

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P776029

Luminaire Tested: HCDJBS1525CSD-HCD61TRC-2500lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B035-HCD61TRC)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD61TRC-2500lm-5000K  
Description: 6 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

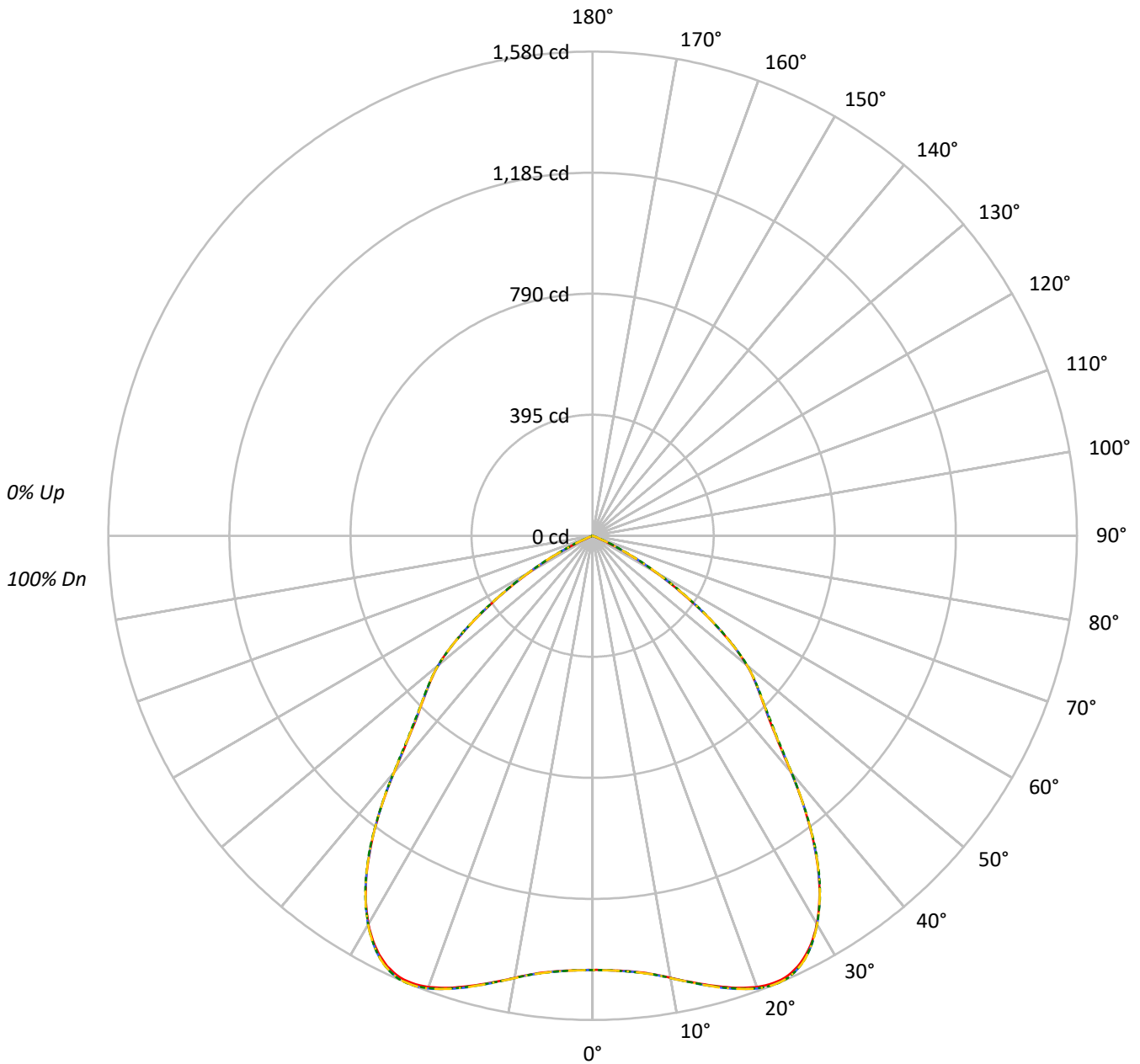
Lumens per Lamp: N/A  
Luminaire Lumens: 3184.8 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.3  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 24 FT



TEST NUMBER: P776029  
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-5000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80																			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71																			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50																			
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45																			
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	77697	77697	77697	77697
5°	78544	78604	78544	78604
10°	81550	81578	81550	81578
15°	86277	86368	86277	86368
20°	91399	91655	91399	91655
25°	94439	94826	94439	94826
30°	92590	92704	92590	92704
35°	85006	85280	85006	85280
40°	72064	72357	72064	72357
45°	61720	62037	61720	62037
50°	55990	56126	55990	56126
55°	43114	43554	43114	43554
60°	25974	26796	25974	26796
65°	8133	10377	8133	10377
70°	48	417	48	417
75°	0	64	0	64
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 62037 cd/sqm



