

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: ITL54981_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-SL-FG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL54981_350MP
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-350-MP-XX-SL-FG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-SPILL LIGHT ELIMINATOR
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 19347.3 lumens
Efficiency: 58.6%
Efficacy: 48.7 lumens/watt
Luminous Opening: Rectangular (W 0.99' x L: 1.01' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G3

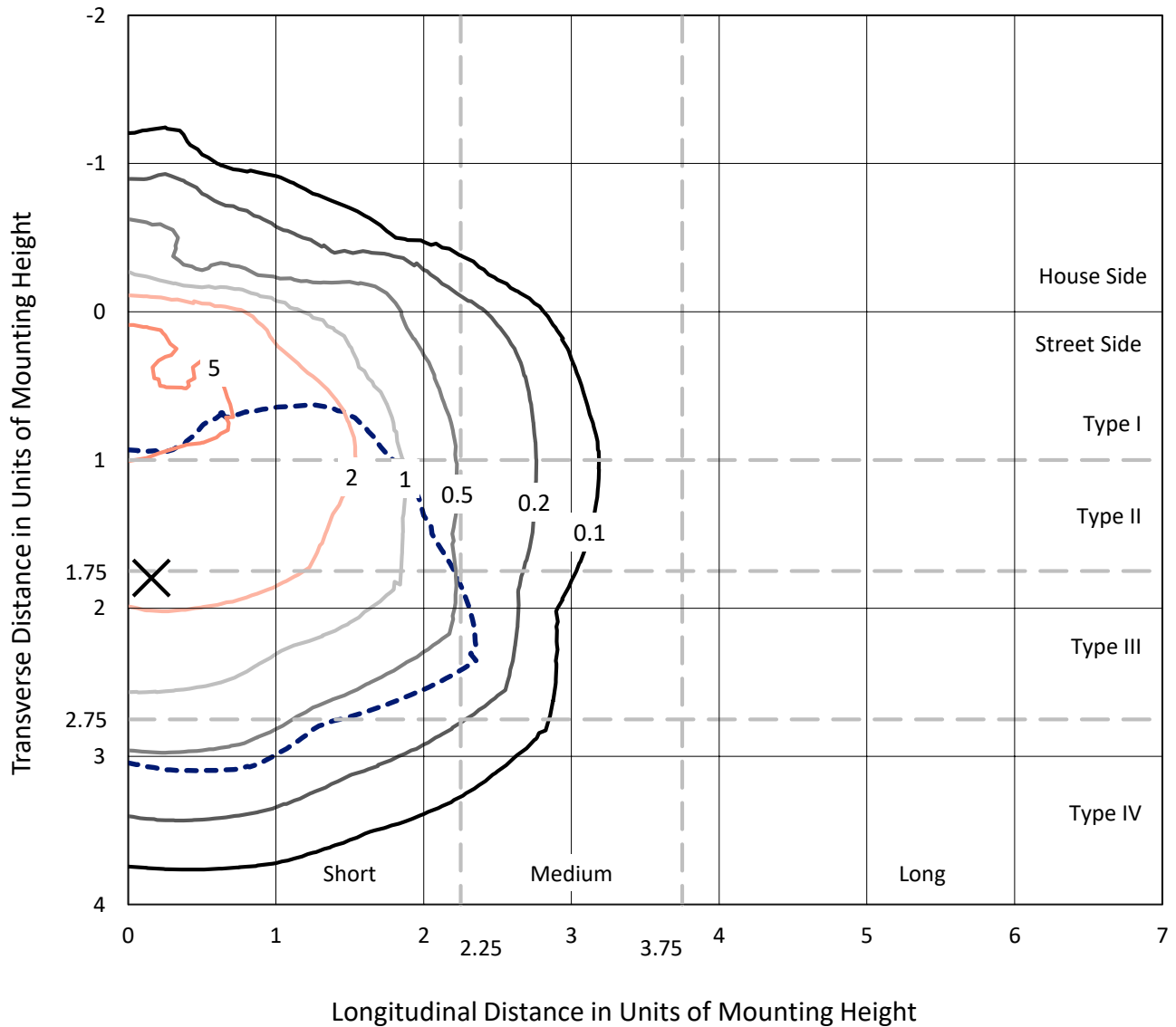
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

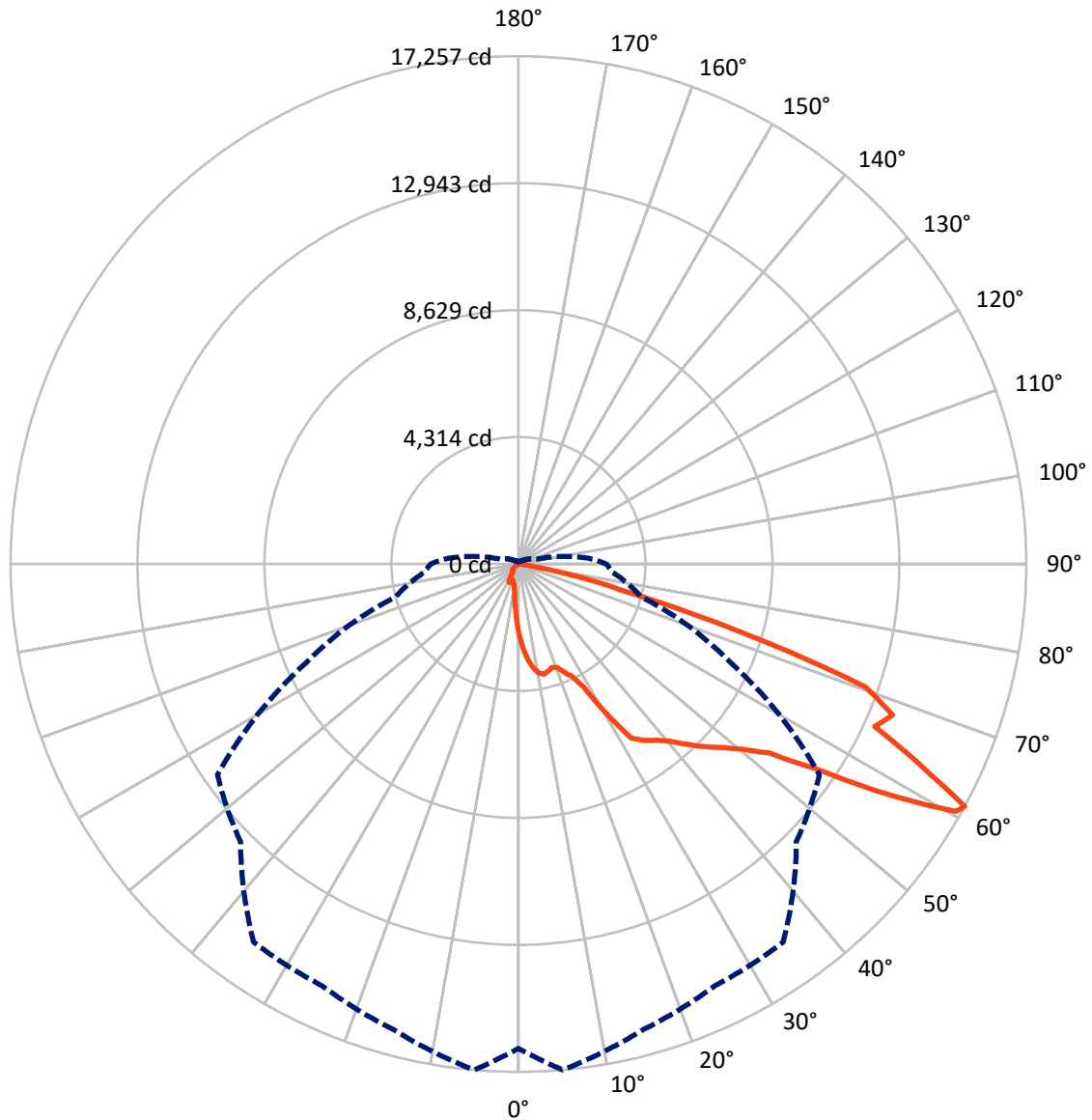
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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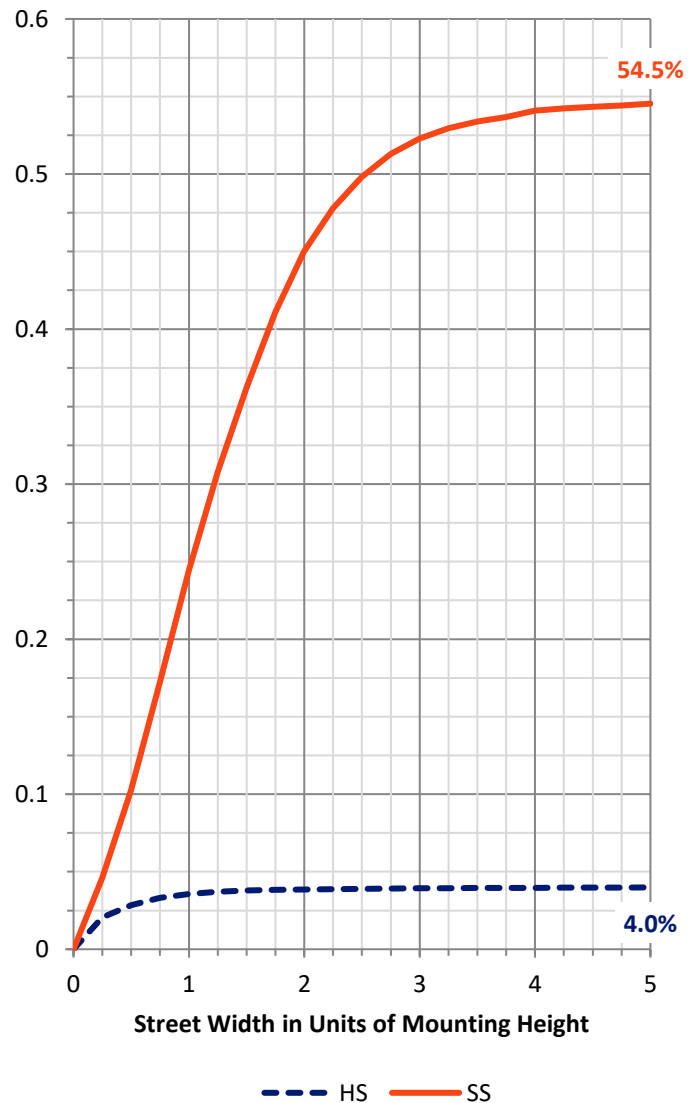
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.8	0.0	1330.8
	% Lamp	4.0	0.0	4.0
Street Side	Lumens	18016.5	0.0	18016.5
	% Lamp	54.6	0.0	54.6
Total	Lumens	19347.3	0.0	19347.3
	% Lamp	58.6	0.0	58.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	224.6	1.2	0.7
10°-20°	636.4	3.3	1.9
20°-30°	1082.0	5.6	3.3
30°-40°	1980.8	10.2	6.0
40°-50°	2967.1	15.3	9.0
