

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: P198179

Luminaire Tested: **TT-C3-LED-E1-DL-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198179
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5198.8 lumens
Efficiency: N/A
Efficacy: 78.2 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



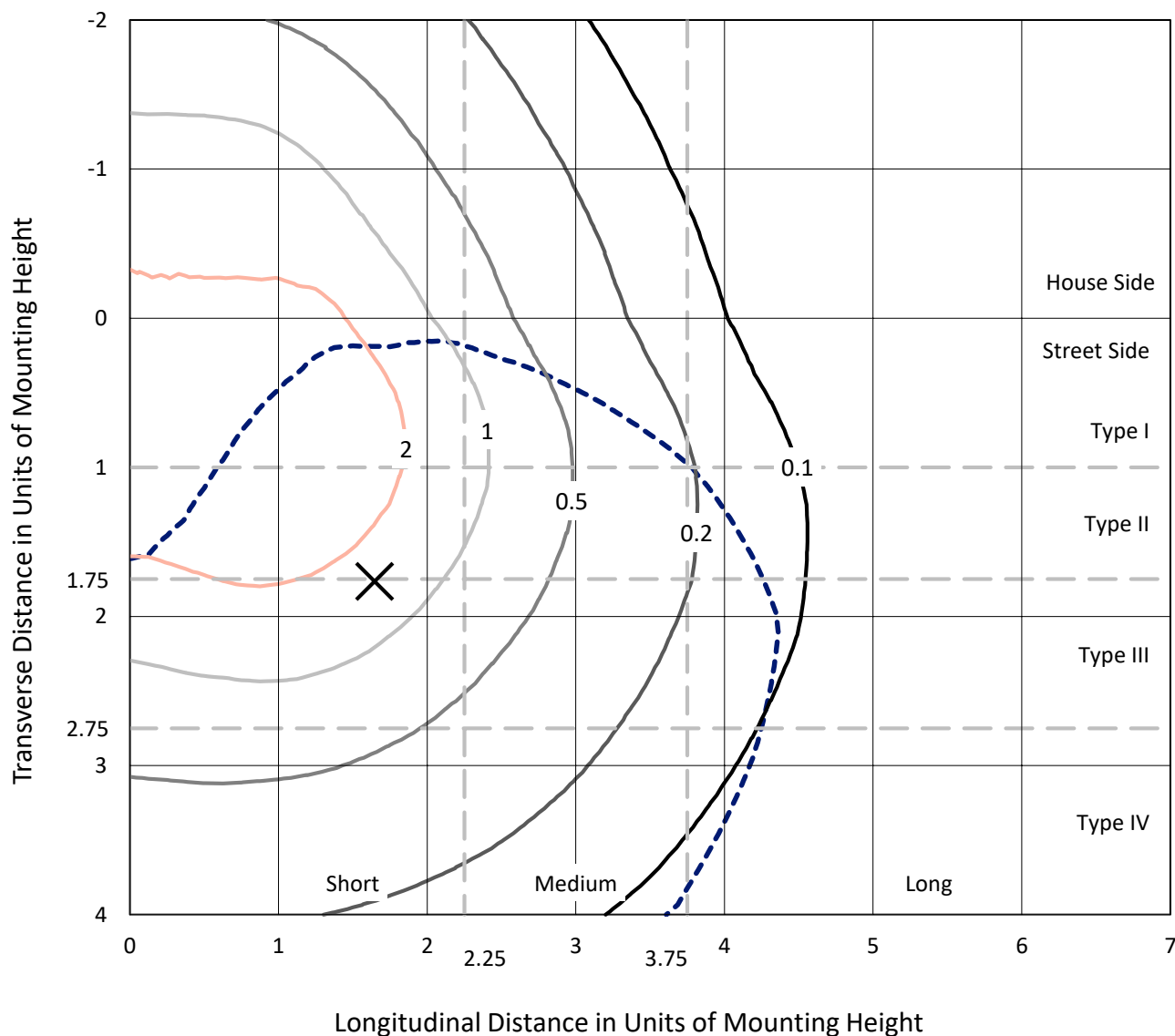
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

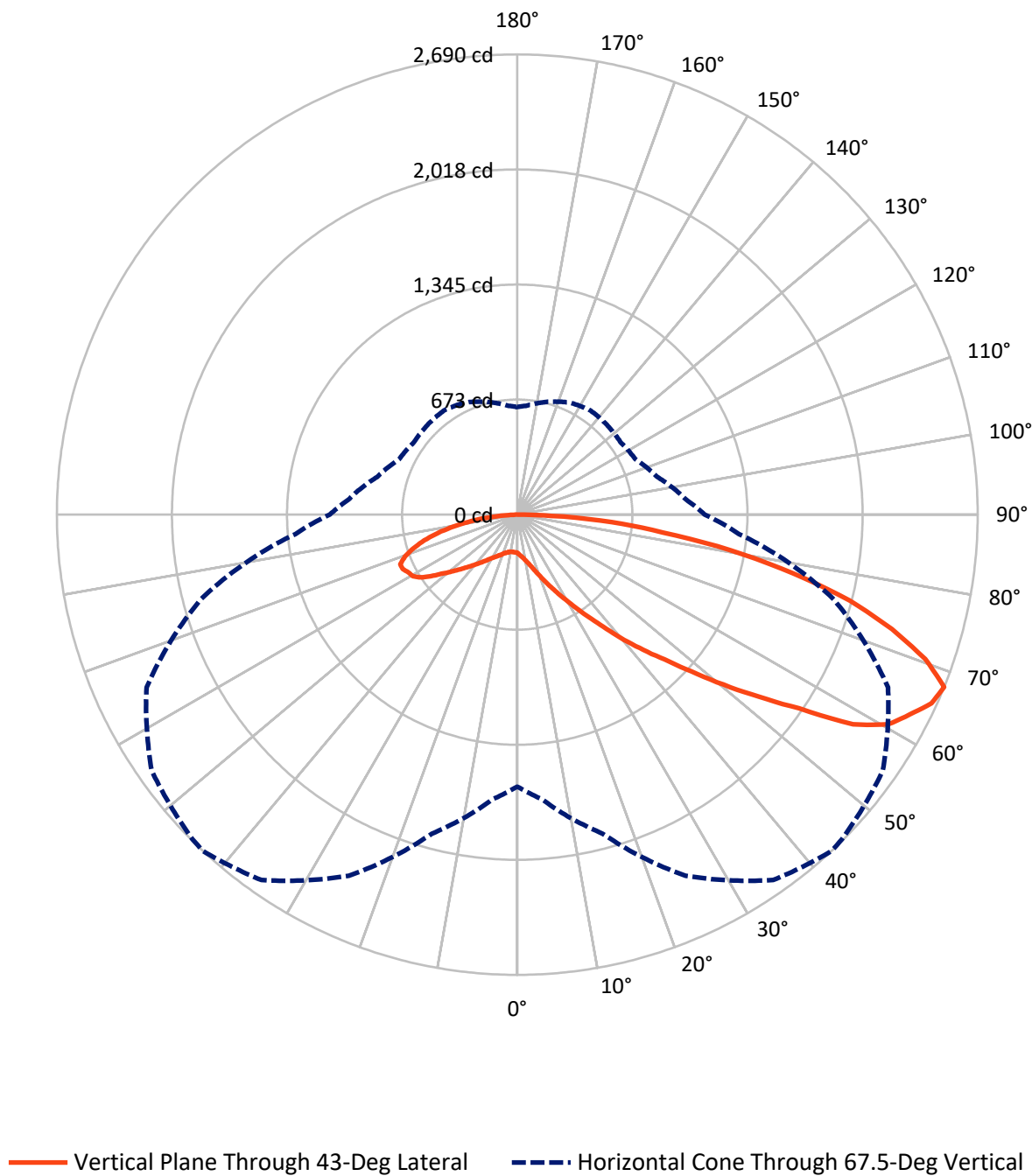


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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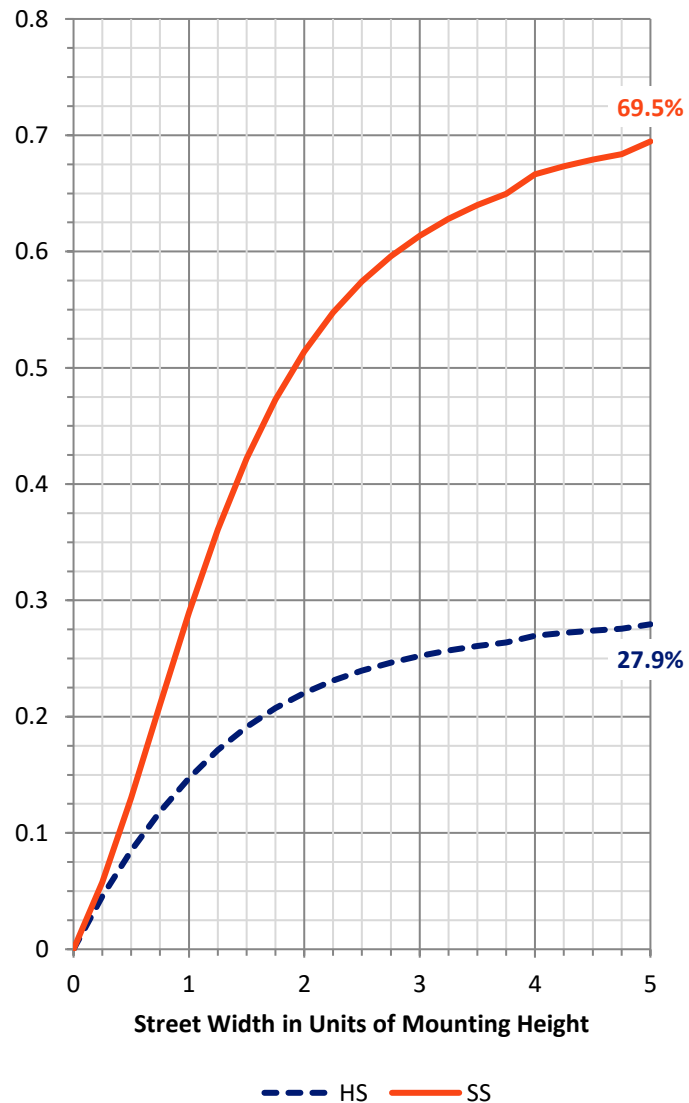
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1484.0	0.0	1484.0
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	3714.8	0.0	3714.8
	% Fixture	71.5	0.0	71.5
Total	Lumens	5198.8	0.0	5198.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.6	0.4
10°-20°	78.8	1.5
20°-30°	170.6	3.3
30°-40°	329.6	6.3
40°-50°	605.0	11.6
50°-60°	1045.0	20.1
60°-70°	1413.1	27.2
70°-80°	1183.4	22.8
80°-90°	350.8	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°	5198.8	100.0
0°-180°	5198.8	100.0

Coefficient of Utilization



