

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: P198180

Luminaire Tested: **TT-C3-LED-E1-DL-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34704)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-DL-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5159.6 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 66.5
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



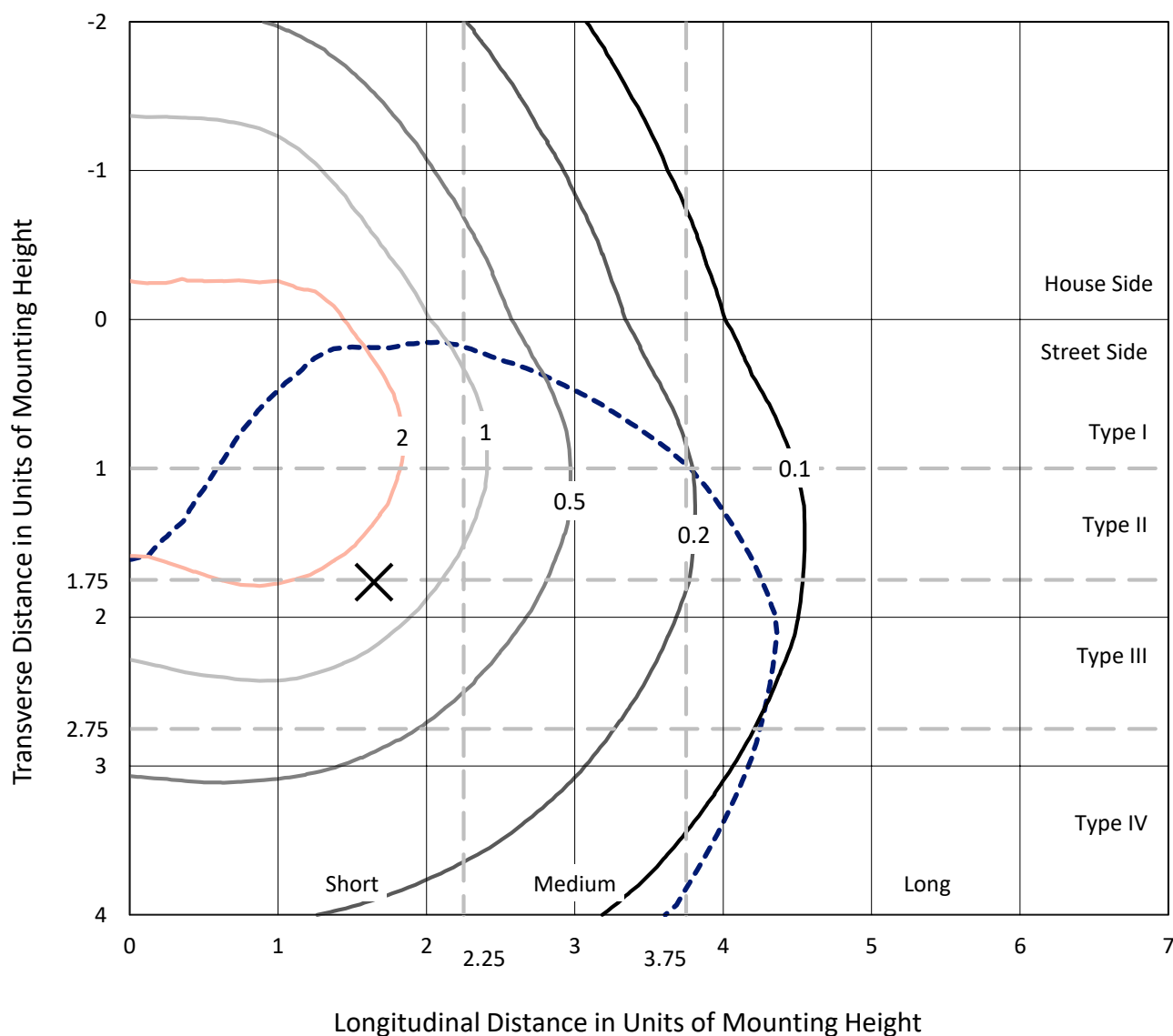
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

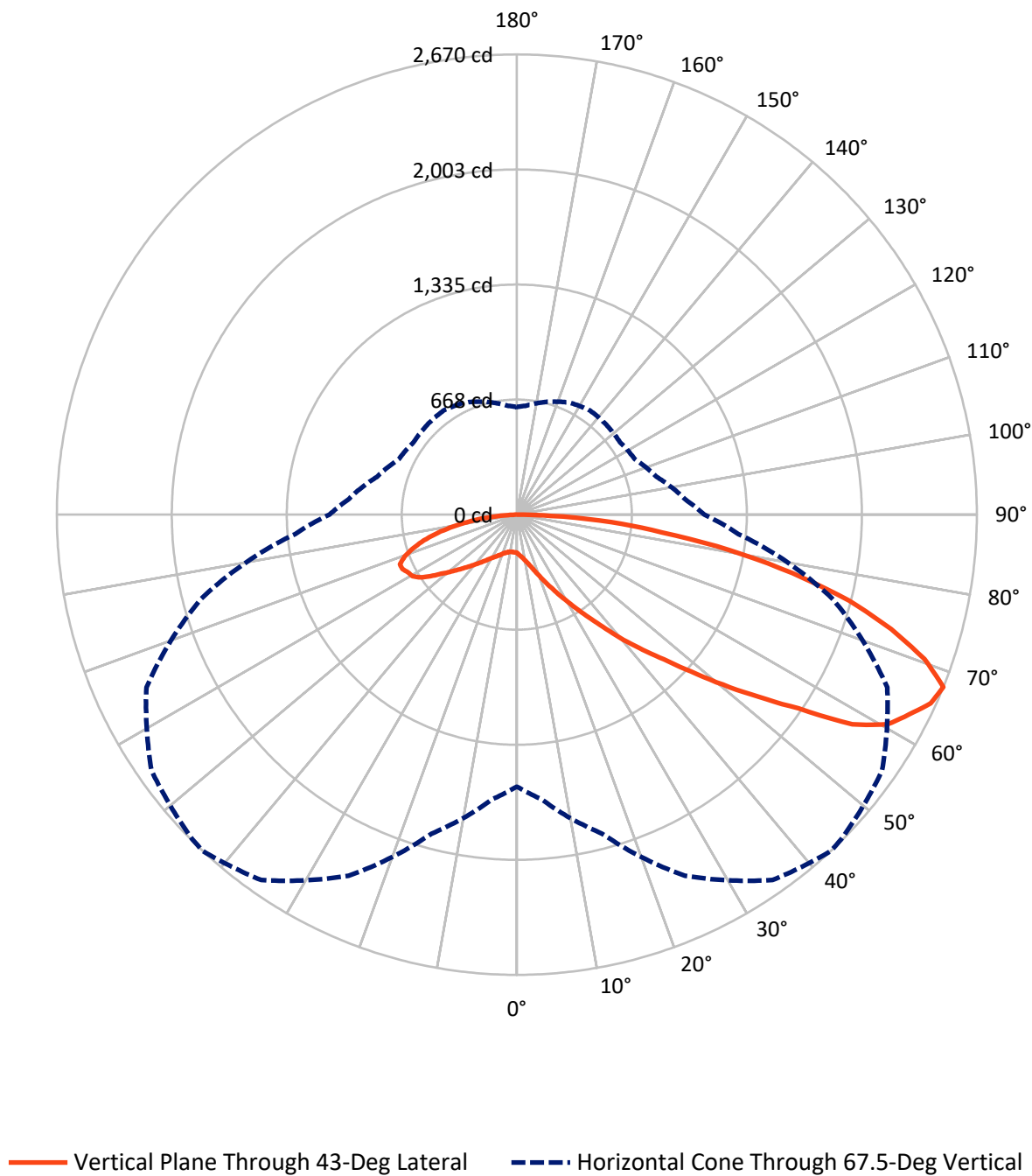


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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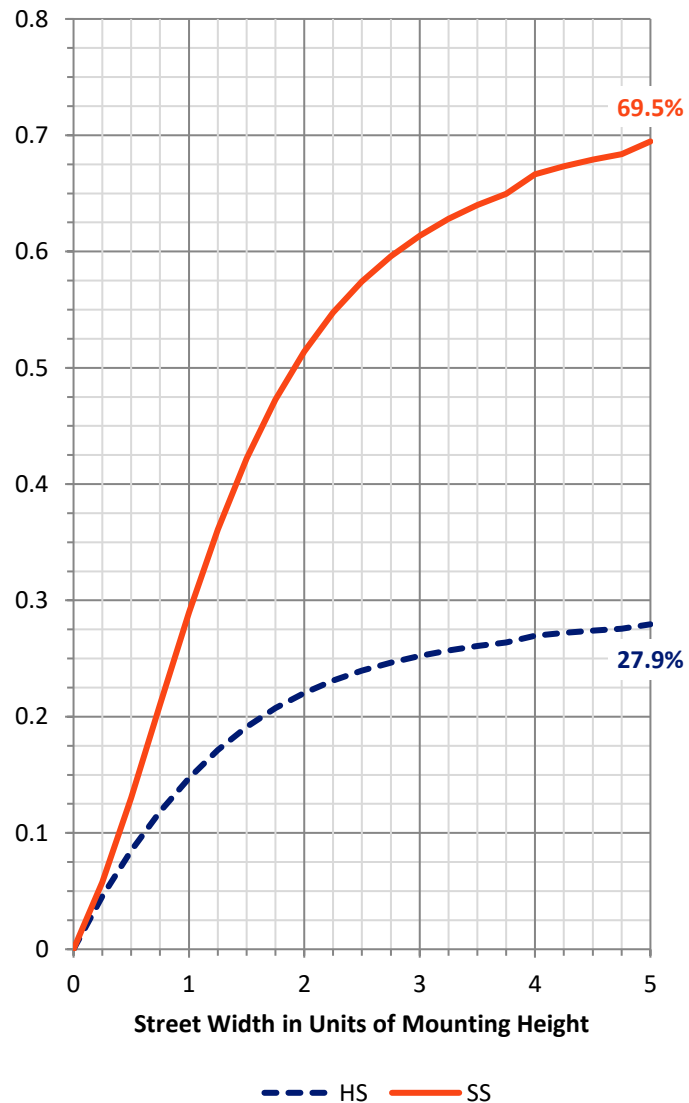
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1472.8	0.0	1472.8
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	3686.8	0.0	3686.8
	% Fixture	71.5	0.0	71.5
Total	Lumens	5159.6	0.0	5159.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	0.4
10°-20°	78.2	1.5
20°-30°	169.4	3.3
30°-40°	327.1	6.3
40°-50°	600.5	11.6
50°-60°	1037.1	20.1
60°-70°	1402.4	27.2
70°-80°	1174.4	22.8
80°-90°	348.2	6.7
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°	5159.6	100.0