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CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.5	4.3
10°-20°	432.8	13.6
20°-30°	715.5	22.5
30°-40°	785.4	24.7
40°-50°	623.7	19.6
50°-60°	401.7	12.6
60°-70°	87.9	2.8
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°-30°	1285.8	40.4
0°-40°	2071.2	65.0
0°-60°	3096.6	97.2
0°-90°	3184.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3184.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1417	1417	1417	1417	1417	
5°	1427	1428	1427	1428	1427	137
15°	1520	1522	1520	1522	1520	432
25°	1561	1568	1561	1568	1561	714
35°	1270	1274	1270	1274	1270	785
45°	796	800	796	800	796	622
55°	451	456	451	456	451	400
65°	63	80	63	80	63	80
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3
0.5°	1416.8	1417.3	1417.5	1417.8	1417.5	1417.8	1417.5	1417.3	1416.8	1417.3	1417.5
1°	1417.3	1417.5	1417.8	1418.0	1417.8	1418.0	1417.8	1417.5	1417.3	1417.5	1417.8
1.5°	1417.8	1418.0	1418.3	1418.6	1418.3	1418.6	1418.3	1418.0	1417.8	1418.0	1418.3
2°	1418.6	1418.8	1419.1	1419.1	1418.8	1419.1	1419.1	1418.8	1418.6	1418.8	1419.1
2.5°	1419.3	1419.6	1420.1	1420.1	1419.9	1420.1	1420.1	1419.6	1419.3	1419.6	1420.1
3°	1420.6	1420.9	1421.1	1421.1	1420.9	1421.1	1421.1	1420.9	1420.6	1420.9	1421.1
3.5°	1421.9	1422.2	1422.7	1422.7	1422.4	1422.7	1422.7	1422.2	1421.9	1422.2	1422.7
4°	1423.5	1423.7	1424.2	1424.5	1424.2	1424.5	1424.2	1423.7	1423.5	1423.7	1424.2
4.5°	1425.3	1425.5	1426.0	1426.3	1426.0	1426.3	1426.0	1425.5	1425.3	1425.5	1426.0
5°	1427.3	1427.6	1428.1	1428.4	1428.1	1428.4	1428.1	1427.6	1427.3	1427.6	1428.1
5.5°	1429.4	1429.9	1430.4	1431.0	1430.7	1431.0	1430.4	1429.9	1429.4	1429.9	1430.4
6°	1432.0	1432.2	1433.0	1433.5	1433.3	1433.5	1433.0	1432.2	1432.0	1432.2	1433.0
6.5°	1434.8	1435.1	1435.9	1436.1	1435.9	1436.1	1435.9	1435.1	1434.8	1435.1	1435.9
7°	1437.9	1438.2	1439.0	1439.2	1439.0	1439.2	1439.0	1438.2	1437.9	1438.2	1439.0
7.5°	1441.5	1441.8	1442.6	1442.6	1442.3	1442.6	1442.6	1441.8	1441.5	1441.8	1442.6
8°	1445.1	1445.7	1446.4	1446.7	1446.4	1446.7	1446.4	1445.7	1445.1	1445.7	1446.4
8.5°	1449.5	1450.0	1451.1	1451.1	1450.8	1451.1	1451.1	1450.0	1449.5	1450.0	1451.1
9°	1454.4	1455.0	1455.7	1456.0	1455.5	1456.0	1455.7	1455.0	1454.4	1455.0	1455.7
9.5°	1459.6	1460.1	1460.9	1461.1	1460.4	1461.1	1460.9	1460.1	1459.6	1460.1	1460.9
10°	1465.0	1465.5	1466.3	1466.3	1465.5	1466.3	1466.3	1465.5	1465.0	1465.5	1466.3
10.5°	1470.4	1471.0	1471.5	1471.5	1471.0	1471.5	1471.5	1471.0	1470.4	1471.0	1471.5
11°	1475.9	1476.6	1477.1	1476.9	1476.4	1476.9	1477.1	1476.6	1475.9	1476.6	1477.1
11.5°	1481.5	1482.0	1482.6	1482.3	1481.8	1482.3	1482.6	1482.0	1481.5	1482.0	1482.6
12°	1487.0	1487.5	1488.0	1488.0	1487.5	1488.0	1488.0	1487.5	1487.0	1487.5	1488.0
