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: P197907

Luminaire Tested: **TT-C4-LED-E1-WQ-SG-MS/DIM-7050**

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:	P197907
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-C4-LED-E1-WQ-SG-MS/DIM-7050
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE
	WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source:	(160) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6271.2 lumens
Efficiency:	N/A
Efficacy:	108.1 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type V - Short - Full Cutoff
BUG Rating:	B2 - U0 - G1

Input Watts (W):	58
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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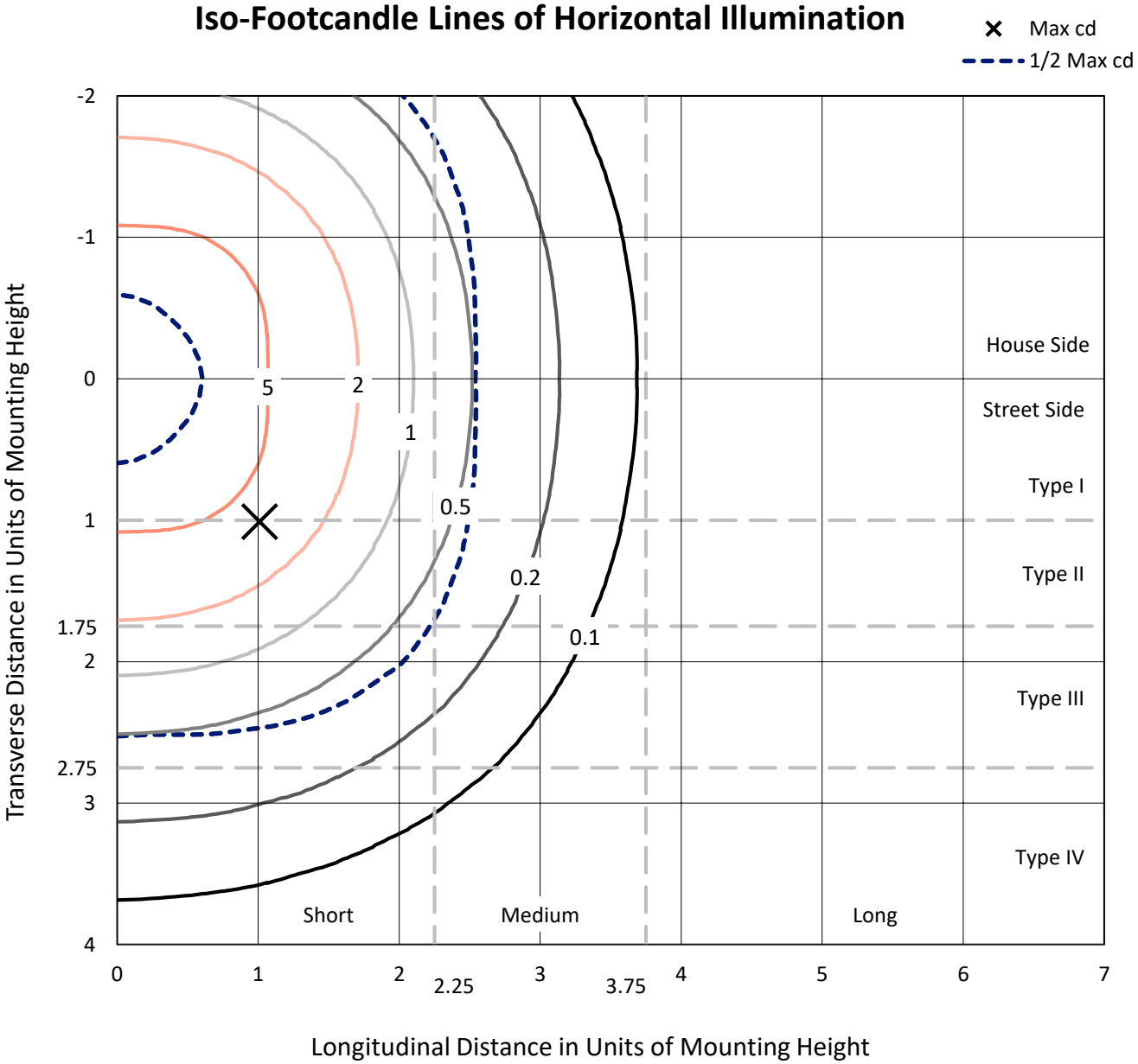
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
Type V - Short - Full Cutoff

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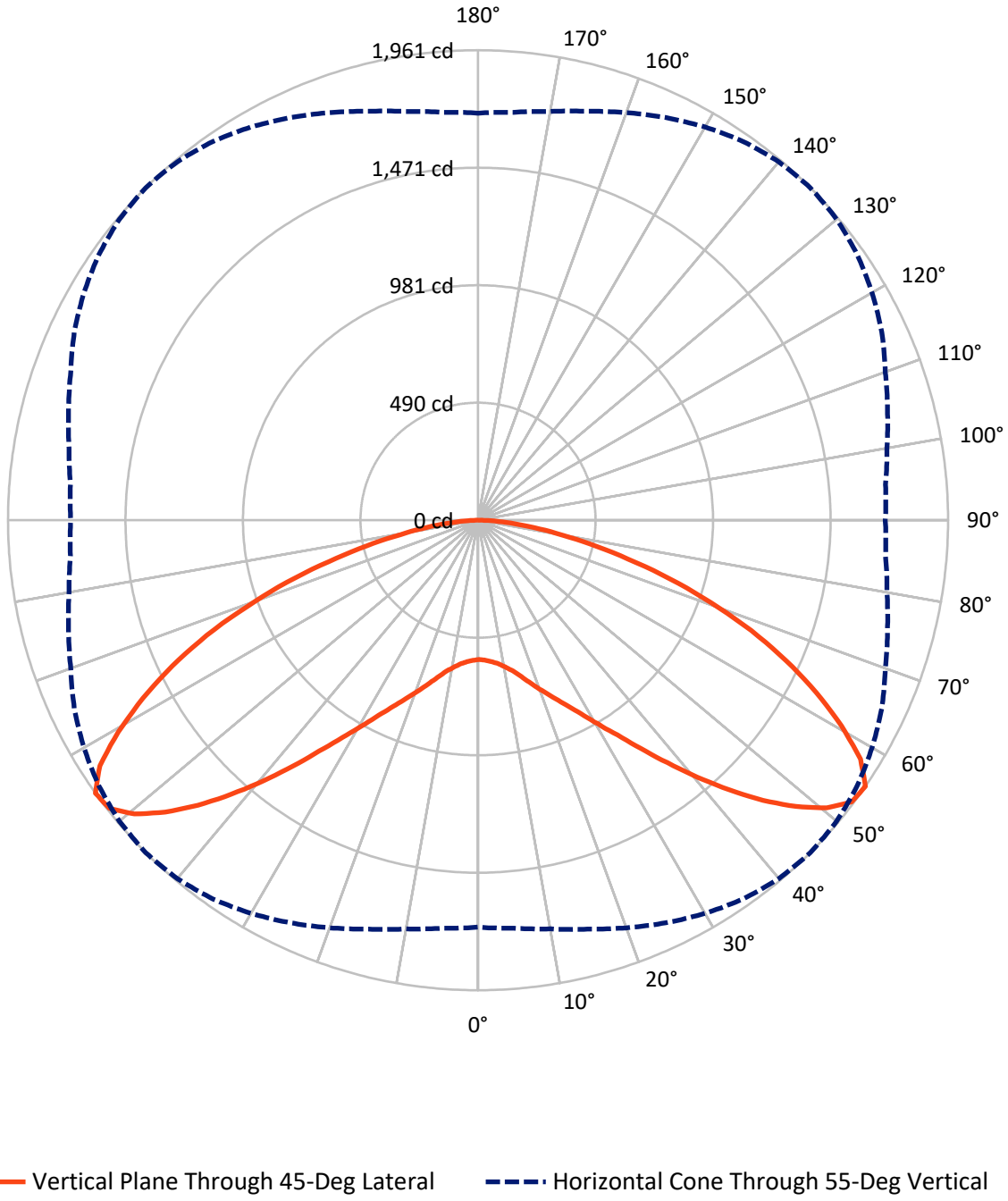
Luminous Intensity Polar Plot



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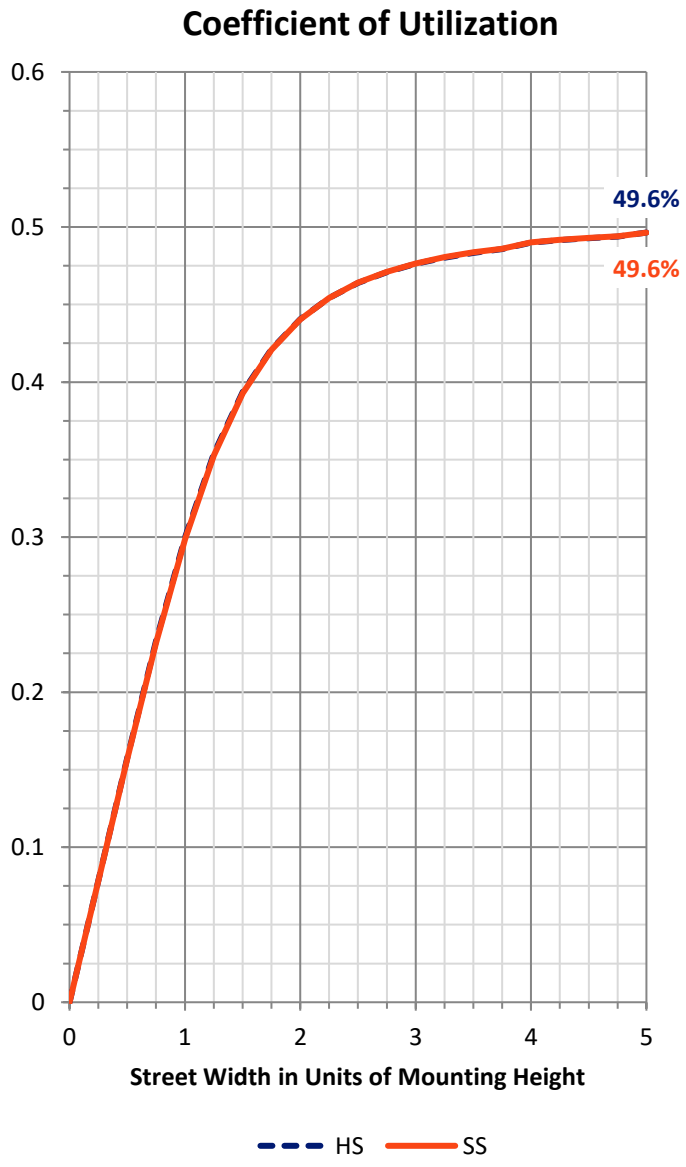
