

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: P198078

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198078
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7503.2 lumens
Efficiency: N/A
Efficacy: 97.4 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



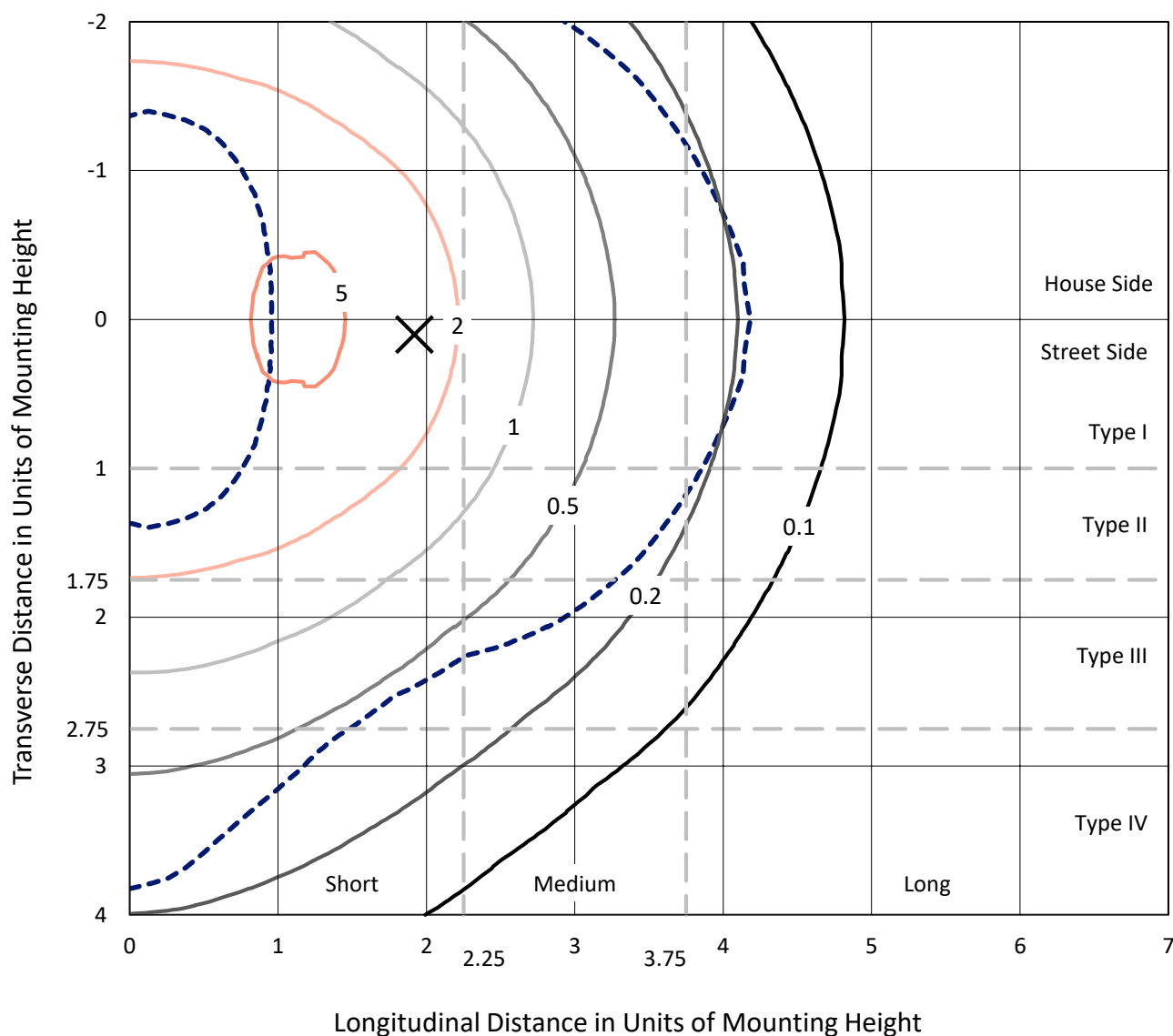
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

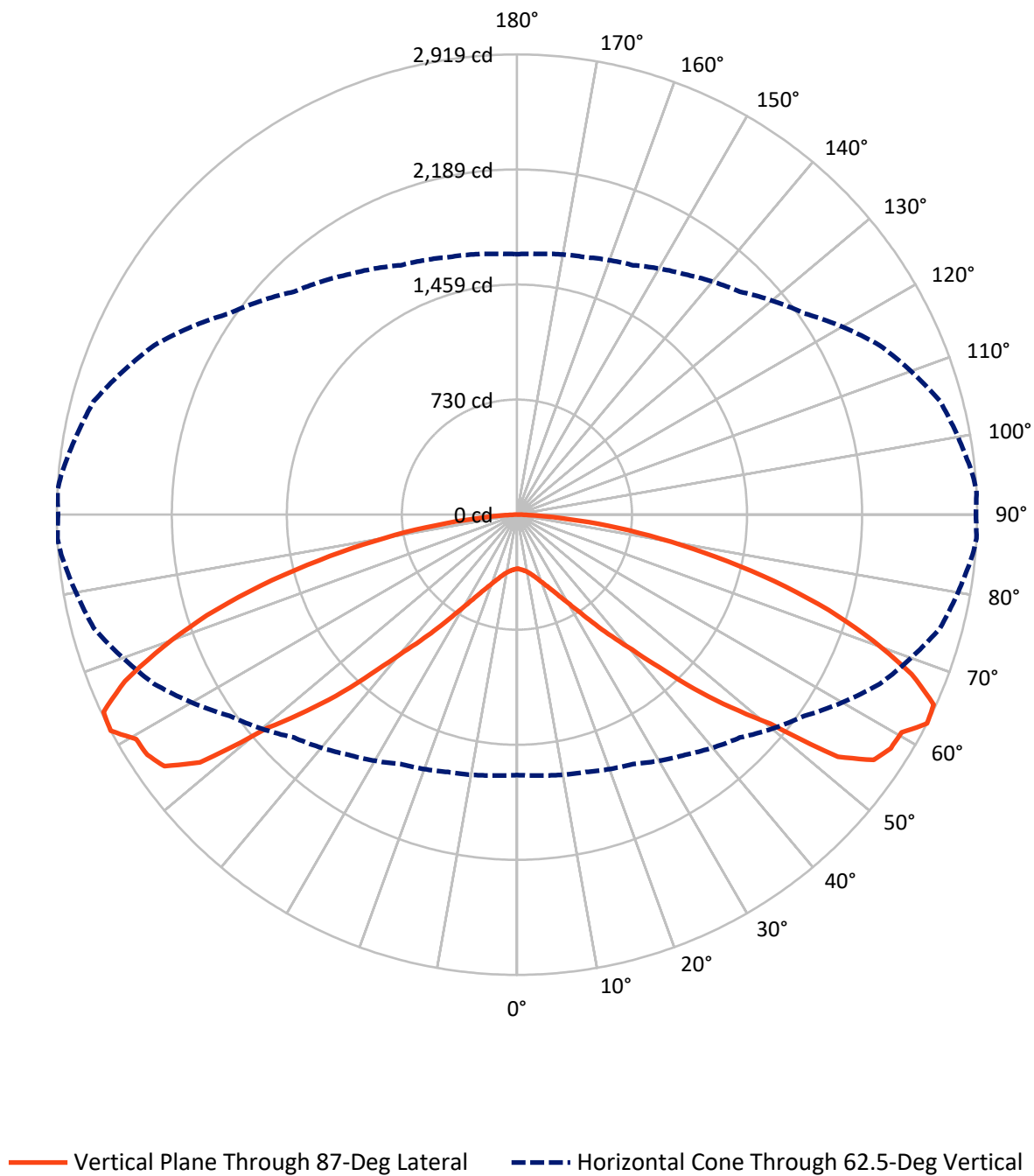


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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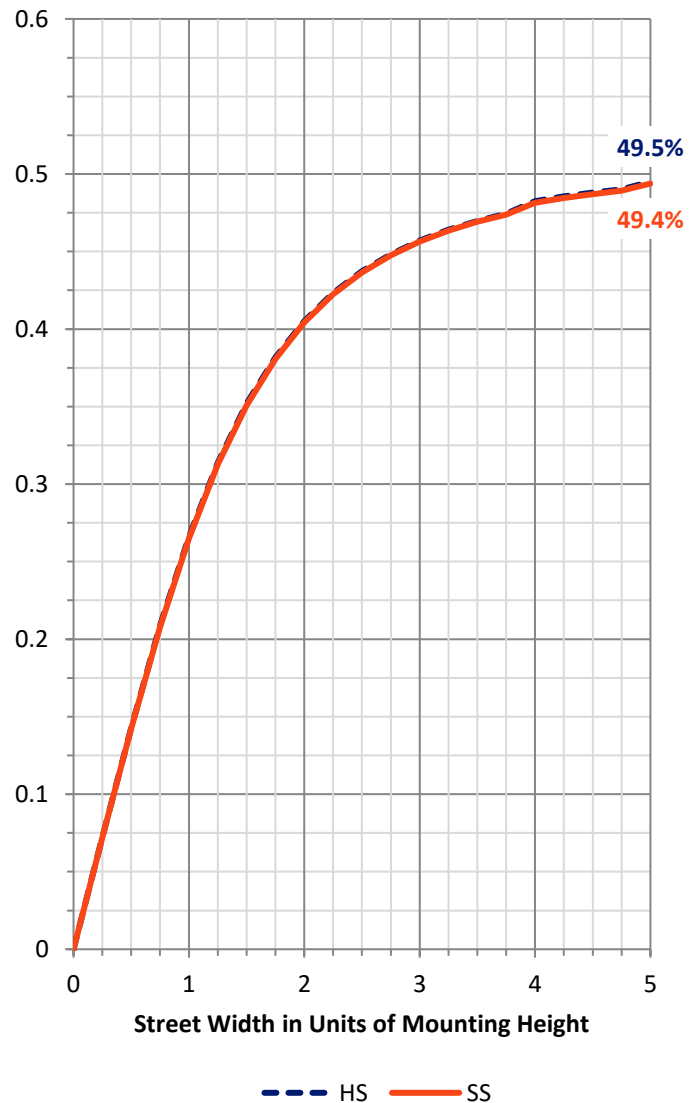
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3751.6	0.0	3751.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3751.6	0.0	3751.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	7503.2	0.0	7503.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.2	0.5
10°-20°	118.5	1.6
20°-30°	261.5	3.5
30°-40°	526.6	7.0
40°-50°	1004.5	13.4
50°-60°	1720.0	22.9
60°-70°	2083.7	27.8
