

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: P197515

Luminaire Tested: **TT-C2-LED-E1-CQ-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
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-CQ-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4192 lumens
Efficiency: N/A
Efficacy: 123.3 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

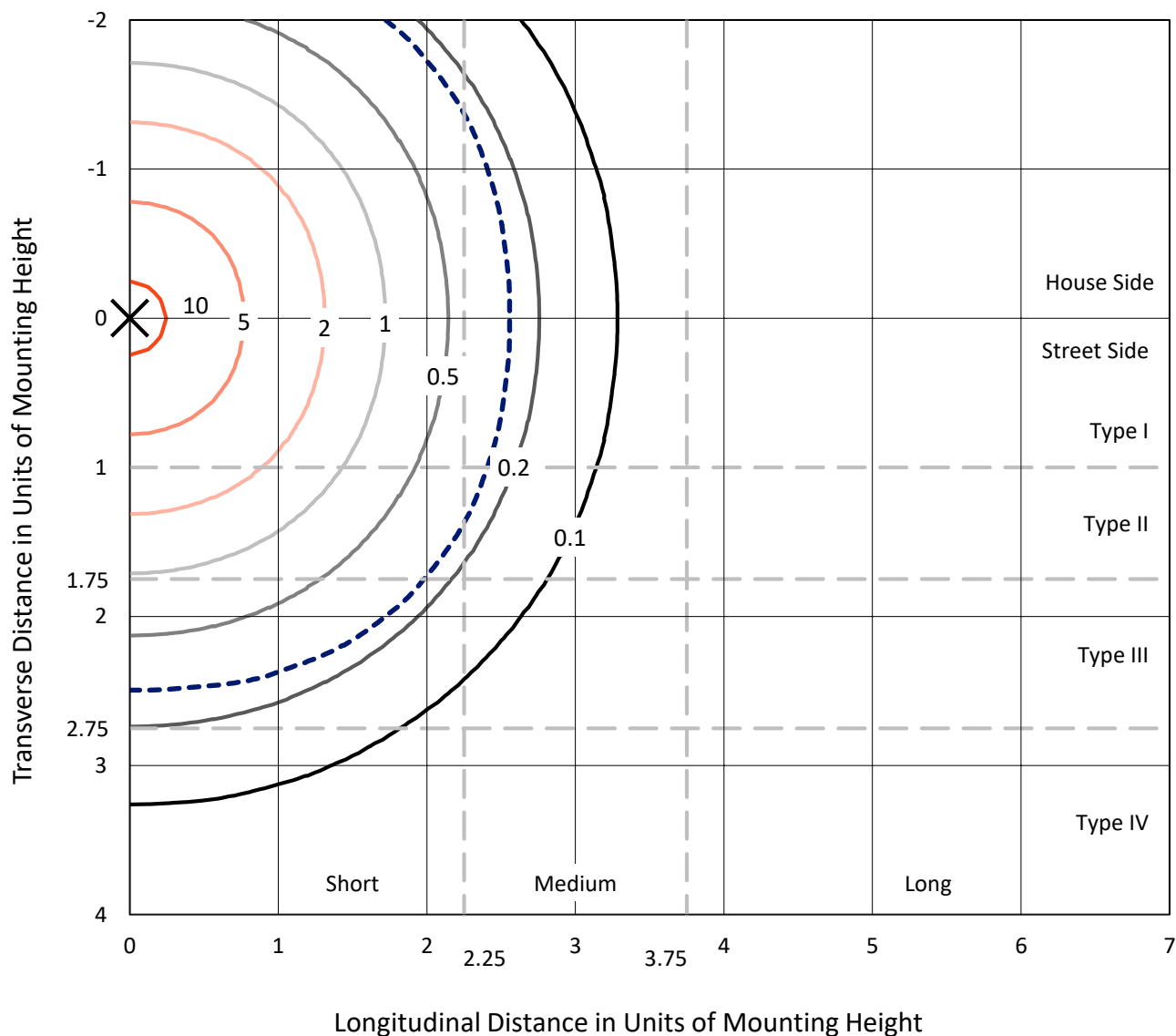


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

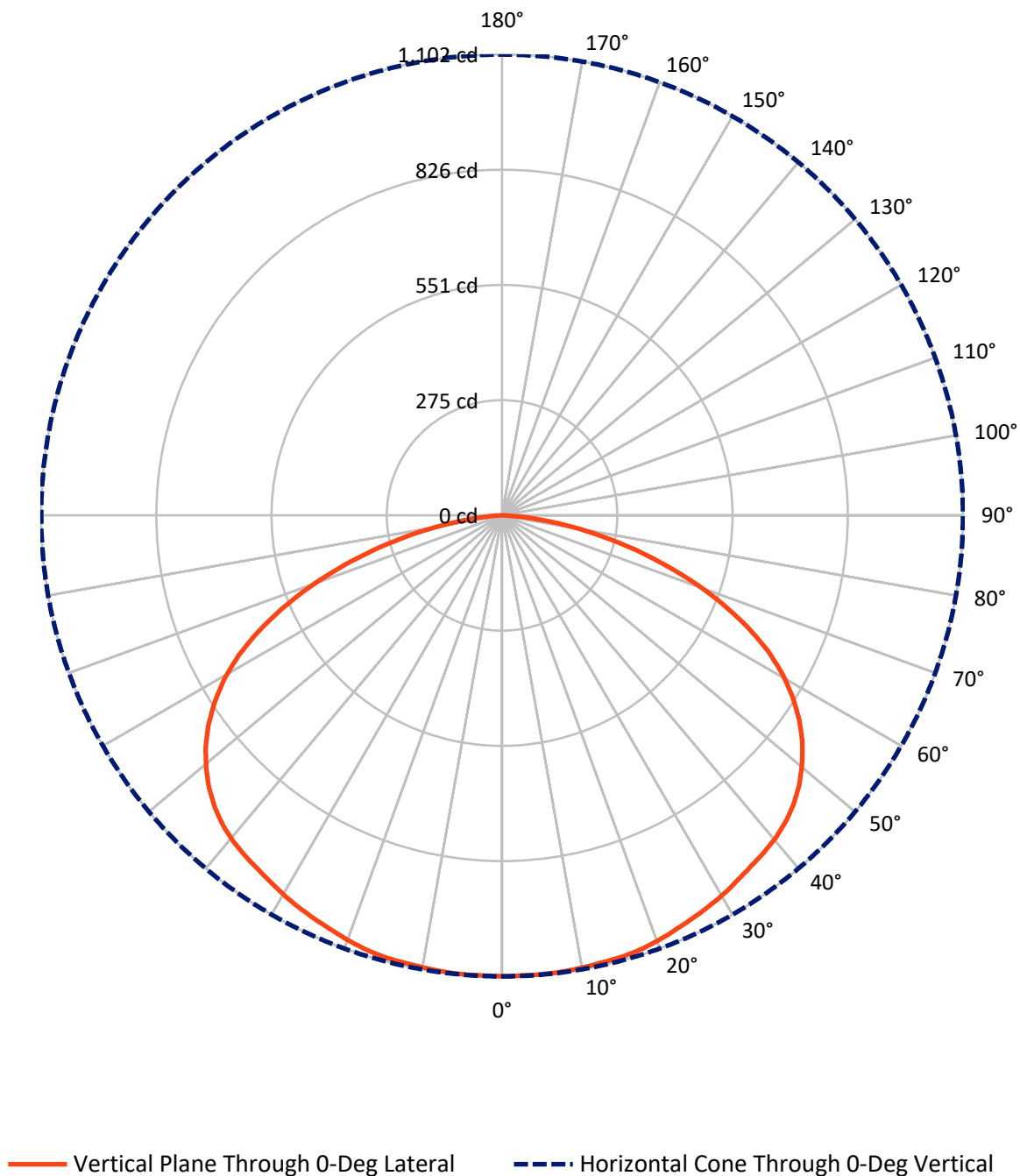


Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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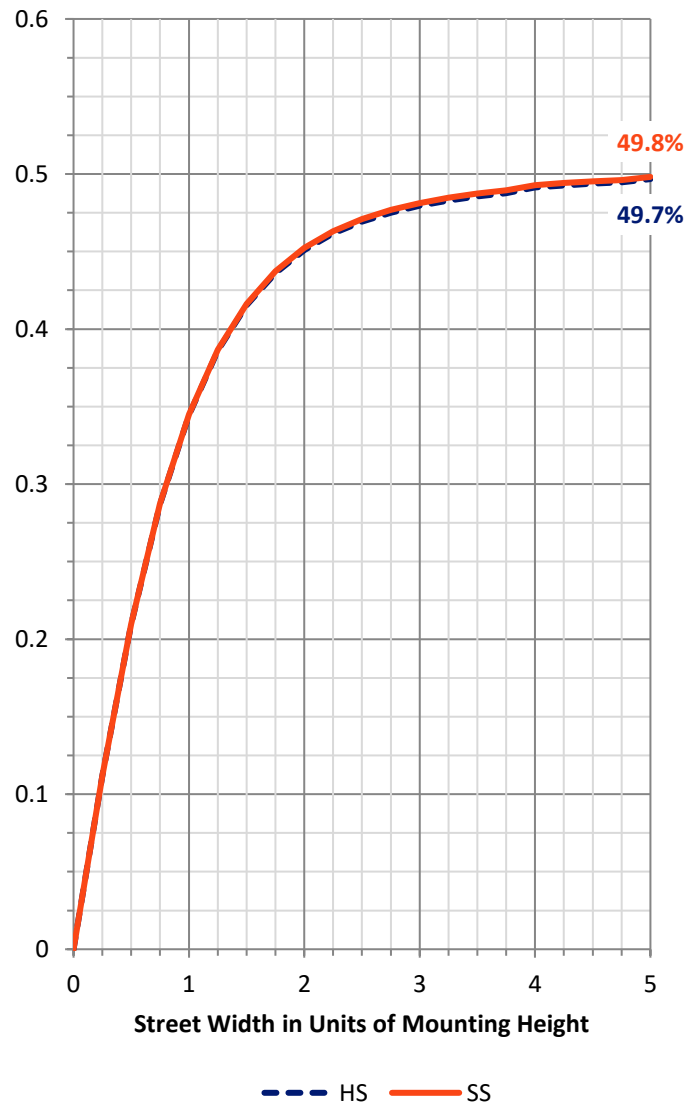
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2096.0	0.0	2096.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2096.0	0.0	2096.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4192.0	0.0	4192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	2.5
10°-20°	309.1	7.4
20°-30°	492.4	11.7
30°-40°	645.5	15.4
40°-50°	761.3	18.2
50°-60°	788.5	18.8
60°-70°	659.4	15.7
70°-80°	359.4	8.6
80°-90°	71.3	1.7
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°	4192.0	100.0
0°-180°	4192.0	100.0

Coefficient of Utilization



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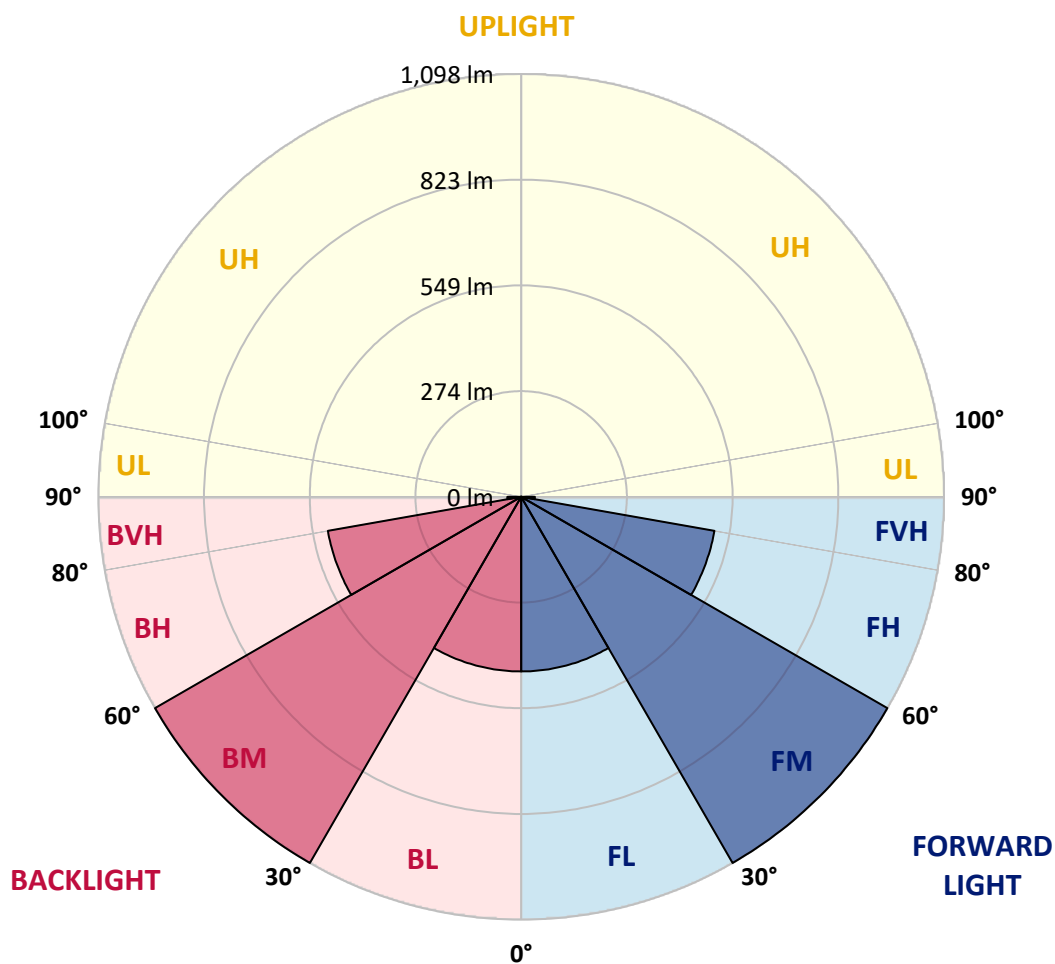