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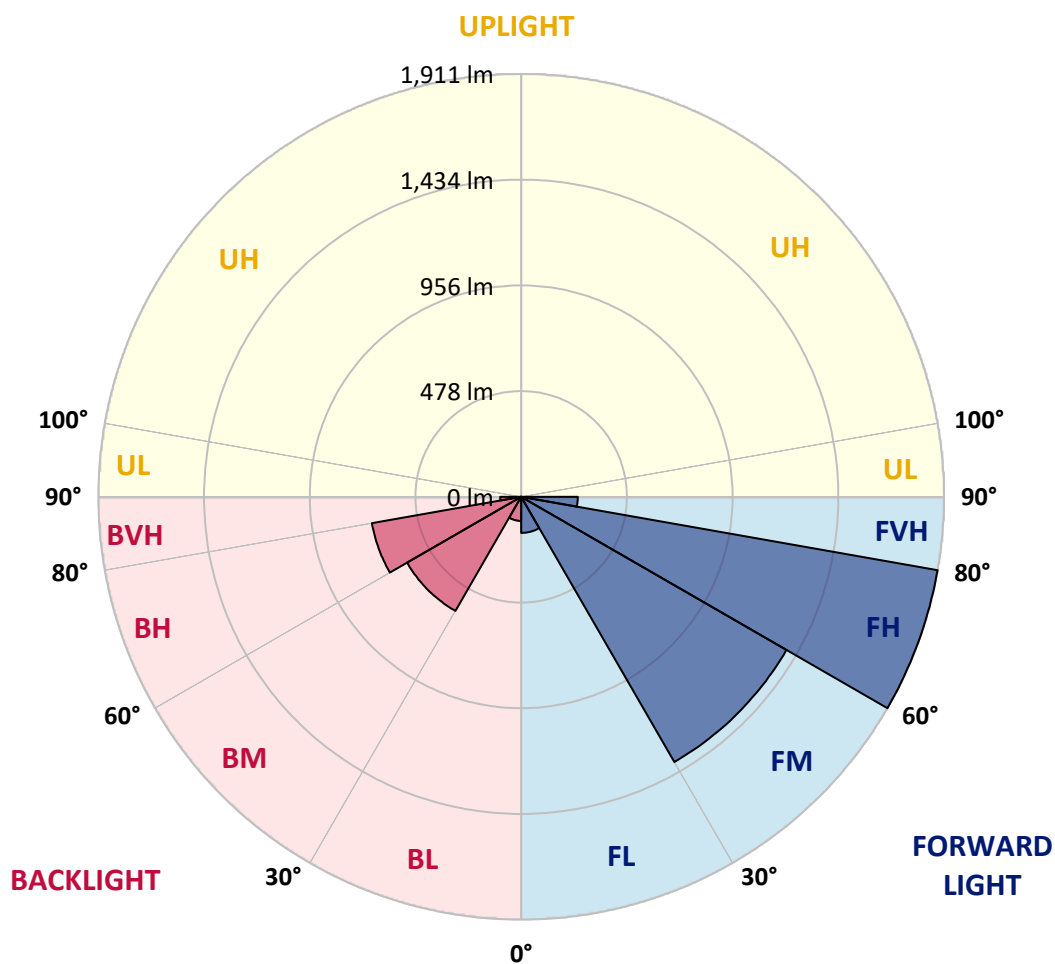
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.2	3.1			
FM	(30°-60°)	1384.3	26.6			
FH	(60°-80°)	1911.5	36.8			G2/5000
FVH	(80°-90°)	255.8	4.9			G3/500
BL	(0°-30°)	108.8	2.1	B0/110		
BM	(30°-60°)	595.3	11.5	B1/1000		
BH	(60°-80°)	685.0	13.2	B2/1000		G2/1000
BVH	(80°-90°)	95.0	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°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9
2.5°	236.7	236.7	235.7	235.7	234.8	233.8	232.8	232.8	230.8	229.8	228.8
5°	249.6	249.6	249.6	247.6	245.7	244.7	244.7	241.7	238.7	235.7	232.8
7.5°	265.5	264.5	264.5	262.5	259.5	256.5	255.6	253.6	248.6	244.7	238.7
10°	283.3	283.3	283.3	279.3	276.4	273.4	271.4	267.4	261.5	254.6	248.6
12.5°	305.1	305.1	306.1	301.1	298.2	292.2	291.2	285.3	277.4	267.4	258.5
15°	329.8	333.8	330.8	330.8	320.9	318.0	316.0	309.0	298.2	285.3	273.4
17.5°	365.5	364.5	360.6	361.5	354.6	349.7	344.7	332.8	320.9	303.1	287.3
20°	406.1	404.1	399.2	397.2	393.2	384.3	382.3	366.5	347.7	328.9	308.1
22.5°	445.7	446.7	444.8	440.8	436.8	429.9	425.9	409.1	382.3	357.6	326.9
25°	485.4	489.3	489.3	492.3	485.4	476.4	473.5	453.7	424.0	386.3	353.6