70°-80°	1443.7	19.2
80°-90°	310.3	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°	7503.2	100.0
0°-180°	7503.2	100.0

Coefficient of Utilization



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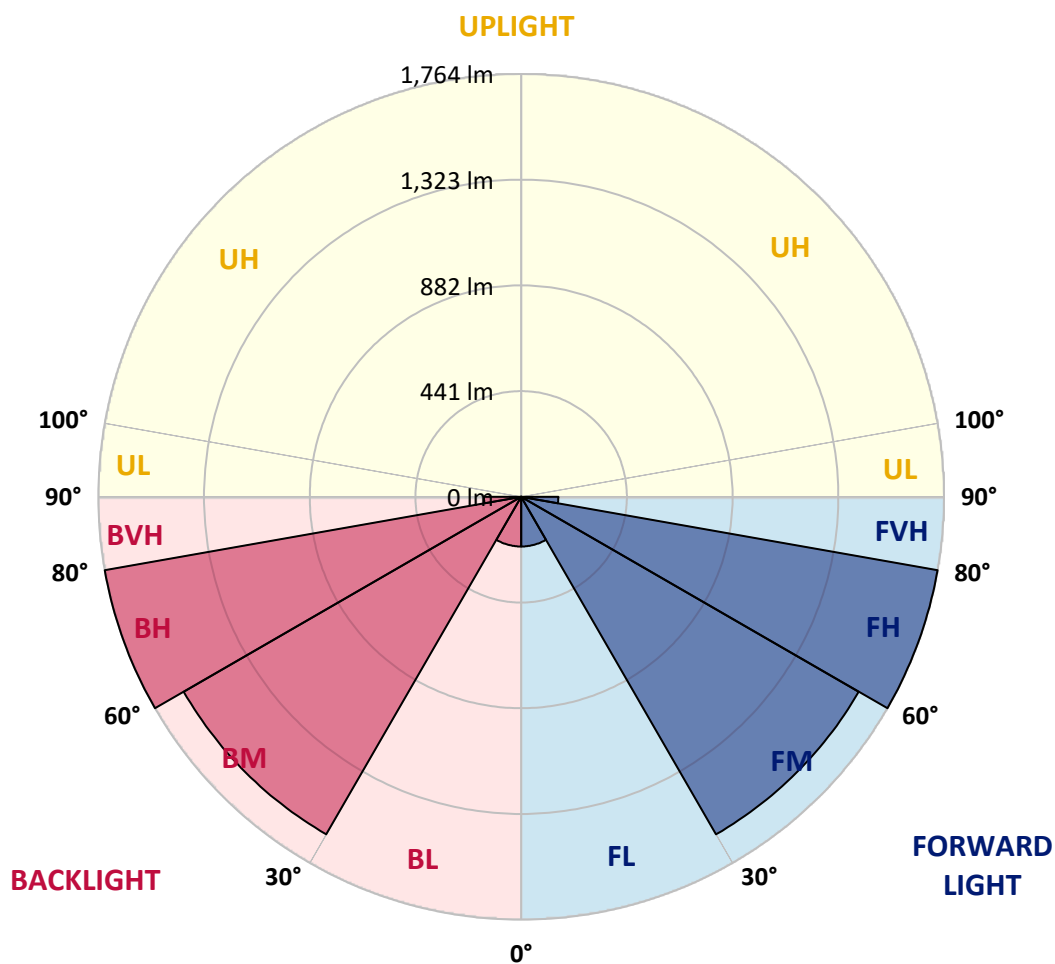
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.1	2.8			
FM	(30°-60°)	1625.6	21.7			
FH	(60°-80°)	1763.7	23.5			G1/1800
FVH	(80°-90°)	155.2	2.1			G2/225
BL	(0°-30°)	207.1	2.8	B1/500		
BM	(30°-60°)	1625.6	21.7	B2/2500		
BH	(60°-80°)	1763.7	23.5	B3/2500		G3/2500
BVH	(80°-90°)	155.2	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°	342.2	342.2	342.2	342.2	342.2	342.2	342.2	342.2	342.2	342.2	342.2
2.5°	345.3	345.3	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8
5°	351.4	351.4	351.4	352.9	352.9	352.9	352.9	352.9	351.4	351.4	351.4
7.5°	360.6	360.6	360.6	362.1	362.1	362.1	360.6	360.6	359.1	359.1	359.1
10°	372.9	372.9	374.4	374.4	372.9	372.9	371.3	369.8	371.3	369.8	369.8