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3135.6	0.0	3135.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3135.6	0.0	3135.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6271.2	0.0	6271.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	0.9
10°-20°	194.7	3.1
20°-30°	396.4	6.3
30°-40°	723.9	11.5
40°-50°	1229.2	19.6
50°-60°	1600.8	25.5
60°-70°	1294.7	20.6
70°-80°	636.2	10.1
80°-90°	137.7	2.2
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°	6271.2	100.0
0°-180°	6271.2	100.0



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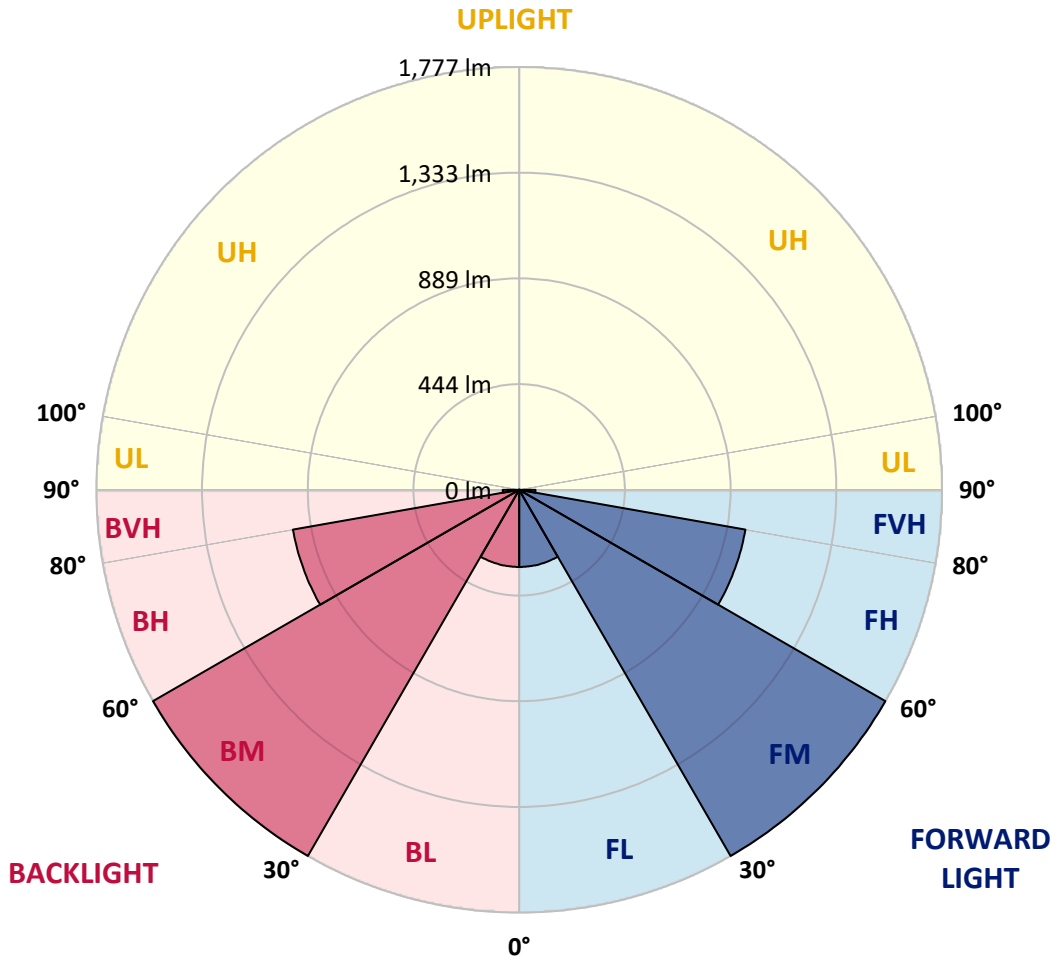
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	324.3	5.2			
FM	(30°-60°)	1777.0	28.3			
FH	(60°-80°)	965.5	15.4			G1/1800
FVH	(80°-90°)	68.9	1.1			G1/100
BL	(0°-30°)	324.3	5.2	B1/500		
BM	(30°-60°)	1777.0	28.3	B2/2500		
BH	(60°-80°)	965.5	15.4	B2/1000		G1/1800
BVH	(80°-90°)	68.9	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	*581.1*	581.1
2.5°	583.6	583.6	583.6	583.6	583.6	583.6	584.9	584.9	584.9	*584.9*	584.9
5°	591.3	591.3	591.3	592.6	592.6	592.6	592.6	592.6	592.6	*592.6*	592.6
7.5°	602.9	601.6	602.9	602.9	602.9	604.2	604.2	602.9	604.2	*604.2*	604.2
10°	619.5	618.2	619.5	619.5	619.5	620.9	620.9	620.9	620.9	*622.2*	622.2
