Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P198200

Luminaire Tested: **TT-C2-LED-E1-DL-CG-LWR-LW-7060**

Issue Date: 3/3/2020

Report Generated By E9970913

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P198200
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34709)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-C2-LED-E1-DL-CG-LWR-LW-7060
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE
	DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source:	(160) 5700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3303.6 lumens
Efficiency:	N/A
Efficacy:	79.8 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short - Semi-Cutoff
BUG Rating:	B1 - U0 - G1

Input Watts (W):	41.4
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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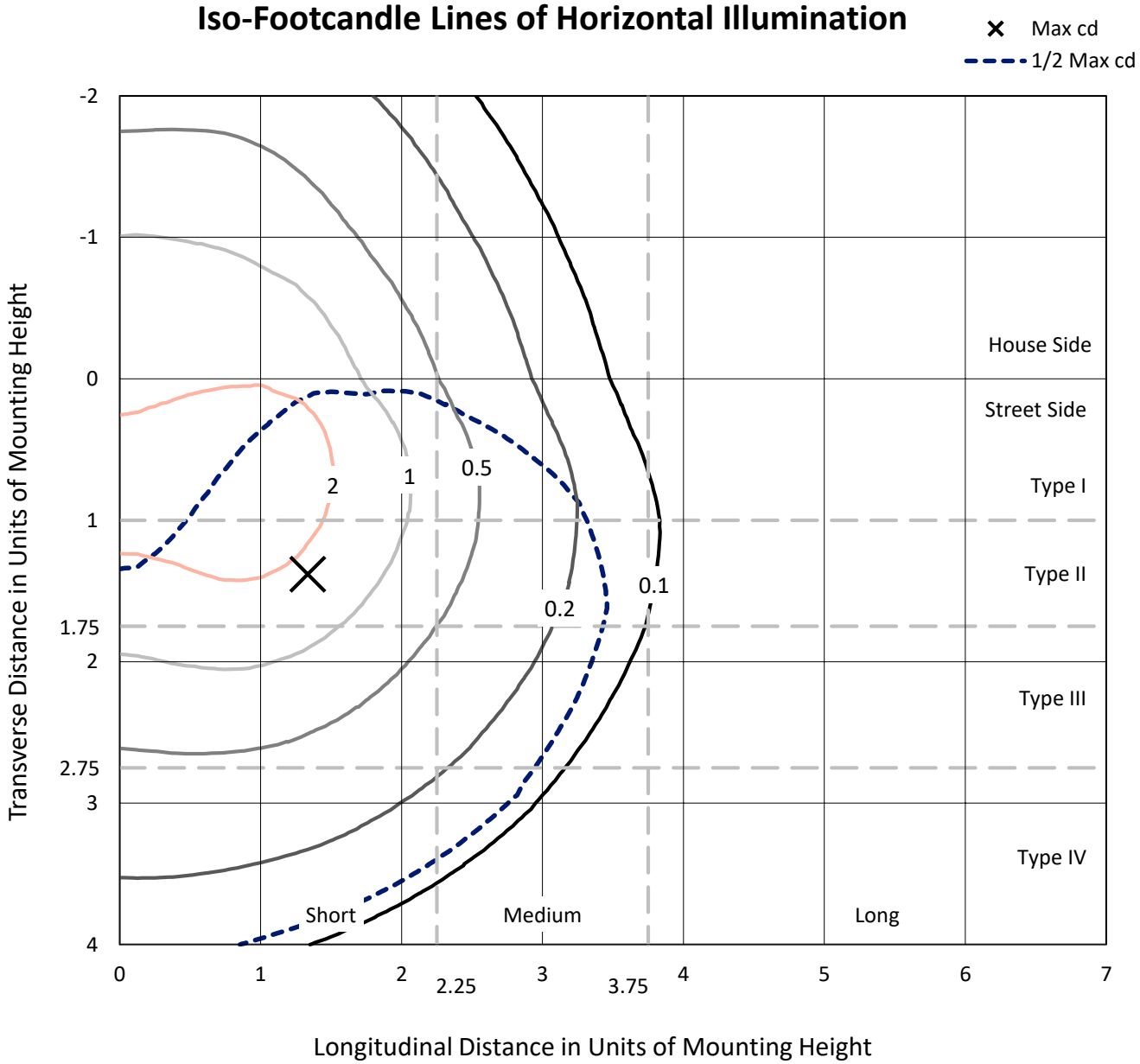
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - Semi-Cutoff

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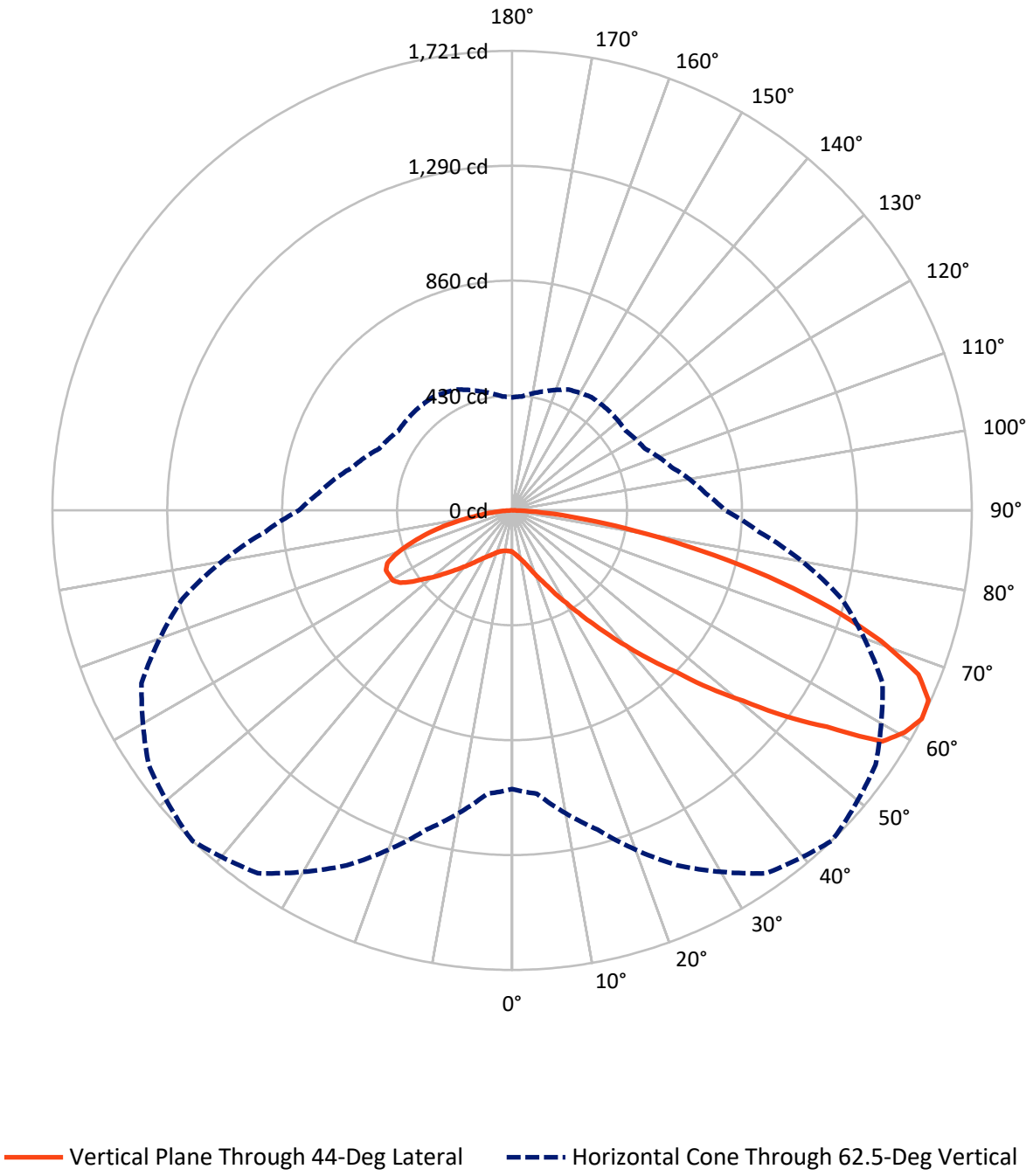
Luminous Intensity Polar Plot



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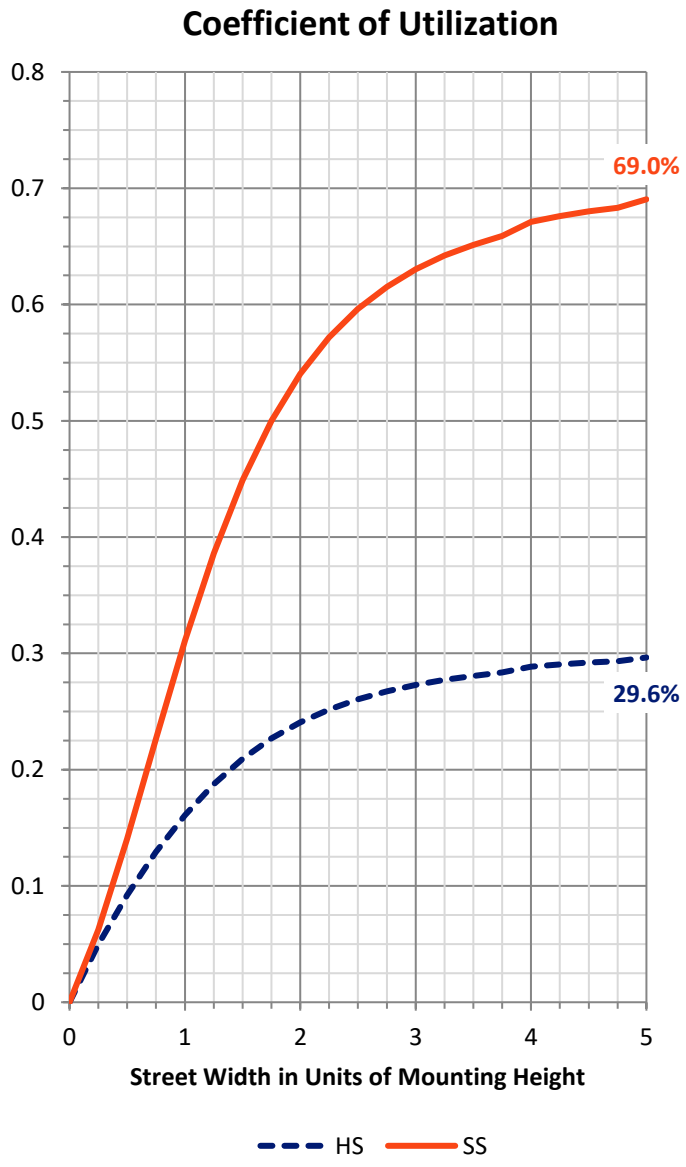
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	992.0	0.0	992.0
	% Fixture	30.0	0.0	30.0
