

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: P198152

Luminaire Tested: **TT-C5-LED-E1-RW-SG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198152
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7251.4 lumens
Efficiency: N/A
Efficacy: 94.2 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



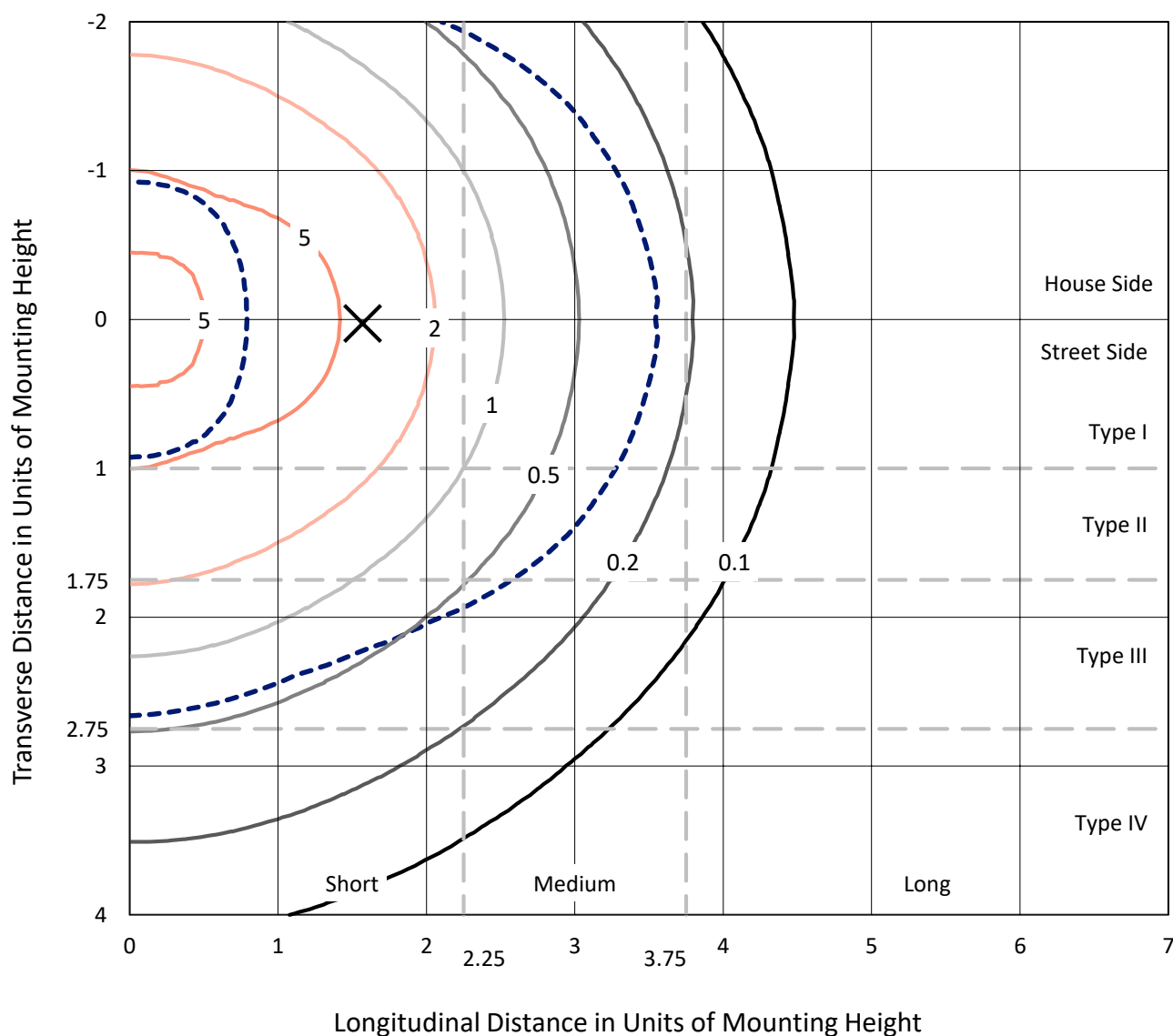
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

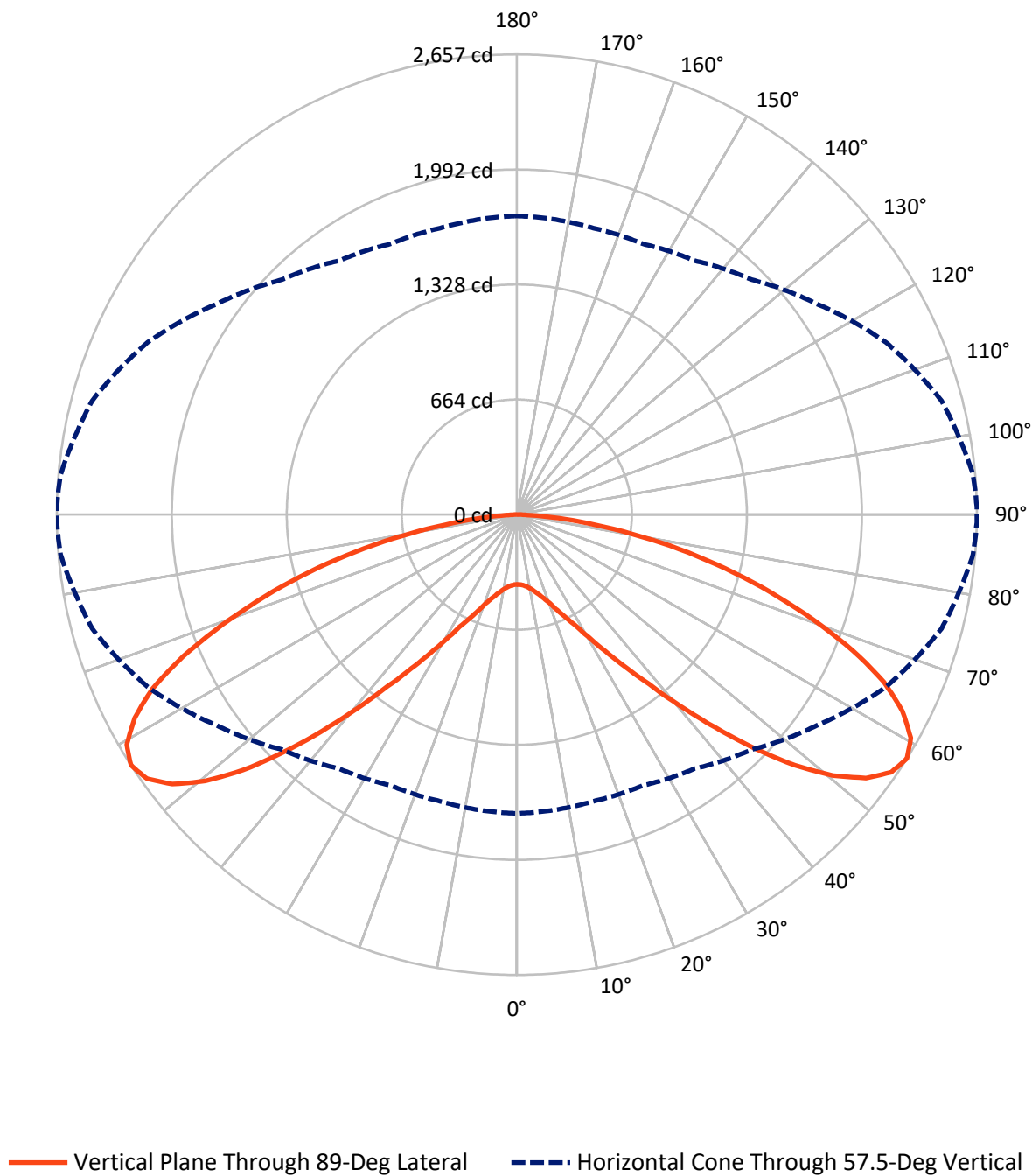


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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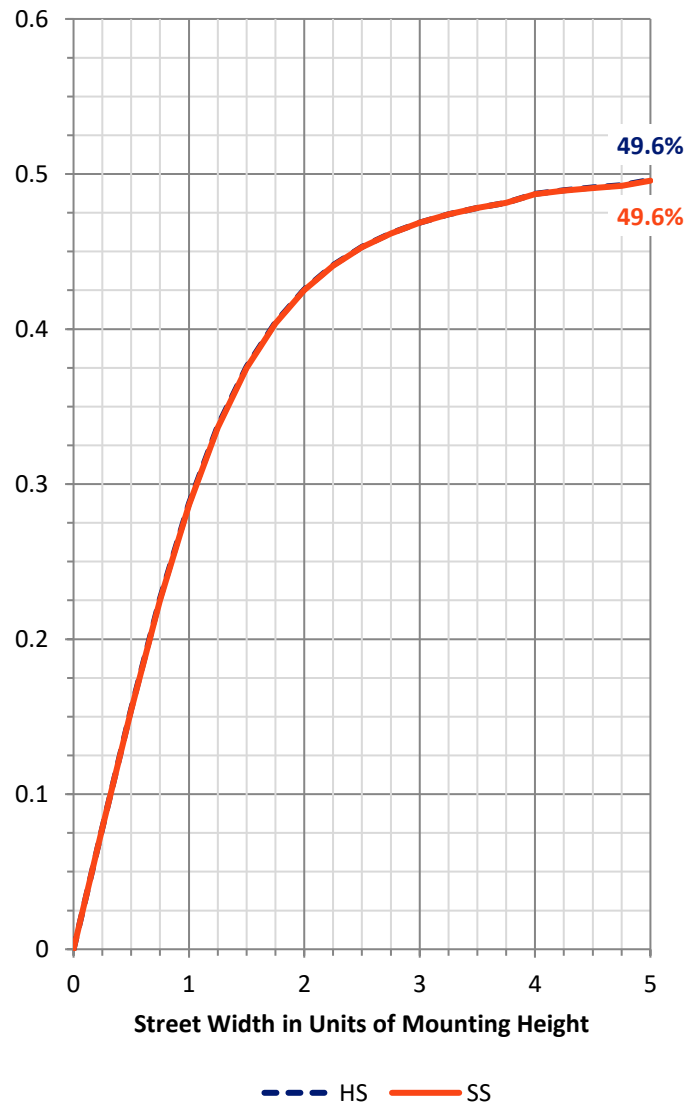
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3625.7	0.0	3625.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3625.7	0.0	3625.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7251.4	0.0	7251.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	0.6
10°-20°	139.6	1.9
20°-30°	312.8	4.3
30°-40°	647.3	8.9
40°-50°	1228.7	16.9
