

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: P197711

Luminaire Tested: **TT-C3-LED-E1-MQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-MQ-CG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5262.9 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 45
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

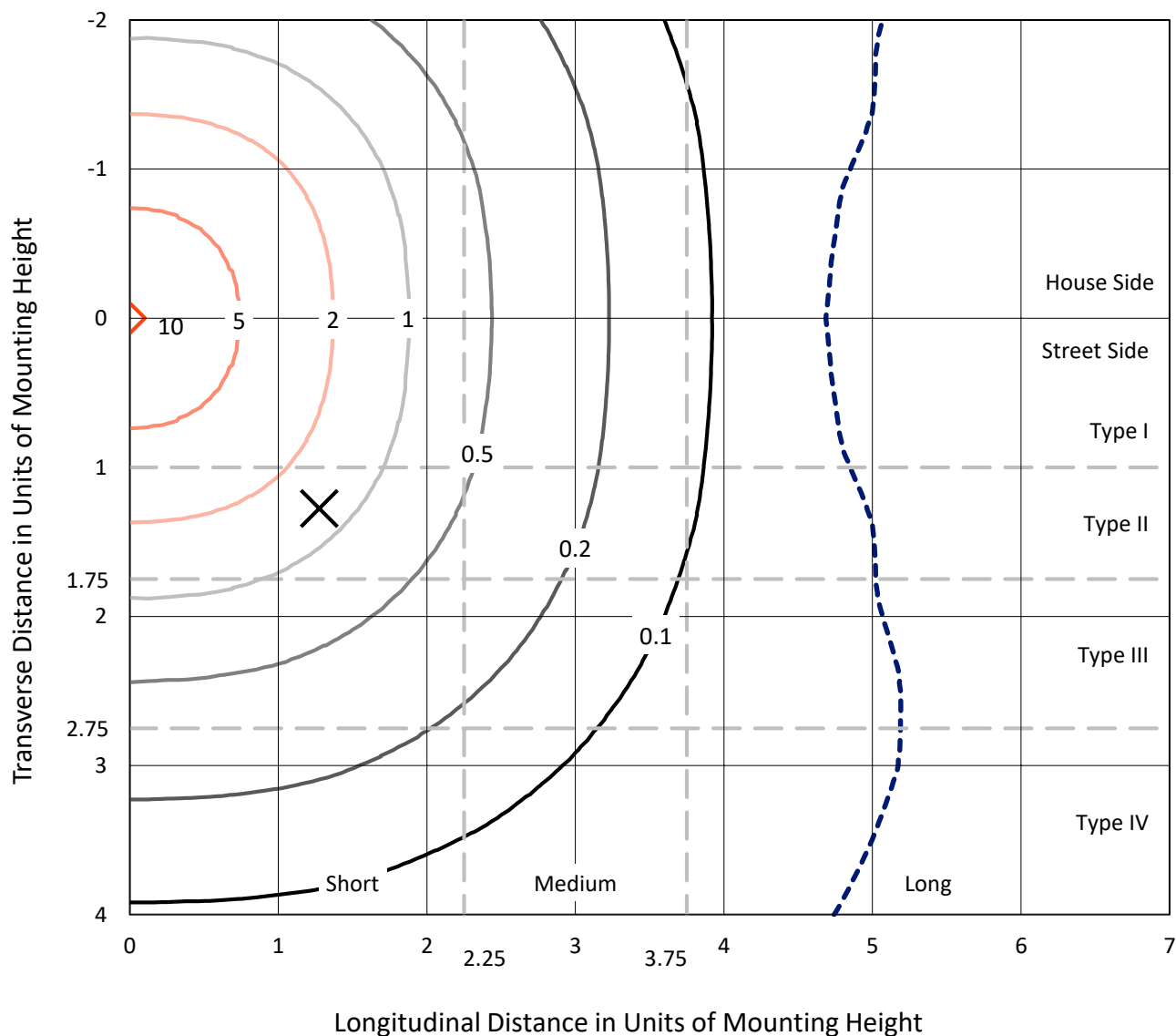


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

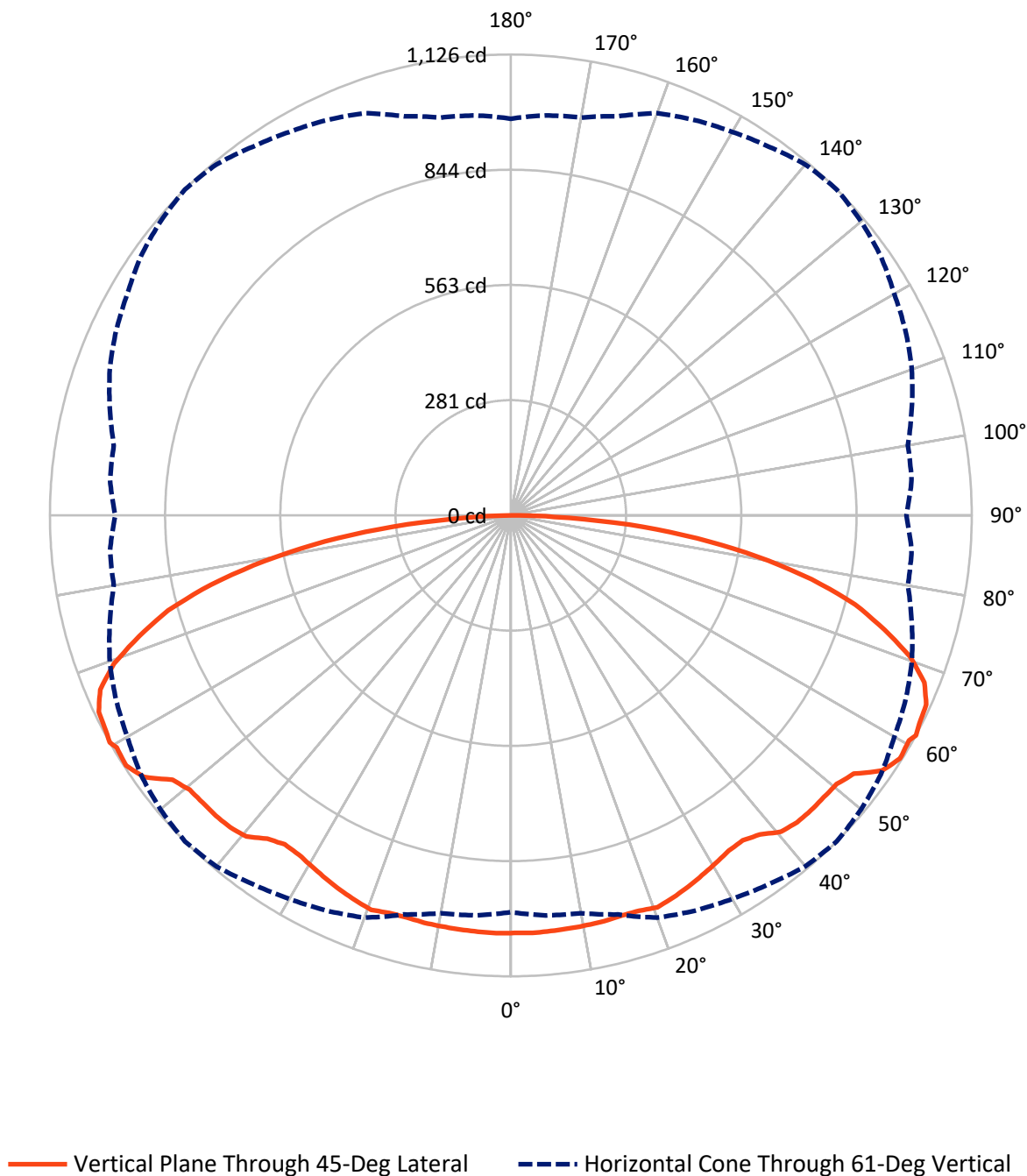


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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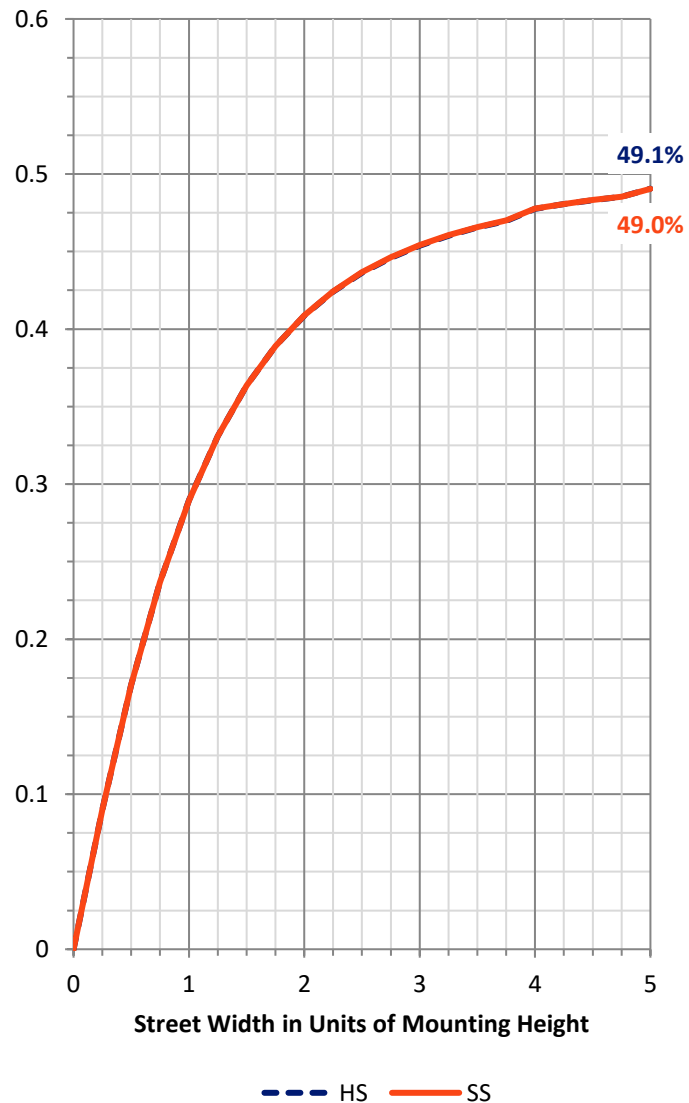
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2631.4	0.0	2631.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2631.4	0.0	2631.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5262.9	0.0	5262.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.8
10°-20°	287.6	5.5
20°-30°	462.7	8.8
30°-40°	613.0	11.6
40°-50°	774.1	14.7
50°-60°	927.5	17.6
60°-70°	1014.2	19.3
70°-80°	811.9	15.4
80°-90°	274.7	5.2
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°	5262.9	100.0
0°-180°	5262.9	100.0

Coefficient of Utilization



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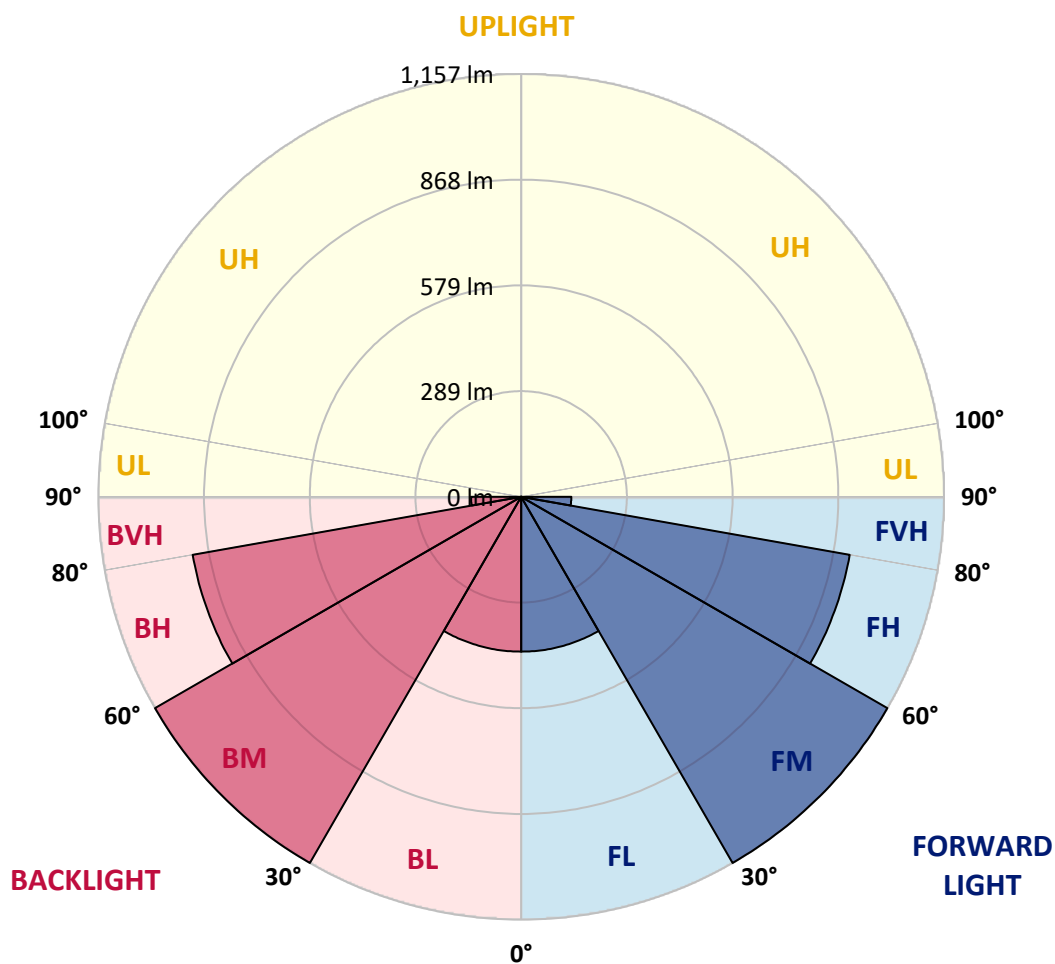
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.8	8.1			