Street Side	Lumens	2311.6	0.0	2311.6
	% Fixture	70.0	0.0	70.0
Total	Lumens	3303.6	0.0	3303.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	0.5
10°-20°	53.8	1.6
20°-30°	116.4	3.5
30°-40°	229.7	7.0
40°-50°	434.4	13.1
50°-60°	746.5	22.6
60°-70°	936.6	28.4
70°-80°	639.7	19.4
80°-90°	130.9	4.0
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°	3303.6	100.0
0°-180°	3303.6	100.0



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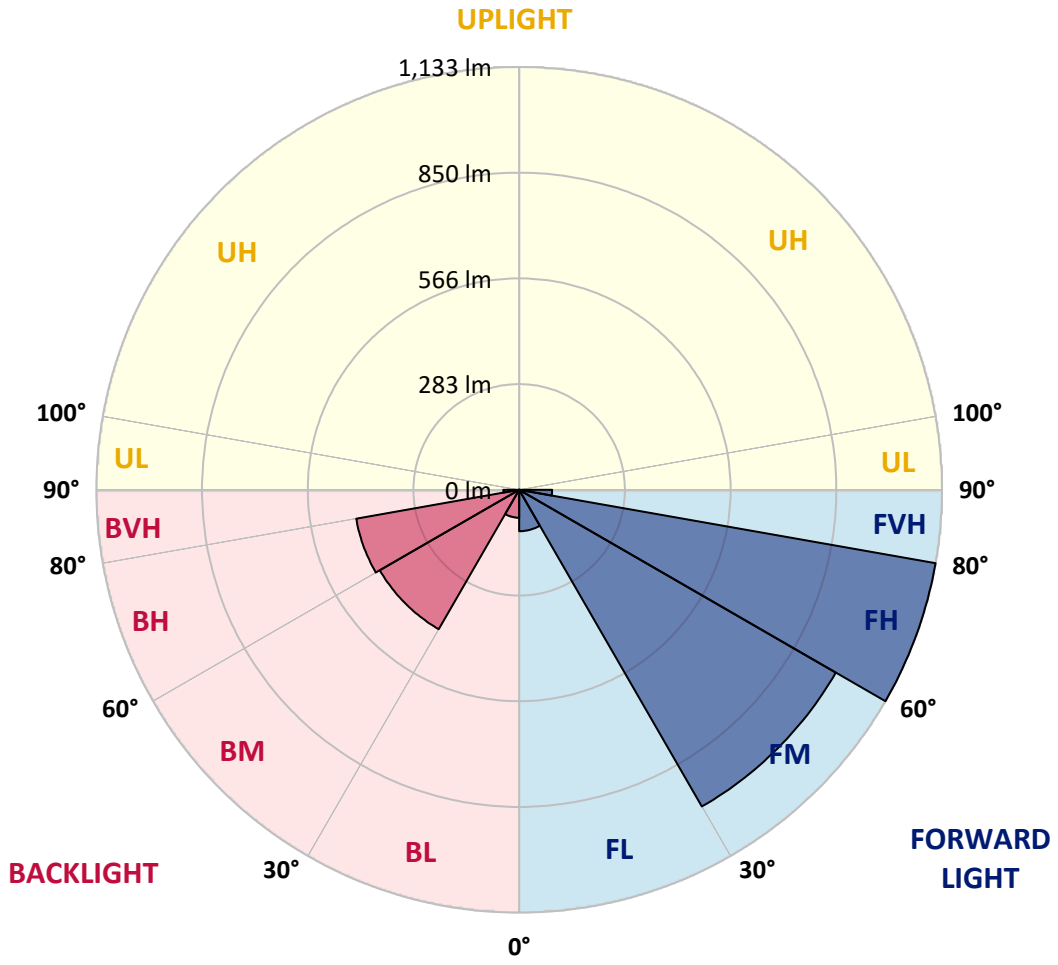
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	110.9	3.4			
FM	(30°-60°)	979.5	29.6			
FH	(60°-80°)	1132.9	34.3			G1/1800
FVH	(80°-90°)	88.4	2.7			G1/100
BL	(0°-30°)	74.9	2.3	B0/110		
BM	(30°-60°)	431.1	13.0	B1/1000		
BH	(60°-80°)	443.4	13.4	B1/500		G1/500
BVH	(80°-90°)	42.5	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	155.1	155.1	155.1	155.1	155.1	*155.1*	155.1	155.1	155.1	155.1	155.1
2.5°	162.7	162.7	162.7	162.7	161.4	*161.4*	161.4	160.7	160.0	158.6	157.9
5°	171.1	171.8	171.1	170.4	169.0	*168.3*	167.6	166.9	164.8	162.7	160.7
7.5°	181.5	180.8	180.8	180.1	178.0	*176.7*	176.7	173.9	171.1	168.3	164.8
10°	192.6	193.3	193.3	191.3	189.9	*187.1*	187.1	182.9	179.4	175.3	171.1
12.5°	206.6	205.9	207.3	205.9	203.8	*198.9*	198.9	195.4	189.2	183.6	178.0
