

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: P776117

Luminaire Tested: HCDJBL51525CSD-HCD6TSQMB-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B015-HCD6TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD6TSQMB-2500lm-3500K
Description: 6 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

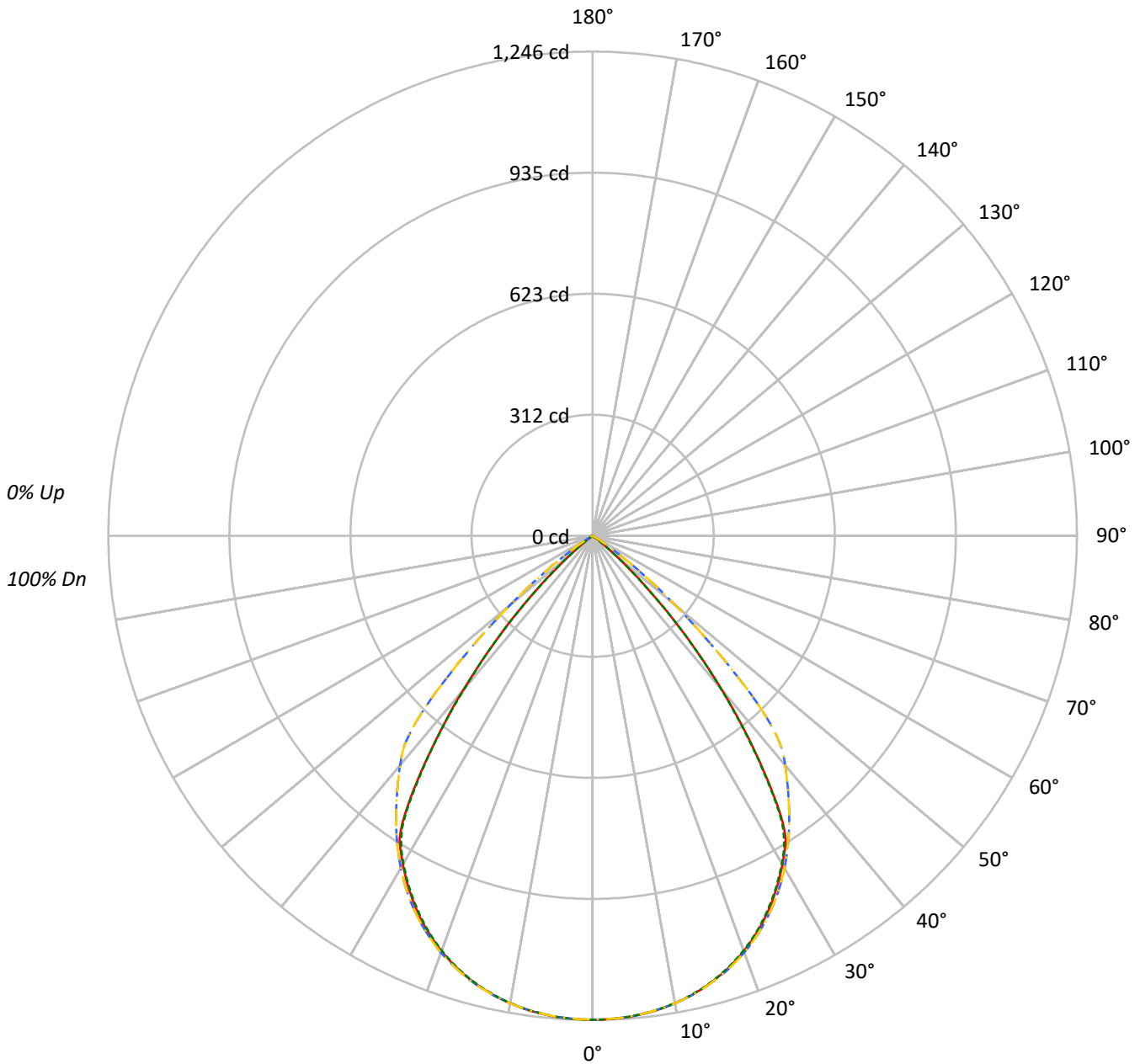
Lumens per Lamp: N/A
Luminaire Lumens: 1796.9 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): 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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77			77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	74	71	70			70
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64			64
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58			58
7	78	68	61	56	77	67	60	56	65	60	56	64	59	55	63	58	55	53			53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	53613	53613	53613	53613
5°	53593	53571	53593	53571
10°	53413	53378	53413	53378
15°	52955	52910	52955	52910
20°	52114	52046	52114	52046
25°	50685	50552	50685	50552
30°	48553	48404	48553	48404
35°	42496	42217	42496	42217
40°	29019	28833	29019	28833
45°	15107	15119	15107	15119
50°	4401	4354	4401	4354
55°	135	173	135	173
60°	43	43	43	43
65°	31	31	31	31
70°	38	38	38	38
75°	0	50	0	50
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 34933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	6.6
10°-20°	334.9	18.6
20°-30°	491.5	27.4
30°-40°	521.5	29.0
40°-50°	291.2	16.2
50°-60°	39.4	2.2
60°-70°	0.5	0.0
70°-80°	0.2	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°	944.1	52.5
0°-40°	1465.7	81.6
0°-60°	1796.2	100.0
0°-90°	1796.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1796.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1245	1245	1245	1245	1245	
5°	1240	1240	1240	1240	1240	118
15°	1188	1187	1188	1187	1188	335