50°-60°	1797.9	24.8
60°-70°	1792.5	24.7
70°-80°	1066.9	14.7
80°-90°	225.7	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°	7251.4	100.0
0°-180°	7251.4	100.0

Coefficient of Utilization



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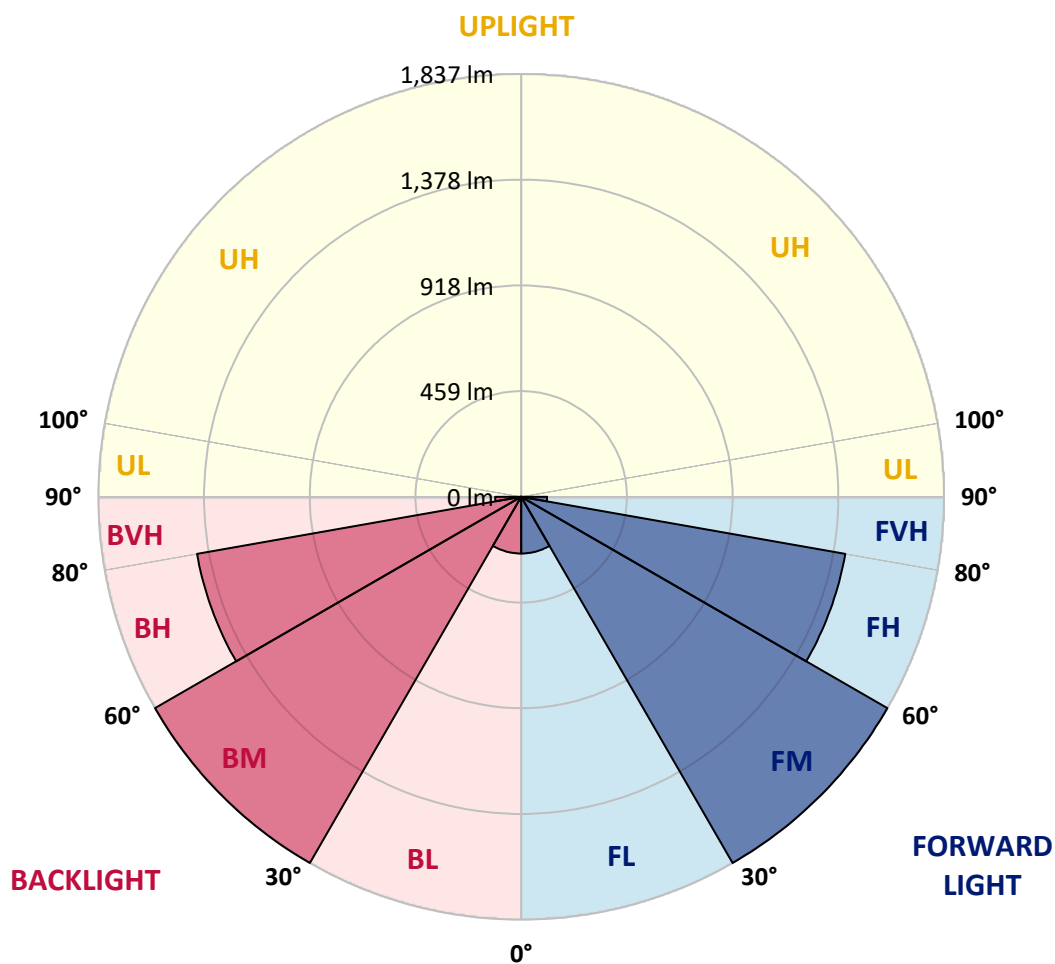
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	246.2	3.4			
FM	(30°-60°)	1837.0	25.3			
FH	(60°-80°)	1429.7	19.7			G1/1800
FVH	(80°-90°)	112.8	1.6			G2/225
BL	(0°-30°)	246.2	3.4	B1/500		
BM	(30°-60°)	1837.0	25.3	B2/2500		
BH	(60°-80°)	1429.7	19.7	B3/2500		G3/2500
BVH	(80°-90°)	112.8	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°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8
2.5°	405.8	405.8	405.8	405.8	404.3	404.3	404.3	404.3	404.3	404.3	404.3
5°	411.8	411.8	410.3	411.8	410.3	410.3	410.3	410.3	410.3	410.3	410.3
7.5°	420.9	420.9	420.9	420.9	420.9	420.9	419.4	420.9	419.4	419.4	419.4
10°	437.5	436.0	437.5	436.0	436.0	434.4	434.4	434.4	434.4	434.4	434.4