15°	223.9	223.9	224.6	221.9	219.8	*214.9*	216.3	207.3	201.7	195.4	186.4
17.5°	246.2	246.2	244.1	242.7	239.2	*236.5*	233.7	226.0	217.7	207.3	196.8
20°	271.2	271.9	268.5	268.5	264.3	*260.8*	258.7	249.7	237.2	223.3	210.0
22.5°	301.8	300.4	297.7	294.9	292.8	*286.5*	288.6	276.8	260.1	241.3	223.9
25°	326.2	328.3	328.3	330.4	326.9	*319.9*	322.0	307.4	287.9	265.7	241.3
27.5°	356.1	360.3	363.7	367.9	366.5	*361.7*	360.3	347.0	322.0	295.6	262.9
30°	388.8	395.0	397.8	405.5	407.6	*403.4*	402.7	389.5	365.1	325.5	290.0
32.5°	431.2	430.5	438.9	452.1	460.4	*458.3*	457.6	443.0	410.3	368.6	319.9
35°	472.2	473.6	483.4	503.5	516.7	*520.9*	520.2	504.9	472.2	420.1	359.6
37.5°	516.7	518.8	537.6	562.0	583.5	*593.9*	593.9	587.0	543.2	472.9	403.4
40°	560.6	570.3	591.9	623.2	659.3	*676.7*	676.0	664.9	624.5	546.0	449.3
42.5°	613.4	623.2	646.8	691.3	736.5	*769.9*	769.9	766.4	715.7	631.5	516.1
45°	665.6	673.9	703.1	759.5	825.5	*864.5*	869.4	881.9	846.4	728.2	593.2
47.5°	721.2	728.2	765.7	836.7	919.4	*995.2*	1000.1	1009.8	952.8	822.8	653.8
50°	776.9	779.6	834.6	929.9	1047.4	*1119.7*	1135.7	1155.2	1075.9	936.8	721.9
52.5°	840.8	842.2	906.2	1027.9	1174.7	*1280.4*	1283.2	1297.1	1253.3	1076.6	849.2
