

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: P198051

Luminaire Tested: **TT-C4-LED-E1-RW-CG-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34696)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-RW-CG-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5364.2 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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

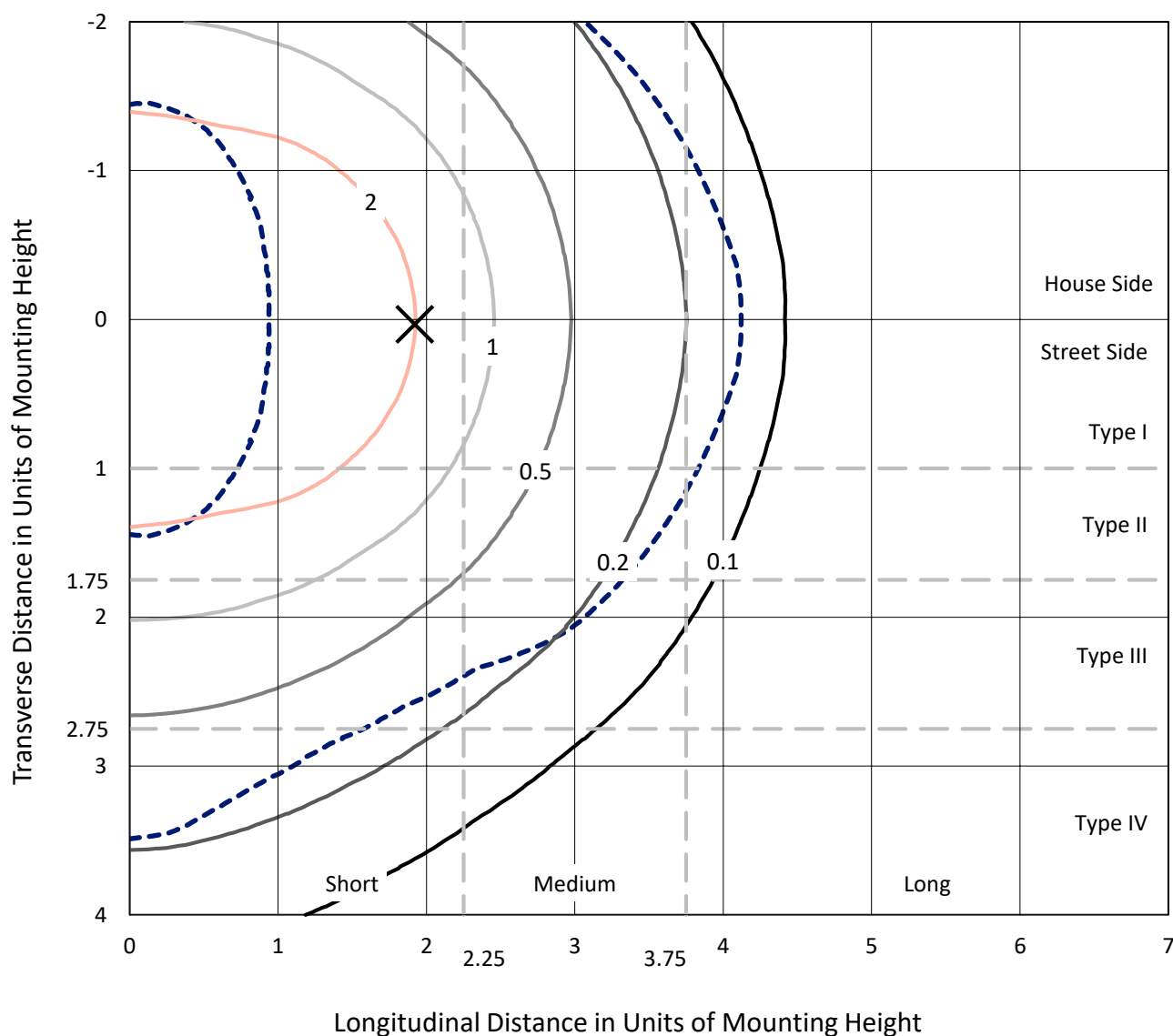


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

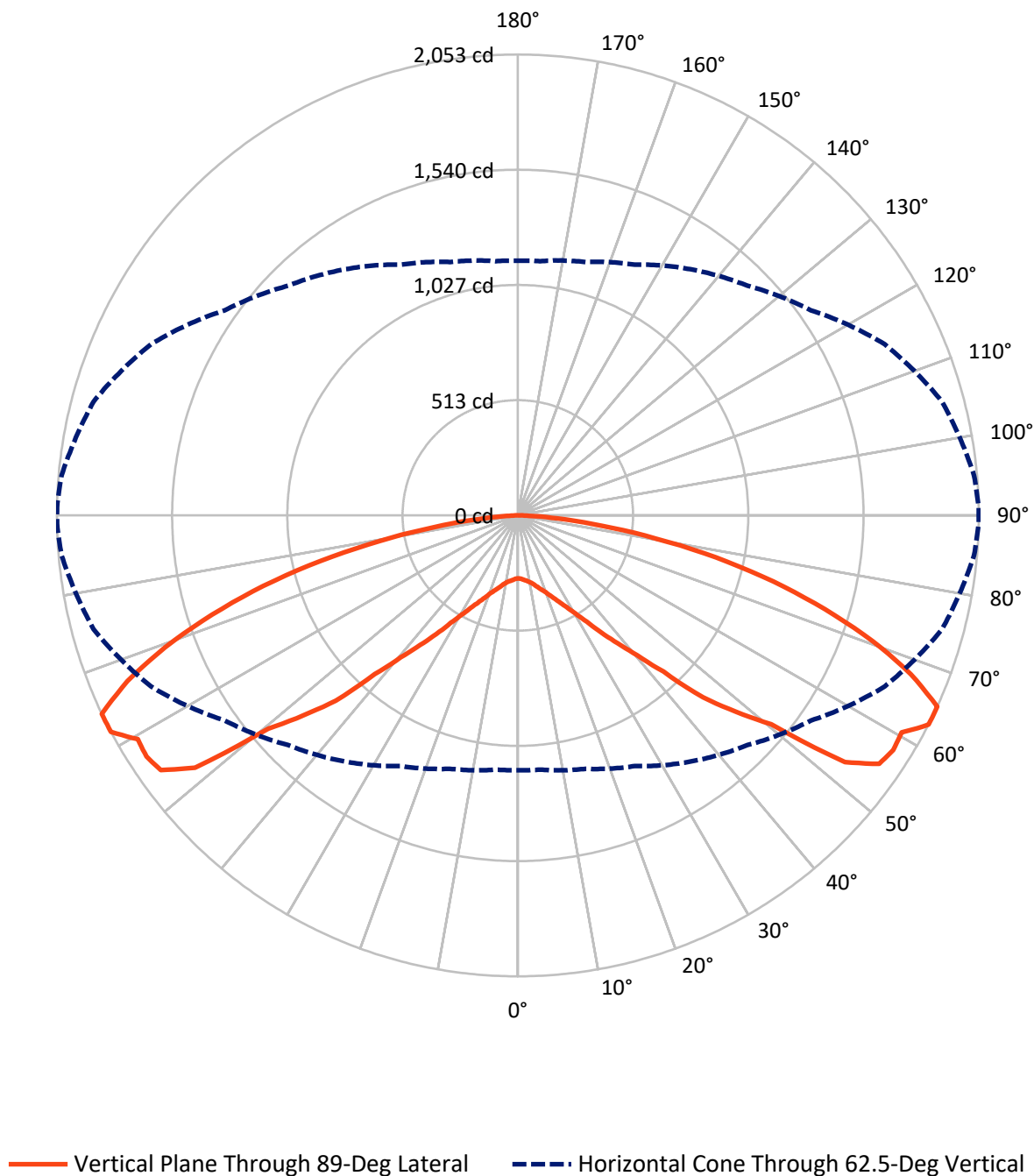


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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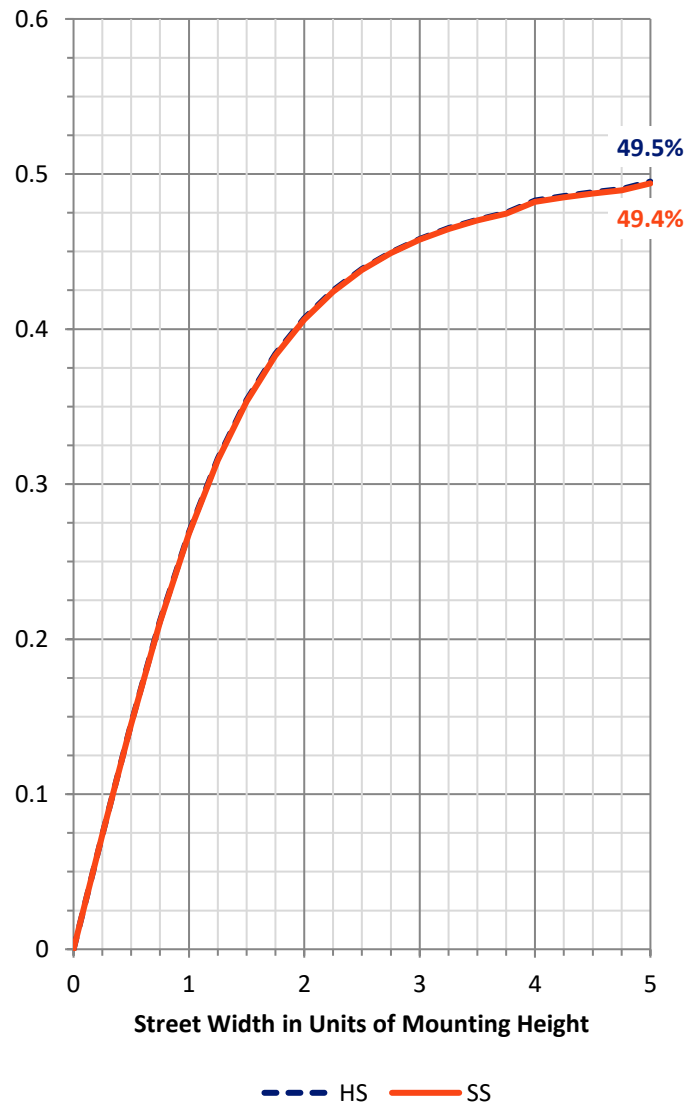
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2682.1	0.0	2682.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2682.1	0.0	2682.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5364.2	0.0	5364.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	0.5
10°-20°	95.5	1.8
20°-30°	203.0	3.8
30°-40°	390.2	7.3
40°-50°	722.3	13.5
50°-60°	1220.2	22.7
60°-70°	1473.8	27.5
70°-80°	1014.7	18.9
80°-90°	216.5	4.0
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°	5364.2	100.0
0°-180°	5364.2	100.0