27.5°	534.9	535.9	538.9	542.8	540.8	532.9	527.0	505.2	468.5	426.9	383.3
30°	584.4	588.4	590.4	598.3	600.3	594.3	588.4	563.6	526.0	471.5	416.0
32.5°	637.9	643.8	647.8	658.7	671.6	667.6	665.6	636.9	592.3	528.9	460.6
35°	698.3	699.3	712.2	737.0	747.9	749.8	744.9	725.1	670.6	595.3	510.1
37.5°	755.8	760.7	782.5	814.2	833.0	845.9	847.9	829.1	768.7	673.6	564.6
40°	819.2	822.1	857.8	891.5	942.0	962.8	957.9	938.0	872.7	763.7	629.0
42.5°	884.6	894.5	928.1	983.6	1046.0	1080.7	1089.6	1065.8	1000.4	870.7	712.2
45°	947.9	963.8	1000.4	1072.8	1165.9	1207.5	1216.4	1228.3	1166.9	1004.4	823.1
47.5°	1017.3	1026.2	1081.7	1177.8	1279.8	1368.9	1394.7	1403.6	1309.5	1130.2	901.4
50°	1089.6	1091.6	1168.8	1299.6	1459.1	1562.1	1564.1	1609.6	1489.8	1289.7	997.5
52.5°	1166.9	1168.8	1260.0	1428.4	1638.4	1767.1	1792.9	1807.7	1746.3	1496.7	1174.8
55°	1243.1	1248.1	1361.0	1602.7	1863.2	1998.9	2059.3	2123.7	1978.1	1657.2	1239.2
57.5°	1323.4	1333.3	1498.7	1792.9	2110.8	2313.9	2344.6	2354.5	2126.7	1721.6	1259.0
60°	1396.7	1418.5	1642.3	1977.1	2319.8	2490.2	2494.2	2436.7	2183.1	1759.2	1260.0
62.5°	1472.9	1500.7	1774.1	2153.4	2480.3	2573.4	2583.3	2491.2	2282.2	1885.0	1347.1
