

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: P192018

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192018
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-SL4-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 47818 lumens
Efficiency: N/A
Efficacy: 85.7 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

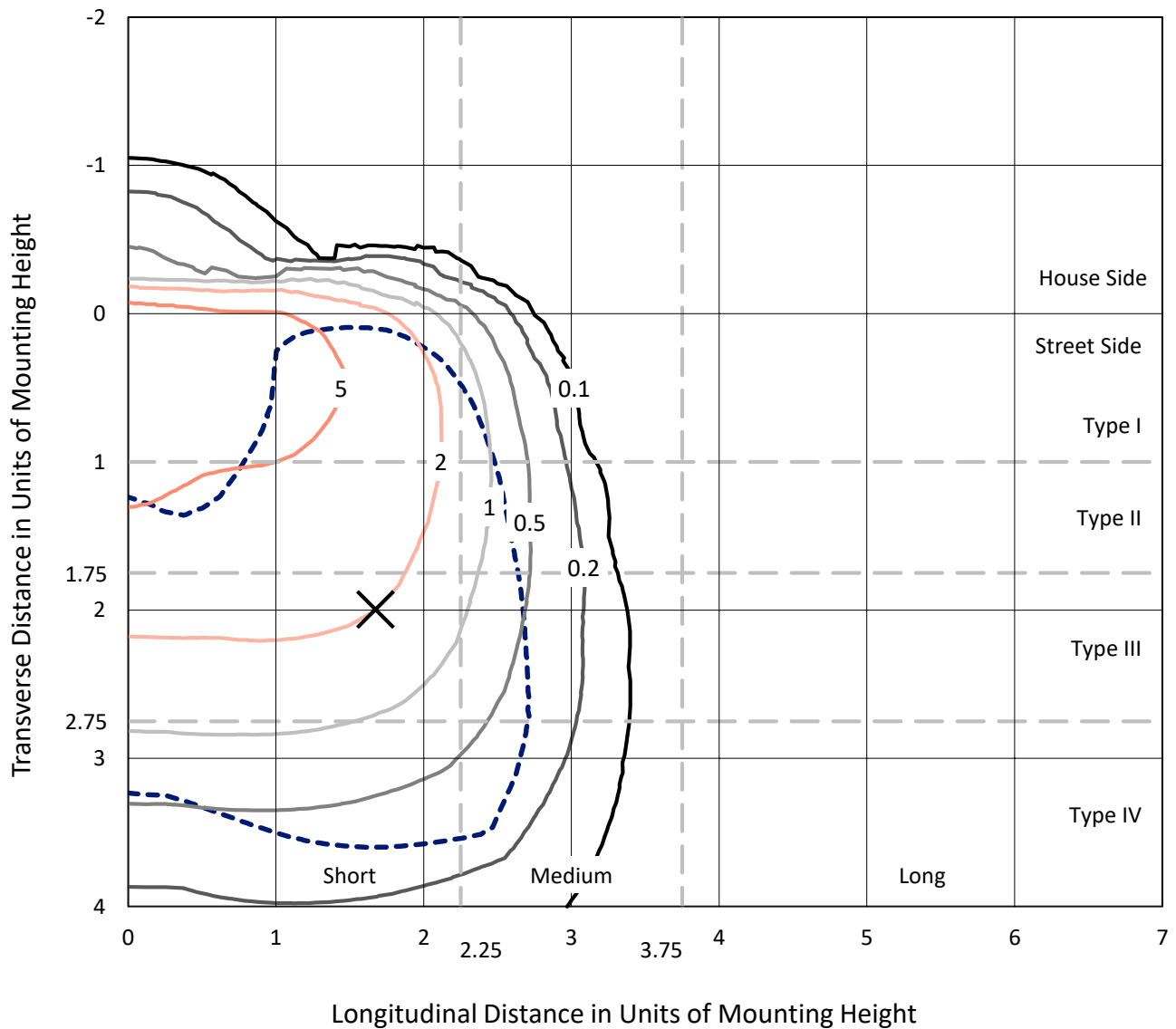
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

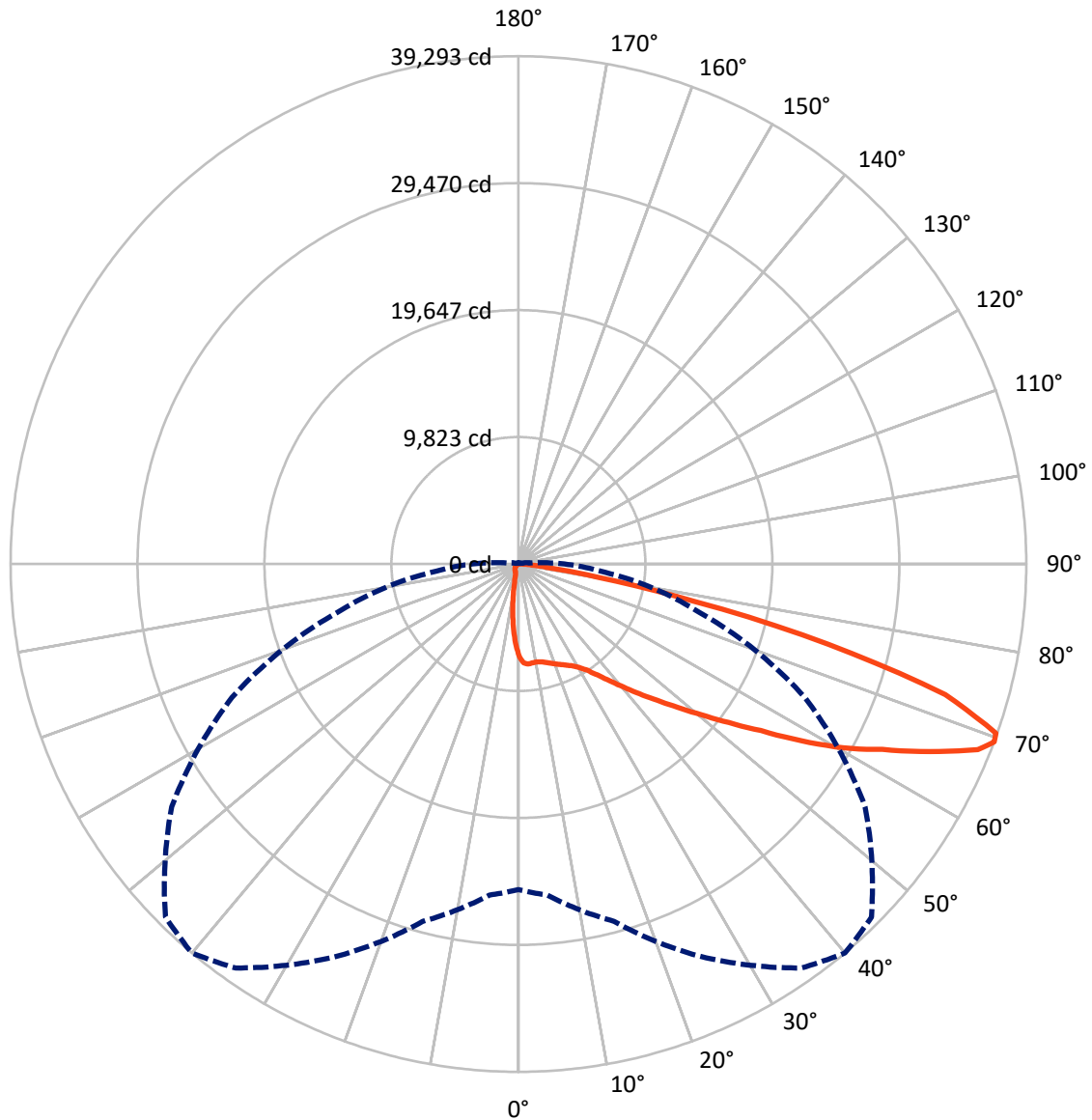
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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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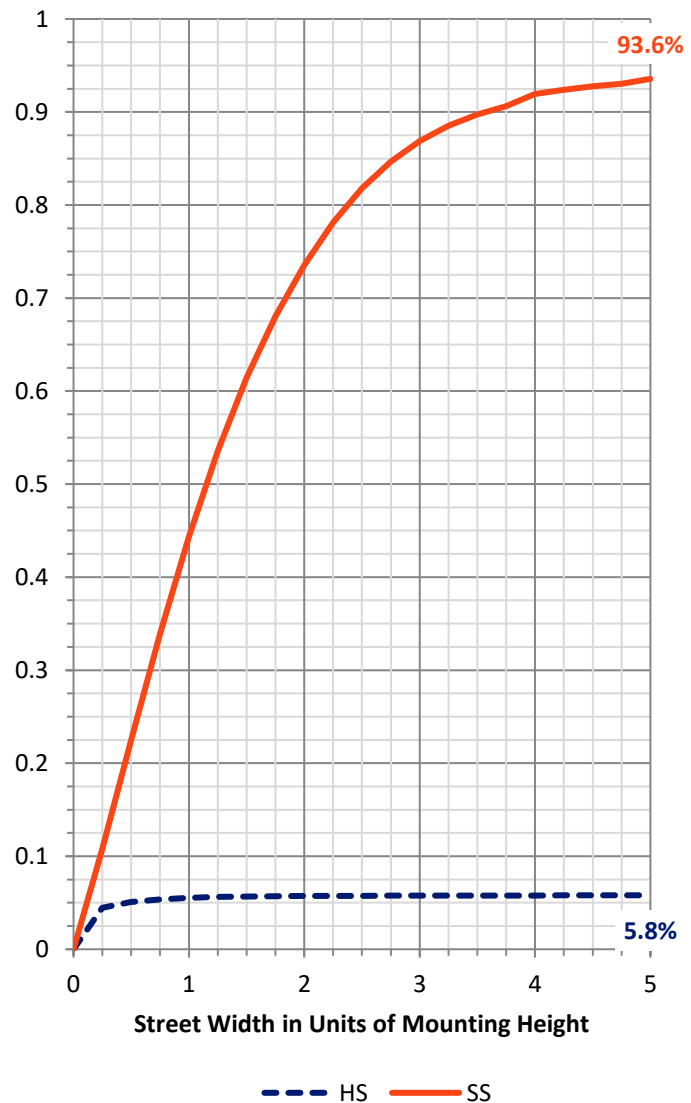
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2797.6	0.0	2797.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	45020.4	0.0	45020.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	47818.0	0.0	47818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.2	1.2
10°-20°	1424.5	3.0
20°-30°	2399.4	5.0
30°-40°	3927.8	8.2
40°-50°	6800.9	14.2
50°-60°	10712.1	22.4
60°-70°	13989.5	29.3
70°-80°	7205.2	15.1
80°-90°	779.4	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°	47818.0	100.0
0°-180°	47818.0	100.0

Coefficient of Utilization