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.2	10.8			
FM	(30°-60°)	1097.7	26.2			
FH	(60°-80°)	509.4	12.2			G0/660
FVH	(80°-90°)	35.7	0.9			G1/100
BL	(0°-30°)	453.2	10.8	B1/500		
BM	(30°-60°)	1097.7	26.2	B2/2500		
BH	(60°-80°)	509.4	12.2	B2/1000		G0/660
BVH	(80°-90°)	35.7	0.9			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°	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7
2.5°	1100.8	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7	1100.8	1101.7	1101.7
5°	1100.8	1100.8	1100.8	1100.8	1101.7	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8
7.5°	1099.9	1099.0	1099.0	1099.0	1099.0	1099.0	1099.9	1099.9	1099.9	1099.9	1099.9
10°	1097.3	1097.3	1097.3	1097.3	1097.3	1097.3	1097.3	1097.3	1097.3	1097.3	1097.3
12.5°	1094.6	1094.6	1094.6	1094.6	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5	1094.6
15°	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9
17.5°	1088.4	1088.4	1088.4	1088.4	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3
20°	1081.4	1081.4	1081.4	1081.4	1081.4	1082.3	1083.2	1083.2	1083.2	1083.2	1083.2
22.5°	1072.6	1072.6	1073.4	1073.4	1074.3	1074.3	1075.2	1075.2	1075.2	1075.2	1075.2
25°	1064.6	1064.6	1064.6	1065.5	1065.5	1065.5	1066.4	1067.3	1067.3	1067.3	1066.4
27.5°	1056.7	1056.7	1056.7	1057.6	1057.6	1057.6	1058.5	1058.5	1059.3	1058.5	1058.5