12.5°	389.8	392.8	391.3	391.3	388.2	388.2	386.7	386.7	386.7	385.2	385.2
15°	414.3	414.3	415.8	412.8	412.8	408.2	406.6	405.1	406.6	406.6	405.1
17.5°	443.5	443.5	443.5	438.9	435.8	432.7	431.2	429.7	428.1	429.7	429.7
20°	488.0	484.9	478.8	475.7	468.0	465.0	461.9	460.3	458.8	458.8	458.8
22.5°	534.0	530.9	523.3	517.1	511.0	503.3	500.2	494.1	492.6	495.6	494.1
25°	578.5	583.1	573.9	566.2	561.6	549.3	541.7	540.1	537.1	535.5	537.1
27.5°	633.7	636.8	629.1	618.4	609.2	600.0	592.3	589.2	590.8	590.8	592.3
30°	695.1	701.3	689.0	682.9	669.0	656.8	650.6	653.7	656.8	661.4	659.8
32.5°	765.7	765.7	759.6	748.8	733.5	722.7	719.7	724.3	738.1	744.2	742.7
35°	848.6	842.4	836.3	822.5	802.5	796.4	802.5	817.9	837.8	848.6	854.7
37.5°	934.5	922.2	913.0	897.7	888.5	885.4	899.2	928.4	949.9	969.8	979.0
40°	1008.2	1008.2	995.9	979.0	969.8	983.6	1005.1	1046.5	1088.0	1109.4	1124.8
42.5°	1081.8	1091.0	1077.2	1063.4	1063.4	1081.8	1123.3	1187.7	1266.0	1312.0	1319.7
