

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: P197593

Luminaire Tested: **TT-C4-LED-E1-MQ-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C4-LED-E1-MQ-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4973.2 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 58
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



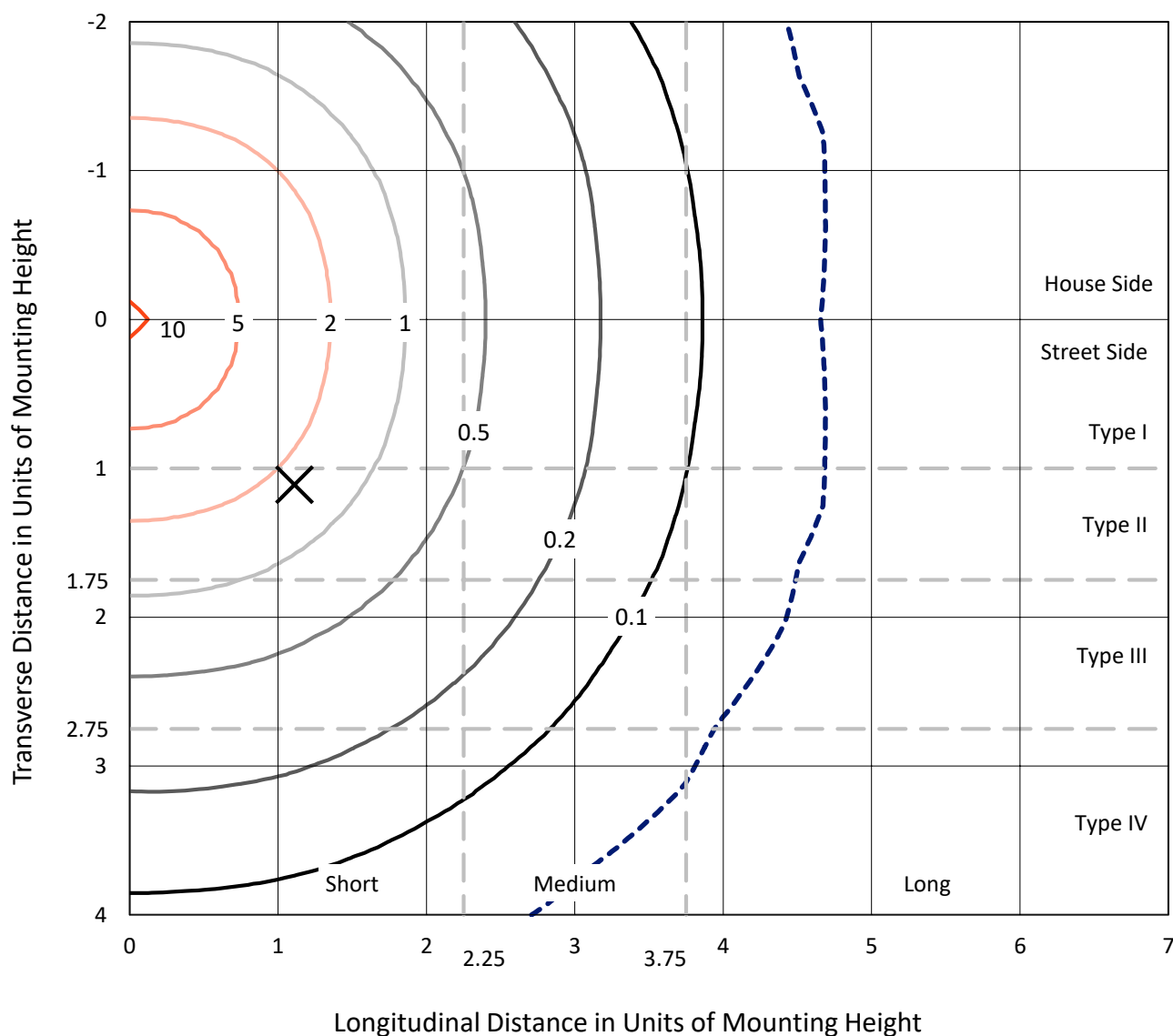
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

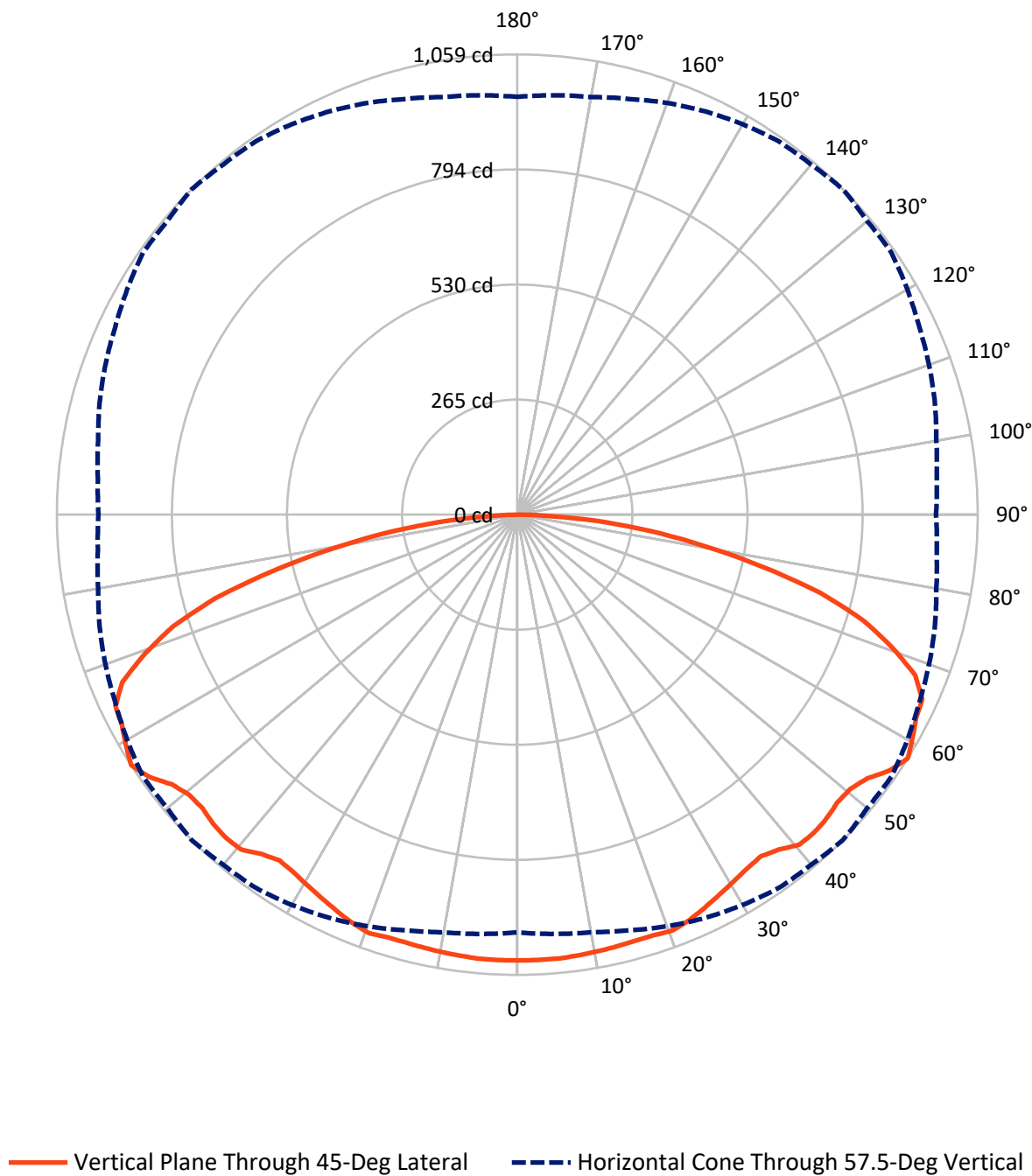


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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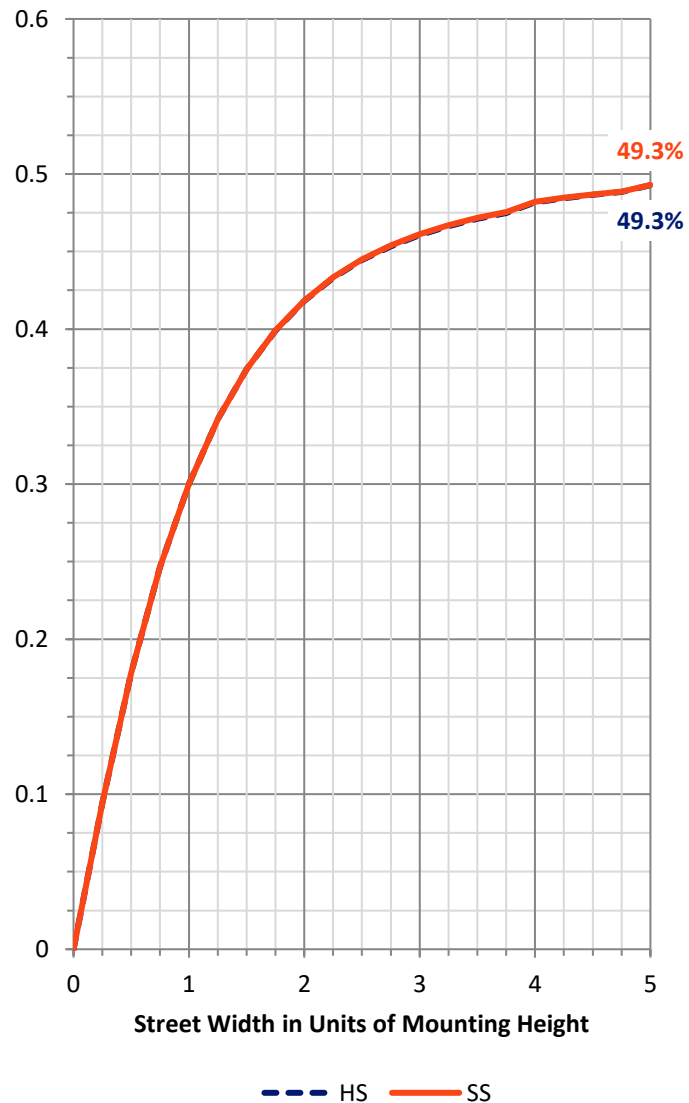
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2486.6	0.0	2486.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2486.6	0.0	2486.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4973.2	0.0	4973.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	2.0
10°-20°	288.3	5.8
20°-30°	461.8	9.3
30°-40°	607.9	12.2
40°-50°	757.2	15.2
50°-60°	892.0	17.9
60°-70°	948.3	19.1
70°-80°	711.1	14.3
80°-90°	208.8	4.2
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°	4973.2	100.0
0°-180°	4973.2	100.0

Coefficient of Utilization



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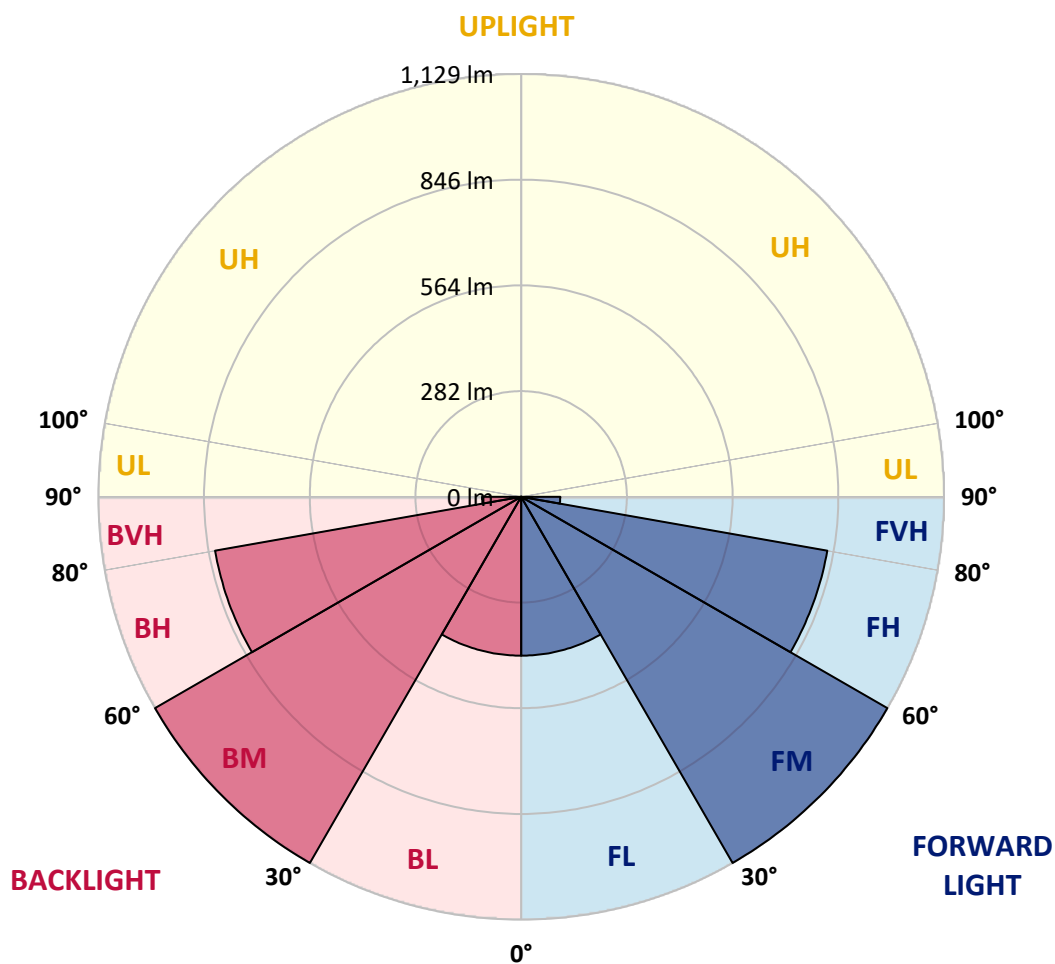