25°	1067	1064	1067	1064	1067	490
35°	808	803	808	803	808	488
45°	248	248	248	248	248	198
55°	2	2	2	2	2	11
65°	0	0	0	0	0	0
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°	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2
0.5°	1245.7	1245.2	1245.2	1245.0	1245.2	1245.0	1245.2	1245.2	1245.7	1245.2	1245.2
1°	1245.5	1245.2	1245.0	1245.0	1245.2	1245.0	1245.0	1245.2	1245.5	1245.2	1245.0
1.5°	1245.2	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1245.2	1244.7	1244.7
2°	1244.7	1244.5	1244.2	1244.2	1244.5	1244.2	1244.2	1244.5	1244.7	1244.5	1244.2
2.5°	1244.2	1244.0	1243.7	1243.7	1244.0	1243.7	1243.7	1244.0	1244.2	1244.0	1243.7
3°	1243.7	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.7	1243.2	1243.2
3.5°	1243.0	1242.7	1242.5	1242.5	1242.5	1242.5	1242.5	1242.7	1243.0	1242.7	1242.5
4°	1242.2	1241.7	1241.5	1241.5	1241.7	1241.5	1241.5	1241.7	1242.2	1241.7	1241.5
4.5°	1241.2	1240.7	1240.7	1240.5	1240.7	1240.5	1240.7	1240.7	1241.2	1240.7	1240.7
5°	1240.0	1239.7	1239.5	1239.5	1239.5	1239.5	1239.5	1239.7	1240.0	1239.7	1239.5
5.5°	1238.7	1238.5	1238.2	1238.2	1238.2	1238.2	1238.2	1238.5	1238.7	1238.5	1238.2
6°	1237.5	1237.2	1237.0	1236.7	1237.0	1236.7	1237.0	1237.2	1237.5	1237.2	1237.0
6.5°	1235.9	1235.7	1235.4	1235.4	1235.4	1235.4	1235.4	1235.7	1235.9	1235.7	1235.4
7°	1234.4	1234.2	1233.9	1233.7	1233.7	1233.7	1233.9	1234.2	1234.4	1234.2	1233.9
7.5°	1232.7	1232.4	1232.2	1231.9	1231.9	1231.9	1232.2	1232.4	1232.7	1232.4	1232.2
8°	1230.7	1230.4	1230.4	1230.2	1230.2	1230.2	1230.4	1230.4	1230.7	1230.4	1230.4
8.5°	1228.7	1228.4	1228.4	1228.2	1227.9	1228.2	1228.4	1228.4	1228.7	1228.4	1228.4
9°	1226.4	1226.4	1226.2	1225.9	1225.7	1225.9	1226.2	1226.4	1226.4	1226.4	1226.2
9.5°	1224.2	1224.2	1223.9	1223.7	1223.4	1223.7	1223.9	1224.2	1224.2	1224.2	1223.9
10°	1221.7	1221.7	1221.7	1221.1	1220.9	1221.1	1221.7	1221.7	1221.7	1221.7	1221.7