12.5°	458.6	458.6	458.6	457.1	455.6	455.6	454.1	454.1	454.1	452.6	454.1
15°	487.2	488.8	484.2	482.7	482.7	479.7	478.2	479.7	478.2	476.7	478.2
17.5°	521.9	523.4	520.4	517.4	514.4	512.9	511.4	509.9	509.9	509.9	508.4
20°	567.2	567.2	564.2	558.1	553.6	550.6	550.6	549.1	549.1	550.6	546.1
22.5°	618.5	617.0	614.0	610.9	604.9	598.9	595.9	594.3	594.3	597.4	598.9
25°	681.8	683.4	674.3	668.3	662.2	651.7	650.2	651.7	653.2	653.2	656.2
27.5°	746.7	749.7	742.2	733.1	724.1	719.6	716.5	719.6	722.6	727.1	725.6
30°	823.6	822.1	820.6	807.0	796.5	792.0	795.0	804.0	811.6	822.1	823.6
32.5°	906.6	909.6	899.1	888.5	884.0	879.5	884.0	903.6	924.7	930.7	938.3
35°	1004.7	998.6	992.6	985.1	977.5	977.5	1000.1	1022.8	1056.0	1078.6	1078.6
37.5°	1104.2	1099.7	1089.1	1078.6	1078.6	1093.7	1116.3	1172.1	1220.4	1253.6	1240.0
40°	1206.8	1200.8	1197.7	1185.7	1187.2	1223.4	1271.7	1341.1	1410.4	1457.2	1448.2
42.5°	1310.9	1312.4	1301.8	1297.3	1310.9	1351.6	1436.1	1529.6	1617.1	1675.9	1677.5
