

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P776156

Luminaire Tested: HCDJBL51525CSD-HCD82TRH-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B063-HCD82TRH)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRH-2500lm-3000K
Description: 8 INCH ROUND NARROW HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2752.2 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.65 / 0.67
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

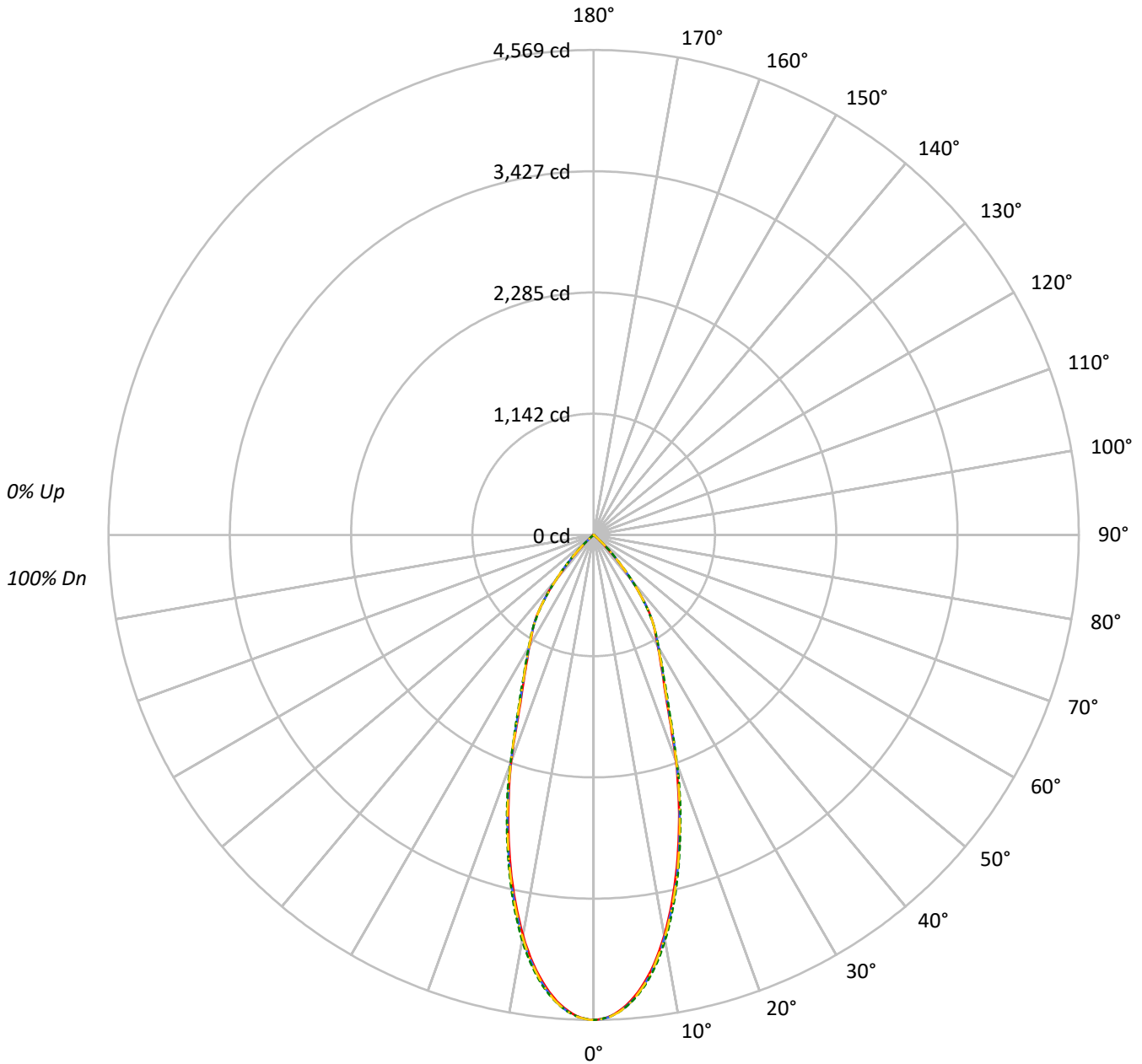
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRH-2500lm-3000K