10.5°	1219.1	1219.1	1219.1	1218.6	1218.4	1218.6	1219.1	1219.1	1219.1	1219.1	1219.1
11°	1216.1	1216.4	1216.4	1215.9	1215.4	1215.9	1216.4	1216.4	1216.1	1216.4	1216.4
11.5°	1213.4	1213.6	1213.6	1212.9	1212.4	1212.9	1213.6	1213.6	1213.4	1213.6	1213.6
12°	1210.4	1210.6	1210.6	1209.9	1209.4	1209.9	1210.6	1210.6	1210.4	1210.6	1210.6
12.5°	1207.1	1207.4	1207.6	1206.6	1206.1	1206.6	1207.6	1207.4	1207.1	1207.4	1207.6
13°	1203.6	1204.1	1204.3	1203.3	1202.6	1203.3	1204.3	1204.1	1203.6	1204.1	1204.3
13.5°	1200.1	1200.6	1200.8	1199.8	1199.1	1199.8	1200.8	1200.6	1200.1	1200.6	1200.8
14°	1196.1	1196.8	1197.3	1196.1	1195.3	1196.1	1197.3	1196.8	1196.1	1196.8	1197.3
14.5°	1192.3	1193.1	1193.6	1192.3	1191.3	1192.3	1193.6	1193.1	1192.3	1193.1	1193.6
15°	1188.0	1189.0	1189.5	1188.3	1187.0	1188.3	1189.5	1189.0	1188.0	1189.0	1189.5
15.5°	1184.0	1184.8	1185.5	1184.0	1182.8	1184.0	1185.5	1184.8	1184.0	1184.8	1185.5
16°	1179.5	1180.5	1181.3	1179.8	1178.3	1179.8	1181.3	1180.5	1179.5	1180.5	1181.3
16.5°	1175.0	1176.0	1176.7	1175.2	1173.7	1175.2	1176.7	1176.0	1175.0	1176.0	1176.7
17°	1170.0	1171.5	1172.2	1170.5	1168.7	1170.5	1172.2	1171.5	1170.0	1171.5	1172.2
17.5°	1165.2	1166.5	1167.5	1165.7	1163.7	1165.7	1167.5	1166.5	1165.2	1166.5	1167.5
18°	1159.9	1161.4	1162.4	1160.4	1158.4	1160.4	1162.4	1161.4	1159.9	1161.4	1162.4
18.5°	1154.7	1156.4	1157.4	1155.4	1153.2	1155.4	1157.4	1156.4	1154.7	1156.4	1157.4
19°	1149.2	1150.9	1152.2	1149.7	1147.4	1149.7	1152.2	1150.9	1149.2	1150.9	1152.2
19.5°	1143.4	1145.4	1146.6	1144.1	1141.9	1144.1	1146.6	1145.4	1143.4	1145.4	1146.6
20°	1137.4	1139.6	1141.1	1138.4	1135.9	1138.4	1141.1	1139.6	1137.4	1139.6	1141.1
20.5°	1131.3	1133.9	1135.4	1132.3	1129.6	1132.3	1135.4	1133.9	1131.3	1133.9	1135.4
21°	1125.1	1127.6	1129.3	1126.3	1123.1	1126.3	1129.3	1127.6	1125.1	1127.6	1129.3