0°-180°	5159.6	100.0

Coefficient of Utilization



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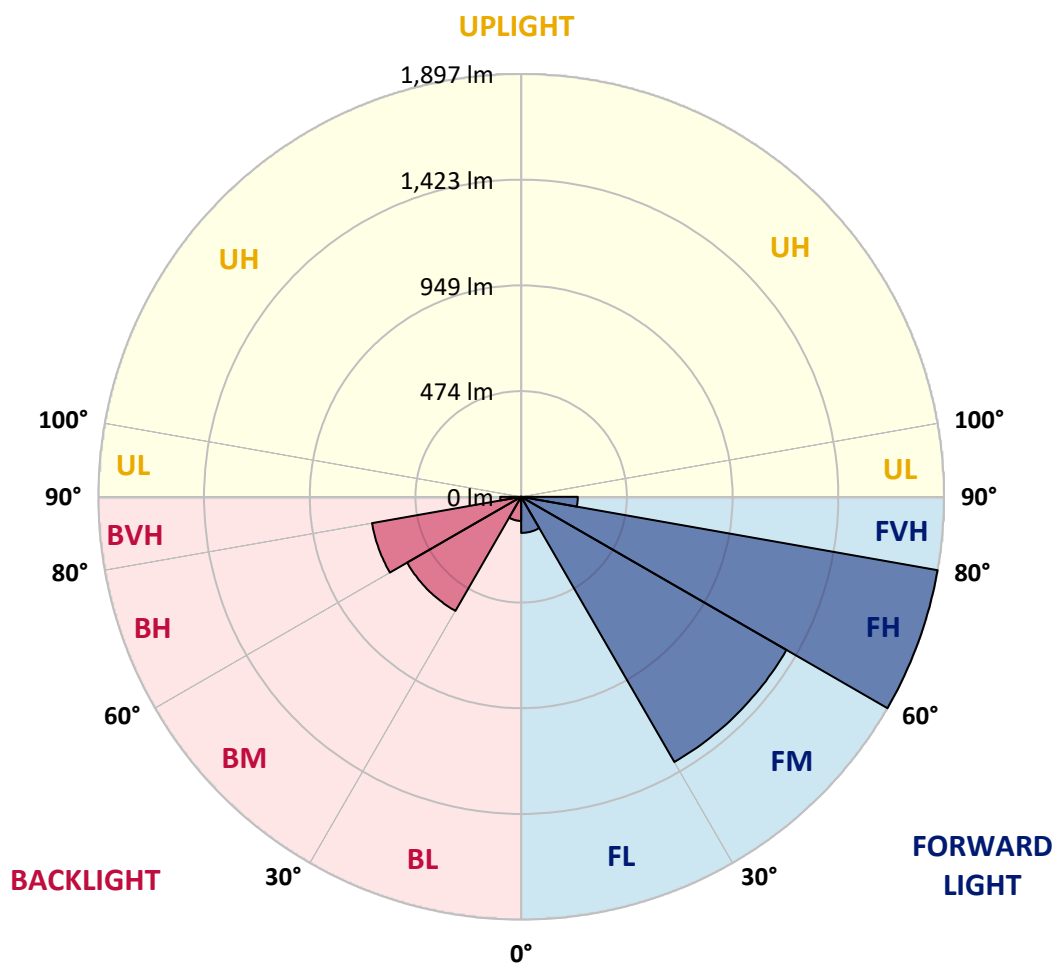
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	162.0	3.1			
FM	(30°-60°)	1373.8	26.6			
FH	(60°-80°)	1897.0	36.8			G2/5000
FVH	(80°-90°)	253.9	4.9			G3/500
BL	(0°-30°)	108.0	2.1	B0/110		
BM	(30°-60°)	590.8	11.5	B1/1000		
BH	(60°-80°)	679.8	13.2	B2/1000		G2/1000
BVH	(80°-90°)	94.3	1.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2
2.5°	235.0	235.0	234.0	234.0	233.0	232.0	231.0	231.0	229.1	228.1	227.1
5°	247.7	247.7	247.7	245.8	243.8	242.8	242.8	239.9	236.9	234.0	231.0
7.5°	263.5	262.5	262.5	260.5	257.6	254.6	253.6	251.7	246.7	242.8	236.9
10°	281.2	281.2	281.2	277.2	274.3	271.3	269.4	265.4	259.5	252.6	246.7
12.5°	302.8	302.8	303.8	298.8	295.9	290.0	289.0	283.1	275.3	265.4	256.6
15°	327.4	331.3	328.3	328.3	318.5	315.6	313.6	306.7	295.9	283.1	271.3
17.5°	362.7	361.8	357.8	358.8	351.9	347.0	342.1	330.3	318.5	300.8	285.1
20°	403.1	401.1	396.2	394.2	390.3	381.4	379.5	363.7	345.1	326.4	305.7
22.5°	442.4	443.4	441.4	437.5	433.5	426.6	422.7	406.0	379.5	354.9	324.4