50°-60°	4734.7	24.5	14.3
60°-70°	5455.0	28.2	16.5
70°-80°	2162.3	11.2	6.6
80°-90°	104.3	0.5	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	19347.3	100.0	58.6
0°-180°	19347.3	100.0	58.6

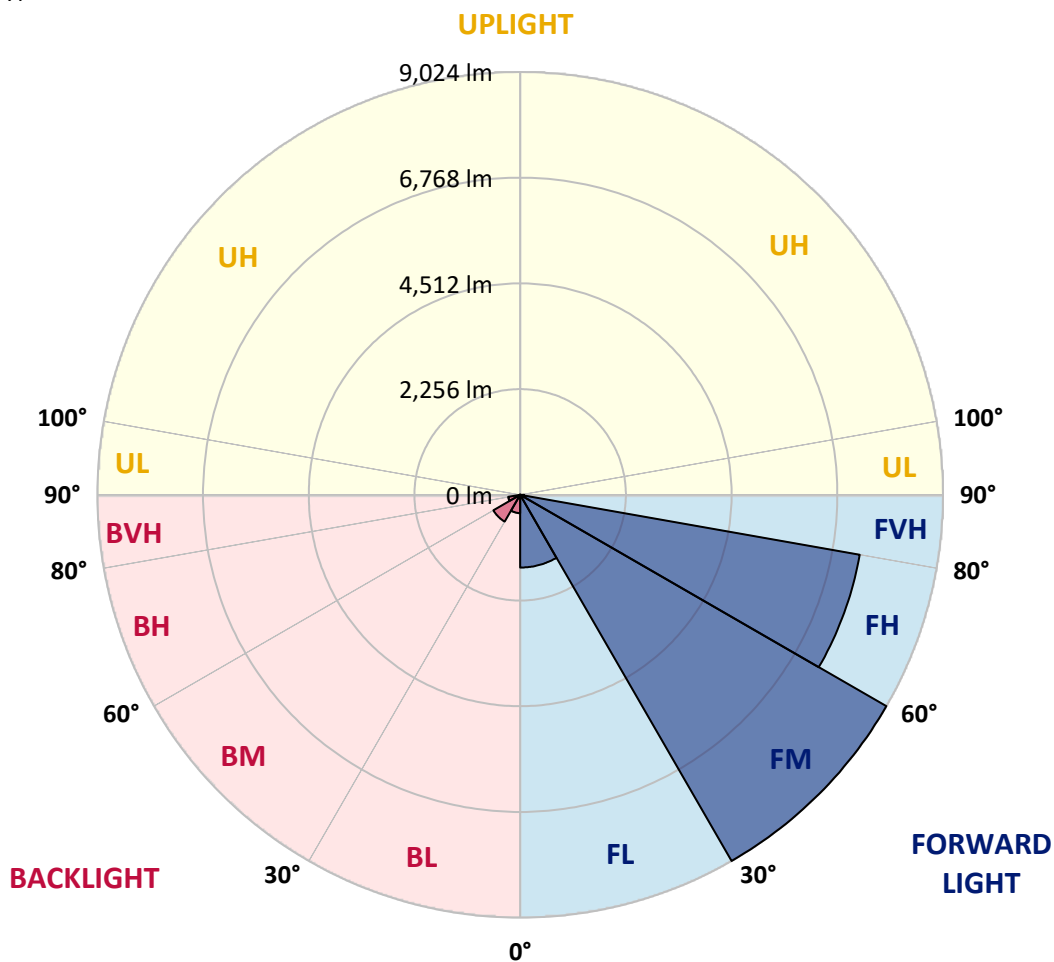


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1552.5	4.7			
FM	(30°-60°)	9023.5	27.3			
FH	(60°-80°)	7358.1	22.3			G3/7500
FVH	(80°-90°)	82.4	0.2			G1/100
BL	(0°-30°)	390.5	1.2	B1/500		
BM	(30°-60°)	659.1	2.0	B1/1000		
BH	(60°-80°)	259.2	0.8	B1/500		G1/500
BVH	(80°-90°)	21.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		13652.7	41.4			

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7
2.5°	2882.9	2831.6	2831.6	2791.2	2760.1	2739.9	2688.6	2627.2	2535.5	2474.1	2402.6
5°	3271.6	3230.3	3220.2	3190.0	3138.7	3067.2	2985.6	2852.7	2719.8	2504.3	2422.8
7.5°	3557.6	3547.5	3527.3	3455.8	3394.4	3312.8	3190.0	3036.0	2821.5	2555.7	2412.7
10°	3783.1	3762.0	3721.7	3619.0	3517.2	3434.8	3343.1	3230.3	2944.3	2607.0	2412.7
12.5°	3823.4	3844.5	3813.3	3762.0	3690.5	3537.4	3455.8	3333.0	3047.0	2637.2	2392.5
15°	3762.0	3783.1	3803.2	3813.3	3793.2	3721.7	3527.3	3404.5	3118.5	2596.9	2299.9
17.5°	3680.4	3690.5	3731.8	3783.1	3844.5	3803.2	3711.6	3486.1	3179.9	2576.8	2239.4
