

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: P197670

Luminaire Tested: **TT-C5-LED-E1-MQ-CG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115378)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-MQ-CG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7612.5 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

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



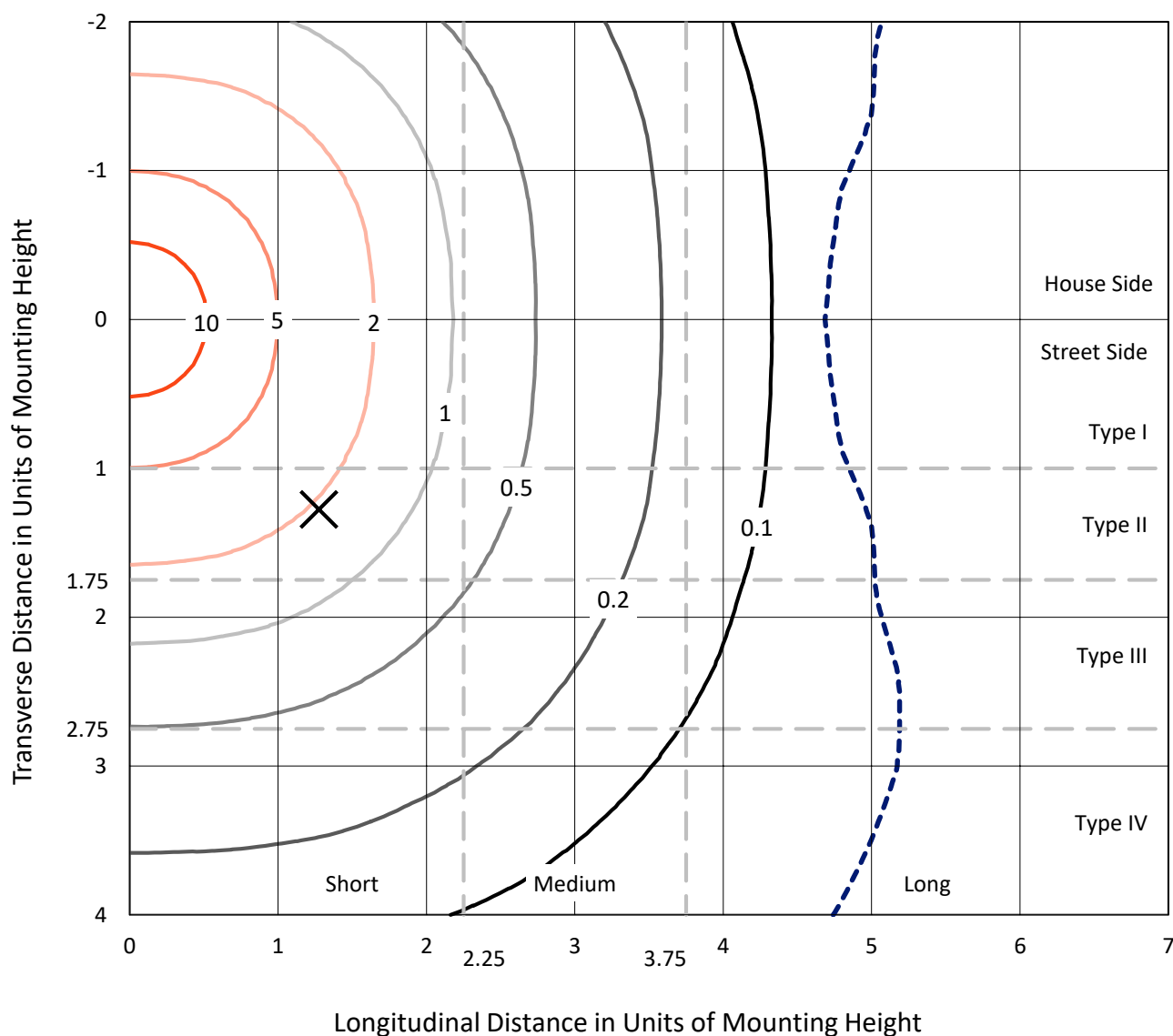
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

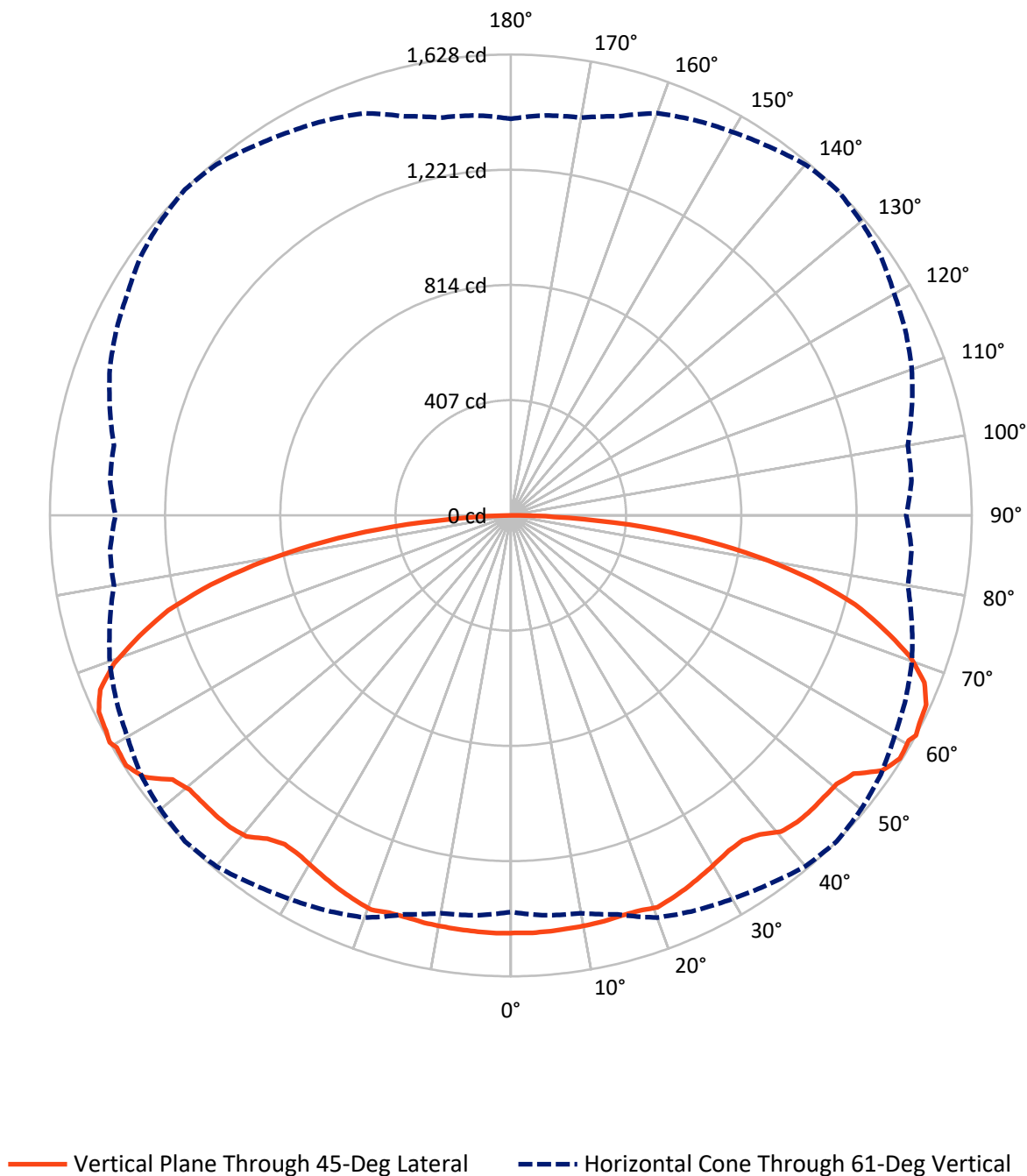


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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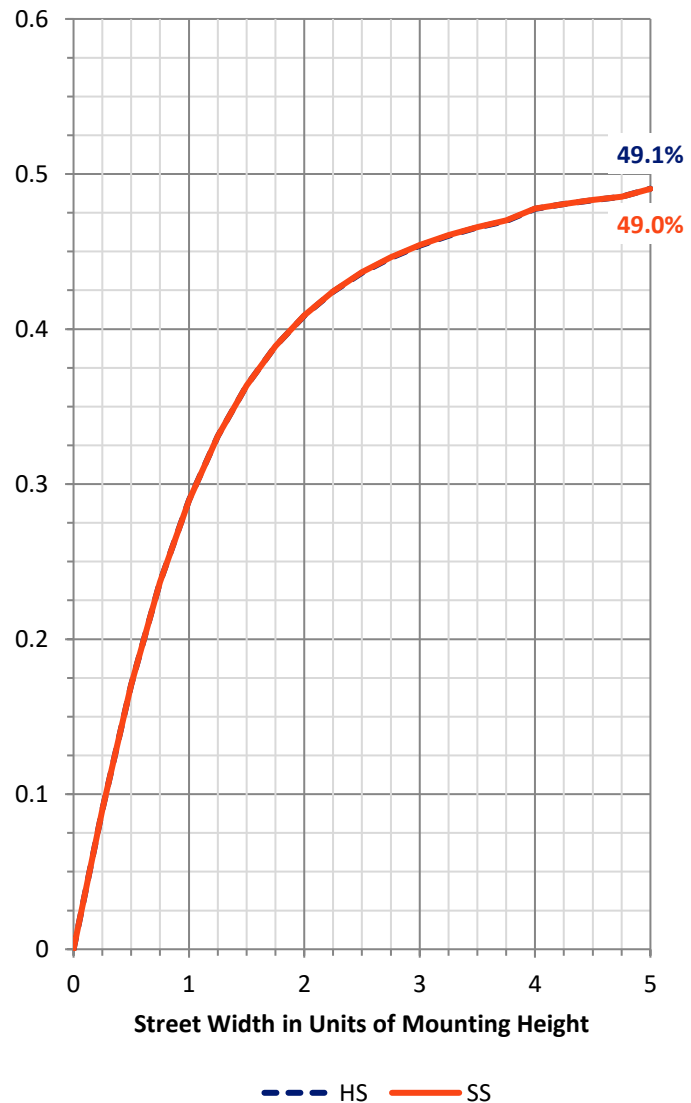
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3806.2	0.0	3806.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3806.2	0.0	3806.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	7612.5	0.0	7612.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	1.8
10°-20°	416.0	5.5
20°-30°	669.3	8.8
30°-40°	886.6	11.6
40°-50°	1119.7	14.7
50°-60°	1341.6	17.6
60°-70°	1466.9	19.3
70°-80°	1174.3	15.4
80°-90°	397.3	5.2
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°	7612.5	100.0