FM	(30°-60°)	1157.3	22.0			
FH	(60°-80°)	913.0	17.3			G1/1800
FVH	(80°-90°)	137.3	2.6			G2/225
BL	(0°-30°)	423.8	8.1	B1/500		
BM	(30°-60°)	1157.3	22.0	B2/2500		
BH	(60°-80°)	913.0	17.3	B2/1000		G1/1800
BVH	(80°-90°)	137.3	2.6			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°	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6
2.5°	1020.6	1019.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6
5°	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6
7.5°	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1019.6	1018.6	1019.6
10°	1016.7	1016.7	1016.7	1016.7	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6	1017.6
12.5°	1014.8	1014.8	1014.8	1014.8	1015.8	1015.8	1015.8	1015.8	1016.7	1016.7	1015.8
15°	1012.8	1011.8	1011.8	1012.8	1012.8	1013.8	1013.8	1013.8	1014.8	1013.8	1013.8
17.5°	1010.8	1009.8	1010.8	1011.8	1011.8	1012.8	1013.8	1013.8	1014.8	1014.8	1014.8
20°	1013.8	1012.8	1013.8	1014.8	1015.8	1017.6	1018.6	1019.6	1020.6	1021.6	1021.6
22.5°	1007.9	1006.9	1007.9	1007.9	1008.9	1009.8	1011.8	1012.8	1013.8	1013.8	1013.8
25°	999.1	999.1	1000.1	1000.1	1001.1	1001.9	1002.9	1003.9	1003.9	1004.9	1003.9
27.5°	989.2	989.2	990.2	990.2	992.2	992.2	993.2	994.1	995.1	995.1	995.1
30°	977.5	977.5	978.4	979.4	981.4	982.4	983.4	984.4	985.4	985.4	985.4
32.5°	966.7	965.7	966.7	968.7	971.6	973.6	975.5	976.5	976.5	976.5	977.5
