

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: P197801

Luminaire Tested: **TT-C2-LED-E1-WQ-CG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-WQ-CG-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

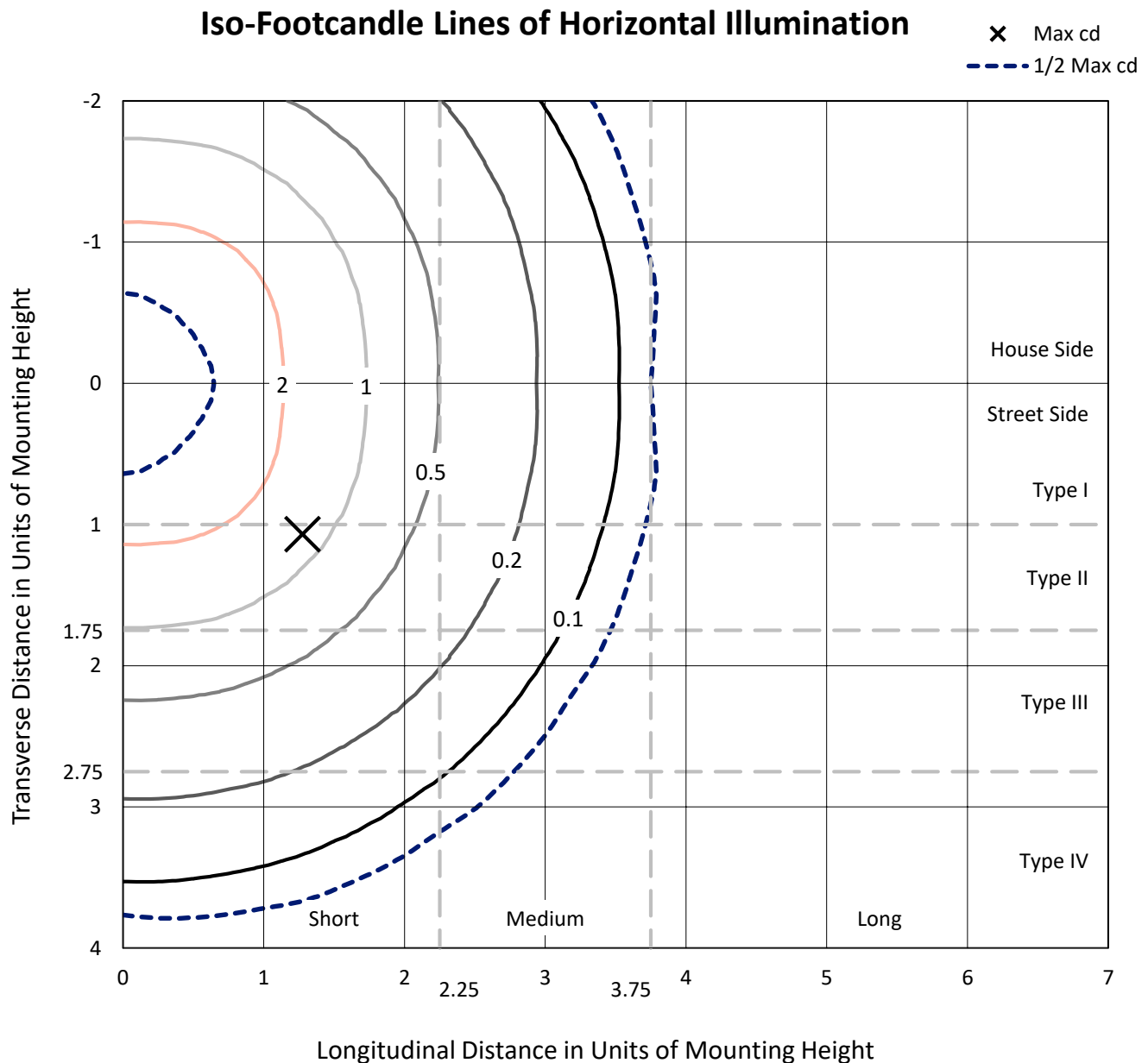
Lumens per Lamp: N/A
Luminaire Lumens: 3288.9 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
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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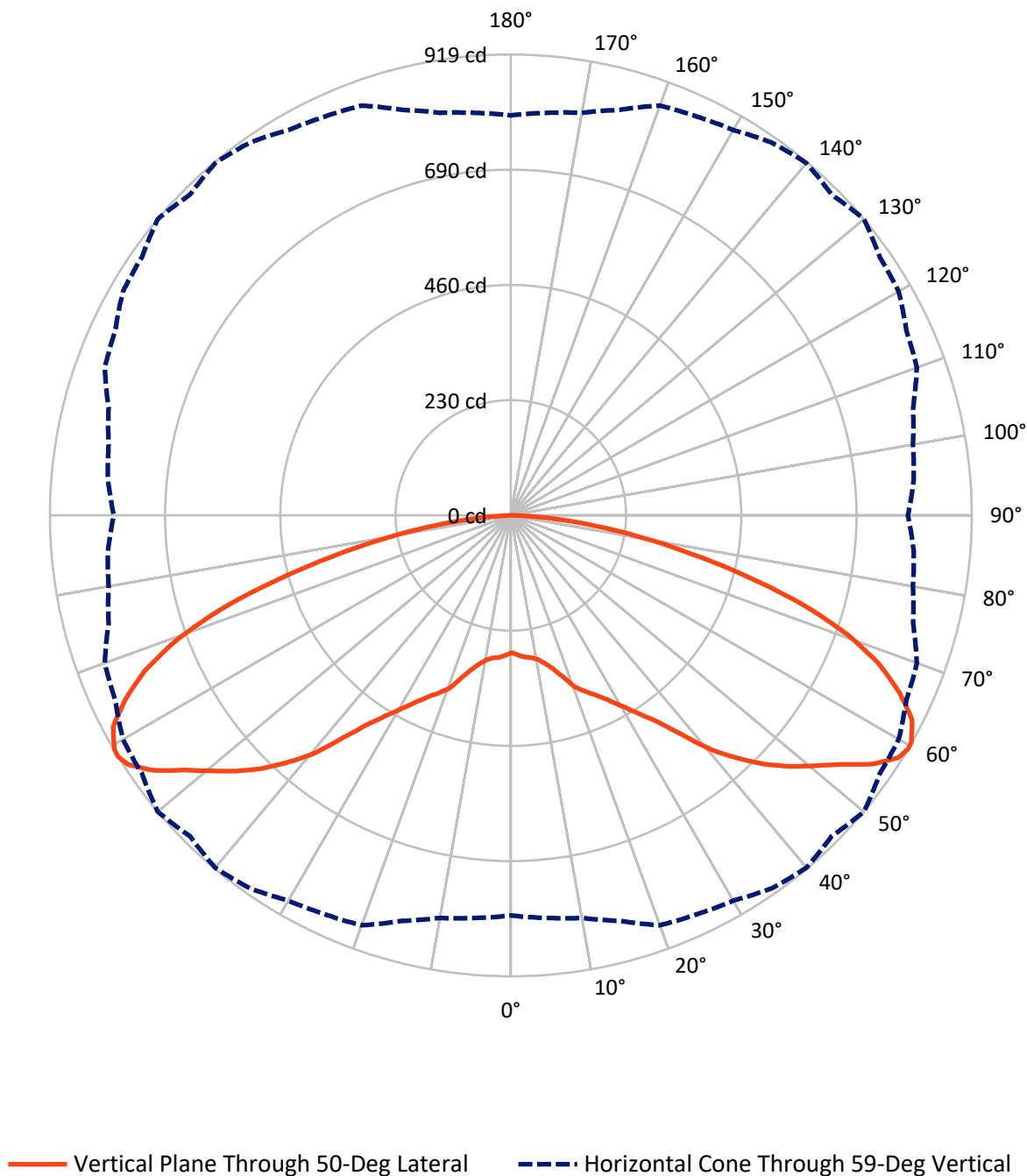


Based on 10 foot mounting height. Maximum calculated value = 3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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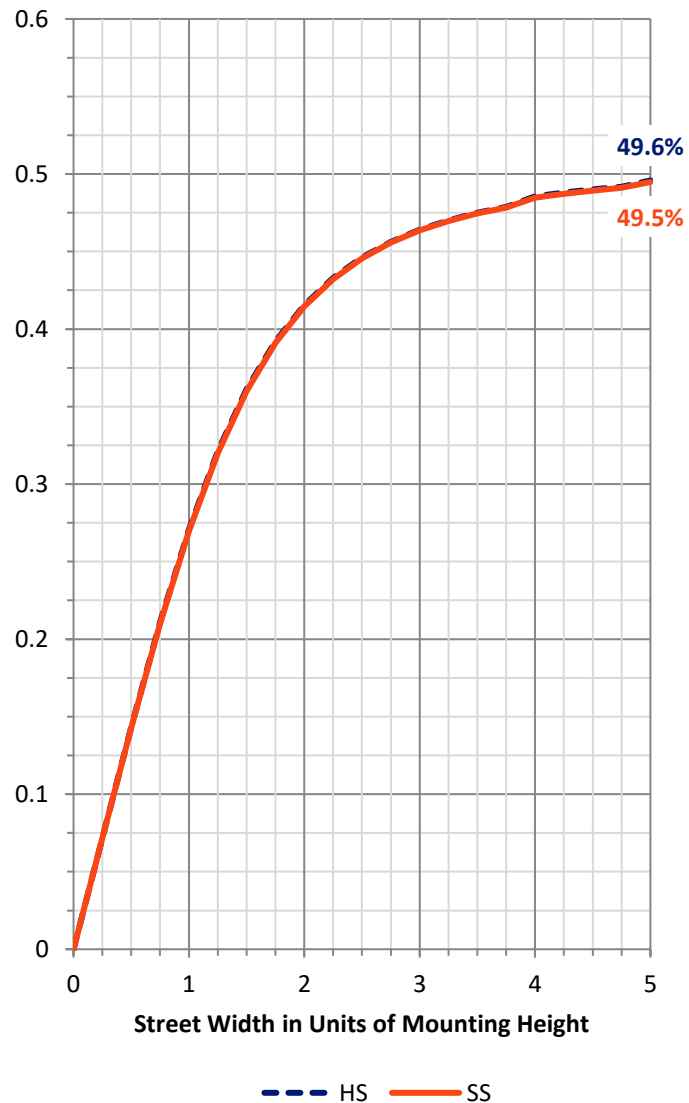
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.4	0.0	1644.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1644.4	0.0	1644.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3288.9	0.0	3288.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	0.8
10°-20°	91.9	2.8
20°-30°	184.9	5.6
30°-40°	318.1	9.7
40°-50°	525.2	16.0
50°-60°	739.5	22.5
60°-70°	791.1	24.1
70°-80°	502.5	15.3
80°-90°	108.6	3.3
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°	3288.9	100.0
0°-180°	3288.9	100.0

Coefficient of Utilization



