

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: P198079

Luminaire Tested: **TT-C5-LED-E1-RW-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34695)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C5-LED-E1-RW-CG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7432.2 lumens
Efficiency: N/A
Efficacy: 96.5 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): 77
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



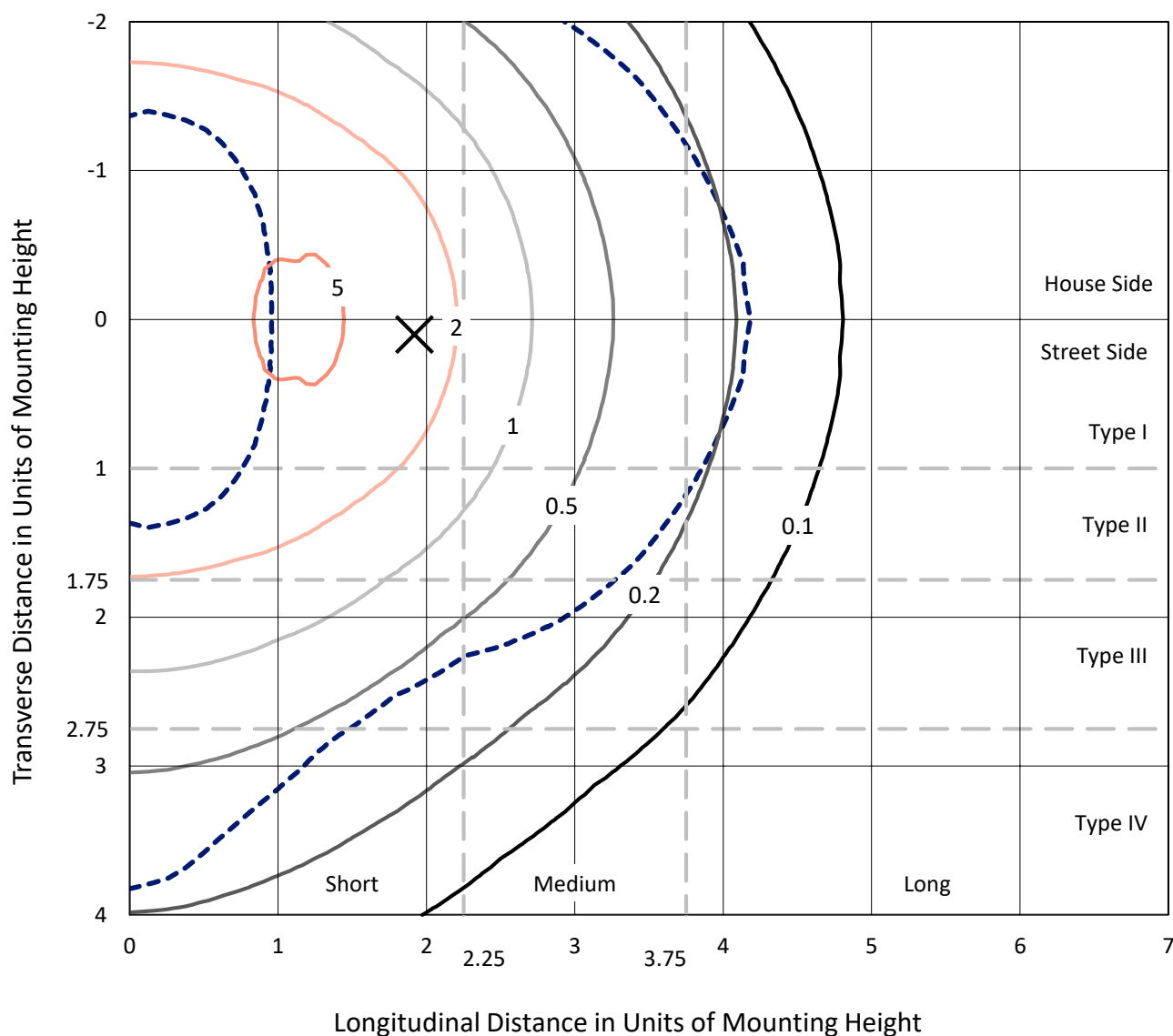
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

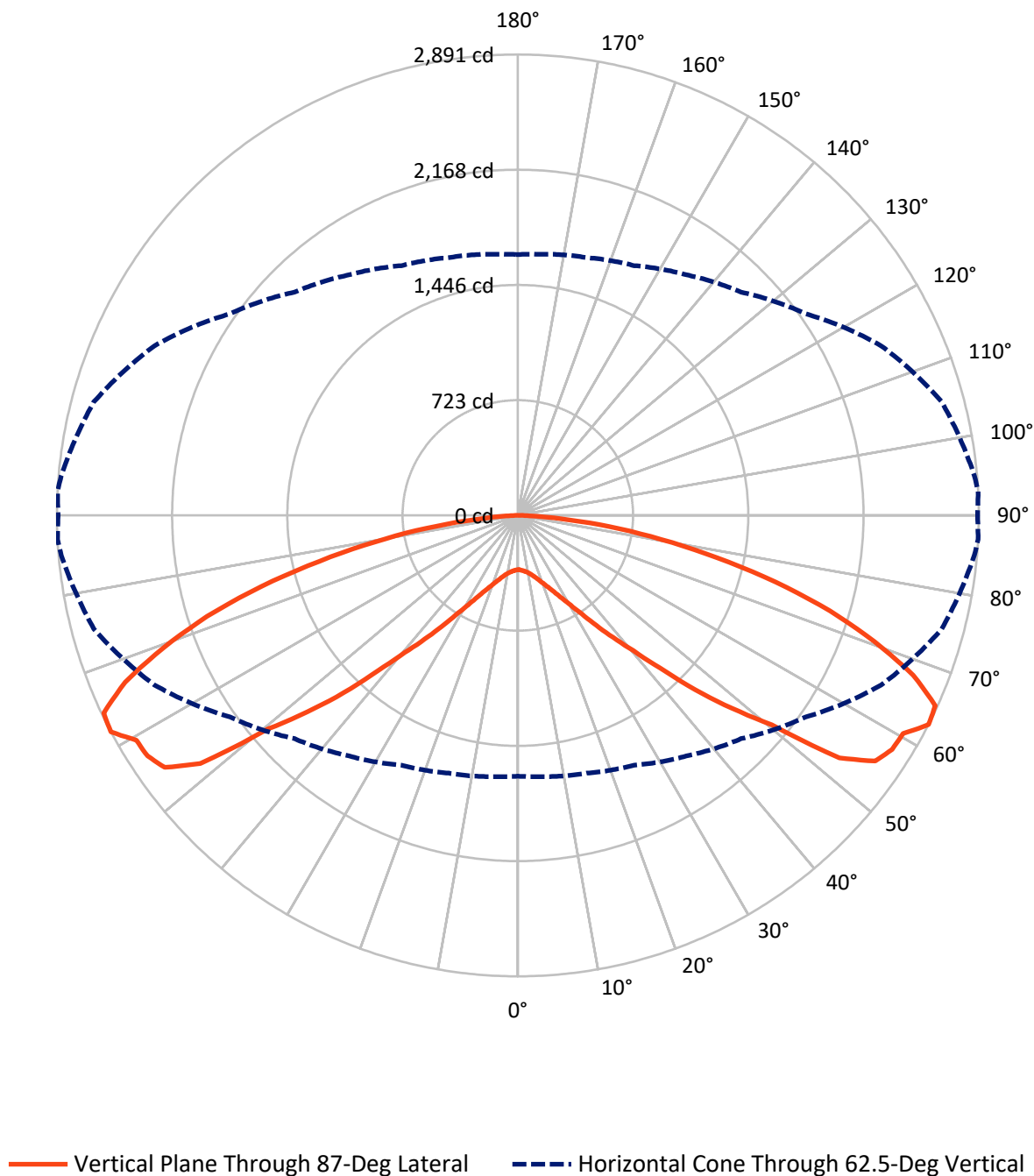


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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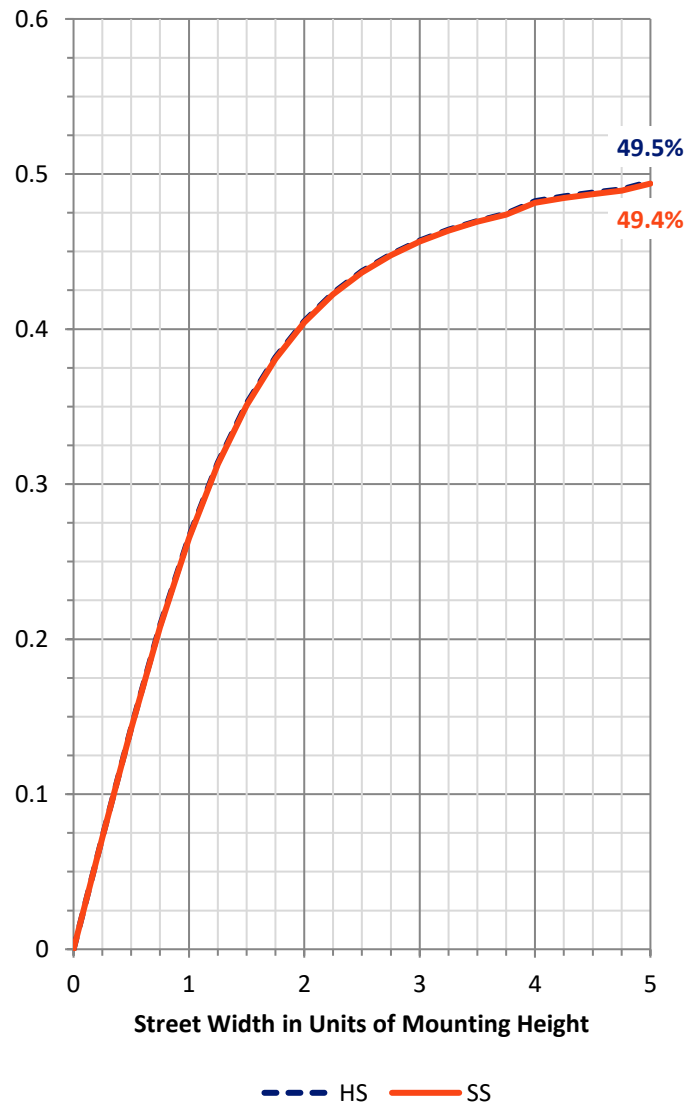
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3716.1	0.0	3716.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3716.1	0.0	3716.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7432.2	0.0	7432.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	0.5