20°	3762.0	3751.9	3813.3	3833.5	3874.8	3884.8	3864.7	3660.2	3301.8	2637.2	2269.7
22.5°	4007.7	3987.5	4069.1	4048.9	3894.9	3905.0	3966.4	3793.2	3414.6	2719.8	2310.9
25°	4253.3	4232.2	4283.6	4160.8	3884.8	3916.0	4099.3	3833.5	3394.4	2719.8	2310.9
27.5°	4825.3	4743.8	4620.9	4345.0	3997.6	4120.4	4447.7	3823.4	3312.8	2658.3	2259.6
30°	6113.2	5898.8	5551.3	4876.7	4406.4	4549.4	5071.0	4059.0	3373.3	2729.8	2299.9
32.5°	7176.6	7054.7	6717.3	5929.9	5162.7	5132.4	5755.8	4467.8	3608.9	2914.1	2422.8
35°	7320.5	7360.8	7248.1	6798.9	6205.8	5950.1	6246.2	4743.8	3803.2	3097.4	2535.5
37.5°	7688.1	7596.4	7473.6	7309.5	7269.2	6819.1	6491.8	4774.0	3874.8	3220.2	2596.9
40°	7995.2	7912.7	7790.8	7646.8	7974.1	7821.0	6523.0	4753.8	3813.3	3220.2	2576.8
42.5°	8424.2	8372.8	8209.7	8209.7	8588.2	8465.4	6491.8	4815.2	3711.6	3077.2	2453.9
45°	8894.4	8853.2	8618.5	8761.5	9231.8	8731.2	6972.2	5081.1	3833.5	2995.7	2321.0
47.5°	9384.8	9313.3	9017.2	9068.6	9702.0	9457.2	8015.3	5479.8	4130.5	2914.1	2259.6
50°	9937.6	9896.3	9589.2	9293.2	10663.6	11235.6	9231.8	6215.9	4375.2	2872.8	2279.8
52.5°	10693.8	10663.6	10386.8	9947.7	12237.5	12922.2	10243.8	7238.0	4457.8	2964.5	2422.8