45°	1158.5	1175.4	1157.0	1147.8	1157.0	1193.8	1272.1	1396.4	1513.0	1588.2	1575.9
47.5°	1238.3	1253.7	1236.8	1232.2	1253.7	1319.7	1439.4	1598.9	1715.6	1793.8	1824.5
50°	1336.5	1325.8	1319.7	1318.1	1362.6	1460.8	1615.8	1787.7	1974.9	2045.5	2083.8
52.5°	1419.4	1401.0	1397.9	1408.7	1482.3	1600.5	1793.8	2109.9	2369.3	2544.2	2550.3
55°	1491.5	1471.6	1482.3	1508.4	1608.2	1772.3	2016.3	2386.1	2605.6	2736.0	2746.7
57.5°	1552.9	1542.2	1560.6	1595.9	1724.8	1921.2	2194.3	2499.7	2680.8	2785.1	2795.9
60°	1608.2	1606.6	1626.6	1686.4	1830.7	2008.7	2234.2	2507.4	2696.1	2789.7	2803.5
62.5°	1651.1	1660.3	1689.5	1744.7	1859.8	1999.4	2225.0	2539.6	2779.0	2901.7	2918.6
65°	1687.9	1697.2	1726.3	1744.7	1847.5	1981.0	2275.7	2561.1	2766.7	2894.1	2904.8
67.5°	1707.9	1718.6	1714.0	1717.1	1796.9	1901.2	2156.0	2401.5	2570.3	2686.9	2700.7
70°	1704.8	1695.6	1658.8	1620.4	1637.3	1711.0	1941.1	2146.8	2300.2	2392.3	2396.9
72.5°	1640.4	1625.0	1537.6	1448.6	1422.5	1471.6	1672.6	1827.6	1958.0	2042.4	2068.5