12.5°	1492.4	1493.1	1493.7	1493.7	1493.1	1493.7	1493.7	1493.1	1492.4	1493.1	1493.7
13°	1497.8	1498.8	1499.3	1499.3	1498.8	1499.3	1499.3	1498.8	1497.8	1498.8	1499.3
13.5°	1503.5	1504.5	1505.3	1505.0	1504.5	1505.0	1505.3	1504.5	1503.5	1504.5	1505.3
14°	1508.9	1510.2	1511.2	1511.2	1510.2	1511.2	1511.2	1510.2	1508.9	1510.2	1511.2
14.5°	1514.6	1515.9	1516.9	1517.1	1516.1	1517.1	1516.9	1515.9	1514.6	1515.9	1516.9
15°	1520.2	1521.5	1522.8	1523.1	1521.8	1523.1	1522.8	1521.5	1520.2	1521.5	1522.8
15.5°	1525.7	1527.2	1528.8	1528.8	1527.5	1528.8	1528.8	1527.2	1525.7	1527.2	1528.8
16°	1531.1	1532.9	1534.4	1534.4	1533.1	1534.4	1534.4	1532.9	1531.1	1532.9	1534.4
16.5°	1536.2	1538.0	1539.9	1539.9	1538.6	1539.9	1539.9	1538.0	1536.2	1538.0	1539.9
17°	1541.7	1543.5	1545.3	1545.3	1543.7	1545.3	1545.3	1543.5	1541.7	1543.5	1545.3
17.5°	1546.6	1548.6	1550.4	1550.4	1548.9	1550.4	1550.4	1548.6	1546.6	1548.6	1550.4
18°	1551.2	1553.5	1555.3	1555.3	1554.0	1555.3	1555.3	1553.5	1551.2	1553.5	1555.3
18.5°	1555.6	1558.2	1560.0	1560.0	1558.7	1560.0	1560.0	1558.2	1555.6	1558.2	1560.0
19°	1559.7	1562.3	1564.4	1564.1	1563.1	1564.1	1564.4	1562.3	1559.7	1562.3	1564.4
19.5°	1563.3	1565.9	1568.5	1568.0	1567.2	1568.0	1568.5	1565.9	1563.3	1565.9	1568.5
20°	1566.7	1569.3	1572.1	1571.3	1571.1	1571.3	1572.1	1569.3	1566.7	1569.3	1572.1
20.5°	1569.5	1572.1	1575.0	1574.2	1574.2	1574.2	1575.0	1572.1	1569.5	1572.1	1575.0
21°	1571.6	1574.2	1577.3	1576.2	1576.2	1576.2	1577.3	1574.2	1571.6	1574.2	1577.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1574.2	1576.5	1580.1	1578.8	1580.4	1578.8	1580.1	1576.5	1574.2	1576.5	1580.1
23°	1573.7	1575.7	1579.6	1578.0	1579.9	1578.0	1579.6	1575.7	1573.7	1575.7	1579.6
23.5°	1572.1	1574.2	1578.0	1576.2	1578.6	1576.2	1578.0	1574.2	1572.1	1574.2	1578.0
24°	1569.5	1571.6	1575.5	1573.9	1576.0	1573.9	1575.5	1571.6	1569.5	1571.6	1575.5
24.5°	1565.9	1568.0	1571.9	1570.6	1572.4	1570.6	1571.9	1568.0	1565.9	1568.0	1571.9
25°	1561.3	1563.6	1567.2	1566.2	1567.7	1566.2	1567.2	1563.6	1561.3	1563.6	1567.2
25.5°	1556.1	1558.2	1561.8	1561.0	1561.8	1561.0	1561.8	1558.2	1556.1	1558.2	1561.8
26°	1549.7	1551.7	1555.1	1554.8	1555.1	1554.8	1555.1	1551.7	1549.7	1551.7	1555.1
26.5°	1541.7	1544.0	1547.3	1547.6	1547.1	1547.6	1547.3	1544.0	1541.7	1544.0	1547.3
27°	1533.4	1535.7	1538.6	1539.3	1538.0	1539.3	1538.6	1535.7	1533.4	1535.7	1538.6
27.5°	1523.9	1526.2	1528.8	1530.0	1528.0	1530.0	1528.8	1526.2	1523.9	1526.2	1528.8
28°	1513.3	1515.6	1517.7	1519.7	1516.9	1519.7	1517.7	1515.6	1513.3	1515.6	1517.7
28.5°	1502.2	1504.0	1506.0	1508.6	1505.0	1508.6	1506.0	1504.0	1502.2	1504.0	1506.0
29°	1489.8	1491.6	1493.1	1496.2	1492.4	1496.2	1493.1	1491.6	1489.8	1491.6	1493.1
