2	2431.2	608.6	221.3	337.8
85°	850.2	861.8	2224.5	2658.3	1752.8	1042.4	1094.8	2014.9	163.1	139.7	264.9
87.5°	396.0	387.3	1144.3	1627.6	1024.9	660.9	853.1	442.5	64.0	90.2	72.8
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°	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3	7308.3
2.5°	7220.9	7113.2	6918.0	6717.2	6513.3	6356.1	6201.8	6079.5	6038.8	5963.1	5968.8
5°	6999.5	6801.6	6394.0	5980.5	5549.6	5194.3	4859.5	4588.8	4457.7	4323.8	4323.8
7.5°	6807.4	6519.2	5881.6	5209.0	4513.1	3927.8	3400.8	3004.8	2786.4	2611.7	2608.8
10°	6734.6	6344.4	5453.6	4489.7	3520.2	2722.4	2096.3	1694.6	1487.9	1353.9	1348.0
12.5°	6766.6	6283.4	5124.5	3825.9	2608.8	1749.9	1214.1	955.0	867.7	827.0	827.0
15°	6859.8	6265.9	4795.5	3176.6	1843.1	1094.8	806.5	736.6	730.8	730.8	730.8
17.5°	6973.4	6271.7	4457.7	2544.8	1255.0	783.3	695.9	687.1	692.9	692.9	692.9
20°	7089.9	6274.6	4093.7	1959.6	885.2	681.3	655.1	652.2	658.1	658.1	660.9
22.5°	7232.6	6289.1	3729.8	1464.6	730.8	643.4	623.1	623.1	626.0	626.0	623.1
25°	7395.5	6318.3	3351.3	1086.1	666.8	617.2	599.8	596.9	599.8	596.9	593.9
27.5°	7599.4	6359.1	2929.1	850.2	637.6	591.1	576.5	576.5	573.6	570.7	567.7
30°	7855.6	6405.6	2454.5	722.1	608.6	567.7	553.2	550.3	547.4	541.6	541.6
32.5°	8245.8	6507.5	1985.8	655.1	576.5	535.7	524.1	524.1	518.2	512.5	509.5
35°	8845.6	6708.4	1566.4	614.4	541.6	500.8	486.2	486.2	480.4	477.5	474.5
37.5°	9675.4	7014.2	1217.1	576.5	506.7	463.0	448.4	445.5	439.7	433.8	431.0
40°	10778.9	7392.7	957.9	541.6	471.7	425.1	413.5	407.6	396.0	387.3	387.3
42.5°	12164.8	7823.6	777.4	503.7	431.0	390.2	381.5	372.7	352.3	343.6	340.6
45°	13614.9	8210.8	658.1	460.0	390.2	355.3	349.4	334.8	308.6	299.9	299.9
47.5°	14660.1	8301.0	579.4	419.3	352.3	317.3	314.5	288.3	264.9	259.1	256.2
50°	15312.3	8123.5	515.4	378.5	317.3	282.4	273.7	241.6	227.1	221.3	218.4
52.5°	15752.0	7806.1	463.0	343.6	285.3	250.4	230.1	206.7	195.1	189.2	189.2
55°	16104.3	7357.7	410.5	311.6	259.1	224.2	195.1	177.6	165.9	160.1	160.1
57.5°	16203.3	6749.2	358.1	285.3	232.9	197.9	165.9	154.4	139.7	136.9	136.9
60°	15484.1	5651.5	317.3	253.3	209.6	171.8	145.6	131.0	116.5	113.5	110.7
62.5°	13588.7	4373.3	279.5	224.2	183.4	148.5	125.2	107.7	96.1	96.1	96.1
65°	10365.5	2932.0	244.6	195.1	160.1	125.2	107.7	87.4	81.5	81.5	84.4
67.5°	6204.7	1595.6	209.6	165.9	136.9	104.9	90.2	75.7	72.8	75.7	75.7
69°	3636.6	937.5	189.2	148.5	119.4	93.2	78.7	67.0	72.8	75.7	75.7
70°	2244.9	631.9	174.7	133.9	107.7	84.4	72.8	64.0	69.9	72.8	72.8
72.5°	626.0	326.1	139.7	104.9	87.4	69.9	58.2	58.2	67.0	69.9	69.9
75°	407.6	241.6	107.7	78.7	67.0	55.3	49.5	55.3	64.0	67.0	67.0
77.5°	337.8	197.9	87.4	64.0	55.3	52.4	46.5	49.5	58.2	61.2	61.2
80°	308.6	139.7	69.9	58.2	49.5	46.5	43.7	40.7	52.4	55.3	55.3
82.5°	294.1	110.7	61.2	52.4	46.5	40.7	37.8	40.7	46.5	49.5	52.4
85°	183.4	72.8	55.3	49.5	40.7	37.8	37.8	37.8	43.7	46.5	46.5
87.5°	67.0	58.2	49.5	40.7	35.0	35.0	35.0	35.0	37.8	43.7	43.7
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)