75°	1494.6	1463.9	1336.5	1221.5	1163.1	1200.0	1355.0	1490.0	1586.7	1669.5	1686.4
77.5°	1229.1	1210.7	1083.4	957.5	893.1	917.6	1040.4	1120.2	1224.5	1310.5	1289.0
80°	894.6	891.5	788.7	676.7	630.7	641.4	707.4	785.7	851.6	916.1	919.2
82.5°	584.6	575.4	506.4	425.1	377.5	383.6	425.1	466.5	529.4	570.8	583.1
85°	290.0	285.4	254.7	204.1	178.0	178.0	198.0	222.5	253.2	271.6	270.1
87.5°	79.8	72.1	70.6	52.2	43.0	46.0	46.0	50.6	64.4	69.1	73.7
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°	342.2
2.5°	346.8
5°	351.4
7.5°	359.1
10°	371.3
12.5°	385.2
15°	405.1
17.5°	428.1
20°	458.8
22.5°	497.2
25°	537.1
27.5°	590.8
30°	661.4
32.5°	744.2
35°	851.6
37.5°	971.3
40°	1118.6
42.5°	1312.0
45°	1589.7
47.5°	1809.2
50°	2063.9
52.5°	2559.5
55°	2749.8
57.5°	2798.9
60°	2805.1
62.5°	2910.9
65°	2917.1
67.5°	2690.0
70°	2404.6
72.5°	2065.4
75°	1698.7
77.5°	1312.0
80°	917.6
82.5°	573.9
85°	268.5
87.5°	67.5
90°	0.0

(END OF REPORT)