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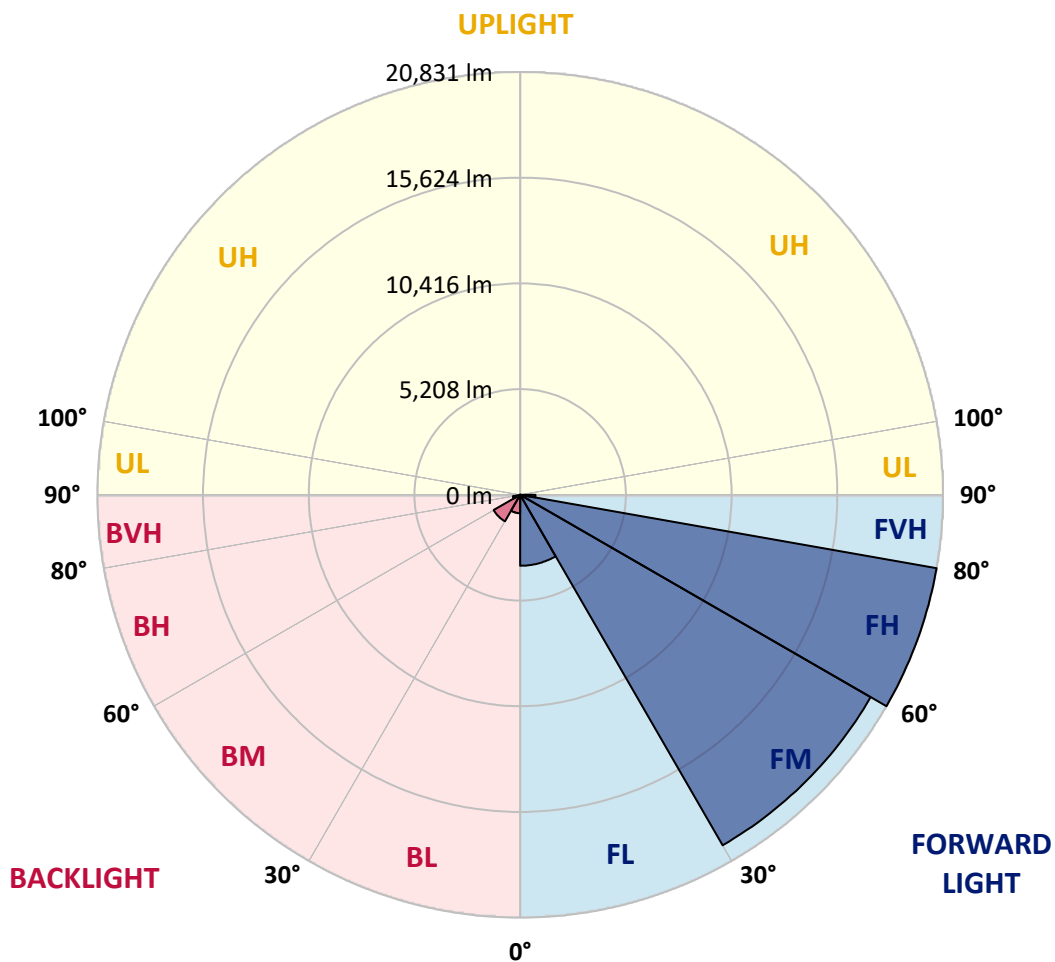
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3496.9	7.3			
FM	(30°-60°)	19937.1	41.7			
FH	(60°-80°)	20831.5	43.6			G5
FVH	(80°-90°)	754.9	1.6			G5
BL	(0°-30°)	906.2	1.9	B2/1000		
BM	(30°-60°)	1503.7	3.1	B2/2500		
BH	(60°-80°)	363.3	0.8	B1/500		G1/500
BVH	(80°-90°)	24.5	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°	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3
2.5°	7844.4	7801.8	7776.1	7742.0	7699.3	7662.3	7648.1	7542.7	7443.1	7306.5	7149.9
5°	7989.6	7975.4	7929.8	7884.3	7833.1	7776.1	7744.8	7619.6	7477.3	7278.0	7004.8
7.5°	8003.8	7986.8	7929.8	7867.2	7796.1	7727.8	7673.7	7548.4	7417.5	7215.4	6882.4
10°	7981.1	7961.1	7918.5	7850.1	7761.9	7696.4	7642.4	7522.8	7411.8	7229.6	6859.6
12.5°	7955.5	7935.5	7915.6	7881.5	7804.6	7759.1	7713.5	7599.7	7500.0	7346.3	6942.2
15°	7981.1	7969.7	7992.5	7978.2	7935.5	7895.7	7850.1	7747.7	7656.6	7528.5	7093.0
17.5°	8089.2	8089.2	8160.4	8168.9	8129.1	8072.2	8006.7	7904.2	7827.4	7719.2	7272.3
20°	8342.6	8334.0	8425.1	8442.2	8345.4	8257.2	8160.4	8035.2	7975.4	7907.1	7448.8
22.5°	8778.0	8738.2	8792.3	8775.2	8584.5	8447.9	8328.3	8174.6	8143.3	8112.0	7645.2
25°	9344.5	9321.7	9358.7	9190.8	8854.9	8669.9	8527.6	8353.9	8353.9	8385.2	7867.2