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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°	<i>1104.8</i>	1108.0	1110.0	1106.5	1102.5	1106.5	1110.0	1108.0	1104.8	1108.0	1110.0
23°	<i>1097.7</i>	1101.0	1103.2	1099.5	1095.2	1099.5	1103.2	1101.0	1097.7	1101.0	1103.2
23.5°	<i>1090.5</i>	1094.0	1096.5	1092.2	1087.7	1092.2	1096.5	1094.0	1090.5	1094.0	1096.5
24°	<i>1082.7</i>	1086.7	1089.2	1084.7	1080.2	1084.7	1089.2	1086.7	1082.7	1086.7	1089.2
24.5°	<i>1074.9</i>	1078.9	1081.9	1077.2	1072.4	1077.2	1081.9	1078.9	1074.9	1078.9	1081.9
25°	<i>1066.9</i>	1071.1	1074.1	1069.1	1064.1	1069.1	1074.1	1071.1	1066.9	1071.1	1074.1
25.5°	<i>1058.8</i>	1063.1	1066.6	1061.1	1055.8	1061.1	1066.6	1063.1	1058.8	1063.1	1066.6
26°	<i>1050.6</i>	1055.1	1058.6	1053.1	1047.3	1053.1	1058.6	1055.1	1050.6	1055.1	1058.6
26.5°	<i>1042.0</i>	1046.6	1050.3	1044.5	1038.8	1044.5	1050.3	1046.6	1042.0	1046.6	1050.3
27°	<i>1033.0</i>	1038.3	1042.0	1036.0	1030.0	1036.0	1042.0	1038.3	1033.0	1038.3	1042.0
27.5°	<i>1024.0</i>	1029.5	1033.5	1027.0	1021.2	1027.0	1033.5	1029.5	1024.0	1029.5	1033.5
28°	<i>1014.9</i>	1020.5	1024.7	1018.2	1011.7	1018.2	1024.7	1020.5	1014.9	1020.5	1024.7
28.5°	<i>1005.7</i>	1011.4	1015.7	1009.2	1002.4	1009.2	1015.7	1011.4	1005.7	1011.4	1015.7
29°	<i>996.1</i>	1002.4	1006.4	999.9	992.9	999.9	1006.4	1002.4	996.1	1002.4	1006.4
29.5°	<i>986.6</i>	992.9	997.1	990.6	983.3	990.6	997.1	992.9	986.6	992.9	997.1
30°	<i>976.6</i>	983.3	987.4	981.1	973.6	981.1	987.4	983.3	976.6	983.3	987.4
30.5°	<i>966.8</i>	973.8	977.6	971.6	963.5	971.6	977.6	973.8	966.8	973.8	977.6
31°	<i>956.5</i>	964.0	967.5	961.8	953.2	961.8	967.5	964.0	956.5	964.0	967.5
31.5°	<i>946.2</i>	954.2	957.3	951.7	942.7	951.7	957.3	954.2	946.2	954.2	957.3
32°	<i>935.7</i>	944.0	947.0	941.7	929.4	941.7	947.0	944.0	935.7	944.0	947.0
32.5°	<i>924.6</i>	933.7	936.4	931.4	915.9	931.4	936.4	933.7	924.6	933.7	936.4
33°	<i>906.8</i>	923.4	925.6	921.1	901.1	921.1	925.6	923.4	906.8	923.4	925.6
33.5°	<i>887.5</i>	913.1	914.9	910.6	881.0	910.6	914.9	913.1	887.5	913.1	914.9
34°	<i>863.9</i>	902.6	903.8	897.8	858.7	897.8	903.8	902.6	863.9	902.6	903.8
34.5°	<i>836.6</i>	891.3	892.8	883.8	832.1	883.8	892.8	891.3	836.6	891.3	892.8
35°	<i>808.5</i>	874.5	881.7	869.5	803.2	869.5	881.7	874.5	808.5	874.5	881.7
35.5°	<i>780.4</i>	857.9	870.7	851.4	774.1	851.4	870.7	857.9	780.4	857.9	870.7
36°	<i>751.3</i>	835.6	859.4	831.3	745.3	831.3	859.4	835.6	751.3	835.6	859.4
36.5°	<i>722.0</i>	812.0	848.4	807.0	716.9	807.0	848.4	812.0	722.0	812.0	848.4
37°	<i>692.1</i>	785.2	837.3	781.2	687.8	781.2	837.3	785.2	692.1	785.2	837.3
37.5°	<i>663.3</i>	758.3	826.1	753.8	659.2	753.8	826.1	758.3	663.3	758.3	826.1
38°	<i>633.2</i>	730.7	815.0	726.0	630.4	726.0	815.0	730.7	633.2	730.7	815.0
38.5°	<i>604.1</i>	703.1	803.7	698.6	601.3	698.6	803.7	703.1	604.1	703.1	803.7
39°	<i>575.0</i>	675.0	792.9	671.5	571.7	671.5	792.9	675.0	575.0	675.0	792.9
39.5°	<i>545.9</i>	647.4	781.9	644.4	542.3	644.4	781.9	647.4	545.9	647.4	781.9
40°	<i>516.3</i>	619.4	770.9	617.1	513.0	617.1	770.9	619.4	516.3	619.4	770.9