12.5°	643.9	642.6	643.9	645.3	643.9	645.3	645.3	645.3	645.3	*645.3*	645.3
15°	674.8	673.5	674.8	676.0	674.8	677.3	677.3	676.0	676.0	*677.3*	677.3
17.5°	711.9	709.4	710.6	711.9	711.9	714.5	714.5	713.2	714.5	*715.7*	714.5
20°	750.3	747.9	749.2	753.0	753.0	754.3	756.8	755.6	756.8	*758.1*	756.8
22.5°	792.7	791.4	792.7	796.5	796.5	797.8	801.6	801.6	801.6	*803.0*	801.6
25°	838.9	837.6	838.9	842.7	842.7	845.3	850.5	850.5	851.8	*853.1*	851.8
27.5°	892.8	891.5	894.0	898.0	899.3	903.1	909.5	910.8	912.0	*913.3*	910.8
30°	955.7	953.1	956.9	963.3	965.9	971.0	978.8	981.3	982.6	*986.4*	983.9
32.5°	1027.4	1025.0	1030.1	1037.7	1041.6	1049.2	1059.6	1062.1	1065.9	*1068.5*	1064.7
35°	1112.1	1110.9	1116.0	1127.6	1134.0	1142.9	1157.1	1160.9	1163.5	*1168.6*	1163.5
37.5°	1205.8	1204.4	1213.5	1226.4	1237.9	1251.9	1267.3	1273.7	1277.7	*1284.1*	1277.7
40°	1309.7	1308.4	1319.9	1335.4	1349.4	1367.4	1386.7	1395.6	1403.3	*1409.8*	1402.0
42.5°	1416.2	1416.2	1430.2	1446.9	1467.5	1489.3	1511.1	1521.3	1534.2	*1538.0*	1529.0
45°	1518.8	1520.0	1534.2	1554.6	1584.1	1612.4	1636.8	1649.6	1663.7	*1667.6*	1656.0