65°	1530.4	1581.9	1873.1	2277.2	2543.7	2659.6	2677.4	2651.7	2437.7	1970.2	1376.8
67.5°	1589.8	1671.0	1930.6	2328.8	2607.1	2690.3	2683.4	2608.1	2390.2	1914.7	1301.6
70°	1665.1	1724.5	1975.1	2310.9	2516.0	2528.8	2528.8	2435.7	2239.6	1803.8	1209.4
72.5°	1694.8	1741.4	1925.6	2168.3	2293.1	2289.1	2271.3	2219.8	2034.6	1633.4	1072.8
75°	1663.1	1669.1	1754.2	1901.8	1995.9	2005.8	1985.0	1912.7	1767.1	1416.5	918.2
77.5°	1491.8	1477.9	1497.7	1571.0	1654.2	1647.3	1644.3	1562.1	1449.2	1168.8	753.8
80°	1174.8	1182.7	1183.7	1197.6	1248.1	1265.9	1247.1	1184.7	1108.4	909.3	583.4
82.5°	807.3	820.2	832.1	814.2	836.0	855.8	852.9	793.4	768.7	637.9	403.1
85°	434.8	465.6	472.5	482.4	530.9	554.7	545.8	501.2	466.5	394.2	243.7
87.5°	88.2	72.3	103.0	146.6	185.2	200.1	224.9	169.4	134.7	99.1	55.5
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°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9
2.5°	227.8	226.8	225.8	223.9	221.9	220.9	219.9	218.9	218.9	218.9	218.9
5°	231.8	230.8	227.8	225.8	222.9	220.9	218.9	217.9	215.9	214.9	215.9
7.5°	236.7	234.8	229.8	225.8	222.9	219.9	217.9	216.9	215.9	214.0	214.0