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.9	8.5			
FM	(30°-60°)	1128.6	22.7			
FH	(60°-80°)	829.7	16.7			G1/1800
FVH	(80°-90°)	104.4	2.1			G2/225
BL	(0°-30°)	423.9	8.5	B1/500		
BM	(30°-60°)	1128.6	22.7	B2/2500		
BH	(60°-80°)	829.7	16.7	B2/1000		G1/1800
BVH	(80°-90°)	104.4	2.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9
2.5°	1024.8	1024.8	1024.8	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9
5°	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1025.9	1025.9	1025.9	1025.9	1025.9
7.5°	1022.7	1022.7	1022.7	1022.7	1022.7	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8
10°	1020.6	1020.6	1020.6	1020.6	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7
12.5°	1018.6	1018.6	1017.5	1018.6	1018.6	1018.6	1019.6	1019.6	1019.6	1019.6	1019.6
15°	1014.4	1014.4	1015.4	1015.4	1016.5	1016.5	1016.5	1016.5	1017.5	1017.5	1017.5
17.5°	1012.3	1012.3	1013.4	1014.4	1014.4	1015.4	1016.5	1016.5	1017.5	1017.5	1017.5
20°	1015.4	1015.4	1015.4	1016.5	1017.5	1018.6	1019.6	1020.6	1020.6	1021.7	1020.6
22.5°	1009.2	1009.2	1009.2	1010.2	1010.2	1010.2	1011.3	1012.3	1012.3	1013.4	1012.3
25°	997.7	997.7	998.8	998.8	999.8	999.8	1000.9	1000.9	1000.9	1001.9	1001.9
27.5°	986.3	985.2	987.3	987.3	988.4	988.4	989.4	990.4	990.4	990.4	991.5