Coefficient of Utilization



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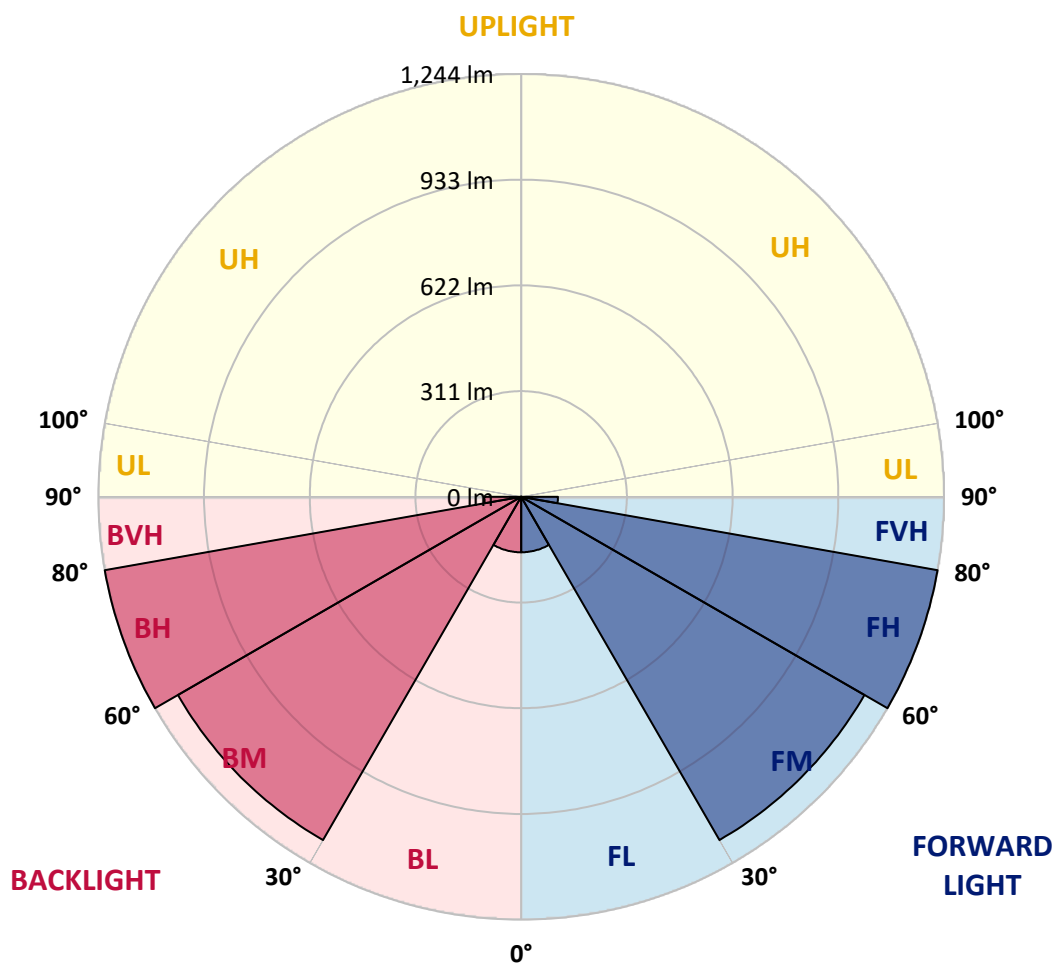
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.3	3.0			
FM	(30°-60°)	1166.4	21.7			
FH	(60°-80°)	1244.2	23.2			G1/1800
FVH	(80°-90°)	108.2	2.0			G2/225
BL	(0°-30°)	163.3	3.0	B1/500		
BM	(30°-60°)	1166.4	21.7	B2/2500		
BH	(60°-80°)	1244.2	23.2	B3/2500		G3/2500
BVH	(80°-90°)	108.2	2.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4
2.5°	282.7	282.7	282.7	282.7	283.9	283.9	283.9	283.9	283.9	283.9	282.7
5°	287.4	286.3	287.4	288.6	288.6	289.8	289.8	289.8	289.8	288.6	288.6
7.5°	293.3	293.3	294.5	295.6	296.8	295.6	295.6	294.5	294.5	294.5	294.5
10°	303.9	302.7	303.9	305.0	303.9	303.9	303.9	303.9	303.9	303.9	302.7
12.5°	315.6	315.6	315.6	315.6	314.4	315.6	314.4	315.6	315.6	315.6	314.4
15°	332.0	332.0	332.0	330.8	329.7	329.7	329.7	329.7	329.7	329.7	330.8
17.5°	354.3	353.1	352.0	349.6	348.4	347.3	347.3	347.3	348.4	348.4	348.4
20°	380.1	377.8	375.4	374.3	373.1	370.7	369.6	370.7	371.9	371.9	368.4
22.5°	411.8	408.3	404.8	403.6	398.9	397.7	396.5	395.4	395.4	396.5	395.4
25°	441.1	442.3	438.8	432.9	431.7	429.4	425.9	427.0	425.9	427.0	425.9
27.5°	477.5	479.8	476.3	470.5	466.9	463.4	461.1	461.1	462.2	465.8	462.2
30°	518.6	519.7	516.2	511.5	505.7	501.0	499.8	505.7	505.7	510.3	508.0
32.5°	562.0	560.8	556.1	554.9	547.9	547.9	549.1	553.8	562.0	565.5	564.3
35°	614.8	607.7	606.5	601.9	596.0	596.0	603.0	614.8	630.0	639.4	640.6
37.5°	662.9	660.5	659.3	652.3	648.8	655.8	669.9	691.0	703.9	722.7	722.7
40°	712.1	718.0	712.1	705.1	708.6	719.2	742.6	769.6	799.0	818.9	818.9
42.5°	760.2	770.8	764.9	759.1	768.4	793.1	822.4	868.2	926.8	952.6	951.5
45°	811.9	820.1	814.2	815.4	835.3	865.8	922.1	1020.7	1102.8	1155.6	1156.8