0°-180°	7612.5	100.0

Coefficient of Utilization



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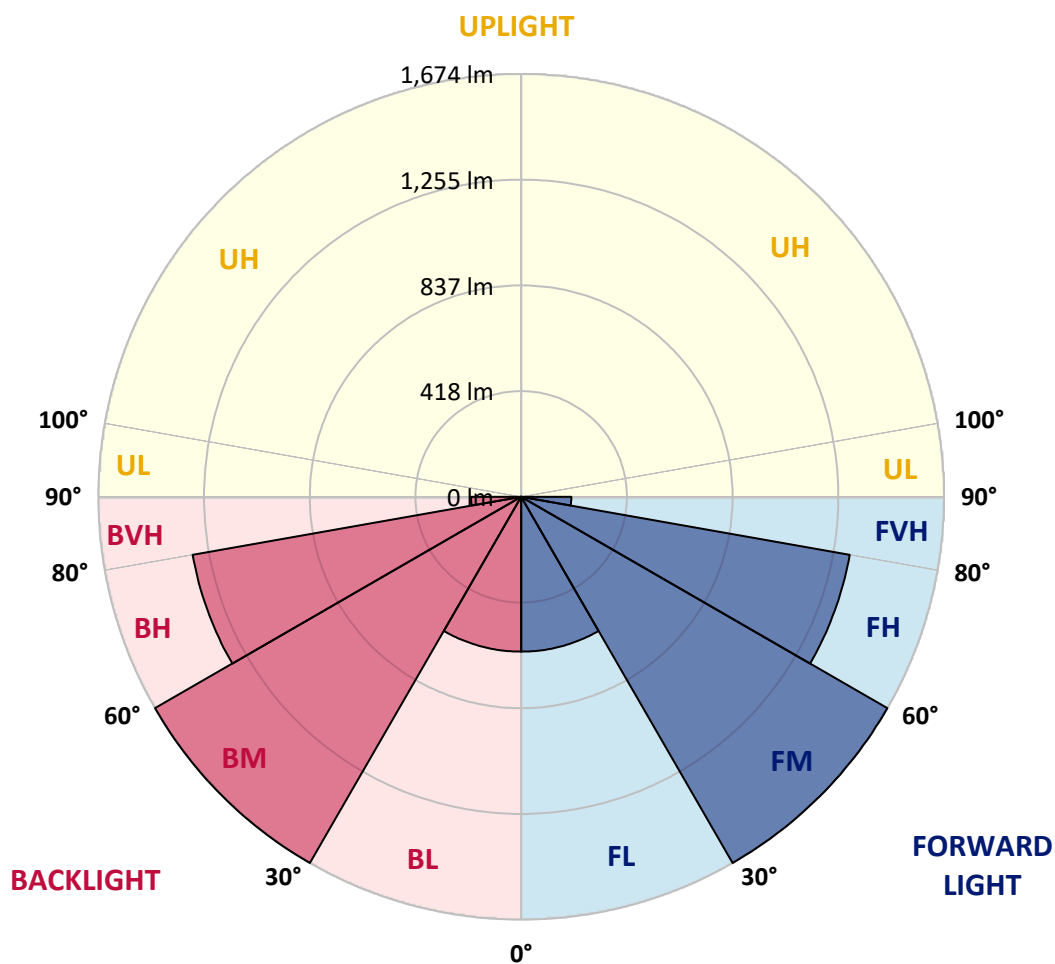
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	613.0	8.1			
FM	(30°-60°)	1674.0	22.0			
FH	(60°-80°)	1320.6	17.3			G1/1800
FVH	(80°-90°)	198.7	2.6			G2/225
BL	(0°-30°)	613.0	8.1	B2/1000		
BM	(30°-60°)	1674.0	22.0	B2/2500		
BH	(60°-80°)	1320.6	17.3	B3/2500		G1/1800
BVH	(80°-90°)	198.7	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
2.5°	1476.2	1475.0	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2
5°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
7.5°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1475.0	1473.5	1475.0
10°	1470.7	1470.7	1470.7	1470.7	1472.1	1472.1	1472.1	1472.1	1472.1	1472.1	1472.1
12.5°	1467.8	1467.8	1467.8	1467.8	1469.2	1469.2	1469.2	1469.2	1470.7	1470.7	1469.2
15°	1464.9	1463.5	1463.5	1464.9	1464.9	1466.4	1466.4	1466.4	1467.8	1466.4	1466.4
17.5°	1462.1	1460.6	1462.1	1463.5	1463.5	1464.9	1466.4	1466.4	1467.8	1467.8	1467.8
20°	1466.4	1464.9	1466.4	1467.8	1469.2	1472.1	1473.5	1475.0	1476.2	1477.6	1477.6
