

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: P198150

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34699)
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-SG
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7376.3 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type III - Short - Full 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



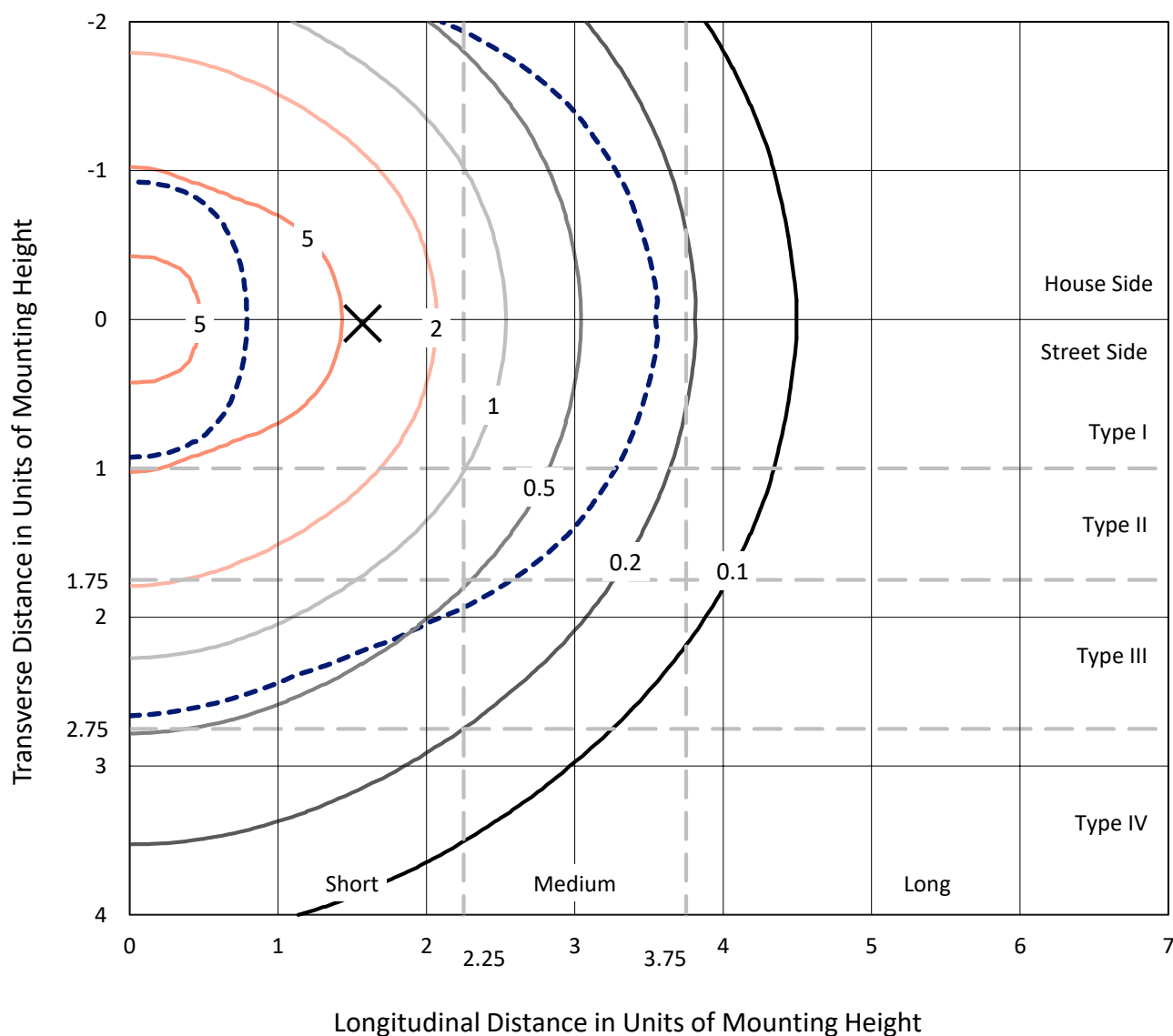
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

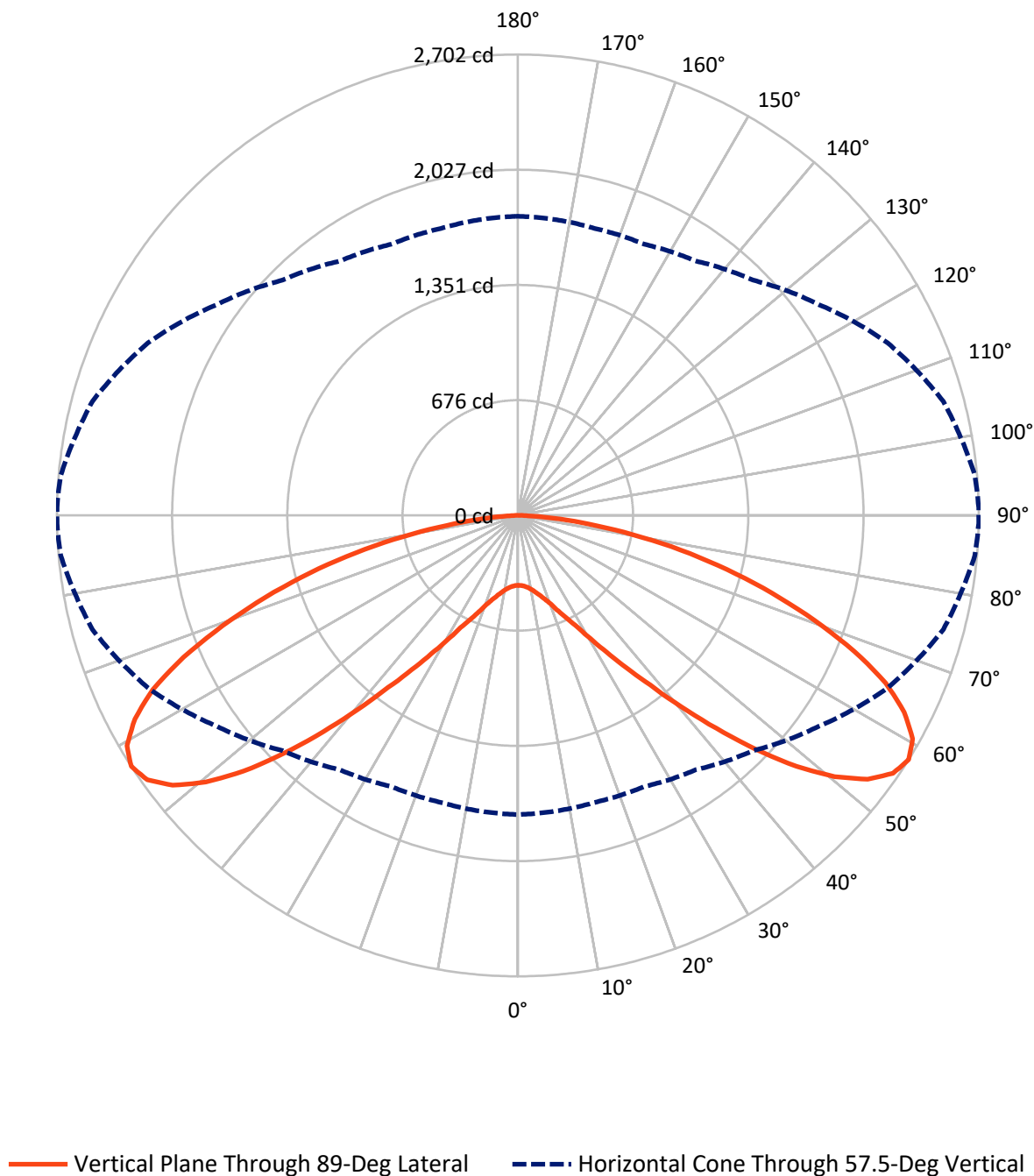


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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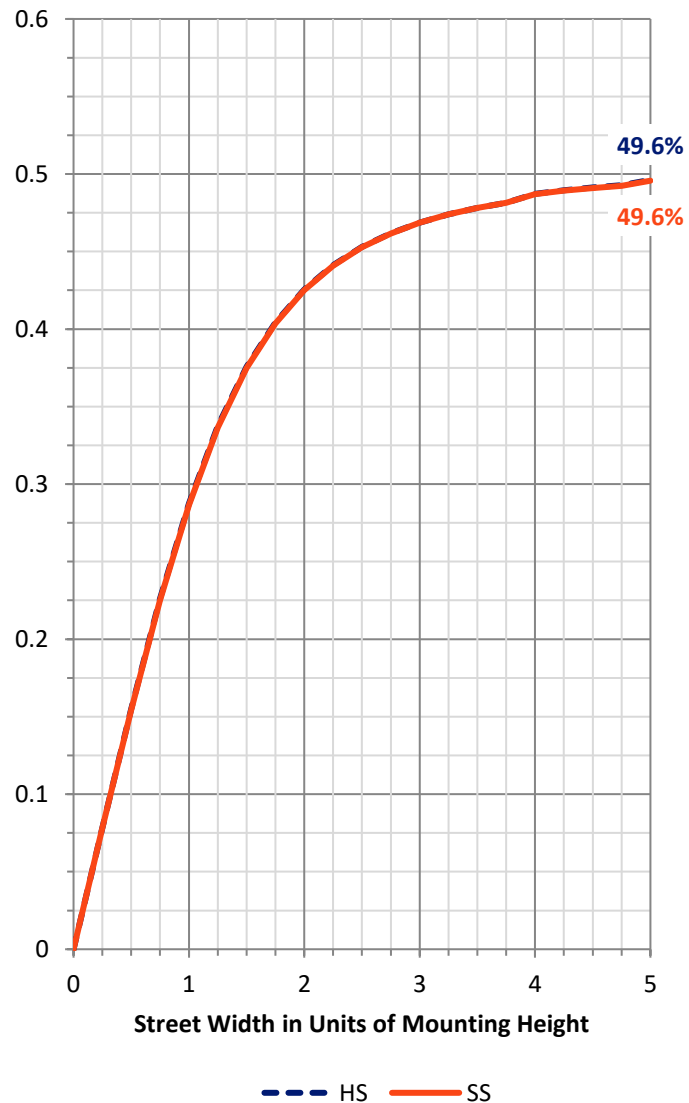
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3688.2	0.0	3688.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3688.2	0.0	3688.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	7376.3	0.0	7376.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	0.6
10°-20°	142.0	1.9
