

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: P197885

Luminaire Tested: **TT-C5-LED-E1-WQ-SG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
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-WQ-SG-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5862.5 lumens
Efficiency: N/A
Efficacy: 76.1 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): 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

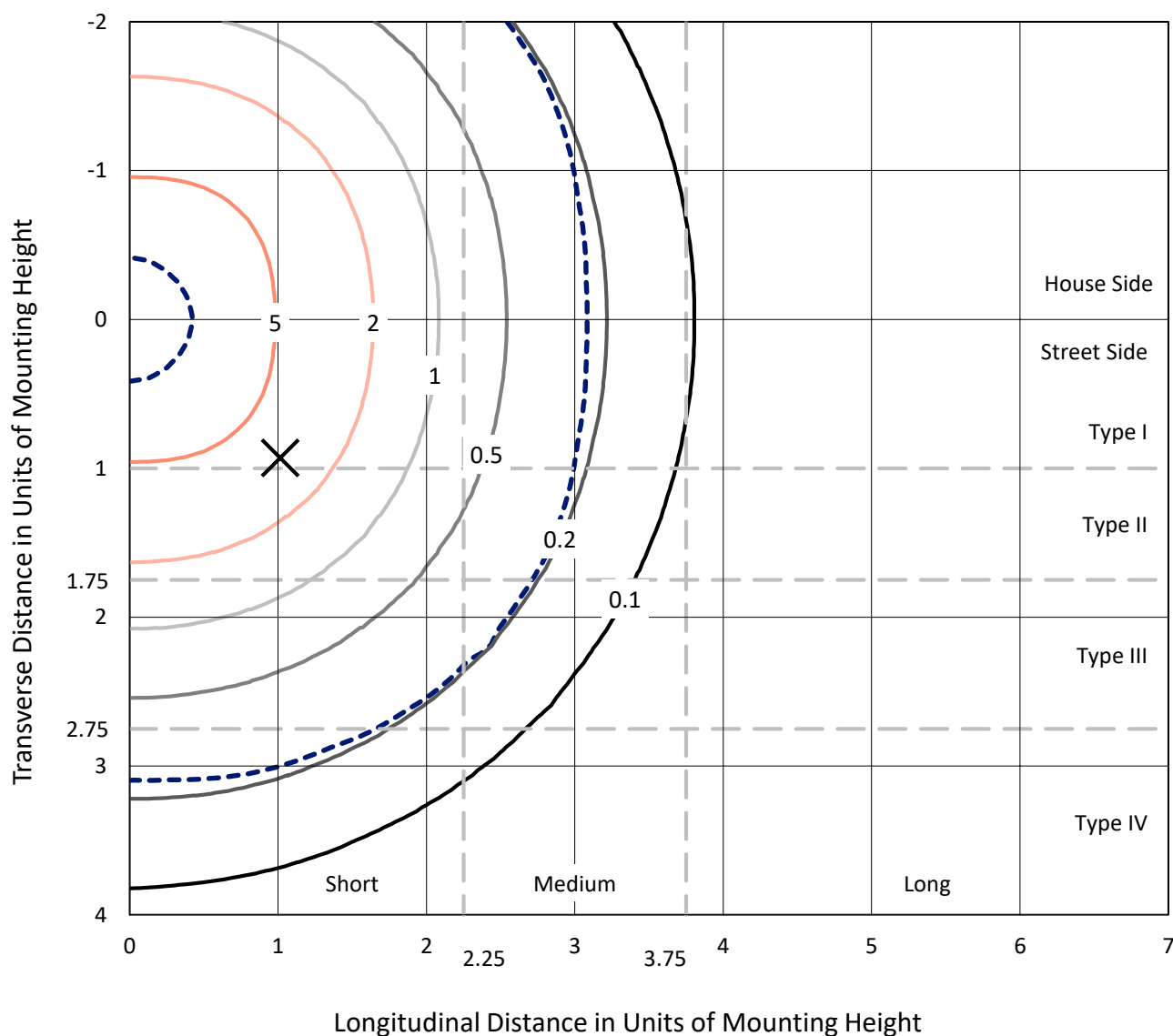


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

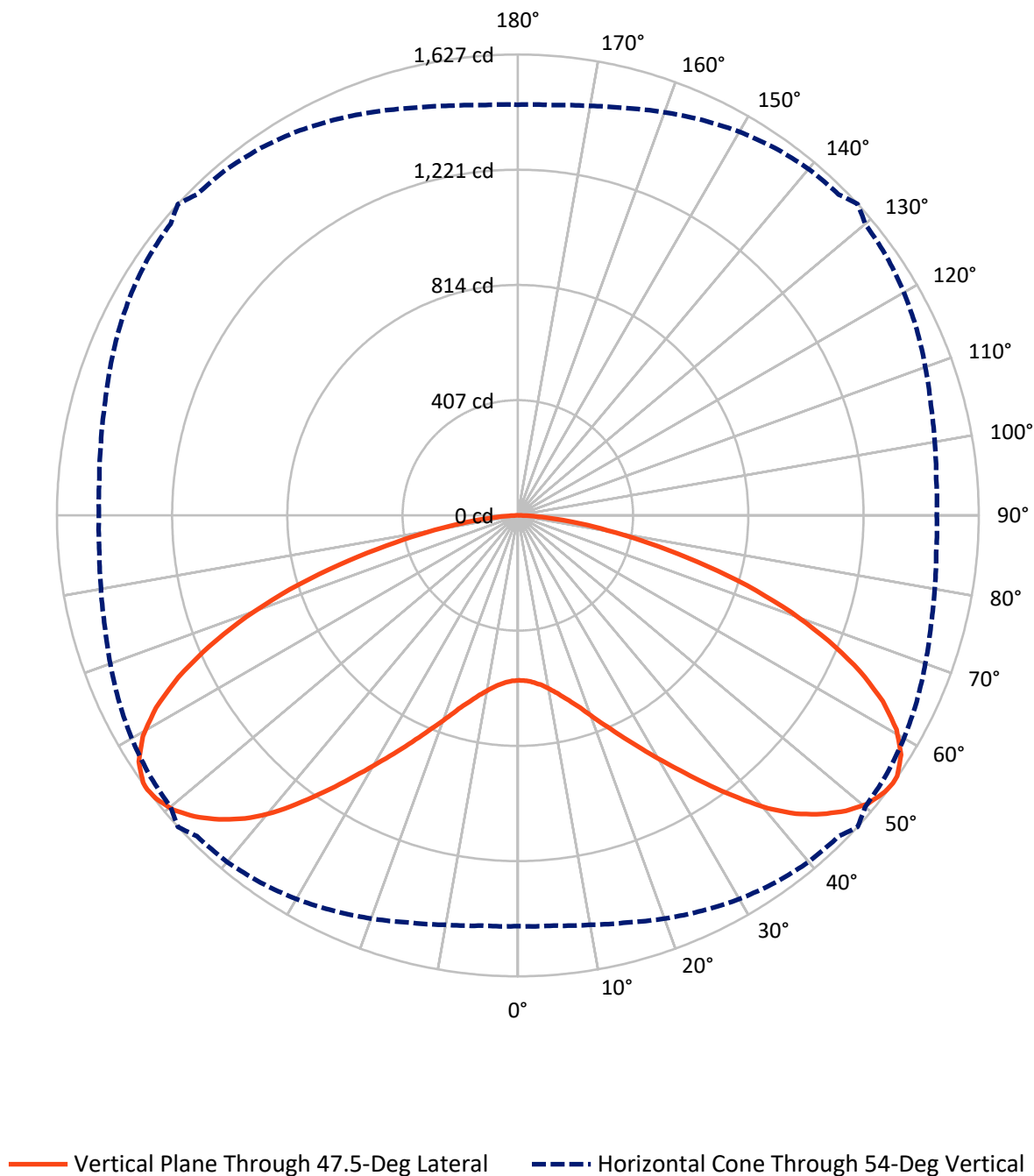


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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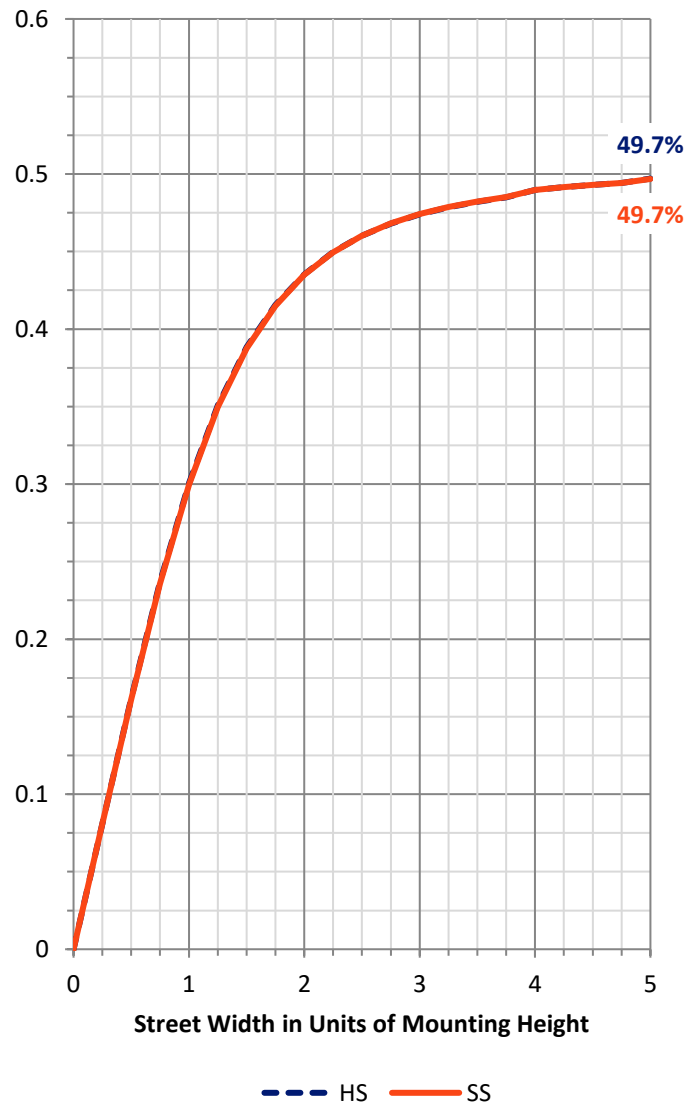
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2931.2	0.0	2931.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2931.2	0.0	2931.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5862.5	0.0	5862.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.0
10°-20°	194.8	3.3
20°-30°	401.1	6.8
30°-40°	717.3	12.2
40°-50°	1100.6	18.8
50°-60°	1356.9	23.1
60°-70°	1227.6	20.9
70°-80°	675.9	11.5