40.5°	<i>487.4</i>	591.8	759.8	589.5	484.4	589.5	759.8	591.8	487.4	591.8	759.8
41°	<i>459.3</i>	564.2	748.5	562.2	456.0	562.2	748.5	564.2	459.3	564.2	748.5
41.5°	<i>431.2</i>	536.6	736.0	534.3	429.0	534.3	736.0	536.6	431.2	536.6	736.0
42°	<i>403.1</i>	509.0	722.0	506.7	401.6	506.7	722.0	509.0	403.1	509.0	722.0
42.5°	<i>376.3</i>	481.9	703.6	479.4	374.5	479.4	703.6	481.9	376.3	481.9	703.6
43°	<i>349.4</i>	454.5	682.8	452.5	348.2	452.5	682.8	454.5	349.4	454.5	682.8
43.5°	<i>323.3</i>	428.0	660.5	426.2	321.8	426.2	660.5	428.0	323.3	428.0	660.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	248.1	350.4	573.7	349.4	248.3	349.4	573.7	350.4	248.1	350.4	573.7
45.5°	225.5	325.4	541.1	324.6	225.5	324.6	541.1	325.4	225.5	325.4	541.1
46°	203.4	300.8	508.7	300.0	203.4	300.0	508.7	300.8	203.4	300.8	508.7
46.5°	181.6	276.7	476.9	275.9	181.1	275.9	476.9	276.7	181.6	276.7	476.9
47°	160.3	253.1	445.0	253.1	159.5	253.1	445.0	253.1	160.3	253.1	445.0
47.5°	139.7	230.8	414.7	231.0	140.0	231.0	414.7	230.8	139.7	230.8	414.7
48°	121.7	209.2	385.3	209.2	121.7	209.2	385.3	209.2	121.7	209.2	385.3
48.5°	105.1	188.1	357.0	187.9	104.9	187.9	357.0	188.1	105.1	188.1	357.0
49°	91.3	167.3	329.4	167.1	89.1	167.1	329.4	167.3	91.3	167.3	329.4
49.5°	78.3	147.3	302.5	147.3	76.8	147.3	302.5	147.3	78.3	147.3	302.5
50°	65.7	128.9	276.4	128.9	65.0	128.9	276.4	128.9	65.7	128.9	276.4
50.5°	54.2	112.9	251.4	111.4	53.7	111.4	251.4	112.9	54.2	112.9	251.4
51°	44.4	97.6	228.8	95.3	44.4	95.3	228.8	97.6	44.4	97.6	228.8
51.5°	35.6	84.3	206.7	82.3	34.9	82.3	206.7	84.3	35.6	84.3	206.7
52°	28.3	71.2	185.1	69.7	26.8	69.7	185.1	71.2	28.3	71.2	185.1
52.5°	21.3	59.2	164.1	57.7	19.1	57.7	164.1	59.2	21.3	59.2	164.1
53°	14.3	48.4	144.5	47.4	11.8	47.4	144.5	48.4	14.3	48.4	144.5
53.5°	9.5	38.6	126.7	37.1	7.0	37.1	126.7	38.6	9.5	38.6	126.7
54°	4.5	31.1	110.1	28.8	4.0	28.8	110.1	31.1	4.5	31.1	110.1
54.5°	2.8	23.8	95.8	21.3	3.0	21.3	95.8	23.8	2.8	23.8	95.8
55°	1.8	16.6	82.3	14.0	2.3	14.0	82.3	16.6	1.8	16.6	82.3
55.5°	0.8	10.5	69.7	9.5	1.5	9.5	69.7	10.5	0.8	10.5	69.7
56°	0.5	4.5	58.2	7.0	0.8	7.0	58.2	4.5	0.5	4.5	58.2
56.5°	0.5	2.3	47.2	4.3	0.5	4.3	47.2	2.3	0.5	2.3	47.2
57°	0.5	1.3	38.4	2.3	0.5	2.3	38.4	1.3	0.5	1.3	38.4
57.5°	0.5	1.0	30.9	1.0	0.5	1.0	30.9	1.0	0.5	1.0	30.9
58°	0.5	0.5	24.8	0.5	0.5	0.5	24.8	0.5	0.5	0.5	24.8
58.5°	0.5	0.5	19.3	0.5	0.5	0.5	19.3	0.5	0.5	0.5	19.3
59°	0.5	0.5	14.3	0.5	0.5	0.5	14.3	0.5	0.5	0.5	14.3
59.5°	0.5	0.5	10.5	0.5	0.5	0.5	10.5	0.5	0.5	0.5	10.5
60°	0.5	0.5	7.3	0.5	0.5	0.5	7.3	0.5	0.5	0.5	7.3
60.5°	0.5	0.5	5.0	0.5	0.5	0.5	5.0	0.5	0.5	0.5	5.0
61°	0.5	0.5	3.3	0.5	0.5	0.5	3.3	0.5	0.5	0.5	3.3
61.5°	0.5	0.5	2.0	0.5	0.5	0.5	2.0	0.5	0.5	0.5	2.0
62°	0.3	0.3	1.0	0.5	0.5	0.5	1.0	0.3	0.3	0.3	1.0
62.5°	0.3	0.3	0.8	0.3	0.3	0.3	0.8	0.3	0.3	0.3	0.8
63°	0.3	0.3	0.5	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.5
63.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
64.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
66°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P776117