29.5°	1476.6	1478.2	1480.0	1482.6	1479.0	1482.6	1480.0	1478.2	1476.6	1478.2	1480.0
30°	1462.7	1463.7	1465.0	1468.1	1464.5	1468.1	1465.0	1463.7	1462.7	1463.7	1465.0
30.5°	1447.7	1448.2	1449.8	1452.9	1449.3	1452.9	1449.8	1448.2	1447.7	1448.2	1449.8
31°	1431.5	1432.0	1433.5	1436.4	1433.3	1436.4	1433.5	1432.0	1431.5	1432.0	1433.5
31.5°	1414.7	1414.7	1416.5	1418.8	1416.5	1418.8	1416.5	1414.7	1414.7	1414.7	1416.5
32°	1396.9	1396.6	1398.2	1400.5	1399.0	1400.5	1398.2	1396.6	1396.9	1396.6	1398.2
32.5°	1378.0	1377.5	1379.6	1381.1	1380.6	1381.1	1379.6	1377.5	1378.0	1377.5	1379.6
33°	1358.4	1357.9	1359.7	1361.0	1361.3	1361.0	1359.7	1357.9	1358.4	1357.9	1359.7
33.5°	1337.8	1336.8	1339.1	1339.9	1340.6	1339.9	1339.1	1336.8	1337.8	1336.8	1339.1
34°	1316.4	1315.3	1317.4	1317.7	1319.7	1317.7	1317.4	1315.3	1316.4	1315.3	1317.4
34.5°	1293.4	1293.4	1294.7	1295.0	1297.3	1295.0	1294.7	1293.4	1293.4	1293.4	1294.7
35°	1270.2	1269.9	1271.2	1271.7	1274.3	1271.7	1271.2	1269.9	1270.2	1269.9	1271.2
35.5°	1246.4	1246.4	1247.5	1248.0	1250.6	1248.0	1247.5	1246.4	1246.4	1246.4	1247.5
36°	1222.2	1222.2	1223.0	1223.7	1225.5	1223.7	1223.0	1222.2	1222.2	1222.2	1223.0
36.5°	1197.1	1197.4	1197.9	1198.4	1200.5	1198.4	1197.9	1197.4	1197.1	1197.4	1197.9
37°	1171.1	1171.6	1171.9	1172.6	1174.2	1172.6	1171.9	1171.6	1171.1	1171.6	1171.9
37.5°	1145.0	1145.3	1145.8	1146.6	1147.3	1146.6	1145.8	1145.3	1145.0	1145.3	1145.8
38°	1118.4	1118.4	1119.2	1119.7	1120.5	1119.7	1119.2	1118.4	1118.4	1118.4	1119.2
38.5°	1091.3	1091.3	1092.1	1092.6	1093.1	1092.6	1092.1	1091.3	1091.3	1091.3	1092.1
39°	1063.7	1063.7	1064.8	1065.5	1065.8	1065.5	1064.8	1063.7	1063.7	1063.7	1064.8
39.5°	1035.3	1035.6	1036.6	1038.2	1038.4	1038.2	1036.6	1035.6	1035.3	1035.6	1036.6
40°	1007.0	1007.2	1009.0	1010.3	1011.1	1010.3	1009.0	1007.2	1007.0	1007.2	1009.0
40.5°	979.1	979.6	981.9	984.2	984.8	984.2	981.9	979.6	979.1	979.6	981.9
41°	952.8	953.5	955.9	958.4	959.5	958.4	955.9	953.5	952.8	953.5	955.9
41.5°	928.0	929.0	931.1	933.7	934.4	933.7	931.1	929.0	928.0	929.0	931.1
42°	905.3	905.8	907.9	909.7	911.2	909.7	907.9	905.8	905.3	905.8	907.9
42.5°	884.1	884.4	887.0	888.8	889.8	888.8	887.0	884.4	884.1	884.4	887.0
43°	863.5	863.7	866.6	868.6	871.0	868.6	866.6	863.7	863.5	863.7	866.6
43.5°	844.4	845.2	847.2	849.3	851.1	849.3	847.2	845.2	844.4	845.2	847.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	796.1	796.1	797.9	798.7	800.2	798.7	797.9	796.1	796.1	796.1	797.9
45.5°	781.4	781.4	783.2	784.0	784.8	784.0	783.2	781.4	781.4	781.4	783.2
46°	767.2	767.5	768.8	769.8	770.3	769.8	768.8	767.5	767.2	767.5	768.8
46.5°	753.5	753.5	754.8	755.6	756.6	755.6	754.8	753.5	753.5	753.5	754.8
47°	740.1	740.1	741.2	742.2	743.0	742.2	741.2	740.1	740.1	740.1	741.2