55°	12493.2	12298.9	11604.1	11255.8	13862.8	13965.4	11685.7	8168.4	4519.2	3240.4	2801.3
57.5°	14864.7	14742.8	13638.2	12779.2	14650.2	13781.2	13209.2	8526.8	4406.4	3394.4	3220.2
60°	16664.1	17072.9	15969.2	15038.8	15376.2	13413.6	12993.8	8444.3	4242.3	3261.5	3148.8
61°	16459.7	17257.2	16378.1	15806.1	15683.2	13352.2	12483.2	7974.1	4314.8	3200.1	2985.6
62.5°	14231.2	15673.2	16203.9	16480.8	16173.7	13219.2	11695.8	7156.4	4508.2	3168.9	2719.8
65°	12595.0	13300.8	14261.5	15427.5	16183.8	12707.8	10652.6	6379.1	4365.2	3190.0	2474.1
67.5°	13883.8	13709.7	13904.0	12769.2	14619.9	13935.2	8751.4	5868.5	4191.9	3015.8	2259.6
70°	12104.6	12503.3	12636.2	10878.1	11858.9	13157.8	6706.3	4815.2	3619.0	2576.8	1779.2
72.5°	7136.2	7862.2	8659.8	7851.2	8690.0	9773.5	5060.9	3751.9	2688.6	1543.7	981.8
75°	3660.2	3854.6	4253.3	4293.7	5152.6	5735.6	2095.5	2218.3	1942.4	1032.2	613.2
77.5°	1676.6	2003.8	2453.9	2831.6	2739.9	2024.0	950.6	940.5	858.9	490.4	357.5
80°	490.4	541.8	694.8	889.2	848.8	613.2	511.5	408.8	440.0	255.8	214.5
82.5°	163.2	163.2	214.5	265.8	275.9	214.5	153.1	163.2	204.4	153.1	132.9
85°	61.4	61.4	81.6	91.7	91.7	81.6	81.6	81.6	91.7	91.7	71.5
87.5°	0.0	0.0	20.2	30.2	41.2	41.2	41.2	41.2	51.3	51.3	51.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7	2368.7