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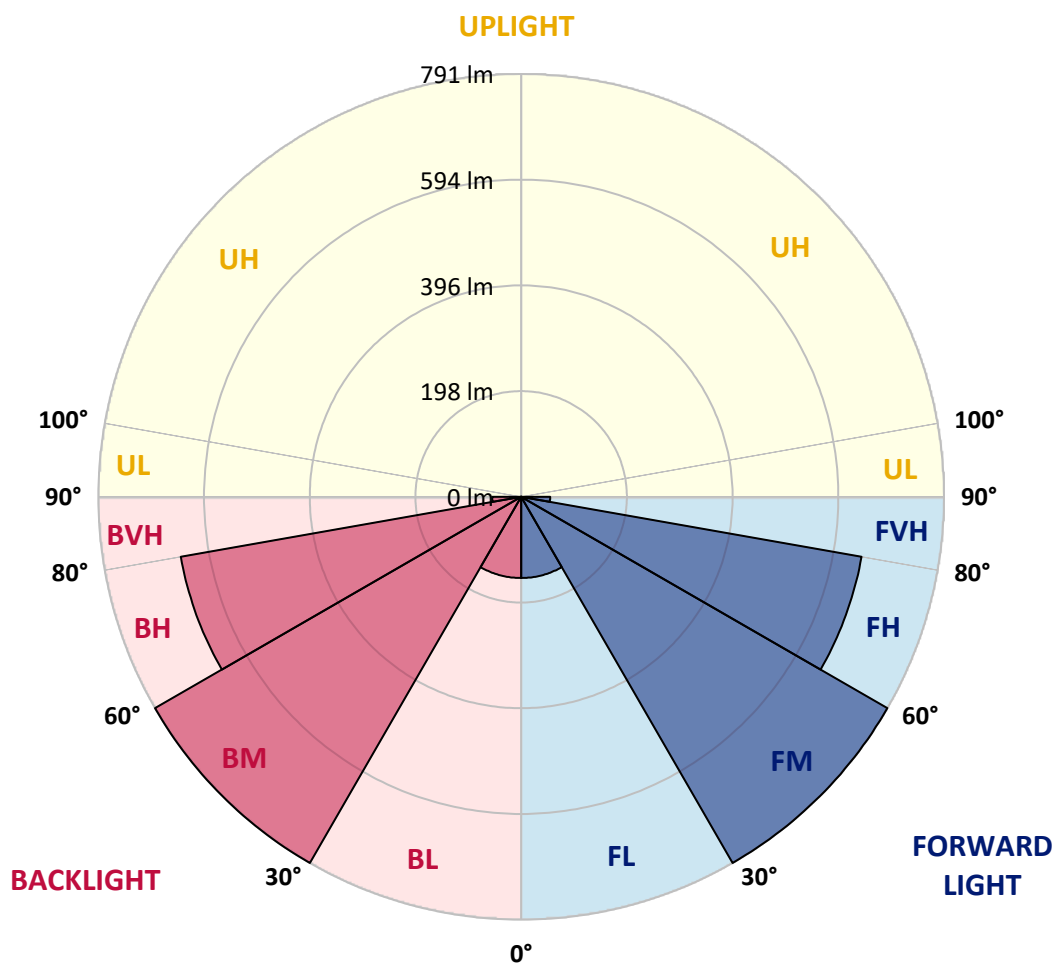
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	152.0	4.6			
FM	(30°-60°)	791.4	24.1			
FH	(60°-80°)	646.8	19.7			G0/660
FVH	(80°-90°)	54.3	1.7			G1/100
BL	(0°-30°)	152.0	4.6	B1/500		
BM	(30°-60°)	791.4	24.1	B1/1000		
BH	(60°-80°)	646.8	19.7	B2/1000		G0/660
BVH	(80°-90°)	54.3	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7
2.5°	279.5	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8
5°	281.0	281.0	281.7	281.7	282.5	282.5	282.5	283.2	283.2	283.2	283.9
7.5°	283.9	283.2	283.9	283.9	283.9	284.6	284.6	284.6	285.4	286.1	286.1
10°	293.4	292.6	293.4	293.4	293.4	291.9	291.9	292.6	291.9	291.9	291.9
12.5°	304.3	304.3	305.0	305.8	305.8	305.0	304.3	303.6	302.8	302.8	302.8
15°	314.5	315.2	315.9	317.4	318.1	318.1	318.9	319.6	318.9	318.9	318.1
17.5°	330.5	332.0	332.7	333.4	333.4	333.4	334.9	337.1	339.2	340.7	339.2
20°	357.4	358.2	359.6	359.6	358.9	359.6	361.1	361.8	363.3	364.7	365.4
22.5°	375.6	377.1	379.3	379.3	378.5	379.3	380.7	380.7	379.3	380.0	381.5
25°	390.9	391.7	393.1	393.8	394.6	398.2	401.1	400.4	397.5	398.2	397.5
27.5°	409.1	410.6	412.0	412.0	412.0	414.2	417.1	418.6	420.8	420.0	417.9