47.5°	726.7	726.7	728.0	728.8	729.0	728.8	728.0	726.7	726.7	726.7	728.0
48°	713.8	713.5	714.8	715.6	716.1	715.6	714.8	713.5	713.8	713.5	714.8
48.5°	700.4	700.4	701.4	702.4	702.7	702.4	701.4	700.4	700.4	700.4	701.4
49°	686.4	686.7	687.7	688.5	689.0	688.5	687.7	686.7	686.4	686.7	687.7
49.5°	672.3	672.0	673.3	674.1	674.3	674.1	673.3	672.0	672.3	672.0	673.3
50°	656.5	656.5	657.3	658.1	658.1	658.1	657.3	656.5	656.5	656.5	657.3
50.5°	639.2	639.2	639.7	640.8	640.8	640.8	639.7	639.2	639.2	639.2	639.7
51°	620.9	620.6	621.4	622.2	623.0	622.2	621.4	620.6	620.9	620.6	621.4
51.5°	601.5	601.3	602.3	603.3	603.6	603.3	602.3	601.3	601.5	601.3	602.3
52°	581.4	581.7	582.4	583.2	583.7	583.2	582.4	581.7	581.4	581.7	582.4
52.5°	560.8	560.5	561.8	562.8	563.1	562.8	561.8	560.5	560.8	560.5	561.8
53°	539.1	539.3	540.6	541.9	541.7	541.9	540.6	539.3	539.1	539.3	540.6
53.5°	517.4	517.7	519.2	520.3	520.8	520.3	519.2	517.7	517.4	517.7	519.2
54°	495.2	495.7	497.3	498.3	498.6	498.3	497.3	495.7	495.2	495.7	497.3
54.5°	473.3	473.3	475.3	476.6	477.2	476.6	475.3	473.3	473.3	473.3	475.3
55°	451.1	451.3	453.7	454.7	455.7	454.7	453.7	451.3	451.1	451.3	453.7
55.5°	428.4	428.9	431.2	432.8	433.8	432.8	431.2	428.9	428.4	428.9	431.2
56°	405.9	406.7	409.3	410.6	411.9	410.6	409.3	406.7	405.9	406.7	409.3
56.5°	383.7	384.5	387.1	388.6	389.9	388.6	387.1	384.5	383.7	384.5	387.1
57°	361.5	362.8	365.2	367.0	368.3	367.0	365.2	362.8	361.5	362.8	365.2
57.5°	339.9	341.2	343.5	345.5	346.8	345.5	343.5	341.2	339.9	341.2	343.5
58°	318.4	319.5	322.1	324.6	325.7	324.6	322.1	319.5	318.4	319.5	322.1
58.5°	297.0	298.6	301.2	304.3	305.0	304.3	301.2	298.6	297.0	298.6	301.2
59°	276.4	278.2	280.3	283.6	284.4	283.6	280.3	278.2	276.4	278.2	280.3
59.5°	256.5	257.8	260.1	263.5	264.3	263.5	260.1	257.8	256.5	257.8	260.1
60°	236.9	237.9	240.3	243.4	244.4	243.4	240.3	237.9	236.9	237.9	240.3
60.5°	217.3	218.3	220.6	223.7	225.3	223.7	220.6	218.3	217.3	218.3	220.6
61°	198.2	199.2	202.1	204.9	206.4	204.9	202.1	199.2	198.2	199.2	202.1
61.5°	178.8	180.9	183.7	186.6	188.9	186.6	183.7	180.9	178.8	180.9	183.7
62°	160.5	163.1	165.9	169.0	171.4	169.0	165.9	163.1	160.5	163.1	165.9
62.5°	142.2	145.5	148.6	151.7	154.3	151.7	148.6	145.5	142.2	145.5	148.6
63°	124.4	129.0	131.9	135.0	137.8	135.0	131.9	129.0	124.4	129.0	131.9
63.5°	107.4	113.3	116.4	119.2	122.3	119.2	116.4	113.3	107.4	113.3	116.4
64°	90.8	98.6	102.2	104.8	107.9	104.8	102.2	98.6	90.8	98.6	102.2
64.5°	76.1	85.2	88.5	90.8	93.9	90.8	88.5	85.2	76.1	85.2	88.5
65°	62.7	72.3	75.6	77.7	80.0	77.7	75.6	72.3	62.7	72.3	75.6
65.5°	50.1	60.9	63.7	64.8	66.8	64.8	63.7	60.9	50.1	60.9	63.7
66°	39.2	50.6	52.6	54.2	55.2	54.2	52.6	50.6	39.2	50.6	52.6