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			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88			
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82			
4	98	91	86	82	97	90	85	82	88	84	81	86	82	80	84	81	79	77			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68			
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64			
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61			
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57			
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	139505	139505	139505	139505
5°	133915	134528	133915	134528
10°	118744	120229	118744	120229
15°	97047	98618	97047	98618
20°	73625	74547	73625	74547
25°	53083	54525	53083	54525
30°	42586	43238	42586	43238
35°	34859	34565	34859	34565
40°	21868	22330	21868	22330
45°	8329	9663	8329	9663
50°	1244	1748	1244	1748
55°	261	277	261	277
60°	165	165	165	165
65°	108	108	108	108
70°	62	89	62	89
75°	59	59	59	59
80°	35	35	35	35
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9663 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.3	14.6
10°-20°	851.5	30.9
20°-30°	747.8	27.2
30°-40°	564.7	20.5
40°-50°	177.9	6.5
50°-60°	6.8	0.2
60°-70°	1.6	0.1
70°-80°	0.5	0.0
80°-90°	0.1	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°	2000.6	72.7
0°-40°	2565.3	93.2
0°-60°	2750.0	99.9
0°-90°	2752.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4569	4569	4569	4569	4569	
5°	4370	4390	4370	4390	4370	400
15°	3070	3120	3070	3120	3070	844
25°	1576	1619	1576	1619	1576	741
35°	935	927	935	927	935	564
45°	193	224	193	224	193	168
55°	5	5	5	5	5	6
65°	2	2	2	2	2	2
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°	4569.4	4569.4	4569.4	4569.4	4569.4	4569.4	4569.4	4569.4	4569.4	4569.4	4569.4
0.5°	4565.2	4566.2	4568.7	4569.7	4565.2	4569.7	4568.7	4566.2	4565.2	4566.2	4568.7
1°	4559.0	4560.3	4562.7	4564.5	4560.0	4564.5	4562.7	4560.3	4559.0	4560.3	4562.7
1.5°	4548.7	4550.1	4553.4	4555.3	4550.9	4555.3	4553.4	4550.1	4548.7	4550.1	4553.4
2°	4534.8	4536.1	4540.3	4542.7	4538.5	4542.7	4540.3	4536.1	4534.8	4536.1	4540.3
2.5°	4515.8	4518.3	4523.2	4526.2	4522.2	4526.2	4523.2	4518.3	4515.8	4518.3	4523.2
3°	4494.3	4496.8	4502.7	4506.4	4502.7	4506.4	4502.7	4496.8	4494.3	4496.8	4502.7
3.5°	4468.6	4471.6	4478.3	4483.0	4480.2	4483.0	4478.3	4471.6	4468.6	4471.6	4478.3
4°	4438.7	4442.4	4450.3	4456.0	4453.6	4456.0	4450.3	4442.4	4438.7	4442.4	4450.3
4.5°	4405.9	4409.3	4418.7	4425.6	4423.2	4425.6	4418.7	4409.3	4405.9	4409.3	4418.7
5°	4369.6	4373.3	4383.6	4391.8	4389.6	4391.8	4383.6	4373.3	4369.6	4373.3	4383.6
5.5°	4329.5	4333.5	4344.4	4353.8	4352.8	4353.8	4344.4	4333.5	4329.5	4333.5	4344.4