30°	433.1	435.3	436.1	435.3	436.8	439.0	438.2	439.7	443.3	447.0	442.6
32.5°	452.1	454.3	456.4	459.4	464.5	467.4	465.9	466.6	468.8	471.7	471.7
35°	480.5	484.1	485.6	486.3	491.4	497.2	501.6	505.2	504.5	502.3	505.9
37.5°	523.4	527.1	528.5	531.4	538.0	539.4	546.0	554.7	557.6	554.7	554.7
40°	569.3	572.9	580.2	586.8	596.9	599.1	607.1	610.8	618.1	618.8	614.4
42.5°	607.1	611.5	613.0	623.9	637.7	647.9	656.6	657.4	662.5	666.8	661.7
45°	647.9	651.5	653.7	663.9	671.2	683.6	697.4	703.2	705.4	704.7	707.6
47.5°	685.8	690.9	693.0	701.0	709.8	720.0	728.0	744.7	748.4	741.1	747.6
50°	709.1	714.9	720.0	737.4	752.7	760.7	767.3	781.1	789.1	782.6	784.8
52.5°	745.5	746.9	751.3	758.6	781.1	808.1	815.3	819.7	831.4	835.0	824.8
55°	795.0	800.0	803.7	813.2	822.6	841.5	873.6	879.4	876.5	894.0	875.8
57.5°	802.2	811.7	822.6	843.7	862.7	868.5	887.4	910.0	907.8	910.0	911.4
59°	797.9	805.9	815.3	837.2	869.9	877.9	887.4	907.8	917.3	904.9	919.4
60°	799.3	805.1	810.2	827.7	862.7	880.9	886.7	899.1	917.3	900.5	918.0
62.5°	793.5	800.8	806.6	816.8	833.5	859.0	881.6	875.8	902.0	888.9	898.3
65°	762.2	770.2	781.8	796.4	816.1	823.3	845.9	858.3	852.5	867.0	851.7
67.5°	709.8	717.1	724.3	741.8	763.6	773.1	778.9	801.5	793.5	810.2	792.8
70°	639.9	647.9	658.1	667.6	687.2	695.2	701.8	712.0	714.9	714.9	713.4