35°	957.9	958.9	960.9	962.7	966.7	968.7	970.6	973.6	974.6	974.6	974.6
37.5°	959.9	960.9	963.7	967.7	972.6	978.4	982.4	986.3	989.2	988.3	987.3
40°	972.6	974.6	979.4	985.4	993.2	1001.1	1006.9	1011.8	1014.8	1015.8	1014.8
42.5°	974.6	976.5	980.4	989.2	998.1	1006.9	1014.8	1019.6	1023.6	1024.6	1023.6
45°	973.6	973.6	979.4	989.2	998.1	1006.9	1016.7	1023.6	1027.5	1027.5	1027.5
47.5°	966.7	969.7	973.6	983.4	995.1	1003.9	1013.8	1020.6	1025.5	1028.5	1025.5
50°	966.7	966.7	973.6	980.4	991.2	1006.9	1020.6	1027.5	1032.4	1031.4	1032.4
52.5°	964.7	970.6	974.6	984.4	1003.9	1019.6	1030.4	1040.3	1047.1	1048.1	1046.1
55°	982.4	983.4	992.2	1010.8	1029.5	1047.1	1066.7	1081.4	1093.2	1100.0	1090.2
57.5°	996.1	991.2	1008.9	1024.6	1046.1	1072.6	1102.0	1113.7	1122.6	1120.6	1123.6
60°	977.5	984.4	997.1	1013.8	1048.1	1074.5	1090.2	1103.0	1113.7	1116.7	1112.7
61°	968.7	980.4	986.3	1008.9	1045.1	1064.8	1081.4	1099.0	1118.7	1125.5	1116.7
62.5°	954.0	972.6	970.6	1006.9	1029.5	1052.0	1083.4	1104.0	1117.7	1119.7	1117.7
65°	954.9	952.0	974.6	1001.1	1023.6	1063.8	1090.2	1103.0	1110.9	1114.7	1112.7
67.5°	923.5	913.8	941.2	959.9	998.1	1029.5	1055.0	1073.5	1085.3	1089.2	1084.3
70°	851.1	857.9	877.5	906.0	937.3	975.5	999.1	1023.6	1033.3	1034.3	1034.3
72.5°	781.4	785.3	804.9	831.4	867.6	901.0	924.5	944.2	953.0	954.0	955.9