22.5°	1457.8	1456.3	1457.8	1457.8	1459.2	1460.6	1463.5	1464.9	1466.4	1466.4	1466.4
25°	1445.1	1445.1	1446.5	1446.5	1447.9	1449.4	1450.8	1452.2	1452.2	1453.7	1452.2
27.5°	1430.9	1430.9	1432.4	1432.4	1435.2	1435.2	1436.7	1437.9	1439.3	1439.3	1439.3
30°	1413.9	1413.9	1415.4	1416.8	1419.5	1420.9	1422.4	1423.8	1425.2	1425.2	1425.2
32.5°	1398.4	1396.9	1398.4	1401.1	1405.4	1408.2	1411.1	1412.5	1412.5	1412.5	1413.9
35°	1385.5	1386.9	1389.8	1392.7	1398.4	1401.1	1403.9	1408.2	1409.6	1409.6	1409.6
37.5°	1388.4	1389.8	1394.1	1399.6	1406.8	1415.4	1420.9	1426.6	1430.9	1429.5	1428.1
40°	1406.8	1409.6	1416.8	1425.2	1436.7	1447.9	1456.3	1463.5	1467.8	1469.2	1467.8
42.5°	1409.6	1412.5	1418.1	1430.9	1443.6	1456.3	1467.8	1475.0	1480.5	1481.9	1480.5
45°	1408.2	1408.2	1416.8	1430.9	1443.6	1456.3	1470.7	1480.5	1486.2	1486.2	1486.2
47.5°	1398.4	1402.5	1408.2	1422.4	1439.3	1452.2	1466.4	1476.2	1483.4	1487.7	1483.4
50°	1398.4	1398.4	1408.2	1418.1	1433.8	1456.3	1476.2	1486.2	1493.4	1491.9	1493.4
52.5°	1395.5	1403.9	1409.6	1423.8	1452.2	1475.0	1490.5	1504.7	1514.5	1515.9	1513.2
55°	1420.9	1422.4	1435.2	1462.1	1489.1	1514.5	1542.9	1564.2	1581.2	1591.2	1576.9