10°-20°	117.4	1.6
20°-30°	259.0	3.5
30°-40°	521.6	7.0
40°-50°	995.0	13.4
50°-60°	1703.7	22.9
60°-70°	2064.0	27.8
70°-80°	1430.1	19.2
80°-90°	307.4	4.1
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°	7432.2	100.0
0°-180°	7432.2	100.0

Coefficient of Utilization



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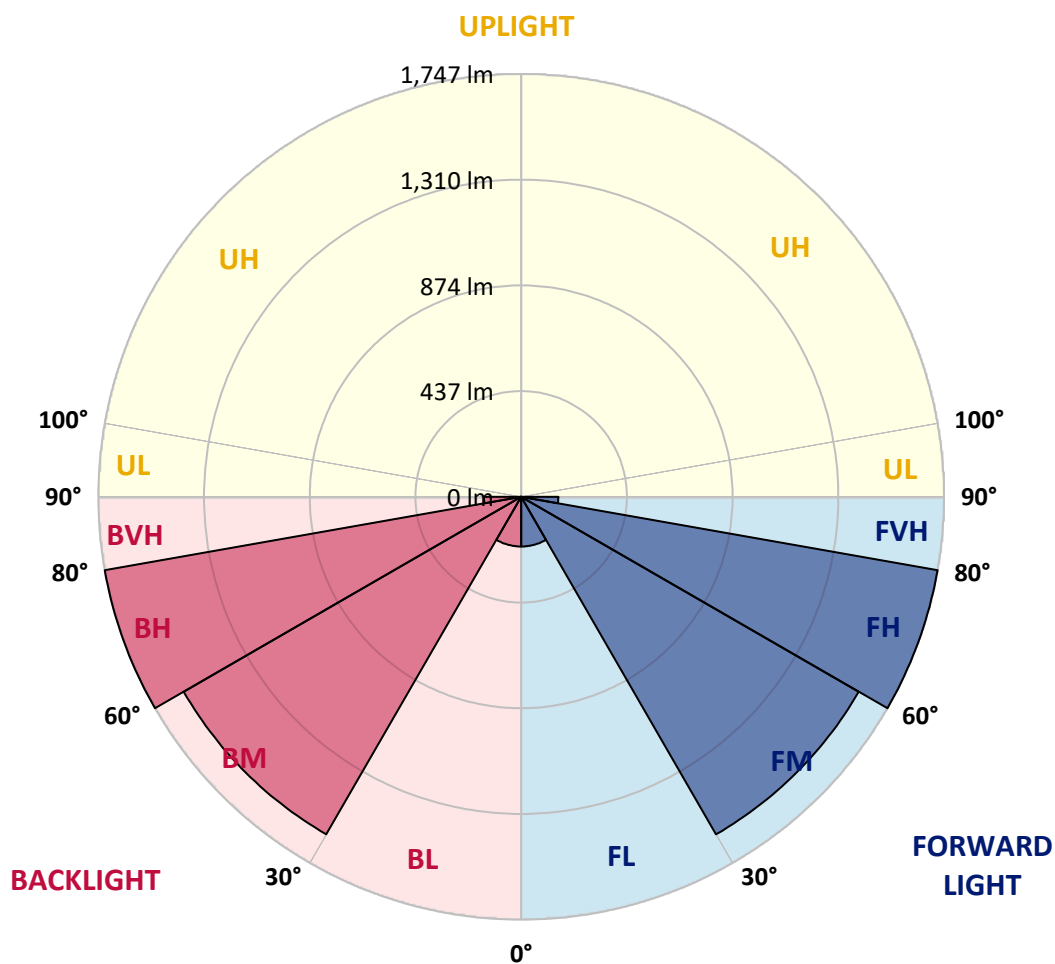
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.2	2.8			
FM	(30°-60°)	1610.2	21.7			
FH	(60°-80°)	1747.0	23.5			G1/1800
FVH	(80°-90°)	153.7	2.1			G2/225
BL	(0°-30°)	205.2	2.8	B1/500		
BM	(30°-60°)	1610.2	21.7	B2/2500		
BH	(60°-80°)	1747.0	23.5	B3/2500		G3/2500
BVH	(80°-90°)	153.7	2.1			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°	87°
0°	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
2.5°	342.0	342.0	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5
5°	348.1	348.1	348.1	349.6	349.6	349.6	349.6	349.6	348.1	348.1	348.1
7.5°	357.2	357.2	357.2	358.7	358.7	358.7	357.2	357.2	355.7	355.7	355.7