TEST NUMBER: P776029

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	12.1	23.5	25.3	26.8	28.4	26.8	25.3	23.5	12.1	23.5	25.3
68°	7.2	16.5	18.1	20.1	23.2	20.1	18.1	16.5	7.2	16.5	18.1
68.5°	4.4	10.8	12.9	14.2	18.1	14.2	12.9	10.8	4.4	10.8	12.9
69°	2.6	6.5	8.0	9.0	12.9	9.0	8.0	6.5	2.6	6.5	8.0
69.5°	1.5	4.1	4.6	4.6	7.7	4.6	4.6	4.1	1.5	4.1	4.6
70°	0.3	2.1	2.6	2.6	2.6	2.6	2.6	2.1	0.3	2.1	2.6
70.5°	0.3	0.8	1.5	1.5	1.0	1.5	1.5	0.8	0.3	0.8	1.5
71°	0.3	0.3	0.8	0.8	0.3	0.8	0.8	0.3	0.3	0.3	0.8
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
75.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776029  
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776029

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3
0.5°	1417.8	1417.5	1417.8	1417.5	1417.3	1416.8
1°	1418.0	1417.8	1418.0	1417.8	1417.5	1417.3
1.5°	1418.6	1418.3	1418.6	1418.3	1418.0	1417.8
2°	1419.1	1418.8	1419.1	1419.1	1418.8	1418.6
2.5°	1420.1	1419.9	1420.1	1420.1	1419.6	1419.3
3°	1421.1	1420.9	1421.1	1421.1	1420.9	1420.6
3.5°	1422.7	1422.4	1422.7	1422.7	1422.2	1421.9
4°	1424.5	1424.2	1424.5	1424.2	1423.7	1423.5
4.5°	1426.3	1426.0	1426.3	1426.0	1425.5	1425.3
5°	1428.4	1428.4	1428.4	1428.1	1427.6	1427.3
5.5°	1431.0	1430.7	1431.0	1430.4	1429.9	1429.4
6°	1433.5	1433.3	1433.5	1433.0	1432.2	1432.0
6.5°	1436.1	1435.9	1436.1	1435.9	1435.1	1434.8
7°	1439.2	1439.0	1439.2	1439.0	1438.2	1437.9
7.5°	1442.6	1442.3	1442.6	1442.6	1441.8	1441.5
8°	1446.7	1446.4	1446.7	1446.4	1445.7	1445.1
8.5°	1451.1	1450.8	1451.1	1451.1	1450.0	1449.5
9°	1456.0	1455.5	1456.0	1455.7	1455.0	1454.4
9.5°	1461.1	1460.4	1461.1	1460.9	1460.1	1459.6
10°	1466.3	1465.5	1466.3	1466.3	1465.5	1465.0
10.5°	1471.5	1471.0	1471.5	1471.5	1471.0	1470.4
11°	1476.9	1476.4	1476.9	1477.1	1476.6	1475.9
11.5°	1482.3	1481.8	1482.3	1482.6	1482.0	1481.5
12°	1488.0	1487.5	1488.0	1488.0	1487.5	1487.0
12.5°	1493.7	1493.1	1493.7	1493.7	1493.1	1492.4
13°	1499.3	1498.8	1499.3	1499.3	1498.8	1497.8
13.5°	1505.0	1504.5	1505.0	1505.3	1504.5	1503.5
14°	1511.2	1510.2	1511.2	1511.2	1510.2	1508.9
14.5°	1517.1	1516.1	1517.1	1516.9	1515.9	1514.6
15°	1523.1	1521.8	1523.1	1522.8	1521.5	1520.2
15.5°	1528.8	1527.5	1528.8	1528.8	1527.2	1525.7
16°	1534.4	1533.1	1534.4	1534.4	1532.9	1531.1
16.5°	1539.9	1538.6	1539.9	1539.9	1538.0	1536.2
17°	1545.3	1543.7	1545.3	1545.3	1543.5	1541.7
17.5°	1550.4	1548.9	1550.4	1550.4	1548.6	1546.6
18°	1555.3	1554.0	1555.3	1555.3	1553.5	1551.2
18.5°	1560.0	1558.7	1560.0	1560.0	1558.2	1555.6
19°	1564.1	1563.1	1564.1	1564.4	1562.3	1559.7
19.5°	1568.0	1567.2	1568.0	1568.5	1565.9	1563.3
20°	1571.3	1571.1	1571.3	1572.1	1569.3	1566.7
20.5°	1574.2	1574.2	1574.2	1575.0	1572.1	1569.5
21°	1576.2	1576.8	1576.2	1577.3	1574.2	1571.6