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
75°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
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: P776117
CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMB-2500lm-3500K

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: P776117

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1245.2	1245.2	1245.2	1245.2	1245.2	1245.2
0.5°	1245.0	1245.2	1245.0	1245.2	1245.2	1245.7
1°	1245.0	1245.2	1245.0	1245.0	1245.2	1245.5
1.5°	1244.7	1244.7	1244.7	1244.7	1244.7	1245.2
2°	1244.2	1244.5	1244.2	1244.2	1244.5	1244.7
2.5°	1243.7	1244.0	1243.7	1243.7	1244.0	1244.2
3°	1243.2	1243.2	1243.2	1243.2	1243.2	1243.7
3.5°	1242.5	1242.5	1242.5	1242.5	1242.7	1243.0
4°	1241.5	1241.7	1241.5	1241.5	1241.7	1242.2
4.5°	1240.5	1240.7	1240.5	1240.7	1240.7	1241.2
5°	1239.5	1239.5	1239.5	1239.5	1239.7	1240.0
5.5°	1238.2	1238.2	1238.2	1238.2	1238.5	1238.7
6°	1236.7	1237.0	1236.7	1237.0	1237.2	1237.5
6.5°	1235.4	1235.4	1235.4	1235.4	1235.7	1235.9
7°	1233.7	1233.7	1233.7	1233.9	1234.2	1234.4
7.5°	1231.9	1231.9	1231.9	1232.2	1232.4	1232.7
8°	1230.2	1230.2	1230.2	1230.4	1230.4	1230.7
8.5°	1228.2	1227.9	1228.2	1228.4	1228.4	1228.7
9°	1225.9	1225.7	1225.9	1226.2	1226.4	1226.4
9.5°	1223.7	1223.4	1223.7	1223.9	1224.2	1224.2
10°	1221.1	1220.9	1221.1	1221.7	1221.7	1221.7
10.5°	1218.6	1218.4	1218.6	1219.1	1219.1	1219.1
11°	1215.9	1215.4	1215.9	1216.4	1216.4	1216.1
11.5°	1212.9	1212.4	1212.9	1213.6	1213.6	1213.4
12°	1209.9	1209.4	1209.9	1210.6	1210.6	1210.4
12.5°	1206.6	1206.1	1206.6	1207.6	1207.4	1207.1
13°	1203.3	1202.6	1203.3	1204.3	1204.1	1203.6
13.5°	1199.8	1199.1	1199.8	1200.8	1200.6	1200.1
14°	1196.1	1195.3	1196.1	1197.3	1196.8	1196.1
14.5°	1192.3	1191.3	1192.3	1193.6	1193.1	1192.3
15°	1188.3	1187.0	1188.3	1189.5	1189.0	1188.0
15.5°	1184.0	1182.8	1184.0	1185.5	1184.8	1184.0
16°	1179.8	1178.3	1179.8	1181.3	1180.5	1179.5
16.5°	1175.2	1173.7	1175.2	1176.7	1176.0	1175.0
17°	1170.5	1168.7	1170.5	1172.2	1171.5	1170.0
17.5°	1165.7	1163.7	1165.7	1167.5	1166.5	1165.2
18°	1160.4	1158.4	1160.4	1162.4	1161.4	1159.9
18.5°	1155.4	1153.2	1155.4	1157.4	1156.4	1154.7
19°	1149.7	1147.4	1149.7	1152.2	1150.9	1149.2
19.5°	1144.1	1141.9	1144.1	1146.6	1145.4	1143.4
20°	1138.4	1135.9	1138.4	1141.1	1139.6	1137.4
20.5°	1132.3	1129.6	1132.3	1135.4	1133.9	1131.3
21°	1126.3	1123.1	1126.3	1129.3	1127.6	1125.1