10°	369.4	369.4	370.9	370.9	369.4	369.4	367.8	366.3	367.8	366.3	366.3
12.5°	386.1	389.1	387.6	387.6	384.6	384.6	383.0	383.0	383.0	381.5	381.5
15°	410.4	410.4	411.9	408.9	408.9	404.3	402.8	401.3	402.8	402.8	401.3
17.5°	439.3	439.3	439.3	434.7	431.7	428.6	427.1	425.6	424.1	425.6	425.6
20°	483.4	480.3	474.2	471.2	463.6	460.6	457.5	456.0	454.5	454.5	454.5
22.5°	529.0	525.9	518.3	512.2	506.2	498.6	495.5	489.4	487.9	491.0	489.4
25°	573.0	577.6	568.5	560.9	556.3	544.2	536.6	535.0	532.0	530.5	532.0
27.5°	627.8	630.8	623.2	612.6	603.4	594.3	586.7	583.7	585.2	585.2	586.7
30°	688.6	694.6	682.5	676.4	662.7	650.6	644.5	647.5	650.6	655.1	653.6
32.5°	758.5	758.5	752.4	741.7	726.5	715.9	712.9	717.4	731.1	737.2	735.7
35°	840.5	834.5	828.4	814.7	794.9	788.9	794.9	810.1	829.9	840.5	846.6
37.5°	925.7	913.5	904.4	889.2	880.1	877.0	890.7	919.6	940.9	960.6	969.7
40°	998.6	998.6	986.5	969.7	960.6	974.3	995.6	1036.6	1077.7	1098.9	1114.1