45°	1418.0	1418.0	1410.4	1407.4	1433.1	1494.9	1600.5	1728.7	1846.4	1914.3	1921.8
47.5°	1516.0	1514.5	1508.5	1507.0	1550.7	1624.7	1757.4	1921.8	2066.6	2142.1	2161.7
50°	1600.5	1602.0	1593.0	1600.5	1639.7	1737.8	1897.7	2096.8	2262.8	2357.8	2366.8
52.5°	1666.9	1668.4	1657.8	1663.9	1716.7	1829.8	2007.8	2231.1	2412.1	2513.2	2525.2
55°	1712.1	1706.1	1698.6	1707.6	1768.0	1893.2	2087.8	2320.1	2508.6	2614.2	2623.3
57.5°	1724.2	1719.7	1712.1	1724.2	1789.1	1917.3	2117.9	2351.8	2538.8	2644.4	2656.5
60°	1706.1	1706.1	1697.1	1710.6	1775.5	1900.7	2096.8	2323.1	2501.1	2597.6	2614.2
62.5°	1659.4	1659.4	1648.8	1659.4	1721.2	1837.4	2024.4	2234.1	2395.5	2480.0	2499.6
65°	1571.9	1570.3	1564.3	1567.3	1618.6	1728.7	1899.2	2089.3	2229.6	2305.0	2330.6
67.5°	1445.1	1440.6	1434.6	1440.6	1478.3	1576.4	1733.3	1899.2	2015.4	2087.8	2093.8
70°	1283.7	1279.2	1271.7	1268.6	1307.9	1386.3	1513.0	1659.4	1755.9	1808.7	1814.7