25°	481.7	485.6	485.6	488.6	481.7	472.9	469.9	450.2	420.7	383.4	351.0
27.5°	530.9	531.8	534.8	538.7	536.8	528.9	523.0	501.4	465.0	423.7	380.4
30°	580.0	583.9	585.9	593.8	595.7	589.8	583.9	559.4	522.0	467.9	412.9
32.5°	633.1	639.0	642.9	653.7	666.5	662.6	660.6	632.1	587.9	525.0	457.1
35°	693.1	694.0	706.8	731.4	742.2	744.2	739.3	719.6	665.5	590.8	506.3
37.5°	750.1	755.0	776.6	808.1	826.8	839.5	841.5	822.8	762.9	668.5	560.3
40°	813.0	815.9	851.3	884.8	934.9	955.5	950.6	931.0	866.1	757.9	624.2
42.5°	877.9	887.7	921.1	976.2	1038.1	1072.5	1081.4	1057.8	992.9	864.1	706.8
45°	940.8	956.5	992.9	1064.7	1157.1	1198.3	1207.2	1219.0	1158.0	996.8	816.9
47.5°	1009.6	1018.4	1073.5	1168.9	1270.1	1358.6	1384.1	1393.0	1299.6	1121.7	894.6
50°	1081.4	1083.3	1160.0	1289.8	1448.0	1550.3	1552.3	1597.5	1478.5	1279.9	989.9
52.5°	1158.0	1160.0	1250.5	1417.6	1626.0	1753.8	1779.3	1794.1	1733.1	1485.4	1165.9
55°	1233.7	1238.7	1350.7	1590.6	1849.1	1983.8	2043.8	2107.7	1963.2	1644.7	1229.8
57.5°	1313.4	1323.2	1487.4	1779.3	2094.9	2296.4	2326.9	2336.7	2110.6	1708.6	1249.5
60°	1386.1	1407.7	1629.9	1962.2	2302.3	2471.4	2475.3	2418.3	2166.7	1745.9	1250.5
62.5°	1461.8	1489.3	1760.7	2137.2	2461.6	2554.0	2563.8	2472.4	2265.0	1870.8	1337.0