TEST NUMBER: P776029

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1578.8	1580.4	1578.8	1580.1	1576.5	1574.2
23°	1578.0	1579.9	1578.0	1579.6	1575.7	1573.7
23.5°	1576.2	1578.6	1576.2	1578.0	1574.2	1572.1
24°	1573.9	1576.0	1573.9	1575.5	1571.6	1569.5
24.5°	1570.6	1572.4	1570.6	1571.9	1568.0	1565.9
25°	1566.2	1567.7	1566.2	1567.2	1563.6	1561.3
25.5°	1561.0	1561.8	1561.0	1561.8	1558.2	1556.1
26°	1554.8	1555.1	1554.8	1555.1	1551.7	1549.7
26.5°	1547.6	1547.1	1547.6	1547.3	1544.0	1541.7
27°	1539.3	1538.0	1539.3	1538.6	1535.7	1533.4
27.5°	1530.0	1528.0	1530.0	1528.8	1526.2	1523.9
28°	1519.7	1516.9	1519.7	1517.7	1515.6	1513.3
28.5°	1508.6	1505.0	1508.6	1506.0	1504.0	1502.2
29°	1496.2	1492.4	1496.2	1493.1	1491.6	1489.8
29.5°	1482.6	1479.0	1482.6	1480.0	1478.2	1476.6
30°	1468.1	1464.5	1468.1	1465.0	1463.7	1462.7
30.5°	1452.9	1449.3	1452.9	1449.8	1448.2	1447.7
31°	1436.4	1433.3	1436.4	1433.5	1432.0	1431.5
31.5°	1418.8	1416.5	1418.8	1416.5	1414.7	1414.7
32°	1400.5	1399.0	1400.5	1398.2	1396.6	1396.9
32.5°	1381.1	1380.6	1381.1	1379.6	1377.5	1378.0
33°	1361.0	1361.3	1361.0	1359.7	1357.9	1358.4
33.5°	1339.9	1340.6	1339.9	1339.1	1336.8	1337.8
34°	1317.7	1319.7	1317.7	1317.4	1315.3	1316.4
34.5°	1295.0	1297.3	1295.0	1294.7	1293.4	1293.4
35°	1271.7	1274.3	1271.7	1271.2	1269.9	1270.2
35.5°	1248.0	1250.6	1248.0	1247.5	1246.4	1246.4
36°	1223.7	1225.5	1223.7	1223.0	1222.2	1222.2
36.5°	1198.4	1200.5	1198.4	1197.9	1197.4	1197.1
37°	1172.6	1174.2	1172.6	1171.9	1171.6	1171.1
37.5°	1146.6	1147.3	1146.6	1145.8	1145.3	1145.0
38°	1119.7	1120.5	1119.7	1119.2	1118.4	1118.4
38.5°	1092.6	1093.1	1092.6	1092.1	1091.3	1091.3
39°	1065.5	1065.8	1065.5	1064.8	1063.7	1063.7
39.5°	1038.2	1038.4	1038.2	1036.6	1035.6	1035.3
40°	1010.3	1011.1	1010.3	1009.0	1007.2	1007.0
40.5°	984.2	984.8	984.2	981.9	979.6	979.1
41°	958.4	959.5	958.4	955.9	953.5	952.8
41.5°	933.7	934.4	933.7	931.1	929.0	928.0
42°	909.7	911.2	909.7	907.9	905.8	905.3
42.5°	888.8	889.8	888.8	887.0	884.4	884.1
43°	868.6	871.0	868.6	866.6	863.7	863.5
43.5°	849.3	851.1	849.3	847.2	845.2	844.4