30°	973.8	973.8	974.8	974.8	975.9	976.9	977.9	979.0	979.0	980.0	980.0
32.5°	960.2	961.3	962.3	963.4	964.4	966.5	967.5	968.6	969.6	970.7	969.6
35°	950.9	951.9	953.0	955.0	958.2	960.2	962.3	964.4	965.5	965.5	965.5
37.5°	953.0	954.0	956.1	960.2	965.5	968.6	972.7	975.9	976.9	977.9	977.9
40°	964.4	966.5	969.6	974.8	981.1	986.3	992.5	995.7	997.7	998.8	997.7
42.5°	963.4	966.5	969.6	975.9	983.2	988.4	994.6	997.7	999.8	1000.9	999.8
45°	960.2	962.3	965.5	971.7	976.9	984.2	990.4	993.6	996.7	997.7	996.7
47.5°	953.0	953.0	954.0	960.2	967.5	976.9	982.1	987.3	990.4	990.4	990.4
50°	943.6	947.7	949.8	958.2	965.5	973.8	983.2	990.4	991.5	992.5	991.5
52.5°	943.6	944.6	951.9	957.1	971.7	984.2	993.6	1000.9	1007.1	1008.2	1008.2
55°	960.2	962.3	966.5	979.0	990.4	1009.2	1024.8	1031.1	1035.2	1039.4	1035.2
57.5°	961.3	968.6	975.9	990.4	1008.2	1023.8	1037.3	1048.8	1051.9	1059.2	1050.9
60°	948.8	950.9	958.2	975.9	998.8	1015.4	1027.9	1038.4	1048.8	1044.6	1048.8
62.5°	929.0	934.2	944.6	958.2	976.9	996.7	1015.4	1018.6	1034.2	1030.0	1036.3
65°	913.4	917.5	928.0	947.7	970.7	983.2	1004.0	1016.5	1015.4	1023.8	1014.4
67.5°	874.8	878.0	887.3	907.1	929.0	947.7	954.0	973.8	975.9	987.3	976.9
70°	811.3	818.6	832.1	850.9	868.6	884.2	895.7	906.1	912.3	914.4	912.3