30°	1047.9	1047.0	1047.0	1047.9	1048.8	1048.8	1049.6	1049.6	1049.6	1049.6	1048.8
32.5°	1037.3	1037.3	1038.2	1039.0	1039.0	1039.9	1040.8	1040.8	1040.8	1041.7	1039.9
35°	1027.6	1028.5	1028.5	1029.3	1031.1	1032.0	1032.9	1033.8	1033.8	1033.8	1032.0
37.5°	1019.6	1020.5	1021.4	1023.2	1024.9	1026.7	1028.5	1030.2	1029.3	1029.3	1026.7
40°	1009.9	1010.8	1012.6	1014.4	1017.9	1019.6	1022.3	1024.1	1024.9	1024.1	1021.4
42.5°	996.7	997.6	999.4	1002.0	1006.4	1009.9	1012.6	1015.2	1016.1	1015.2	1012.6
45°	979.1	980.0	981.7	985.2	990.5	994.1	998.5	1001.1	1002.9	1002.9	1000.2
47.5°	957.0	957.9	960.5	964.1	969.4	973.8	979.1	982.6	984.4	986.1	983.5
50°	929.7	930.6	934.1	938.5	942.9	949.1	955.3	960.5	963.2	964.1	963.2
52.5°	898.8	899.7	903.2	907.6	913.8	920.9	927.9	934.1	937.6	939.4	937.6
55°	861.8	863.5	866.2	872.3	879.4	885.6	894.4	901.5	905.9	906.7	905.9
57.5°	818.5	821.2	823.8	830.9	837.9	846.8	853.8	860.9	866.2	867.1	867.1
60°	770.0	771.8	774.4	781.5	789.4	795.6	805.3	812.4	816.8	816.8	817.7
62.5°	712.7	714.5	718.9	724.2	733.0	739.2	747.1	754.1	758.6	760.3	759.4
65°	645.7	647.4	650.1	657.1	664.2	671.2	679.2	685.3	689.8	690.6	689.8
67.5°	571.6	573.3	575.1	583.9	591.0	593.6	603.3	608.6	611.3	612.1	612.1
70°	493.1	493.9	496.6	501.0	508.9	511.6	517.8	522.2	523.9	527.5	524.8