65°	1518.8	1569.9	1859.0	2260.1	2524.5	2639.5	2657.2	2631.6	2419.3	1955.3	1366.5
67.5°	1577.8	1658.4	1916.0	2311.2	2587.4	2670.0	2663.1	2588.4	2372.1	1900.3	1291.7
70°	1652.5	1711.5	1960.2	2293.5	2497.0	2509.7	2509.7	2417.3	2222.7	1790.2	1200.3
72.5°	1682.0	1728.2	1911.1	2151.9	2275.8	2271.8	2254.2	2203.0	2019.2	1621.1	1064.7
75°	1650.6	1656.5	1741.0	1887.5	1980.9	1990.7	1970.1	1898.3	1753.8	1405.8	911.3
77.5°	1480.5	1466.7	1486.4	1559.1	1641.7	1634.8	1631.9	1550.3	1438.2	1160.0	748.1
80°	1165.9	1173.8	1174.8	1188.5	1238.7	1256.3	1237.7	1175.7	1100.0	902.4	579.0
82.5°	801.2	814.0	825.8	808.1	829.7	849.4	846.4	787.4	762.9	633.1	400.1
85°	431.6	462.0	468.9	478.7	526.9	550.5	541.7	497.4	463.0	391.3	241.8
87.5°	87.5	71.8	102.2	145.5	183.8	198.6	223.2	168.1	133.7	98.3	55.1
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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2
2.5°	226.1	225.1	224.1	222.2	220.2	219.2	218.2	217.3	217.3	217.3	217.3
5°	230.0	229.1	226.1	224.1	221.2	219.2	217.3	216.3	214.3	213.3	214.3
7.5°	235.0	233.0	228.1	224.1	221.2	218.2	216.3	215.3	214.3	212.3	212.3