27.5°	10167.0	10081.7	9956.4	9660.4	9156.6	8920.4	8766.7	8581.6	8630.0	8746.7	8160.4
30°	11009.6	10915.6	10628.1	10172.7	9523.8	9276.1	9096.8	8903.3	9017.1	9230.6	8553.2
32.5°	11840.7	11735.4	11328.3	10753.4	10050.3	9802.7	9629.1	9415.6	9606.3	9965.0	9128.1
35°	12646.2	12552.3	12082.6	11405.2	10750.5	10545.6	10386.2	10201.2	10446.0	10946.9	9939.3
37.5°	13551.3	13448.8	12876.7	12142.4	11601.6	11453.6	11336.9	11151.9	11578.8	12313.2	11069.3
40°	14664.2	14490.6	13719.2	12987.7	12586.4	12515.3	12435.6	12409.9	13073.1	14089.3	12575.0
42.5°	15939.4	15654.7	14601.6	13878.6	13668.0	13719.2	13699.3	13813.2	14943.2	16298.0	14408.1
45°	17214.5	16847.3	15583.6	14829.3	14857.8	15037.1	15148.1	15603.5	17285.7	18831.2	16380.6
47.5°	18296.1	17934.6	16525.7	15856.8	16198.4	16551.3	16853.0	17715.5	19693.7	21324.6	17914.7
50°	19221.2	18879.6	17524.8	16986.8	17755.3	18324.6	18814.2	20092.2	22283.8	23223.1	18990.6
52.5°	19978.3	19750.6	18560.8	18281.9	19534.3	20368.2	21085.5	22616.8	24577.9	24765.8	19827.4
55°	20715.5	20553.3	19673.7	19821.7	21623.5	22759.1	23667.1	25295.2	26553.3	26052.3	20630.1
57.5°	21563.7	21415.7	20943.2	21774.3	24370.2	25799.0	26789.5	27669.0	28292.4	27367.3	21387.2
60°	22429.0	22343.6	22355.0	23943.2	27523.9	28895.8	29442.3	29670.0	30000.2	28605.5	21429.9