72.5°	411.0	412.8	419.0	419.9	426.0	429.6	431.3	431.3	435.7	435.7	436.6
75°	329.9	330.8	333.4	334.3	338.7	338.7	337.8	339.6	343.1	343.1	344.0
77.5°	249.6	249.6	254.0	250.5	252.3	248.7	250.5	248.7	251.4	250.5	251.4
80°	174.6	174.6	177.3	173.8	174.6	171.1	172.0	171.1	171.1	172.0	172.0
82.5°	107.6	108.5	110.3	107.6	107.6	105.0	105.8	106.7	106.7	105.8	105.0
85°	52.9	52.9	54.7	53.8	52.9	51.2	52.0	52.9	52.9	52.0	52.0
87.5°	14.1	14.1	15.0	15.0	14.1	13.2	14.1	15.0	15.0	15.0	14.1
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°	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7	1101.7
2.5°	1100.8	1100.8	1101.7	1100.8	1101.7	1100.8	1101.7	1101.7
5°	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8
7.5°	1099.0	1099.9	1099.0	1099.0	1099.0	1099.9	1099.0	1099.9
10°	1097.3	1097.3	1097.3	1097.3	1097.3	1097.3	1097.3	1097.3
12.5°	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1093.7
15°	1092.9	1092.0	1092.0	1092.0	1091.1	1091.1	1091.1	1091.1
17.5°	1089.3	1088.4	1087.6	1087.6	1087.6	1087.6	1086.7	1086.7
20°	1083.2	1082.3	1081.4	1081.4	1080.5	1080.5	1079.6	1079.6
22.5°	1074.3	1074.3	1073.4	1072.6	1072.6	1071.7	1071.7	1070.8
25°	1066.4	1065.5	1064.6	1063.7	1062.9	1062.9	1062.0	1061.1
27.5°	1057.6	1055.8	1054.9	1054.0	1053.2	1052.3	1051.4	1050.5
30°	1047.9	1046.1	1044.3	1043.5	1041.7	1039.9	1039.0	1038.2