47.5°	868.2	869.3	865.8	871.7	901.0	959.7	1035.9	1156.8	1237.7	1301.1	1305.8
50°	924.5	918.6	917.4	931.5	984.3	1058.2	1167.3	1284.7	1412.5	1459.5	1463.0
52.5°	974.9	967.9	972.6	996.1	1065.3	1156.8	1292.9	1492.3	1677.7	1816.1	1825.5
55°	1023.0	1014.8	1026.6	1064.1	1155.6	1278.8	1448.9	1697.6	1854.8	1945.2	1953.4
57.5°	1064.1	1061.8	1080.5	1127.5	1240.1	1390.2	1576.8	1779.8	1895.9	1963.9	1972.2
60°	1105.2	1105.2	1129.8	1190.8	1316.3	1453.6	1601.4	1778.6	1898.2	1955.7	1963.9
62.5°	1134.5	1136.8	1168.5	1231.9	1338.6	1446.6	1593.2	1803.2	1956.9	2040.2	2053.1
65°	1150.9	1155.6	1189.6	1231.9	1329.2	1439.5	1646.0	1823.2	1949.9	2037.9	2053.1
67.5°	1153.3	1162.6	1179.1	1210.7	1292.9	1386.7	1561.5	1705.8	1811.4	1878.3	1888.9
70°	1142.7	1139.2	1138.0	1146.2	1187.3	1255.3	1409.0	1522.8	1627.2	1669.5	1677.7
72.5°	1089.9	1088.7	1047.7	1021.9	1032.4	1079.3	1215.4	1303.4	1371.5	1425.4	1431.3
75°	984.3	974.9	906.9	854.1	843.5	885.8	987.8	1052.4	1113.4	1163.8	1176.7
77.5°	821.2	797.8	728.6	666.4	646.4	678.1	754.4	799.0	843.5	902.2	902.2
80°	596.0	584.3	524.4	474.0	454.0	472.8	526.8	545.5	569.0	621.8	623.0
82.5°	384.8	371.9	332.0	300.3	282.7	294.5	316.8	325.0	344.9	376.6	375.4
85°	187.7	187.7	167.8	150.2	133.7	136.1	150.2	154.9	171.3	179.5	177.2
87.5°	46.9	51.6	45.8	42.2	37.5	37.5	42.2	42.2	51.6	51.6	49.3
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):

	90°
0°	280.4
2.5°	282.7
5°	288.6
7.5°	294.5
10°	302.7
12.5°	315.6
15°	329.7
17.5°	349.6
20°	371.9
22.5°	395.4
25°	425.9
27.5°	465.8
30°	510.3
32.5°	563.1
35°	635.9
37.5°	722.7
40°	820.1
42.5°	952.6
45°	1159.1
47.5°	1301.1
50°	1459.5
52.5°	1819.6
55°	1952.2
57.5°	1973.3
60°	1966.3
62.5°	2053.1
65°	2050.8
67.5°	1886.5
70°	1681.2
72.5°	1440.7
75°	1181.4
77.5°	896.3
80°	647.6
82.5°	377.8
85°	179.5
87.5°	54.0
90°	0.0

(END OF REPORT)