55°	897.2	899.3	981.3	1137.8	1329.1	*1430.6*	1458.4	1498.8	1391.7	1170.5	886.7
57.5°	949.3	957.7	1070.4	1270.7	1478.6	*1632.3*	1627.4	1625.3	1473.0	1208.1	894.4
60°	1000.1	1015.4	1159.4	1378.5	1588.5	*1687.9*	1693.5	1653.9	1494.6	1223.4	886.7
62.5°	*1043.9*	*1064.8*	*1237.3*	*1466.8*	*1658.7*	*1720.6*	*1717.2*	*1660.8*	*1530.1*	*1276.9*	*928.5*
65°	1075.2	1103.7	1272.7	1504.3	1653.2	*1713.0*	1717.8	1687.9	1560.7	1279.7	916.0
67.5°	1091.2	1131.6	1272.0	1479.3	1611.4	*1640.0*	1642.0	1587.1	1466.8	1211.5	838.1
70°	1095.4	1121.8	1238.0	1387.5	1466.8	*1464.0*	1460.5	1419.5	1304.0	1080.8	744.9
72.5°	1050.2	1073.8	1130.2	1222.0	1254.0	*1247.0*	1233.8	1187.9	1110.0	929.2	635.0
75°	950.7	959.1	961.2	986.9	988.3	*990.4*	975.1	945.2	890.2	751.1	507.0
77.5°	765.7	778.2	751.1	721.9	721.2	*718.4*	715.0	677.4	651.0	563.3	377.0
80°	557.8	552.2	530.0	496.6	474.3	*467.4*	463.2	452.8	436.8	386.0	262.2
82.5°	336.6	342.9	319.9	296.3	284.5	*272.6*	278.9	267.8	259.4	235.8	160.7
85°	150.9	150.9	146.1	139.8	130.1	*130.8*	132.1	128.0	122.4	110.6	77.2
87.5°	29.2	26.4	28.5	29.2	27.1	*27.8*	29.9	31.3	32.7	30.6	23.0
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°	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1
2.5°	157.9	157.2	156.5	155.1	153.7	153.0	152.3	151.6	151.6	150.9	150.9