72.5°	732.2	743.6	754.0	771.7	789.4	799.9	807.1	821.7	825.9	832.1	830.1
75°	650.9	650.9	661.3	674.9	688.4	694.7	698.8	708.2	713.4	720.7	714.5
77.5°	539.5	545.7	555.1	566.6	564.5	567.6	567.6	572.8	570.7	575.9	580.1
80°	422.8	429.1	437.4	445.8	444.7	437.4	442.6	436.4	434.3	435.3	438.5
82.5°	302.0	306.2	313.5	318.7	318.7	313.5	315.6	309.3	311.4	306.2	310.4
85°	172.9	178.1	183.3	188.5	188.5	185.4	188.5	180.2	181.2	181.2	181.2
87.5°	42.7	46.9	48.9	52.1	50.0	55.2	58.3	53.1	54.2	52.1	55.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9
2.5°	1025.9	1024.8	1025.9	1025.9	1025.9	1025.9	1024.8	1024.8
5°	1025.9	1025.9	1025.9	1024.8	1024.8	1024.8	1024.8	1024.8
7.5°	1023.8	1023.8	1023.8	1022.7	1022.7	1022.7	1022.7	1022.7
10°	1021.7	1021.7	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6
12.5°	1019.6	1019.6	1018.6	1018.6	1018.6	1018.6	1018.6	1017.5
15°	1017.5	1017.5	1016.5	1016.5	1015.4	1015.4	1014.4	1014.4
17.5°	1017.5	1016.5	1015.4	1014.4	1014.4	1013.4	1012.3	1012.3
20°	1020.6	1019.6	1018.6	1017.5	1016.5	1015.4	1015.4	1014.4
22.5°	1012.3	1011.3	1010.2	1010.2	1009.2	1009.2	1009.2	1008.2
25°	1001.9	1000.9	1000.9	998.8	998.8	997.7	997.7	996.7
27.5°	990.4	989.4	989.4	988.4	987.3	986.3	985.2	985.2
30°	979.0	977.9	977.9	976.9	974.8	974.8	973.8	972.7