10°	242.8	239.9	233.0	227.1	223.2	219.2	216.3	215.3	214.3	213.3	213.3
12.5°	253.6	247.7	239.9	233.0	226.1	221.2	219.2	217.3	216.3	216.3	216.3
15°	264.4	259.5	248.7	237.9	231.0	227.1	224.1	221.2	221.2	221.2	221.2
17.5°	279.2	270.3	257.6	245.8	237.9	232.0	230.0	228.1	228.1	229.1	229.1
20°	294.9	285.1	269.4	256.6	246.7	239.9	237.9	236.9	236.9	237.9	237.9
22.5°	312.6	300.8	281.2	266.4	256.6	251.7	247.7	247.7	247.7	248.7	249.7
25°	336.2	319.5	295.9	279.2	267.4	261.5	259.5	259.5	259.5	261.5	261.5
27.5°	360.8	343.1	312.6	292.0	280.2	274.3	271.3	272.3	273.3	274.3	274.3
30°	389.3	368.6	331.3	309.7	294.9	288.0	285.1	286.1	287.1	289.0	287.1
32.5°	424.7	399.1	356.9	328.3	311.6	304.7	302.8	303.8	303.8	303.8	304.7
35°	471.9	439.4	387.3	351.0	334.2	324.4	322.4	322.4	322.4	321.5	321.5
37.5°	518.1	476.8	417.8	381.4	359.8	348.0	342.1	342.1	342.1	342.1	342.1
40°	572.1	524.0	457.1	413.9	388.3	373.6	365.7	362.7	361.8	360.8	358.8
42.5°	641.9	586.9	502.3	449.3	418.8	403.1	391.3	385.4	381.4	380.4	377.5
45°	735.3	667.5	570.2	501.4	457.1	435.5	421.7	409.9	403.1	401.1	396.2
47.5°	804.1	725.5	617.4	546.6	500.4	472.9	452.2	436.5	426.6	421.7	418.8