20°-30°	318.2	4.3
30°-40°	658.4	8.9
40°-50°	1249.9	16.9
50°-60°	1828.9	24.8
60°-70°	1823.4	24.7
70°-80°	1085.3	14.7
80°-90°	229.6	3.1
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°	7376.3	100.0
0°-180°	7376.3	100.0

Coefficient of Utilization



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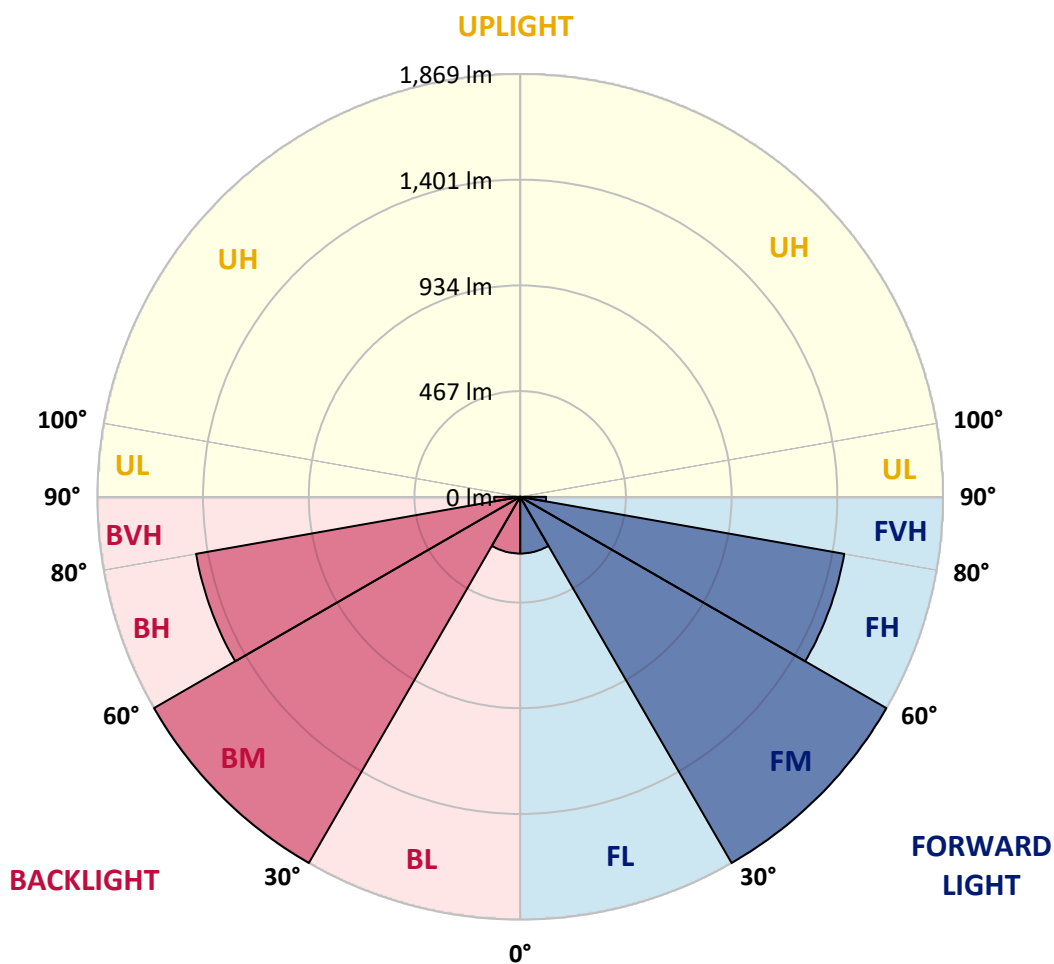
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.4	3.4			
FM	(30°-60°)	1868.6	25.3			
FH	(60°-80°)	1454.3	19.7			G1/1800
FVH	(80°-90°)	114.8	1.6			G2/225
BL	(0°-30°)	250.4	3.4	B1/500		
BM	(30°-60°)	1868.6	25.3	B2/2500		
BH	(60°-80°)	1454.3	19.7	B3/2500		G3/2500
BVH	(80°-90°)	114.8	1.6			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	412.8	412.8	412.8	412.8	411.2	411.2	411.2	411.2	411.2	411.2	411.2
5°	418.9	418.9	417.4	418.9	417.4	417.4	417.4	417.4	417.4	417.4	417.4
7.5°	428.1	428.1	428.1	428.1	428.1	428.1	426.6	428.1	426.6	426.6	426.6
10°	445.0	443.5	445.0	443.5	443.5	441.9	441.9	441.9	441.9	441.9	441.9