75°	689.2	693.1	715.8	740.3	776.5	804.9	821.6	845.1	857.9	868.6	859.8
77.5°	582.3	589.3	606.8	633.4	666.7	682.4	711.8	739.3	748.1	751.0	748.1
80°	461.8	470.7	486.3	521.6	536.3	561.8	590.2	602.0	609.8	611.8	612.8
82.5°	332.4	339.2	355.9	380.4	397.1	417.6	437.3	452.0	460.8	458.8	457.8
85°	196.1	198.0	215.7	232.4	245.1	257.8	273.5	284.3	286.3	290.2	289.2
87.5°	58.9	59.8	67.6	76.4	82.4	88.3	98.1	110.8	113.8	105.9	106.9
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°	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6
2.5°	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1019.6	1020.6
5°	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6
7.5°	1019.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6
10°	1017.6	1017.6	1017.6	1017.6	1016.7	1016.7	1016.7	1016.7
12.5°	1015.8	1015.8	1015.8	1015.8	1014.8	1014.8	1014.8	1014.8
15°	1013.8	1013.8	1013.8	1013.8	1012.8	1012.8	1012.8	1012.8
17.5°	1014.8	1013.8	1012.8	1012.8	1011.8	1010.8	1010.8	1010.8
20°	1020.6	1019.6	1017.6	1015.8	1014.8	1013.8	1013.8	1013.8
22.5°	1012.8	1011.8	1009.8	1008.9	1008.9	1007.9	1006.9	1006.9
25°	1003.9	1001.9	1001.9	1001.1	1001.1	999.1	999.1	998.1
27.5°	994.1	993.2	992.2	991.2	991.2	990.2	989.2	988.3
30°	985.4	983.4	981.4	980.4	979.4	978.4	978.4	978.4
32.5°	976.5	974.6	973.6	970.6	968.7	967.7	966.7	966.7