6°	4285.8	4290.0	4301.9	4312.7	4313.0	4312.7	4301.9	4290.0	4285.8	4290.0	4301.9
6.5°	4240.1	4243.6	4256.7	4268.8	4269.5	4268.8	4256.7	4243.6	4240.1	4243.6	4256.7
7°	4190.2	4194.2	4207.8	4221.3	4224.1	4221.3	4207.8	4194.2	4190.2	4194.2	4207.8
7.5°	4137.8	4141.1	4155.1	4169.5	4173.4	4169.5	4155.1	4141.1	4137.8	4141.1	4155.1
8°	4081.5	4085.2	4100.0	4115.6	4120.5	4115.6	4100.0	4085.2	4081.5	4085.2	4100.0
8.5°	4023.2	4026.4	4041.3	4058.8	4064.5	4058.8	4041.3	4026.4	4023.2	4026.4	4041.3
9°	3960.7	3964.9	3980.5	3999.3	4005.7	3999.3	3980.5	3964.9	3960.7	3964.9	3980.5
9.5°	3897.0	3901.4	3916.3	3936.0	3943.4	3936.0	3916.3	3901.4	3897.0	3901.4	3916.3
10°	3830.3	3835.2	3850.5	3872.0	3878.2	3872.0	3850.5	3835.2	3830.3	3835.2	3850.5
10.5°	3761.4	3766.3	3782.1	3804.8	3810.8	3804.8	3782.1	3766.3	3761.4	3766.3	3782.1
11°	3687.7	3695.6	3711.7	3735.4	3740.6	3735.4	3711.7	3695.6	3687.7	3695.6	3711.7
11.5°	3616.8	3623.3	3639.3	3662.3	3668.5	3662.3	3639.3	3623.3	3616.8	3623.3	3639.3
12°	3541.5	3549.2	3565.7	3588.9	3594.6	3588.9	3565.7	3549.2	3541.5	3549.2	3565.7
12.5°	3465.9	3473.8	3490.6	3512.6	3517.5	3512.6	3490.6	3473.8	3465.9	3473.8	3490.6
13°	3388.3	3397.2	3415.3	3437.2	3441.2	3437.2	3415.3	3397.2	3388.3	3397.2	3415.3
13.5°	3310.8	3319.7	3338.4	3357.7	3363.4	3357.7	3338.4	3319.7	3310.8	3319.7	3338.4
14°	3231.2	3240.9	3259.9	3277.4	3283.6	3277.4	3259.9	3240.9	3231.2	3240.9	3259.9
14.5°	3150.9	3160.8	3180.1	3196.6	3201.8	3196.6	3180.1	3160.8	3150.9	3160.8	3180.1
15°	3070.4	3080.5	3099.6	3116.4	3120.1	3116.4	3099.6	3080.5	3070.4	3080.5	3099.6
15.5°	2989.6	2999.5	3018.5	3034.6	3040.3	3034.6	3018.5	2999.5	2989.6	2999.5	3018.5
16°	2909.3	2918.0	2937.0	2953.1	2959.7	2953.1	2937.0	2918.0	2909.3	2918.0	2937.0
16.5°	2830.0	2837.4	2856.5	2872.0	2879.2	2872.0	2856.5	2837.4	2830.0	2837.4	2856.5
17°	2748.5	2756.7	2774.0	2792.2	2797.7	2792.2	2774.0	2756.7	2748.5	2756.7	2774.0
17.5°	2667.2	2675.4	2692.7	2711.2	2717.6	2711.2	2692.7	2675.4	2667.2	2675.4	2692.7
18°	2587.4	2593.6	2612.2	2630.2	2636.6	2630.2	2612.2	2593.6	2587.4	2593.6	2612.2
18.5°	2507.7	2513.8	2530.4	2547.9	2554.8	2547.9	2530.4	2513.8	2507.7	2513.8	2530.4
19°	2427.6	2433.5	2449.8	2464.7	2472.6	2464.7	2449.8	2433.5	2427.6	2433.5	2449.8
19.5°	2347.6	2354.0	2367.3	2379.9	2386.1	2379.9	2367.3	2354.0	2347.6	2354.0	2367.3
20°	2266.1	2271.5	2282.1	2294.2	2294.5	2294.2	2282.1	2271.5	2266.1	2271.5	2282.1
20.5°	2183.5	2187.0	2198.4	2209.7	2208.2	2209.7	2198.4	2187.0	2183.5	2187.0	2198.4
21°	2099.3	2105.0	2115.9	2127.0	2126.7	2127.0	2115.9	2105.0	2099.3	2105.0	2115.9