12.5°	466.5	466.5	466.5	465.0	463.4	463.4	461.9	461.9	461.9	460.3	461.9
15°	495.6	497.2	492.6	491.0	491.0	488.0	486.4	488.0	486.4	484.9	486.4
17.5°	530.9	532.5	529.4	526.3	523.3	521.7	520.2	518.7	518.7	518.7	517.1
20°	577.0	577.0	573.9	567.8	563.2	560.1	560.1	558.6	558.6	560.1	555.5
22.5°	629.1	627.6	624.5	621.5	615.3	609.2	606.1	604.6	604.6	607.7	609.2
25°	693.6	695.1	685.9	679.8	673.6	662.9	661.4	662.9	664.4	664.4	667.5
27.5°	759.6	762.6	755.0	745.8	736.6	732.0	728.9	732.0	735.0	739.6	738.1
30°	837.8	836.3	834.8	821.0	810.2	805.6	808.7	817.9	825.6	836.3	837.8
32.5°	922.2	925.3	914.6	903.8	899.2	894.6	899.2	919.2	940.6	946.8	954.5
35°	1022.0	1015.8	1009.7	1002.0	994.4	994.4	1017.4	1040.4	1074.1	1097.2	1097.2
37.5°	1123.3	1118.6	1107.9	1097.2	1097.2	1112.5	1135.5	1192.3	1241.4	1275.2	1261.4
40°	1227.6	1221.5	1218.4	1206.1	1207.6	1244.5	1293.6	1364.2	1434.8	1482.3	1473.1
42.5°	1333.5	1335.0	1324.3	1319.7	1333.5	1374.9	1460.8	1556.0	1645.0	1704.8	1706.4