TEST NUMBER: P776117

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1106.5	1102.5	1106.5	1110.0	1108.0	1104.8
23°	1099.5	1095.2	1099.5	1103.2	1101.0	1097.7
23.5°	1092.2	1087.7	1092.2	1096.5	1094.0	1090.5
24°	1084.7	1080.2	1084.7	1089.2	1086.7	1082.7
24.5°	1077.2	1072.4	1077.2	1081.9	1078.9	1074.9
25°	1069.1	1064.1	1069.1	1074.1	1071.1	1066.9
25.5°	1061.1	1055.8	1061.1	1066.6	1063.1	1058.8
26°	1053.1	1047.3	1053.1	1058.6	1055.1	1050.6
26.5°	1044.5	1038.8	1044.5	1050.3	1046.6	1042.0
27°	1036.0	1030.0	1036.0	1042.0	1038.3	1033.0
27.5°	1027.0	1021.2	1027.0	1033.5	1029.5	1024.0
28°	1018.2	1011.7	1018.2	1024.7	1020.5	1014.9
28.5°	1009.2	1002.4	1009.2	1015.7	1011.4	1005.7
29°	999.9	992.9	999.9	1006.4	1002.4	996.1
29.5°	990.6	983.3	990.6	997.1	992.9	986.6
30°	981.1	973.6	981.1	987.4	983.3	976.6
30.5°	971.6	963.5	971.6	977.6	973.8	966.8
31°	961.8	953.2	961.8	967.5	964.0	956.5
31.5°	951.7	942.7	951.7	957.3	954.2	946.2
32°	941.7	929.4	941.7	947.0	944.0	935.7
32.5°	931.4	915.9	931.4	936.4	933.7	924.6
33°	921.1	901.1	921.1	925.6	923.4	906.8
33.5°	910.6	881.0	910.6	914.9	913.1	887.5
34°	897.8	858.7	897.8	903.8	902.6	863.9
34.5°	883.8	832.1	883.8	892.8	891.3	836.6
35°	869.5	803.2	869.5	881.7	874.5	808.5
35.5°	851.4	774.1	851.4	870.7	857.9	780.4
36°	831.3	745.3	831.3	859.4	835.6	751.3
36.5°	807.0	716.9	807.0	848.4	812.0	722.0
37°	781.2	687.8	781.2	837.3	785.2	692.1
37.5°	753.8	659.2	753.8	826.1	758.3	663.3
38°	726.0	630.4	726.0	815.0	730.7	633.2
38.5°	698.6	601.3	698.6	803.7	703.1	604.1
39°	671.5	571.7	671.5	792.9	675.0	575.0
39.5°	644.4	542.3	644.4	781.9	647.4	545.9
40°	617.1	513.0	617.1	770.9	619.4	516.3
40.5°	589.5	484.4	589.5	759.8	591.8	487.4
41°	562.2	456.0	562.2	748.5	564.2	459.3
41.5°	534.3	429.0	534.3	736.0	536.6	431.2
42°	506.7	401.6	506.7	722.0	509.0	403.1
42.5°	479.4	374.5	479.4	703.6	481.9	376.3
43°	452.5	348.2	452.5	682.8	454.5	349.4
43.5°	426.2	321.8	426.2	660.5	428.0	323.3