50°	875.9	802.2	683.2	595.7	548.5	517.1	490.5	468.9	451.2	444.3	443.4
52.5°	1033.2	934.9	773.7	665.5	597.7	562.3	534.8	509.2	481.7	469.9	472.9
55°	1082.3	980.1	829.7	733.4	663.6	622.3	583.0	549.5	518.1	497.4	498.4
57.5°	1088.2	984.0	841.5	756.0	708.8	675.4	641.0	594.8	556.4	527.9	526.9
60°	1080.4	977.2	838.5	753.0	717.6	707.8	686.2	645.9	590.8	557.4	553.5
62.5°	1142.3	1032.2	870.0	763.8	719.6	715.7	708.8	685.2	629.2	585.9	579.0
65°	1154.1	1039.1	886.7	792.3	751.1	736.3	728.4	700.9	664.5	609.5	604.6
67.5°	1087.3	984.0	841.5	757.0	731.4	736.3	738.3	717.6	677.3	634.1	624.2
70°	1007.6	904.4	781.5	699.9	682.2	692.1	710.8	710.8	681.3	644.9	645.9
72.5°	888.7	805.1	693.1	634.1	616.4	629.2	650.8	667.5	659.6	646.9	647.8
75°	760.9	688.1	595.7	552.5	539.7	555.4	577.1	596.7	608.5	617.4	623.3
77.5°	626.2	572.1	494.5	453.2	453.2	467.9	488.6	506.3	525.9	548.5	552.5
80°	481.7	438.4	381.4	352.9	355.9	367.7	389.3	405.0	416.8	436.5	439.4
82.5°	340.1	314.6	266.4	245.8	250.7	266.4	276.2	287.1	295.9	300.8	306.7
85°	200.5	180.9	159.3	152.4	152.4	158.3	171.1	173.0	174.0	175.0	174.0
87.5°	50.1	55.1	47.2	46.2	46.2	50.1	48.2	52.1	52.1	54.1	50.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)