80°-90°	130.7	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°	5862.5	100.0
0°-180°	5862.5	100.0

Coefficient of Utilization



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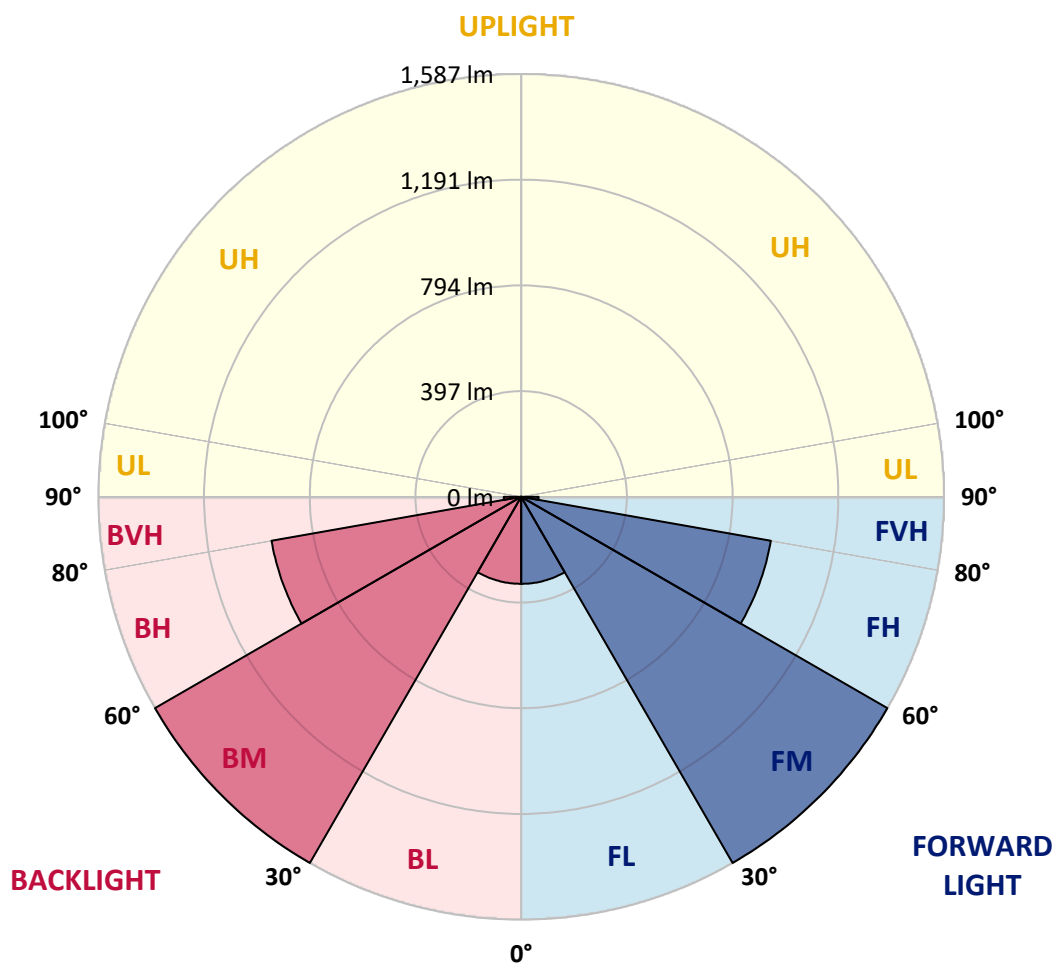
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.7	5.6			
FM	(30°-60°)	1587.4	27.1			
FH	(60°-80°)	951.8	16.2			G1/1800
FVH	(80°-90°)	65.4	1.1			G1/100
BL	(0°-30°)	326.7	5.6	B1/500		
BM	(30°-60°)	1587.4	27.1	B2/2500		
BH	(60°-80°)	951.8	16.2	B2/1000		G1/1800
BVH	(80°-90°)	65.4	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°	47.5°
0°	582.1	582.1	582.1	582.1	582.1	582.1	582.1	582.1	582.1	582.1	582.1
2.5°	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6
5°	592.2	592.2	592.2	593.5	592.2	592.2	592.2	592.2	592.2	592.2	592.2
7.5°	604.9	604.9	604.9	604.9	604.9	604.9	603.6	603.6	604.9	603.6	604.9
10°	622.6	621.3	621.3	622.6	622.6	621.3	622.6	622.6	622.6	622.6	623.9
12.5°	645.4	645.4	646.6	646.6	646.6	647.9	647.9	646.6	647.9	647.9	647.9
15°	675.8	675.8	675.8	675.8	677.0	678.3	677.0	677.0	675.8	675.8	678.3
17.5°	711.2	711.2	711.2	711.2	713.7	713.7	712.4	713.7	715.0	715.0	713.7
20°	754.2	752.9	751.7	752.9	755.5	755.5	756.7	758.0	758.0	758.0	760.5