5°	160.0	159.3	157.9	156.5	155.1	153.0	151.6	150.9	149.5	149.5	149.5
7.5°	163.4	162.0	159.3	157.2	155.1	153.0	151.6	150.2	149.5	148.1	148.1
10°	168.3	166.2	162.7	158.6	155.8	153.7	151.6	150.2	149.5	148.8	148.8
12.5°	175.3	171.8	166.2	162.0	157.9	155.1	153.0	151.6	150.9	150.2	150.2
15°	182.2	178.7	171.8	165.5	160.7	157.9	155.1	154.4	153.0	153.0	153.0
17.5°	192.0	186.4	178.0	171.1	165.5	161.4	159.3	157.2	157.2	157.9	157.9
20°	203.1	196.8	186.4	177.3	171.1	166.9	164.8	163.4	162.7	163.4	164.1
22.5°	216.3	207.3	194.0	185.7	178.7	173.9	171.8	170.4	169.7	171.1	170.4
25°	229.5	220.5	205.2	194.0	185.7	182.2	180.1	179.4	178.0	179.4	178.7
27.5°	251.8	239.2	218.4	203.8	196.1	192.0	189.2	187.8	187.8	187.8	187.1
30°	271.2	256.6	232.3	217.7	206.6	201.7	198.9	198.2	198.2	198.9	198.2
32.5°	298.4	280.3	251.8	232.3	221.9	214.2	211.4	210.7	210.7	210.0	210.7
35°	333.1	311.6	274.0	251.1	237.2	230.2	227.4	226.7	224.6	224.6	224.6
37.5°	370.7	342.2	300.4	275.4	258.0	249.0	244.8	242.0	240.6	239.2	239.2
40°	411.7	379.0	332.4	299.8	281.7	269.8	262.2	258.0	255.9	253.9	252.5
42.5°	465.3	429.1	369.3	329.7	306.7	293.5	282.4	278.2	272.6	270.5	266.4
45°	535.5	489.6	415.2	370.7	337.3	318.5	307.4	298.4	291.4	287.9	284.5