35°	973.6	970.6	968.7	965.7	962.7	960.9	959.9	957.9
37.5°	985.4	981.4	978.4	973.6	966.7	963.7	960.9	959.9
40°	1010.8	1006.9	1001.1	993.2	985.4	979.4	974.6	972.6
42.5°	1019.6	1014.8	1006.9	999.1	989.2	980.4	976.5	974.6
45°	1022.6	1017.6	1006.9	997.1	988.3	980.4	974.6	972.6
47.5°	1019.6	1012.8	1002.9	995.1	982.4	972.6	968.7	965.7
50°	1026.5	1020.6	1007.9	990.2	979.4	973.6	966.7	965.7
52.5°	1040.3	1029.5	1017.6	1004.9	984.4	972.6	968.7	963.7
55°	1081.4	1066.7	1046.1	1025.5	1012.8	994.1	982.4	982.4
57.5°	1112.7	1101.0	1074.5	1047.1	1023.6	1009.8	992.2	993.2
60°	1104.0	1088.3	1075.5	1048.1	1014.8	996.1	989.2	976.5
61°	1103.0	1081.4	1063.8	1042.2	1013.8	984.4	982.4	965.7
62.5°	1104.9	1085.3	1052.0	1029.5	1007.9	969.7	968.7	953.0
65°	1103.0	1084.3	1067.7	1025.5	996.1	980.4	947.1	959.9
67.5°	1072.6	1056.0	1025.5	1001.9	956.9	937.3	918.7	918.7
70°	1024.6	1000.1	970.6	941.2	910.8	877.5	860.8	851.1
72.5°	944.2	923.5	900.0	868.6	831.4	801.0	785.3	778.5
75°	843.2	820.6	800.0	776.5	737.3	711.8	695.1	690.2
77.5°	737.3	717.6	681.4	658.9	632.4	603.0	588.3	582.3
80°	602.0	591.2	565.8	529.4	516.7	480.4	470.7	461.8
82.5°	452.0	440.2	416.6	391.2	375.6	354.9	337.2	335.3
85°	284.3	276.5	261.8	243.1	223.6	211.7	196.1	200.0
87.5°	105.9	101.0	92.1	80.4	71.6	63.7	55.9	58.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)