22.5°	799.8	798.5	801.0	802.3	803.6	804.8	804.8	806.1	808.6	807.4	811.2
25°	850.4	849.1	850.4	852.9	858.0	858.0	859.2	861.8	861.8	860.5	869.4
27.5°	907.3	907.3	908.6	913.7	914.9	916.2	920.0	922.5	926.3	926.3	933.9
30°	969.3	968.1	970.6	975.7	979.5	983.3	988.3	994.6	995.9	997.2	1004.8
32.5°	1032.6	1032.6	1035.1	1044.0	1050.3	1056.7	1064.2	1070.6	1073.1	1073.1	1084.5
35°	1099.7	1100.9	1107.3	1113.6	1126.3	1133.8	1141.4	1150.3	1155.4	1157.9	1173.1
37.5°	1170.5	1174.3	1179.4	1188.3	1200.9	1213.6	1225.0	1238.9	1246.5	1249.0	1265.5
40°	1237.6	1242.7	1250.3	1262.9	1275.6	1293.3	1307.2	1321.1	1330.0	1335.1	1360.4
42.5°	1303.4	1305.9	1314.8	1328.7	1345.2	1361.6	1380.6	1395.8	1404.7	1412.2	1440.1
45°	1355.3	1357.8	1369.2	1385.7	1404.7	1424.9	1443.9	1461.6	1470.5	1476.8	1504.6
47.5°	1398.3	1403.4	1416.0	1432.5	1451.5	1475.5	1497.0	1514.7	1526.1	1529.9	1559.0
50°	1430.0	1437.6	1448.9	1467.9	1490.7	1514.7	1537.5	1556.5	1569.2	1574.2	1600.8
52.5°	1447.7	1454.0	1466.7	1485.6	1512.2	1536.3	1560.3	1579.3	1593.2	1598.3	1622.3
54°	1450.2	1454.0	1467.9	1488.2	1514.7	1540.1	1564.1	1583.1	1597.0	1602.1	1627.4