47.5°	590.5	536.2	459.7	406.2	373.5	349.1	333.8	319.2	310.9	304.6	303.2
50°	646.1	589.1	507.0	443.0	406.9	385.3	365.1	347.0	331.7	324.8	326.2
52.5°	753.9	685.1	570.3	493.1	442.3	418.0	397.1	374.9	357.5	346.4	347.0
55°	784.5	714.3	611.3	541.8	493.1	461.1	433.3	408.9	383.9	367.9	368.6
57.5°	782.4	712.9	614.8	555.0	523.0	500.1	474.3	440.9	411.7	390.9	388.1
60°	772.0	701.7	608.5	548.0	524.4	518.8	505.6	475.0	435.4	411.7	406.9
62.5°	*797.7*	*728.2*	*619.7*	*548.0*	*519.5*	*520.2*	*517.4*	*498.7*	*461.1*	*428.4*	*422.9*
65°	786.6	711.5	612.7	552.9	528.6	523.0	521.6	503.5	477.8	440.9	436.1
67.5°	720.5	655.1	565.4	512.6	502.1	507.0	514.0	502.1	476.4	448.6	442.3
70°	632.2	576.6	500.7	454.8	450.0	459.7	475.7	477.1	462.5	440.9	441.6
72.5°	533.4	488.9	424.9	393.6	388.1	397.1	417.3	427.0	427.7	420.1	419.4
75°	428.4	388.1	342.2	315.8	317.1	331.1	346.4	363.0	368.6	373.5	377.6
77.5°	319.2	297.7	258.7	241.3	244.8	260.1	269.8	280.3	292.1	297.7	301.8
80°	223.3	204.5	178.7	168.3	172.5	181.5	189.9	198.9	214.2	214.9	223.3
82.5°	139.8	127.3	114.1	110.6	111.3	114.8	124.5	130.1	137.0	139.1	137.7
85°	68.2	65.4	61.2	59.1	59.8	63.3	69.5	73.7	77.9	77.2	73.0
87.5°	21.6	22.3	23.0	23.6	23.6	25.7	27.8	27.8	29.2	28.5	28.5
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)