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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°	1865.1	1872.0	1881.9	1899.9	1907.9	1899.9	1881.9	1872.0	1865.1	1872.0	1881.9
23°	1797.7	1802.9	1814.7	1830.0	1838.9	1830.0	1814.7	1802.9	1797.7	1802.9	1814.7
23.5°	1731.0	1743.8	1753.2	1765.8	1774.5	1765.8	1753.2	1743.8	1731.0	1743.8	1753.2
24°	1678.6	1683.5	1696.6	1710.2	1721.6	1710.2	1696.6	1683.5	1678.6	1683.5	1696.6
24.5°	1624.5	1630.4	1643.3	1656.9	1670.5	1656.9	1643.3	1630.4	1624.5	1630.4	1643.3
25°	1575.8	1582.0	1594.1	1605.7	1618.6	1605.7	1594.1	1582.0	1575.8	1582.0	1594.1
25.5°	1534.1	1536.8	1546.7	1556.6	1567.7	1556.6	1546.7	1536.8	1534.1	1536.8	1546.7
26°	1492.8	1495.3	1501.7	1511.1	1517.8	1511.1	1501.7	1495.3	1492.8	1495.3	1501.7
26.5°	1450.1	1453.8	1461.5	1469.6	1473.8	1469.6	1461.5	1453.8	1450.1	1453.8	1461.5
27°	1408.8	1413.3	1423.2	1432.1	1436.3	1432.1	1423.2	1413.3	1408.8	1413.3	1423.2
27.5°	1371.0	1375.2	1384.9	1394.3	1400.2	1394.3	1384.9	1375.2	1371.0	1375.2	1384.9
28°	1336.2	1339.7	1347.6	1356.2	1361.2	1356.2	1347.6	1339.7	1336.2	1339.7	1347.6
28.5°	1303.1	1306.1	1312.7	1319.9	1325.3	1319.9	1312.7	1306.1	1303.1	1306.1	1312.7
29°	1271.0	1273.5	1279.9	1286.8	1290.3	1286.8	1279.9	1273.5	1271.0	1273.5	1279.9
29.5°	1238.9	1241.6	1248.0	1254.4	1257.7	1254.4	1248.0	1241.6	1238.9	1241.6	1248.0
30°	1208.0	1210.5	1216.6	1222.8	1226.5	1222.8	1216.6	1210.5	1208.0	1210.5	1216.6
30.5°	1178.1	1180.1	1186.5	1192.7	1196.4	1192.7	1186.5	1180.1	1178.1	1180.1	1186.5
31°	1148.7	1151.9	1157.6	1164.0	1167.2	1164.0	1157.6	1151.9	1148.7	1151.9	1157.6
31.5°	1121.8	1123.8	1129.9	1135.9	1139.8	1135.9	1129.9	1123.8	1121.8	1123.8	1129.9
32°	1095.1	1097.6	1103.3	1108.9	1112.4	1108.9	1103.3	1097.6	1095.1	1097.6	1103.3
32.5°	1070.4	1072.9	1078.1	1082.0	1084.0	1082.0	1078.1	1072.9	1070.4	1072.9	1078.1
33°	1047.4	1048.7	1051.9	1053.9	1053.6	1053.9	1051.9	1048.7	1047.4	1048.7	1051.9
33.5°	1023.7	1023.5	1023.7	1023.7	1023.2	1023.7	1023.7	1023.5	1023.7	1023.5	1023.7
34°	997.3	995.6	993.6	996.3	990.9	996.3	993.6	995.6	997.3	995.6	993.6
34.5°	966.9	966.4	965.9	963.9	959.0	963.9	965.9	966.4	966.9	966.4	965.9
35°	935.3	933.1	933.1	931.1	927.4	931.1	933.1	933.1	935.3	933.1	933.1
35.5°	902.7	899.9	899.9	896.5	894.3	896.5	899.9	899.9	902.7	899.9	899.9
36°	866.8	865.4	866.1	860.4	859.9	860.4	866.1	865.4	866.8	865.4	866.1
36.5°	829.8	829.5	829.5	824.1	823.1	824.1	829.5	829.5	829.8	829.5	829.5
37°	791.5	791.5	791.7	787.5	785.8	787.5	791.7	791.5	791.5	791.5	791.7
37.5°	753.2	752.5	755.7	750.5	749.3	750.5	755.7	752.5	753.2	752.5	755.7
38°	714.2	712.4	713.4	712.0	712.2	712.0	713.4	712.4	714.2	712.4	713.4
38.5°	673.4	671.9	671.4	673.7	674.4	673.7	671.4	671.9	673.4	671.9	671.4
39°	632.2	631.4	630.2	635.1	635.4	635.1	630.2	631.4	632.2	631.4	630.2
39.5°	590.2	590.2	590.2	596.3	597.8	596.3	590.2	590.2	590.2	590.2	590.2
40°	548.7	549.9	552.4	557.8	560.3	557.8	552.4	549.9	548.7	549.9	552.4
40.5°	507.9	509.4	514.8	519.0	523.5	519.0	514.8	509.4	507.9	509.4	514.8