47.5°	1616.3	1617.6	1630.3	1657.4	1690.7	1722.7	1752.2	1770.2	1784.2	*1785.5*	1776.6
50°	1695.8	1700.9	1717.6	1742.0	1776.6	1809.9	1845.9	1869.0	1883.0	*1887.0*	1877.9
52.5°	1726.6	1735.6	1754.8	1785.5	1825.3	1859.9	1899.7	1929.2	1945.9	*1952.3*	1944.7
55°	*1698.3*	*1708.7*	*1731.7*	*1766.4*	*1809.9*	*1853.5*	*1894.6*	*1929.2*	*1952.3*	*1961.4*	*1953.6*
57.5°	1635.4	1636.8	1659.8	1694.5	1734.2	1779.1	1818.9	1851.0	1872.8	*1881.8*	1880.5
60°	1526.4	1526.4	1548.3	1581.7	1612.4	1658.5	1692.0	1716.3	1731.7	*1742.0*	1739.4
62.5°	1380.3	1380.3	1399.4	1434.0	1464.9	1504.6	1536.8	1562.4	1572.6	*1584.1*	1586.8
65°	1217.3	1217.3	1235.3	1269.9	1298.1	1334.1	1364.8	1389.2	1399.4	*1413.6*	1411.0
67.5°	1044.1	1042.9	1059.6	1089.0	1116.0	1149.3	1178.9	1201.9	1213.5	*1230.2*	1218.6
70°	865.8	865.8	880.0	903.1	922.2	955.7	983.9	1007.0	1015.9	*1030.1*	1023.6
72.5°	696.6	695.2	706.8	724.8	740.1	769.6	786.3	812.0	819.6	*838.9*	828.7
75°	543.8	541.3	550.3	563.1	573.4	592.6	605.5	626.0	632.4	*645.3*	640.1
77.5°	409.2	407.9	411.7	420.8	428.4	443.9	449.0	459.2	464.3	*477.2*	467.0
80°	293.8	290.0	293.8	298.9	301.5	313.0	314.2	318.2	320.7	*329.7*	319.3