62.5°	23254.4	23416.6	23968.8	26356.9	30543.8	31597.0	31873.1	32097.9	31710.8	28801.9	19799.0
65°	24651.9	24916.7	26234.5	29587.5	33865.5	34992.6	35277.2	34505.9	31981.2	26263.0	16104.5
67.5°	25335.1	25818.9	28170.0	32598.9	37087.5	38339.9	38234.6	34662.4	28699.4	20026.7	10335.0
69°	25192.7	25707.9	28616.9	33521.1	38157.7	39293.4	38624.5	32746.9	24449.9	14507.7	6344.4
70°	24629.2	25150.1	28386.3	33486.9	38294.3	39193.8	37901.6	30381.6	20672.8	10608.2	3967.8
72.5°	20567.5	21017.2	25201.3	30267.7	35277.2	34545.7	31708.0	21048.5	10073.1	2889.0	893.7
75°	12660.4	12910.9	18082.7	22801.8	26644.4	24765.8	21125.4	10471.6	3002.9	816.9	495.3
77.5°	6688.8	6802.7	9899.5	13440.3	16890.0	13975.4	10827.4	4084.5	1383.3	512.3	358.6
80°	3953.5	4038.9	5331.2	6145.2	7309.3	6105.3	4329.2	2507.6	990.5	321.6	318.8
82.5°	2262.8	2316.9	3865.3	3415.6	2880.5	2459.2	2154.7	2376.7	594.9	216.3	330.2
85°	831.1	842.5	2174.6	2598.7	1713.5	1019.0	1070.2	1969.7	159.4	136.6	259.0
87.5°	387.1	378.6	1118.6	1591.1	1001.9	646.1	834.0	432.6	62.6	88.2	71.2
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°	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3	7144.3
2.5°	7058.9	6953.6	6762.8	6566.5	6367.2	6213.5	6062.7	5943.1	5903.3	5829.3	5834.9