41°	467.6	469.9	477.0	481.5	486.2	481.5	477.0	469.9	467.6	469.9	477.0
41.5°	427.4	431.1	439.5	444.4	449.9	444.4	439.5	431.1	427.4	431.1	439.5
42°	388.8	393.0	402.9	408.6	413.8	408.6	402.9	393.0	388.8	393.0	402.9
42.5°	351.5	356.2	367.3	374.8	379.4	374.8	367.3	356.2	351.5	356.2	367.3
43°	315.2	321.9	333.3	341.6	345.6	341.6	333.3	321.9	315.2	321.9	333.3
43.5°	281.1	289.0	300.1	309.3	312.7	309.3	300.1	289.0	281.1	289.0	300.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	192.9	197.1	207.3	219.4	223.8	219.4	207.3	197.1	192.9	197.1	207.3
45.5°	166.3	170.5	180.6	192.7	197.6	192.7	180.6	170.5	166.3	170.5	180.6
46°	140.6	145.8	156.1	168.5	176.4	168.5	156.1	145.8	140.6	145.8	156.1
46.5°	118.8	122.8	134.6	146.2	155.1	146.2	134.6	122.8	118.8	122.8	134.6
47°	99.6	104.0	114.4	125.0	133.9	125.0	114.4	104.0	99.6	104.0	114.4
47.5°	82.5	86.2	95.1	104.2	112.6	104.2	95.1	86.2	82.5	86.2	95.1
48°	68.4	70.7	78.1	85.5	91.4	85.5	78.1	70.7	68.4	70.7	78.1
48.5°	55.3	58.1	63.0	69.7	74.9	69.7	63.0	58.1	55.3	58.1	63.0
49°	43.2	46.2	51.4	55.6	60.0	55.6	51.4	46.2	43.2	46.2	51.4
49.5°	33.8	36.1	40.5	44.5	47.7	44.5	40.5	36.1	33.8	36.1	40.5
50°	26.2	27.7	30.9	34.3	36.8	34.3	30.9	27.7	26.2	27.7	30.9
50.5°	19.5	19.8	23.5	26.9	28.7	26.9	23.5	19.8	19.5	19.8	23.5
51°	13.6	14.6	17.5	21.2	24.2	21.2	17.5	14.6	13.6	14.6	17.5
51.5°	8.9	10.9	13.6	16.1	20.0	16.1	13.6	10.9	8.9	10.9	13.6
52°	7.7	8.2	10.1	12.4	15.6	12.4	10.1	8.2	7.7	8.2	10.1
52.5°	6.9	7.2	7.4	9.4	11.4	9.4	7.4	7.2	6.9	7.2	7.4
53°	6.4	6.7	6.7	7.2	7.2	7.2	6.7	6.7	6.4	6.7	6.7
53.5°	5.9	6.2	6.4	6.4	6.2	6.4	6.4	6.2	5.9	6.2	6.4
54°	5.7	5.7	5.9	5.9	5.7	5.9	5.9	5.7	5.7	5.7	5.9
54.5°	5.2	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.2	5.4	5.4
55°	4.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.9	5.2	5.2
55.5°	4.7	4.7	4.9	4.9	4.9	4.9	4.9	4.7	4.7	4.7	4.9
56°	4.4	4.4	4.7	4.7	4.7	4.7	4.7	4.4	4.4	4.4	4.7
56.5°	4.2	4.2	4.4	4.4	4.2	4.4	4.4	4.2	4.2	4.2	4.4
57°	4.0	4.0	4.2	4.2	4.0	4.2	4.2	4.0	4.0	4.0	4.2
57.5°	3.7	3.7	4.0	4.0	4.0	4.0	4.0	3.7	3.7	3.7	4.0
58°	3.5	3.5	3.7	3.7	3.7	3.7	3.7	3.5	3.5	3.5	3.7
58.5°	3.2	3.2	3.5	3.5	3.5	3.5	3.5	3.2	3.2	3.2	3.5
59°	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.0	3.2	3.2
59.5°	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.7	3.0	3.0
60°	2.7	2.7	3.0	3.0	2.7	3.0	3.0	2.7	2.7	2.7	3.0
60.5°	2.5	2.5	2.7	2.7	2.7	2.7	2.7	2.5	2.5	2.5	2.7
61°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
61.5°	2.2	2.2	2.5	2.5	2.5	2.5	2.5	2.2	2.2	2.2	2.5
62°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.0	2.0	2.2	2.2	2.2	2.2	2.2	2.0	2.0	2.0	2.2
63°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
63.5°	1.7	1.7	2.0	2.0	2.0	2.0	2.0	1.7	1.7	1.7	2.0
64°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
64.5°	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.7	1.7
65°	1.5	1.5	1.7	1.7	1.5	1.7	1.7	1.5	1.5	1.5	1.7
65.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
66°	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.5	1.5