42.5°	1071.6	1080.7	1067.0	1053.3	1053.3	1071.6	1112.6	1176.5	1254.0	1299.6	1307.2
45°	1147.6	1164.3	1146.1	1136.9	1146.1	1182.5	1260.1	1383.2	1498.7	1573.2	1561.0
47.5°	1226.6	1241.8	1225.1	1220.5	1241.8	1307.2	1425.7	1583.8	1699.3	1776.9	1807.3
50°	1323.9	1313.3	1307.2	1305.7	1349.7	1447.0	1600.5	1770.8	1956.2	2026.1	2064.1
52.5°	1406.0	1387.7	1384.7	1395.3	1468.3	1585.3	1776.9	2090.0	2346.8	2520.1	2526.2
55°	1477.4	1457.7	1468.3	1494.1	1592.9	1755.6	1997.3	2363.6	2580.9	2710.1	2720.8
57.5°	1538.2	1527.6	1545.8	1580.8	1708.5	1903.0	2173.6	2476.0	2655.4	2758.8	2769.4
60°	1592.9	1591.4	1611.2	1670.5	1813.3	1989.7	2213.1	2483.6	2670.6	2763.3	2777.0
62.5°	1635.5	1644.6	1673.5	1728.2	1842.2	1980.5	2204.0	2515.6	2752.7	2874.3	2891.0
65°	1672.0	1681.1	1710.0	1728.2	1830.1	1962.3	2254.1	2536.8	2740.5	2866.7	2877.3
67.5°	1691.7	1702.4	1697.8	1700.9	1779.9	1883.3	2135.6	2378.8	2546.0	2661.5	2675.2
70°	1688.7	1679.6	1643.1	1605.1	1621.8	1694.8	1922.8	2126.4	2278.4	2369.6	2374.2