10°	244.7	241.7	234.8	228.8	224.9	220.9	217.9	216.9	215.9	214.9	214.9
12.5°	255.6	249.6	241.7	234.8	227.8	222.9	220.9	218.9	217.9	217.9	217.9
15°	266.5	261.5	250.6	239.7	232.8	228.8	225.8	222.9	222.9	222.9	222.9
17.5°	281.3	272.4	259.5	247.6	239.7	233.8	231.8	229.8	229.8	230.8	230.8
20°	297.2	287.3	271.4	258.5	248.6	241.7	239.7	238.7	238.7	239.7	239.7
22.5°	315.0	303.1	283.3	268.4	258.5	253.6	249.6	249.6	249.6	250.6	251.6
25°	338.8	321.9	298.2	281.3	269.4	263.5	261.5	261.5	261.5	263.5	263.5
27.5°	363.5	345.7	315.0	294.2	282.3	276.4	273.4	274.4	275.4	276.4	276.4
30°	392.3	371.5	333.8	312.0	297.2	290.2	287.3	288.2	289.2	291.2	289.2
32.5°	427.9	402.2	359.6	330.8	314.0	307.1	305.1	306.1	306.1	306.1	307.1
35°	475.5	442.8	390.3	353.6	336.8	326.9	324.9	324.9	324.9	323.9	323.9
37.5°	522.0	480.4	421.0	384.3	362.5	350.7	344.7	344.7	344.7	344.7	344.7
40°	576.5	528.0	460.6	417.0	391.3	376.4	368.5	365.5	364.5	363.5	361.5
42.5°	646.8	591.4	506.2	452.7	422.0	406.1	394.2	388.3	384.3	383.3	380.4
45°	740.9	672.6	574.5	505.2	460.6	438.8	424.9	413.1	406.1	404.1	399.2
47.5°	810.3	731.0	622.1	550.7	504.2	476.4	455.6	439.8	429.9	424.9	422.0
50°	882.6	808.3	688.4	600.3	552.7	521.0	494.3	472.5	454.7	447.7	446.7