5°	6842.5	6649.0	6250.5	5846.3	5425.1	5077.8	4750.5	4485.8	4357.7	4226.8	4226.8
7.5°	6654.7	6372.9	5749.6	5092.1	4411.8	3839.7	3324.5	2937.4	2723.9	2553.1	2550.3
10°	6583.5	6202.1	5331.2	4389.0	3441.2	2661.3	2049.3	1656.6	1454.5	1323.5	1317.8
12.5°	6614.8	6142.4	5009.5	3740.1	2550.3	1710.6	1186.9	933.6	848.2	808.4	808.4
15°	6705.9	6125.3	4687.9	3105.3	1801.7	1070.2	788.4	720.1	714.4	714.4	714.4
17.5°	6816.9	6131.0	4357.7	2487.7	1226.8	765.7	680.3	671.7	677.4	677.4	677.4
20°	6930.8	6133.8	4001.9	1915.6	865.3	666.0	640.4	637.6	643.3	643.3	646.1
22.5°	7070.3	6148.0	3646.1	1431.7	714.4	629.0	609.1	609.1	612.0	612.0	609.1
25°	7229.6	6176.5	3276.1	1061.7	651.8	603.4	586.3	583.5	586.3	583.5	580.6
27.5°	7428.9	6216.4	2863.4	831.1	623.3	577.8	563.6	563.6	560.7	557.9	555.0
30°	7679.4	6261.9	2399.4	705.9	594.9	555.0	540.8	538.0	535.1	529.4	529.4
32.5°	8060.8	6361.5	1941.2	640.4	563.6	523.7	512.3	512.3	506.6	501.0	498.1
35°	8647.1	6557.9	1531.3	600.6	529.4	489.6	475.3	475.3	469.6	466.8	463.9
37.5°	9458.3	6856.8	1189.8	563.6	495.3	452.6	438.3	435.5	429.8	424.1	421.3
40°	10537.1	7226.8	936.4	529.4	461.1	415.6	404.2	398.5	387.1	378.6	378.6
42.5°	11891.9	7648.1	760.0	492.4	421.3	381.4	372.9	364.3	344.4	335.9	333.0
45°	13309.4	8026.6	643.3	449.7	381.4	347.3	341.6	327.3	301.7	293.2	293.2