TEST NUMBER: P776156

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
68°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.2
68.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
69°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
69.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	1.0
70.5°	0.7	0.7	0.7	1.0	0.7	1.0	0.7	0.7	0.7	0.7	0.7
71°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
71.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.7
73°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
77°	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
82.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
83°	0.0	0.0	0.0	0.2	0.2	0.2	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: P776156

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-2500lm-3000K

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: P776156

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4569.4	4569.4	4569.4	4569.4	4569.4	4569.4
0.5°	4569.7	4565.2	4569.7	4568.7	4566.2	4565.2
1°	4564.5	4560.0	4564.5	4562.7	4560.3	4559.0
1.5°	4555.3	4550.9	4555.3	4553.4	4550.1	4548.7
2°	4542.7	4538.5	4542.7	4540.3	4536.1	4534.8
2.5°	4526.2	4522.2	4526.2	4523.2	4518.3	4515.8
3°	4506.4	4502.7	4506.4	4502.7	4496.8	4494.3
3.5°	4483.0	4480.2	4483.0	4478.3	4471.6	4468.6
4°	4456.0	4453.6	4456.0	4450.3	4442.4	4438.7
4.5°	4425.6	4423.2	4425.6	4418.7	4409.3	4405.9
5°	4391.8	4389.6	4391.8	4383.6	4373.3	4369.6
5.5°	4353.8	4352.8	4353.8	4344.4	4333.5	4329.5
6°	4312.7	4313.0	4312.7	4301.9	4290.0	4285.8
6.5°	4268.8	4269.5	4268.8	4256.7	4243.6	4240.1
7°	4221.3	4224.1	4221.3	4207.8	4194.2	4190.2
7.5°	4169.5	4173.4	4169.5	4155.1	4141.1	4137.8
8°	4115.6	4120.5	4115.6	4100.0	4085.2	4081.5
8.5°	4058.8	4064.5	4058.8	4041.3	4026.4	4023.2
9°	3999.3	4005.7	3999.3	3980.5	3964.9	3960.7
9.5°	3936.0	3943.4	3936.0	3916.3	3901.4	3897.0
10°	3872.0	3878.2	3872.0	3850.5	3835.2	3830.3
10.5°	3804.8	3810.8	3804.8	3782.1	3766.3	3761.4
11°	3735.4	3740.6	3735.4	3711.7	3695.6	3687.7
11.5°	3662.3	3668.5	3662.3	3639.3	3623.3	3616.8
12°	3588.9	3594.6	3588.9	3565.7	3549.2	3541.5
12.5°	3512.6	3517.5	3512.6	3490.6	3473.8	3465.9
13°	3437.2	3441.2	3437.2	3415.3	3397.2	3388.3
13.5°	3357.7	3363.4	3357.7	3338.4	3319.7	3310.8
14°	3277.4	3283.6	3277.4	3259.9	3240.9	3231.2
14.5°	3196.6	3201.8	3196.6	3180.1	3160.8	3150.9
15°	3116.4	3120.1	3116.4	3099.6	3080.5	3070.4
15.5°	3034.6	3040.3	3034.6	3018.5	2999.5	2989.6
16°	2953.1	2959.7	2953.1	2937.0	2918.0	2909.3
16.5°	2872.0	2879.2	2872.0	2856.5	2837.4	2830.0
17°	2792.2	2797.7	2792.2	2774.0	2756.7	2748.5
17.5°	2711.2	2717.6	2711.2	2692.7	2675.4	2667.2
18°	2630.2	2636.6	2630.2	2612.2	2593.6	2587.4
18.5°	2547.9	2554.8	2547.9	2530.4	2513.8	2507.7
19°	2464.7	2472.6	2464.7	2449.8	2433.5	2427.6
19.5°	2379.9	2386.1	2379.9	2367.3	2354.0	2347.6
20°	2294.2	2294.5	2294.2	2282.1	2271.5	2266.1
20.5°	2209.7	2208.2	2209.7	2198.4	2187.0	2183.5
21°	2127.0	2126.7	2127.0	2115.9	2105.0	2099.3