32.5°	1038.2	1036.4	1033.8	1031.1	1029.3	1027.6	1025.8	1024.9
35°	1030.2	1026.7	1024.1	1020.5	1017.9	1015.2	1014.4	1013.5
37.5°	1024.1	1020.5	1016.1	1012.6	1009.9	1006.4	1004.7	1002.9
40°	1017.9	1013.5	1008.2	1003.8	1000.2	995.8	994.1	992.3
42.5°	1009.1	1003.8	998.5	993.2	987.9	983.5	980.8	979.1
45°	996.7	991.4	985.2	978.2	972.9	967.6	965.0	963.2
47.5°	980.0	974.7	967.6	961.4	955.3	950.0	946.4	944.7
50°	959.7	954.4	947.3	940.3	934.1	927.9	925.3	922.6
52.5°	934.1	929.7	921.7	916.4	909.4	903.2	900.6	898.8
55°	902.3	897.9	890.0	884.7	877.6	872.3	868.8	866.2
57.5°	863.5	860.0	851.2	845.9	838.8	833.5	830.9	829.1
60°	815.9	812.4	803.5	798.3	792.1	785.9	784.1	782.4
62.5°	756.8	755.0	748.0	741.8	735.6	729.5	727.7	726.8
65°	688.0	686.2	680.1	674.8	669.5	664.2	662.4	660.7
67.5°	609.5	608.6	603.3	598.9	595.4	590.1	589.2	587.4
70°	525.7	523.9	519.5	516.0	513.4	508.9	508.1	506.3
72.5°	438.4	437.5	434.8	430.4	430.4	424.3	423.4	422.5
75°	342.2	346.6	343.1	341.4	341.4	337.8	337.8	336.9
77.5°	250.5	254.9	257.6	254.0	257.6	254.0	254.0	253.1
80°	171.1	174.6	177.3	174.6	179.1	176.4	176.4	179.9
82.5°	104.1	107.6	109.4	108.5	111.1	110.3	109.4	112.0
85°	51.2	52.9	53.8	53.8	54.7	52.9	54.7	55.6
87.5°	13.2	14.1	15.0	14.1	15.0	15.0	15.0	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)