72.5°	1624.9	1609.7	1523.0	1434.9	1409.0	1457.7	1656.8	1810.3	1939.5	2023.1	2048.9
75°	1480.5	1450.1	1323.9	1209.9	1152.1	1188.6	1342.1	1475.9	1571.7	1653.7	1670.5
77.5°	1217.5	1199.3	1073.1	948.5	884.6	908.9	1030.5	1109.6	1212.9	1298.1	1276.8
80°	886.1	883.1	781.3	670.3	624.7	635.4	700.7	778.2	843.6	907.4	910.5
82.5°	579.1	570.0	501.6	421.0	373.9	380.0	421.0	462.1	524.4	565.4	577.6
85°	287.3	282.7	252.3	202.2	176.3	176.3	196.1	220.4	250.8	269.0	267.5
87.5°	79.0	71.4	69.9	51.7	42.6	45.6	45.6	50.2	63.8	68.4	73.0
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°	339.0
2.5°	343.5
5°	348.1
7.5°	355.7
10°	367.8
12.5°	381.5
15°	401.3
17.5°	424.1
20°	454.5
22.5°	492.5
25°	532.0
27.5°	585.2
30°	655.1
32.5°	737.2
35°	843.6
37.5°	962.1
40°	1108.1
42.5°	1299.6
45°	1574.7
47.5°	1792.1
50°	2044.4
52.5°	2535.3
55°	2723.8
57.5°	2772.4
60°	2778.5
62.5°	2883.4
65°	2889.5
67.5°	2664.5
70°	2381.8
72.5°	2045.9
75°	1682.6
77.5°	1299.6
80°	908.9
82.5°	568.5
85°	266.0
87.5°	66.9
90°	0.0

(END OF REPORT)