72.5°	1092.2	1098.2	1092.2	1083.1	1108.7	1178.1	1283.7	1395.4	1475.3	1523.6	1531.1
75°	903.6	905.1	890.0	887.0	906.6	950.4	1036.3	1122.3	1191.7	1232.4	1244.5
77.5°	699.9	699.9	686.4	678.8	689.4	727.1	785.9	855.3	912.6	938.3	959.4
80°	503.8	503.8	491.8	473.7	484.2	503.8	556.6	594.3	639.6	668.3	671.3
82.5°	315.3	310.8	313.8	300.2	303.2	309.2	342.4	368.1	395.2	410.3	411.8
85°	164.4	158.4	155.4	147.8	143.3	153.9	169.0	187.1	193.1	206.7	202.1
87.5°	51.3	48.3	46.8	46.8	42.2	45.3	46.8	49.8	57.3	57.3	60.3
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°	402.8
2.5°	404.3
5°	410.3
7.5°	419.4
10°	434.4
12.5°	452.6
15°	478.2
17.5°	509.9
20°	546.1
22.5°	594.3
25°	653.2
27.5°	722.6
30°	822.1
32.5°	933.8
35°	1069.5
37.5°	1255.1
40°	1446.7
42.5°	1688.0
45°	1921.8
47.5°	2161.7
50°	2362.3
52.5°	2520.7
55°	2627.8
57.5°	2656.5
60°	2609.7
62.5°	2495.1
65°	2327.6
67.5°	2093.8
70°	1823.8
72.5°	1526.6
75°	1230.9
77.5°	953.4
80°	671.3
82.5°	423.9
85°	202.1
87.5°	64.9
90°	0.0

(END OF REPORT)