55°	1447.7	1450.2	1465.4	1484.4	1512.2	1537.5	1561.6	1580.5	1595.7	1600.8	1624.8
57.5°	1422.4	1426.2	1438.8	1459.1	1484.4	1513.5	1536.3	1555.2	1570.4	1573.0	1595.7
60°	1370.5	1375.5	1386.9	1408.4	1433.8	1459.1	1481.8	1498.3	1512.2	1519.8	1536.3
62.5°	1295.8	1298.4	1309.7	1328.7	1351.5	1378.1	1395.8	1412.2	1424.9	1432.5	1446.4
65°	1189.5	1200.9	1209.8	1225.0	1242.7	1264.2	1287.0	1299.6	1305.9	1318.6	1328.7
67.5°	1070.6	1078.2	1087.0	1100.9	1112.3	1126.3	1147.8	1159.2	1166.7	1175.6	1184.5
70°	937.7	935.2	945.3	952.9	965.5	974.4	988.3	994.6	1003.5	1008.6	1023.7
72.5°	779.5	783.3	792.2	801.0	804.8	807.4	818.7	822.5	830.1	827.6	846.6
75°	636.5	630.2	632.7	634.0	636.5	634.0	641.6	645.4	649.2	645.4	655.5
77.5°	480.9	473.3	475.8	474.5	474.5	472.0	470.7	470.7	472.0	469.5	475.8
80°	331.5	327.8	329.0	331.5	325.2	326.5	318.9	318.9	318.9	318.9	321.4
82.5°	205.0	199.9	198.7	199.9	199.9	196.1	197.4	192.3	191.1	189.8	201.2
85°	100.0	97.4	100.0	97.4	96.2	96.2	93.6	94.9	92.4	91.1	98.7
87.5°	26.6	25.3	25.3	25.3	24.0	25.3	25.3	25.3	25.3	26.6	30.4
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	582.1	582.1	582.1	582.1	582.1	582.1	582.1	582.1	582.1