2.5°	2351.2	2269.7	2188.1	2085.4	2003.8	1962.6	1891.1	1870.9	1829.7	1881.0
5°	2321.0	2156.9	1993.8	1840.7	1686.7	1584.9	1482.2	1410.8	1390.6	1430.9
7.5°	2279.8	2013.9	1768.2	1543.7	1359.4	1237.5	1134.8	1073.4	1032.2	1063.3
10°	2228.4	1870.9	1543.7	1287.9	1073.4	950.6	879.1	838.8	817.7	838.8
12.5°	2156.9	1717.8	1349.3	1043.2	848.8	756.2	726.0	726.0	726.0	736.1
15°	2013.9	1502.4	1114.7	838.8	684.8	654.5	664.6	674.7	684.8	694.8
17.5°	1912.2	1339.2	930.4	694.8	593.1	603.2	623.3	633.4	623.3	633.4
20°	1881.0	1216.4	787.4	593.1	531.7	541.8	561.9	572.9	572.9	593.1
22.5°	1881.0	1124.8	664.6	511.5	480.3	480.3	500.5	541.8	572.9	572.9
25°	1881.0	1063.3	561.9	450.1	429.0	440.0	500.5	561.9	603.2	593.1
27.5°	1829.7	1001.9	521.6	408.8	388.7	450.1	541.8	623.3	705.8	694.8
30°	1819.6	950.6	521.6	398.8	378.6	460.2	613.2	654.5	644.4	674.7
32.5°	1829.7	899.2	541.8	408.8	388.7	490.4	541.8	490.4	450.1	470.2
35°	1850.8	889.2	572.9	460.2	418.9	429.0	440.0	398.8	368.5	368.5
37.5°	1799.4	858.9	583.0	490.4	418.9	398.8	408.8	408.8	357.5	347.4
40°	1717.8	838.8	561.9	470.2	408.8	378.6	418.9	378.6	307.1	327.2
42.5°	1625.2	787.4	511.5	460.2	388.7	327.2	368.5	347.4	275.9	286.0