52.5°	1041.1	942.0	779.6	670.6	602.2	566.6	538.9	513.1	485.4	473.5	476.4
55°	1090.6	987.6	836.0	738.9	668.6	627.0	587.4	553.7	522.0	501.2	502.2
57.5°	1096.5	991.5	847.9	761.7	714.2	680.5	645.8	599.3	560.6	531.9	530.9
60°	1088.6	984.6	844.9	758.8	723.1	713.2	691.4	650.8	595.3	561.6	557.7
62.5°	1151.0	1040.1	876.6	769.6	725.1	721.1	714.2	690.4	633.9	590.4	583.4
65°	1162.9	1047.0	893.5	798.4	756.8	741.9	734.0	706.3	669.6	614.1	609.2
67.5°	1095.5	991.5	847.9	762.7	737.0	741.9	743.9	723.1	682.5	638.9	629.0
70°	1015.3	911.3	787.5	705.3	687.4	697.3	716.2	716.2	686.4	649.8	650.8
72.5°	895.4	811.3	698.3	638.9	621.1	633.9	655.7	672.6	664.7	651.8	652.8
75°	766.7	693.4	600.3	556.7	543.8	559.7	581.4	601.3	613.1	622.1	628.0
77.5°	631.0	576.5	498.2	456.6	456.6	471.5	492.3	510.1	529.9	552.7	556.7
80°	485.4	441.8	384.3	355.6	358.6	370.5	392.3	408.1	420.0	439.8	442.8
82.5°	342.7	317.0	268.4	247.6	252.6	268.4	278.3	289.2	298.2	303.1	309.0
85°	202.1	182.3	160.5	153.5	153.5	159.5	172.4	174.3	175.3	176.3	175.3
87.5°	50.5	55.5	47.5	46.6	46.6	50.5	48.5	52.5	52.5	54.5	50.5
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)