2.5°	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	583.4
5°	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2
7.5°	604.9	604.9	603.6	603.6	603.6	603.6	603.6	603.6	603.6
10°	622.6	623.9	621.3	621.3	622.6	621.3	621.3	620.1	620.1
12.5°	647.9	646.6	647.9	647.9	646.6	645.4	644.1	642.8	644.1
15°	677.0	675.8	675.8	675.8	674.5	674.5	673.2	674.5	673.2
17.5°	712.4	712.4	713.7	709.9	711.2	708.7	708.7	708.7	707.4
20°	758.0	756.7	755.5	751.7	752.9	750.4	749.1	747.9	746.6
22.5°	807.4	804.8	803.6	799.8	801.0	798.5	794.7	792.2	792.2
25°	861.8	859.2	856.7	855.4	854.2	849.1	846.6	842.8	845.3
27.5°	926.3	921.2	917.5	912.4	913.7	907.3	904.8	902.3	902.3
30°	995.9	992.1	985.8	982.0	980.7	974.4	969.3	966.8	965.5
32.5°	1071.8	1069.3	1065.5	1059.2	1056.7	1046.5	1042.7	1038.9	1037.7
35°	1161.7	1155.4	1151.6	1142.7	1133.8	1127.5	1118.7	1116.1	1113.6
37.5°	1245.2	1245.2	1238.9	1228.8	1216.1	1207.2	1199.6	1194.6	1190.8
40°	1333.8	1331.3	1321.1	1312.3	1299.6	1287.0	1273.0	1268.0	1265.5
42.5°	1412.2	1407.2	1397.1	1385.7	1373.0	1357.8	1342.6	1335.1	1333.8
45°	1478.0	1471.7	1461.6	1446.4	1430.0	1414.8	1400.9	1393.3	1389.5
47.5°	1531.2	1523.6	1510.9	1497.0	1478.0	1460.3	1446.4	1438.8	1433.8