TEST NUMBER: P776156

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1899.9	1907.9	1899.9	1881.9	1872.0	1865.1
23°	1830.0	1838.9	1830.0	1814.7	1802.9	1797.7
23.5°	1765.8	1774.5	1765.8	1753.2	1743.8	1731.0
24°	1710.2	1721.6	1710.2	1696.6	1683.5	1678.6
24.5°	1656.9	1670.5	1656.9	1643.3	1630.4	1624.5
25°	1605.7	1618.6	1605.7	1594.1	1582.0	1575.8
25.5°	1556.6	1567.7	1556.6	1546.7	1536.8	1534.1
26°	1511.1	1517.8	1511.1	1501.7	1495.3	1492.8
26.5°	1469.6	1473.8	1469.6	1461.5	1453.8	1450.1
27°	1432.1	1436.3	1432.1	1423.2	1413.3	1408.8
27.5°	1394.3	1400.2	1394.3	1384.9	1375.2	1371.0
28°	1356.2	1361.2	1356.2	1347.6	1339.7	1336.2
28.5°	1319.9	1325.3	1319.9	1312.7	1306.1	1303.1
29°	1286.8	1290.3	1286.8	1279.9	1273.5	1271.0
29.5°	1254.4	1257.7	1254.4	1248.0	1241.6	1238.9
30°	1222.8	1226.5	1222.8	1216.6	1210.5	1208.0
30.5°	1192.7	1196.4	1192.7	1186.5	1180.1	1178.1
31°	1164.0	1167.2	1164.0	1157.6	1151.9	1148.7
31.5°	1135.9	1139.8	1135.9	1129.9	1123.8	1121.8
32°	1108.9	1112.4	1108.9	1103.3	1097.6	1095.1
32.5°	1082.0	1084.0	1082.0	1078.1	1072.9	1070.4
33°	1053.9	1053.6	1053.9	1051.9	1048.7	1047.4
33.5°	1023.7	1023.2	1023.7	1023.7	1023.5	1023.7
34°	996.3	990.9	996.3	993.6	995.6	997.3
34.5°	963.9	959.0	963.9	965.9	966.4	966.9
35°	931.1	927.4	931.1	933.1	933.1	935.3
35.5°	896.5	894.3	896.5	899.9	899.9	902.7
36°	860.4	859.9	860.4	866.1	865.4	866.8
36.5°	824.1	823.1	824.1	829.5	829.5	829.8
37°	787.5	785.8	787.5	791.7	791.5	791.5
37.5°	750.5	749.3	750.5	755.7	752.5	753.2
38°	712.0	712.2	712.0	713.4	712.4	714.2
38.5°	673.7	674.4	673.7	671.4	671.9	673.4
39°	635.1	635.4	635.1	630.2	631.4	632.2
39.5°	596.3	597.8	596.3	590.2	590.2	590.2
40°	557.8	560.3	557.8	552.4	549.9	548.7
40.5°	519.0	523.5	519.0	514.8	509.4	507.9
41°	481.5	486.2	481.5	477.0	469.9	467.6
41.5°	444.4	449.9	444.4	439.5	431.1	427.4
42°	408.6	413.8	408.6	402.9	393.0	388.8
42.5°	374.8	379.4	374.8	367.3	356.2	351.5
43°	341.6	345.6	341.6	333.3	321.9	315.2
43.5°	309.3	312.7	309.3	300.1	289.0	281.1