TEST NUMBER: P776029

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	798.7	800.2	798.7	797.9	796.1	796.1
45.5°	784.0	784.8	784.0	783.2	781.4	781.4
46°	769.8	770.3	769.8	768.8	767.5	767.2
46.5°	755.6	756.6	755.6	754.8	753.5	753.5
47°	742.2	743.0	742.2	741.2	740.1	740.1
47.5°	728.8	729.0	728.8	728.0	726.7	726.7
48°	715.6	716.1	715.6	714.8	713.5	713.8
48.5°	702.4	702.7	702.4	701.4	700.4	700.4
49°	688.5	689.0	688.5	687.7	686.7	686.4
49.5°	674.1	674.3	674.1	673.3	672.0	672.3
50°	658.1	658.1	658.1	657.3	656.5	656.5
50.5°	640.8	640.8	640.8	639.7	639.2	639.2
51°	622.2	623.0	622.2	621.4	620.6	620.9
51.5°	603.3	603.6	603.3	602.3	601.3	601.5
52°	583.2	583.7	583.2	582.4	581.7	581.4
52.5°	562.8	563.1	562.8	561.8	560.5	560.8
53°	541.9	541.7	541.9	540.6	539.3	539.1
53.5°	520.3	520.8	520.3	519.2	517.7	517.4
54°	498.3	498.6	498.3	497.3	495.7	495.2
54.5°	476.6	477.2	476.6	475.3	473.3	473.3
55°	454.7	455.7	454.7	453.7	451.3	451.1
55.5°	432.8	433.8	432.8	431.2	428.9	428.4
56°	410.6	411.9	410.6	409.3	406.7	405.9
56.5°	388.6	389.9	388.6	387.1	384.5	383.7
57°	367.0	368.3	367.0	365.2	362.8	361.5
57.5°	345.5	346.8	345.5	343.5	341.2	339.9
58°	324.6	325.7	324.6	322.1	319.5	318.4
58.5°	304.3	305.0	304.3	301.2	298.6	297.0
59°	283.6	284.4	283.6	280.3	278.2	276.4
59.5°	263.5	264.3	263.5	260.1	257.8	256.5
60°	243.4	244.4	243.4	240.3	237.9	236.9
60.5°	223.7	225.3	223.7	220.6	218.3	217.3
61°	204.9	206.4	204.9	202.1	199.2	198.2
61.5°	186.6	188.9	186.6	183.7	180.9	178.8
62°	169.0	171.4	169.0	165.9	163.1	160.5
62.5°	151.7	154.3	151.7	148.6	145.5	142.2
63°	135.0	137.8	135.0	131.9	129.0	124.4
63.5°	119.2	122.3	119.2	116.4	113.3	107.4
64°	104.8	107.9	104.8	102.2	98.6	90.8
64.5°	90.8	93.9	90.8	88.5	85.2	76.1
65°	77.7	80.0	77.7	75.6	72.3	62.7
65.5°	64.8	66.8	64.8	63.7	60.9	50.1
66°	54.2	55.2	54.2	52.6	50.6	39.2



TEST NUMBER: P776029

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	26.8	28.4	26.8	25.3	23.5	12.1
68°	20.1	23.2	20.1	18.1	16.5	7.2
68.5°	14.2	18.1	14.2	12.9	10.8	4.4
69°	9.0	12.9	9.0	8.0	6.5	2.6
69.5°	4.6	7.7	4.6	4.6	4.1	1.5
70°	2.6	2.6	2.6	2.6	2.1	0.3
70.5°	1.5	1.0	1.5	1.5	0.8	0.3
71°	0.8	0.3	0.8	0.8	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.0	0.0
75.5°	0.3	0.3	0.3	0.0	0.0	0.0
76°	0.0	0.3	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776029

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



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Cooper Lighting Solutions Photometric Lab  
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Peachtree City, GA 30269

Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - 135°-315°

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Scaled Data Report



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Scaled Data Report





21.5°	1573.4	1575.7	1579.1	1577.8	1578.8	1577.8	1579.1	1575.7	1573.4	1575.7	1579.1
22°	1574.2	1576.5	1580.1	1578.6	1579.9	1578.6	1580.1	1576.5	1574.2	1576.5	1580.1



44°	827.1	827.6	829.7	831.0	833.0	831.0	829.7	827.6	827.1	827.6	829.7
44.5°	811.3	811.6	813.4	814.4	815.7	814.4	813.4	811.6	811.3	811.6	813.4



66.5°	28.6	40.3	42.8	44.4	44.6	44.4	42.8	40.3	28.6	40.3	42.8
67°	19.9	31.7	33.3	34.8	35.1	34.8	33.3	31.7	19.9	31.7	33.3



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	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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21.5°	1577.8	1578.8	1577.8	1579.1	1575.7	1573.4
22°	1578.6	1579.9	1578.6	1580.1	1576.5	1574.2



44°	831.0	833.0	831.0	829.7	827.6	827.1
44.5°	814.4	815.7	814.4	813.4	811.6	811.3

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66.5°	44.4	44.6	44.4	42.8	40.3	28.6
67°	34.8	35.1	34.8	33.3	31.7	19.9

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



(END OF REPORT)