45°	1442.4	1442.4	1434.8	1431.7	1457.8	1520.7	1628.1	1758.5	1878.2	1947.3	1954.9
47.5°	1542.2	1540.6	1534.5	1533.0	1577.5	1652.7	1787.7	1954.9	2102.3	2179.0	2198.9
50°	1628.1	1629.6	1620.4	1628.1	1668.0	1767.7	1930.4	2133.0	2301.7	2398.4	2407.6
52.5°	1695.6	1697.2	1686.4	1692.6	1746.3	1861.3	2042.4	2269.5	2453.7	2556.5	2568.7
55°	1741.7	1735.5	1727.8	1737.1	1798.4	1925.8	2123.7	2360.1	2551.9	2659.3	2668.5
57.5°	1753.9	1749.3	1741.7	1753.9	1819.9	1950.3	2154.4	2392.3	2582.6	2690.0	2702.2
60°	1735.5	1735.5	1726.3	1740.1	1806.1	1933.5	2133.0	2363.1	2544.2	2642.4	2659.3
62.5°	1687.9	1687.9	1677.2	1687.9	1750.9	1869.0	2059.3	2272.6	2436.8	2522.7	2542.7
65°	1598.9	1597.4	1591.3	1594.3	1646.5	1758.5	1931.9	2125.3	2268.0	2344.7	2370.8
67.5°	1470.0	1465.4	1459.3	1465.4	1503.8	1603.5	1763.1	1931.9	2050.1	2123.7	2129.9
70°	1305.9	1301.3	1293.6	1290.5	1330.4	1410.2	1539.1	1687.9	1786.2	1839.9	1846.0