TEST NUMBER: P776117

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	349.4	248.3	349.4	573.7	350.4	248.1
45.5°	324.6	225.5	324.6	541.1	325.4	225.5
46°	300.0	203.4	300.0	508.7	300.8	203.4
46.5°	275.9	181.1	275.9	476.9	276.7	181.6
47°	253.1	159.5	253.1	445.0	253.1	160.3
47.5°	231.0	140.0	231.0	414.7	230.8	139.7
48°	209.2	121.7	209.2	385.3	209.2	121.7
48.5°	187.9	104.9	187.9	357.0	188.1	105.1
49°	167.1	89.1	167.1	329.4	167.3	91.3
49.5°	147.3	76.8	147.3	302.5	147.3	78.3
50°	128.9	65.0	128.9	276.4	128.9	65.7
50.5°	111.4	53.7	111.4	251.4	112.9	54.2
51°	95.3	44.4	95.3	228.8	97.6	44.4
51.5°	82.3	34.9	82.3	206.7	84.3	35.6
52°	69.7	26.8	69.7	185.1	71.2	28.3
52.5°	57.7	19.1	57.7	164.1	59.2	21.3
53°	47.4	11.8	47.4	144.5	48.4	14.3
53.5°	37.1	7.0	37.1	126.7	38.6	9.5
54°	28.8	4.0	28.8	110.1	31.1	4.5
54.5°	21.3	3.0	21.3	95.8	23.8	2.8
55°	14.0	2.3	14.0	82.3	16.6	1.8
55.5°	9.5	1.5	9.5	69.7	10.5	0.8
56°	7.0	0.8	7.0	58.2	4.5	0.5
56.5°	4.3	0.5	4.3	47.2	2.3	0.5
57°	2.3	0.5	2.3	38.4	1.3	0.5
57.5°	1.0	0.5	1.0	30.9	1.0	0.5
58°	0.5	0.5	0.5	24.8	0.5	0.5
58.5°	0.5	0.5	0.5	19.3	0.5	0.5
59°	0.5	0.5	0.5	14.3	0.5	0.5
59.5°	0.5	0.5	0.5	10.5	0.5	0.5
60°	0.5	0.5	0.5	7.3	0.5	0.5
60.5°	0.5	0.5	0.5	5.0	0.5	0.5
61°	0.5	0.5	0.5	3.3	0.5	0.5
61.5°	0.5	0.5	0.5	2.0	0.5	0.5
62°	0.5	0.5	0.5	1.0	0.3	0.3
62.5°	0.3	0.3	0.3	0.8	0.3	0.3
63°	0.3	0.3	0.3	0.5	0.3	0.3
63.5°	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.3	0.3	0.3	0.3	0.3	0.3
64.5°	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3
65.5°	0.3	0.3	0.3	0.3	0.3	0.3
66°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P776117

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	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	0.0	0.3	0.3
75°	0.3	0.3	0.3	0.0	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: P776117
CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMB-2500lm-3500K

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
1121 Highway 74 South
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Scaled Data Report





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

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Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1118.6	1121.3	1123.1	1119.8	1116.3	1119.8	1123.1	1121.3	1118.6	1121.3	1123.1
22°	1111.8	1114.8	1116.5	1113.3	1109.5	1113.3	1116.5	1114.8	1111.8	1114.8	1116.5



44°	297.5	401.4	633.4	400.1	296.3	400.1	633.4	401.4	297.5	401.4	633.4
44.5°	272.7	375.8	604.1	374.8	271.7	374.8	604.1	375.8	272.7	375.8	604.1



66.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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°	1119.8	1116.3	1119.8	1123.1	1121.3	1118.6
22°	1113.3	1109.5	1113.3	1116.5	1114.8	1111.8



44°	400.1	296.3	400.1	633.4	401.4	297.5
44.5°	374.8	271.7	374.8	604.1	375.8	272.7

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66.5°	0.3	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3

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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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(END OF REPORT)