82.5°	197.6	192.5	195.0	198.8	198.8	205.2	206.5	205.2	210.3	*212.9*	207.8
85°	112.8	109.0	110.3	112.8	111.7	115.5	115.5	114.1	118.0	*118.0*	115.5
87.5°	37.3	34.6	35.9	37.3	37.3	38.4	39.8	38.4	41.1	*41.1*	38.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	584.9	584.9	584.9	584.9	584.9	584.9	584.9	584.9
5°	592.6	592.6	592.6	592.6	592.6	591.3	591.3	591.3
7.5°	604.2	604.2	604.2	604.2	604.2	602.9	602.9	602.9
10°	622.2	620.9	620.9	620.9	620.9	619.5	620.9	619.5
12.5°	645.3	646.4	646.4	645.3	646.4	643.9	643.9	643.9
15°	677.3	676.0	676.0	676.0	676.0	674.8	674.8	674.8
17.5°	713.2	713.2	711.9	711.9	710.6	709.4	709.4	709.4
20°	755.6	754.3	753.0	751.7	750.3	747.9	746.5	746.5
22.5°	799.2	797.8	796.5	795.4	794.0	791.4	788.9	788.9
25°	847.8	845.3	844.0	841.5	838.9	836.3	835.1	833.8
27.5°	906.9	904.4	900.4	896.6	891.5	890.2	887.7	887.7
30°	977.5	973.7	968.4	962.1	956.9	951.7	949.3	947.9
32.5°	1059.6	1054.5	1045.4	1037.7	1028.8	1023.6	1019.8	1017.2
35°	1155.8	1148.0	1137.8	1126.2	1114.7	1105.8	1099.3	1099.3
37.5°	1268.6	1257.1	1241.7	1227.5	1210.9	1200.6	1192.9	1187.8
40°	1391.8	1375.1	1355.9	1337.9	1318.7	1304.5	1293.0	1294.3