57.5°	1440.8	1433.8	1459.2	1481.9	1513.2	1551.5	1593.9	1610.9	1623.8	1620.9	1625.2
60°	1413.9	1423.8	1442.2	1466.4	1515.9	1554.2	1576.9	1595.4	1610.9	1615.2	1609.7
61°	1401.1	1418.1	1426.6	1459.2	1511.8	1540.1	1564.2	1589.8	1618.1	1628.1	1615.2
62.5°	1379.8	1406.8	1403.9	1456.3	1489.1	1521.6	1567.1	1596.8	1616.7	1619.5	1616.7
65°	1381.2	1377.1	1409.6	1447.9	1480.5	1538.6	1576.9	1595.4	1606.8	1612.4	1609.7
67.5°	1335.9	1321.6	1361.3	1388.4	1443.6	1489.1	1525.9	1552.8	1570.0	1575.5	1568.5
70°	1230.9	1240.9	1269.2	1310.4	1355.8	1411.1	1445.1	1480.5	1494.8	1496.1	1496.1
72.5°	1130.2	1135.9	1164.4	1202.6	1255.1	1303.2	1337.4	1365.6	1378.5	1379.8	1382.6
75°	996.9	1002.6	1035.2	1070.6	1123.2	1164.4	1188.3	1222.5	1240.9	1256.5	1243.8
77.5°	842.3	852.3	877.7	916.2	964.3	987.1	1029.6	1069.4	1082.1	1086.4	1082.1
80°	667.9	680.8	703.5	754.5	775.8	812.6	853.8	870.8	882.0	884.9	886.3
82.5°	480.7	490.8	514.7	550.2	574.3	604.2	632.5	653.7	666.4	663.8	662.3
85°	283.6	286.4	312.0	336.2	354.6	373.0	395.6	411.3	414.2	419.7	418.3
87.5°	85.2	86.6	97.9	110.6	119.2	127.6	141.9	160.3	164.4	153.1	154.6