50°	1570.4	1564.1	1550.2	1532.5	1513.5	1493.2	1479.3	1470.5	1466.7
52.5°	1595.7	1586.9	1571.7	1552.7	1531.2	1510.9	1494.5	1484.4	1480.6
54°	1600.8	1590.7	1574.2	1554.0	1531.2	1509.7	1494.5	1483.1	1479.3
55°	1598.3	1588.1	1570.4	1551.4	1527.4	1505.9	1489.4	1478.0	1474.3
57.5°	1571.7	1560.3	1543.9	1523.6	1498.3	1476.8	1461.6	1448.9	1445.1
60°	1514.7	1504.6	1485.6	1467.9	1442.6	1421.1	1404.7	1392.0	1388.2
62.5°	1427.4	1418.6	1402.1	1384.4	1357.8	1338.8	1322.4	1314.8	1304.7
65°	1311.0	1304.7	1288.2	1266.7	1247.7	1228.8	1212.3	1207.2	1200.9
67.5°	1171.8	1162.9	1156.6	1135.1	1119.9	1102.2	1085.8	1075.6	1073.1
70°	1007.3	1003.5	997.2	976.9	968.1	952.9	941.5	932.6	930.1
72.5°	830.1	826.3	825.1	815.0	803.6	789.6	784.6	777.0	775.7
75°	645.4	642.8	645.4	637.8	634.0	630.2	627.7	627.7	623.9
77.5°	467.0	470.7	472.0	472.0	474.5	474.5	477.1	473.3	469.5
80°	317.6	321.4	320.2	322.7	321.4	330.3	324.0	329.0	324.0
82.5°	191.1	196.1	196.1	196.1	201.2	199.9	199.9	202.5	201.2
85°	93.6	94.9	93.6	92.4	98.7	97.4	97.4	96.2	97.4
87.5°	27.8	25.3	26.6	24.0	26.6	22.8	25.3	25.3	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)