42.5°	1513.7	1499.5	1476.4	1454.6	1430.2	1411.0	1396.9	1395.6
45°	1641.9	1623.9	1595.7	1567.5	1539.3	1516.2	1499.5	1496.9
47.5°	1761.1	1742.0	1708.7	1674.0	1643.2	1617.6	1599.6	1597.0
50°	1858.8	1835.7	1801.0	1763.8	1730.4	1702.2	1682.9	1677.8
52.5°	1921.6	1895.9	1858.8	1813.7	1777.9	1745.8	1722.7	1716.3
55°	*1931.8*	*1898.5*	*1858.8*	*1808.6*	*1768.9*	*1732.9*	*1707.3*	*1699.6*
57.5°	1861.2	1825.3	1789.5	1745.8	1706.0	1667.6	1647.0	1636.8
60°	1724.0	1695.8	1666.3	1626.5	1594.5	1558.6	1541.9	1536.8
62.5°	1566.2	1541.9	1514.9	1473.9	1446.9	1414.9	1399.4	1393.1
65°	1396.9	1368.7	1343.0	1309.7	1280.1	1253.2	1231.5	1228.8
67.5°	1209.6	1180.2	1158.3	1128.9	1099.3	1073.6	1059.6	1051.9
70°	1012.1	987.7	965.9	933.8	914.6	890.2	880.0	872.2
72.5°	815.8	801.6	774.8	754.3	732.5	713.2	706.8	699.0
75°	631.1	614.4	594.0	581.1	564.4	554.2	549.0	543.8
77.5°	463.0	449.0	437.4	432.3	424.6	414.3	410.5	406.6
80°	320.7	314.2	306.6	305.3	300.2	292.5	291.1	290.0
82.5°	207.8	204.0	201.4	201.4	198.8	193.7	192.5	192.5
85°	115.5	114.1	115.5	114.1	111.7	109.0	109.0	109.0
87.5°	38.4	38.4	39.8	41.1	37.3	37.3	35.9	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)