72.5°	556.2	562.7	569.3	578.7	590.4	597.7	600.6	602.8	614.4	610.0	610.8
75°	461.5	468.1	471.0	474.6	482.6	481.9	484.8	483.4	490.7	487.7	486.3
77.5°	361.1	363.3	371.3	371.3	369.1	372.7	369.1	366.9	365.4	366.9	366.9
80°	250.4	257.0	262.1	265.7	267.2	265.7	266.4	263.5	263.5	261.3	262.1
82.5°	154.3	160.9	163.1	166.7	167.4	167.4	167.4	165.3	166.0	163.8	165.3
85°	75.7	75.7	78.6	82.3	83.0	84.4	84.4	84.4	84.4	84.4	85.2
87.5°	18.9	18.9	20.4	22.6	22.6	23.3	24.0	24.8	24.8	25.5	25.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7
2.5°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8
5°	283.9	283.2	283.2	282.5	282.5	281.7	281.7	281.7
7.5°	286.8	286.8	286.1	285.4	284.6	284.6	285.4	285.4
10°	292.6	294.1	294.8	294.8	294.1	294.1	293.4	293.4
12.5°	302.1	303.6	305.0	306.5	306.5	305.8	304.3	303.6
15°	316.7	316.7	317.4	318.1	318.1	316.7	313.8	313.8
17.5°	336.3	334.9	332.7	333.4	334.1	333.4	330.5	332.0
20°	363.3	360.3	358.9	357.4	360.3	360.3	356.0	356.0
22.5°	382.9	380.7	377.1	376.4	378.5	380.0	376.4	374.2
25°	399.7	400.4	396.0	393.8	394.6	395.3	390.2	390.9
27.5°	417.9	418.6	416.4	412.8	411.3	413.5	409.9	408.4
30°	439.7	439.0	440.4	436.1	432.4	434.6	434.6	431.0
32.5°	468.1	465.9	466.6	461.5	457.2	456.4	453.5	449.2