32.5°	968.6	968.6	967.5	965.5	963.4	962.3	960.2	960.2
35°	965.5	963.4	961.3	958.2	955.0	953.0	951.9	950.9
37.5°	976.9	973.8	968.6	965.5	961.3	957.1	955.0	953.0
40°	996.7	991.5	986.3	981.1	974.8	969.6	965.5	964.4
42.5°	997.7	994.6	989.4	983.2	975.9	969.6	965.5	964.4
45°	994.6	990.4	984.2	976.9	971.7	964.4	961.3	960.2
47.5°	987.3	983.2	976.9	966.5	959.2	954.0	953.0	953.0
50°	991.5	983.2	972.7	966.5	959.2	950.9	947.7	945.7
52.5°	1000.9	992.5	986.3	972.7	957.1	949.8	945.7	942.5
55°	1031.1	1026.9	1008.2	989.4	977.9	968.6	964.4	962.3
57.5°	1050.9	1036.3	1020.6	1008.2	994.6	979.0	968.6	963.4
60°	1040.4	1024.8	1017.5	1000.9	972.7	956.1	949.8	946.7
62.5°	1017.5	1017.5	997.7	971.7	961.3	946.7	935.2	931.1
65°	1016.5	1002.9	983.2	973.8	948.8	926.9	915.5	913.4
67.5°	972.7	954.0	948.8	928.0	907.1	887.3	879.0	874.8
70°	906.1	899.8	884.2	870.7	851.9	831.1	819.6	815.5
72.5°	821.7	811.3	804.0	792.6	774.9	748.8	739.5	734.2
75°	707.2	702.0	702.0	689.5	672.8	657.2	656.1	654.0
77.5°	568.6	570.7	575.9	562.4	567.6	559.3	552.0	546.8
80°	432.2	441.6	442.6	445.8	448.9	437.4	432.2	426.0
82.5°	307.2	312.4	318.7	319.7	321.8	313.5	309.3	303.1
85°	181.2	184.3	189.5	189.5	189.5	182.3	180.2	175.0
87.5°	53.1	53.1	56.2	53.1	53.1	53.1	47.9	51.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)