45°	1553.8	756.2	480.3	440.0	337.3	275.9	296.1	317.2	265.8	265.8
47.5°	1553.8	756.2	480.3	408.8	327.2	245.7	245.7	296.1	245.7	245.7
50°	1605.1	756.2	500.5	388.7	296.1	224.6	214.5	265.8	245.7	245.7
52.5°	1727.9	736.1	490.4	378.6	286.0	194.3	204.4	275.9	245.7	224.6
55°	2055.2	705.8	450.1	347.4	255.8	194.3	184.2	143.0	91.7	81.6
57.5°	2443.8	664.6	460.2	296.1	224.6	163.2	102.7	81.6	71.5	81.6
60°	2494.2	644.4	440.0	245.7	184.2	122.8	91.7	81.6	71.5	81.6
61°	2351.2	623.3	408.8	224.6	174.2	112.8	102.7	81.6	81.6	81.6
62.5°	2034.1	603.2	368.5	194.3	132.9	112.8	102.7	81.6	71.5	61.4
65°	1563.8	490.4	296.1	132.9	112.8	112.8	91.7	91.7	71.5	81.6
67.5°	1267.8	408.8	224.6	112.8	102.7	102.7	102.7	91.7	81.6	81.6
70°	930.4	337.3	174.2	102.7	91.7	91.7	91.7	91.7	81.6	81.6
72.5°	593.1	265.8	153.1	91.7	91.7	91.7	91.7	81.6	71.5	81.6
75°	398.8	224.6	112.8	81.6	81.6	81.6	91.7	81.6	71.5	61.4
77.5°	286.0	163.2	91.7	71.5	71.5	71.5	71.5	71.5	51.3	61.4
80°	184.2	102.7	71.5	61.4	51.3	51.3	71.5	51.3	51.3	41.2
82.5°	102.7	71.5	51.3	51.3	51.3	51.3	41.2	51.3	30.2	41.2
85°	71.5	51.3	41.2	41.2	30.2	30.2	30.2	30.2	10.1	20.2
87.5°	41.2	41.2	41.2	41.2	30.2	30.2	10.1	10.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)