35°	506.7	500.8	496.5	493.6	485.6	484.1	484.1	479.0
37.5°	556.9	548.2	540.2	540.2	527.8	524.1	526.3	519.8
40°	613.0	610.0	597.7	595.5	582.4	573.6	573.6	565.6
42.5°	653.7	657.4	642.8	634.1	625.3	611.5	613.0	602.8
45°	698.1	695.9	683.6	668.3	665.4	650.8	652.3	642.1
47.5°	740.4	727.3	721.4	706.1	699.6	682.8	687.9	679.9
50°	781.1	766.6	760.7	742.5	733.8	715.6	716.3	701.8
52.5°	823.3	810.2	801.5	778.2	762.9	749.8	746.9	740.4
55°	877.9	864.1	843.0	821.2	809.5	790.6	792.8	782.6
57.5°	899.1	890.3	867.8	854.6	832.8	813.9	809.5	791.3
59°	898.3	893.2	870.7	861.9	830.6	814.6	806.6	792.0
60°	893.2	891.8	869.2	858.3	825.5	811.0	803.7	794.2
62.5°	877.9	877.2	851.7	838.6	811.7	800.0	795.7	783.3
65°	855.4	843.0	823.3	814.6	786.9	778.2	765.8	753.5
67.5°	801.5	773.8	770.9	760.0	736.0	725.1	717.1	705.4
70°	712.7	694.5	694.5	680.7	663.9	658.8	647.9	634.8
72.5°	602.0	597.7	599.9	583.8	575.8	572.9	563.5	551.8
75°	481.2	481.9	479.7	476.1	473.9	474.6	464.5	459.4
77.5°	364.7	371.3	369.8	364.7	369.8	369.1	360.3	358.2
80°	259.9	262.8	264.3	261.3	264.3	262.1	254.8	254.1
82.5°	163.8	164.5	166.0	163.1	163.8	163.1	158.0	158.0
85°	83.7	86.6	83.0	80.1	80.1	77.2	75.7	76.4
87.5°	24.8	26.2	23.3	23.3	21.8	20.4	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)