TEST NUMBER: P776156

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	219.4	223.8	219.4	207.3	197.1	192.9
45.5°	192.7	197.6	192.7	180.6	170.5	166.3
46°	168.5	176.4	168.5	156.1	145.8	140.6
46.5°	146.2	155.1	146.2	134.6	122.8	118.8
47°	125.0	133.9	125.0	114.4	104.0	99.6
47.5°	104.2	112.6	104.2	95.1	86.2	82.5
48°	85.5	91.4	85.5	78.1	70.7	68.4
48.5°	69.7	74.9	69.7	63.0	58.1	55.3
49°	55.6	60.0	55.6	51.4	46.2	43.2
49.5°	44.5	47.7	44.5	40.5	36.1	33.8
50°	34.3	36.8	34.3	30.9	27.7	26.2
50.5°	26.9	28.7	26.9	23.5	19.8	19.5
51°	21.2	24.2	21.2	17.5	14.6	13.6
51.5°	16.1	20.0	16.1	13.6	10.9	8.9
52°	12.4	15.6	12.4	10.1	8.2	7.7
52.5°	9.4	11.4	9.4	7.4	7.2	6.9
53°	7.2	7.2	7.2	6.7	6.7	6.4
53.5°	6.4	6.2	6.4	6.4	6.2	5.9
54°	5.9	5.7	5.9	5.9	5.7	5.7
54.5°	5.4	5.4	5.4	5.4	5.4	5.2
55°	5.2	5.2	5.2	5.2	5.2	4.9
55.5°	4.9	4.9	4.9	4.9	4.7	4.7
56°	4.7	4.7	4.7	4.7	4.4	4.4
56.5°	4.4	4.2	4.4	4.4	4.2	4.2
57°	4.2	4.0	4.2	4.2	4.0	4.0
57.5°	4.0	4.0	4.0	4.0	3.7	3.7
58°	3.7	3.7	3.7	3.7	3.5	3.5
58.5°	3.5	3.5	3.5	3.5	3.2	3.2
59°	3.2	3.2	3.2	3.2	3.2	3.0
59.5°	3.0	3.0	3.0	3.0	3.0	2.7
60°	3.0	2.7	3.0	3.0	2.7	2.7
60.5°	2.7	2.7	2.7	2.7	2.5	2.5
61°	2.5	2.5	2.5	2.5	2.5	2.5
61.5°	2.5	2.5	2.5	2.5	2.2	2.2
62°	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	2.2	2.2	2.2	2.0	2.0
63°	2.0	2.0	2.0	2.0	2.0	2.0
63.5°	2.0	2.0	2.0	2.0	1.7	1.7
64°	1.7	1.7	1.7	1.7	1.7	1.7
64.5°	1.7	1.7	1.7	1.7	1.7	1.5
65°	1.7	1.5	1.7	1.7	1.5	1.5
65.5°	1.5	1.5	1.5	1.5	1.5	1.5
66°	1.5	1.5	1.5	1.5	1.5	1.2



TEST NUMBER: P776156

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRH-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.2	1.2	1.2	1.2	1.2	1.2
68°	1.2	1.2	1.2	1.2	1.0	1.0
68.5°	1.0	1.0	1.0	1.0	1.0	1.0
69°	1.0	1.0	1.0	1.0	1.0	1.0
69.5°	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	0.7	0.7
70.5°	1.0	0.7	1.0	0.7	0.7	0.7
71°	0.7	0.7	0.7	0.7	0.7	0.7
71.5°	0.7	0.7	0.7	0.7	0.7	0.7
72°	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7	0.5
73°	0.7	0.7	0.7	0.7	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.2	0.2
77°	0.5	0.5	0.5	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.0
82.5°	0.2	0.2	0.2	0.2	0.0	0.0
83°	0.2	0.2	0.2	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: P776156

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-2500lm-3000K

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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Scaled Data Report





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

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21.5°	2012.1	2024.2	2036.3	2047.7	2050.6	2047.7	2036.3	2024.2	2012.1	2024.2	2036.3
22°	1936.3	1944.2	1958.2	1969.9	1975.8	1969.9	1958.2	1944.2	1936.3	1944.2	1958.2



44°	250.2	257.2	268.3	277.7	281.4	277.7	268.3	257.2	250.2	257.2	268.3
44.5°	221.1	226.5	236.9	247.0	251.5	247.0	236.9	226.5	221.1	226.5	236.9



66.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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°	2047.7	2050.6	2047.7	2036.3	2024.2	2012.1
22°	1969.9	1975.8	1969.9	1958.2	1944.2	1936.3



44°	277.7	281.4	277.7	268.3	257.2	250.2
44.5°	247.0	251.5	247.0	236.9	226.5	221.1

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66.5°	1.2	1.2	1.2	1.2	1.2	1.2
67°	1.2	1.2	1.2	1.2	1.2	1.2

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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)