72.5°	1111.0	1117.1	1111.0	1101.8	1127.9	1198.4	1305.9	1419.4	1500.7	1549.8	1557.5
75°	919.2	920.7	905.4	902.3	922.2	966.7	1054.2	1141.7	1212.3	1253.7	1266.0
77.5°	712.0	712.0	698.2	690.5	701.3	739.6	799.5	870.1	928.4	954.5	975.9
80°	512.5	512.5	500.2	481.8	492.6	512.5	566.2	604.6	650.6	679.8	682.9
82.5°	320.7	316.1	319.2	305.4	308.4	314.6	348.3	374.4	402.0	417.4	418.9
85°	167.3	161.1	158.1	150.4	145.8	156.5	171.9	190.3	196.4	210.2	205.6
87.5°	52.2	49.1	47.6	47.6	43.0	46.0	47.6	50.6	58.3	58.3	61.4
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°	409.7
2.5°	411.2
5°	417.4
7.5°	426.6
10°	441.9
12.5°	460.3
15°	486.4
17.5°	518.7
20°	555.5
22.5°	604.6
25°	664.4
27.5°	735.0
30°	836.3
32.5°	949.9
35°	1088.0
37.5°	1276.7
40°	1471.6
42.5°	1717.1
45°	1954.9
47.5°	2198.9
50°	2403.0
52.5°	2564.1
55°	2673.1
57.5°	2702.2
60°	2654.7
62.5°	2538.1
65°	2367.7
67.5°	2129.9
70°	1855.2
72.5°	1552.9
75°	1252.1
77.5°	969.8
80°	682.9
82.5°	431.2
85°	205.6
87.5°	66.0
90°	0.0

(END OF REPORT)