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°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
2.5°	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1475.0	1476.2
5°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
7.5°	1475.0	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
10°	1472.1	1472.1	1472.1	1472.1	1470.7	1470.7	1470.7	1470.7
12.5°	1469.2	1469.2	1469.2	1469.2	1467.8	1467.8	1467.8	1467.8
15°	1466.4	1466.4	1466.4	1466.4	1464.9	1464.9	1464.9	1464.9
17.5°	1467.8	1466.4	1464.9	1464.9	1463.5	1462.1	1462.1	1462.1
20°	1476.2	1475.0	1472.1	1469.2	1467.8	1466.4	1466.4	1466.4
22.5°	1464.9	1463.5	1460.6	1459.2	1459.2	1457.8	1456.3	1456.3
25°	1452.2	1449.4	1449.4	1447.9	1447.9	1445.1	1445.1	1443.6
27.5°	1437.9	1436.7	1435.2	1433.8	1433.8	1432.4	1430.9	1429.5
30°	1425.2	1422.4	1419.5	1418.1	1416.8	1415.4	1415.4	1415.4
32.5°	1412.5	1409.6	1408.2	1403.9	1401.1	1399.6	1398.4	1398.4
35°	1408.2	1403.9	1401.1	1396.9	1392.7	1389.8	1388.4	1385.5
37.5°	1425.2	1419.5	1415.4	1408.2	1398.4	1394.1	1389.8	1388.4
40°	1462.1	1456.3	1447.9	1436.7	1425.2	1416.8	1409.6	1406.8
42.5°	1475.0	1467.8	1456.3	1445.1	1430.9	1418.1	1412.5	1409.6