47.5°	14331.2	8114.8	566.4	409.9	344.4	310.2	307.4	281.8	259.0	253.3	250.5
50°	14968.8	7941.2	503.8	370.0	310.2	276.1	267.6	236.2	222.0	216.3	213.5
52.5°	15398.6	7631.0	452.6	335.9	278.9	244.8	224.9	202.1	190.7	185.0	185.0
55°	15743.0	7192.6	401.3	304.6	253.3	219.2	190.7	173.6	162.2	156.5	156.5
57.5°	15839.8	6597.8	350.1	278.9	227.7	193.5	162.2	150.9	136.6	133.8	133.8
60°	15136.7	5524.7	310.2	247.6	204.9	167.9	142.3	128.1	113.9	111.0	108.2
62.5°	13283.8	4275.2	273.2	219.2	179.3	145.2	122.4	105.3	93.9	93.9	93.9
65°	10132.9	2866.2	239.1	190.7	156.5	122.4	105.3	85.4	79.7	79.7	82.5
67.5°	6065.5	1559.8	204.9	162.2	133.8	102.5	88.2	74.0	71.2	74.0	74.0
69°	3555.0	916.5	185.0	145.2	116.7	91.1	76.9	65.5	71.2	74.0	74.0
70°	2194.5	617.7	170.8	130.9	105.3	82.5	71.2	62.6	68.3	71.2	71.2
72.5°	612.0	318.8	136.6	102.5	85.4	68.3	56.9	56.9	65.5	68.3	68.3
75°	398.5	236.2	105.3	76.9	65.5	54.1	48.4	54.1	62.6	65.5	65.5
77.5°	330.2	193.5	85.4	62.6	54.1	51.2	45.5	48.4	56.9	59.8	59.8
80°	301.7	136.6	68.3	56.9	48.4	45.5	42.7	39.8	51.2	54.1	54.1
82.5°	287.5	108.2	59.8	51.2	45.5	39.8	37.0	39.8	45.5	48.4	51.2
85°	179.3	71.2	54.1	48.4	39.8	37.0	37.0	37.0	42.7	45.5	45.5
87.5°	65.5	56.9	48.4	39.8	34.2	34.2	34.2	34.2	37.0	42.7	42.7
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)