45°	1479.1	1472.1	1456.3	1442.2	1429.5	1418.1	1409.6	1406.8
47.5°	1475.0	1464.9	1450.8	1439.3	1420.9	1406.8	1401.1	1396.9
50°	1484.8	1476.2	1457.8	1432.4	1416.8	1408.2	1398.4	1396.9
52.5°	1504.7	1489.1	1472.1	1453.7	1423.8	1406.8	1401.1	1394.1
55°	1564.2	1542.9	1513.2	1483.4	1464.9	1437.9	1420.9	1420.9
57.5°	1609.7	1592.5	1554.2	1514.5	1480.5	1460.6	1435.2	1436.7
60°	1596.8	1574.1	1555.6	1515.9	1467.8	1440.8	1430.9	1412.5
61°	1595.4	1564.2	1538.6	1507.5	1466.4	1423.8	1420.9	1396.9
62.5°	1598.2	1570.0	1521.6	1489.1	1457.8	1402.5	1401.1	1378.5
65°	1595.4	1568.5	1544.4	1483.4	1440.8	1418.1	1369.9	1388.4
67.5°	1551.5	1527.4	1483.4	1449.4	1384.1	1355.8	1328.8	1328.8
70°	1481.9	1446.5	1403.9	1361.3	1317.5	1269.2	1245.0	1230.9
72.5°	1365.6	1335.9	1301.9	1256.5	1202.6	1158.6	1135.9	1126.1
75°	1219.6	1186.9	1157.2	1123.2	1066.5	1029.6	1005.5	998.3
77.5°	1066.5	1038.0	985.6	953.1	914.8	872.2	850.9	842.3
80°	870.8	855.2	818.3	765.7	747.3	694.9	680.8	667.9
82.5°	653.7	636.7	602.8	565.9	543.2	513.3	487.9	485.0
85°	411.3	399.9	378.6	351.7	323.3	306.3	283.6	289.3
87.5°	153.1	146.0	133.3	116.3	103.6	92.1	80.9	85.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)