

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: P776672

Luminaire Tested: HCDJBS4050CSD-HCD62TRC-5000lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B055-HCD62TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS4050CSD-HCD62TRC-5000lm-3500K
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5468.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

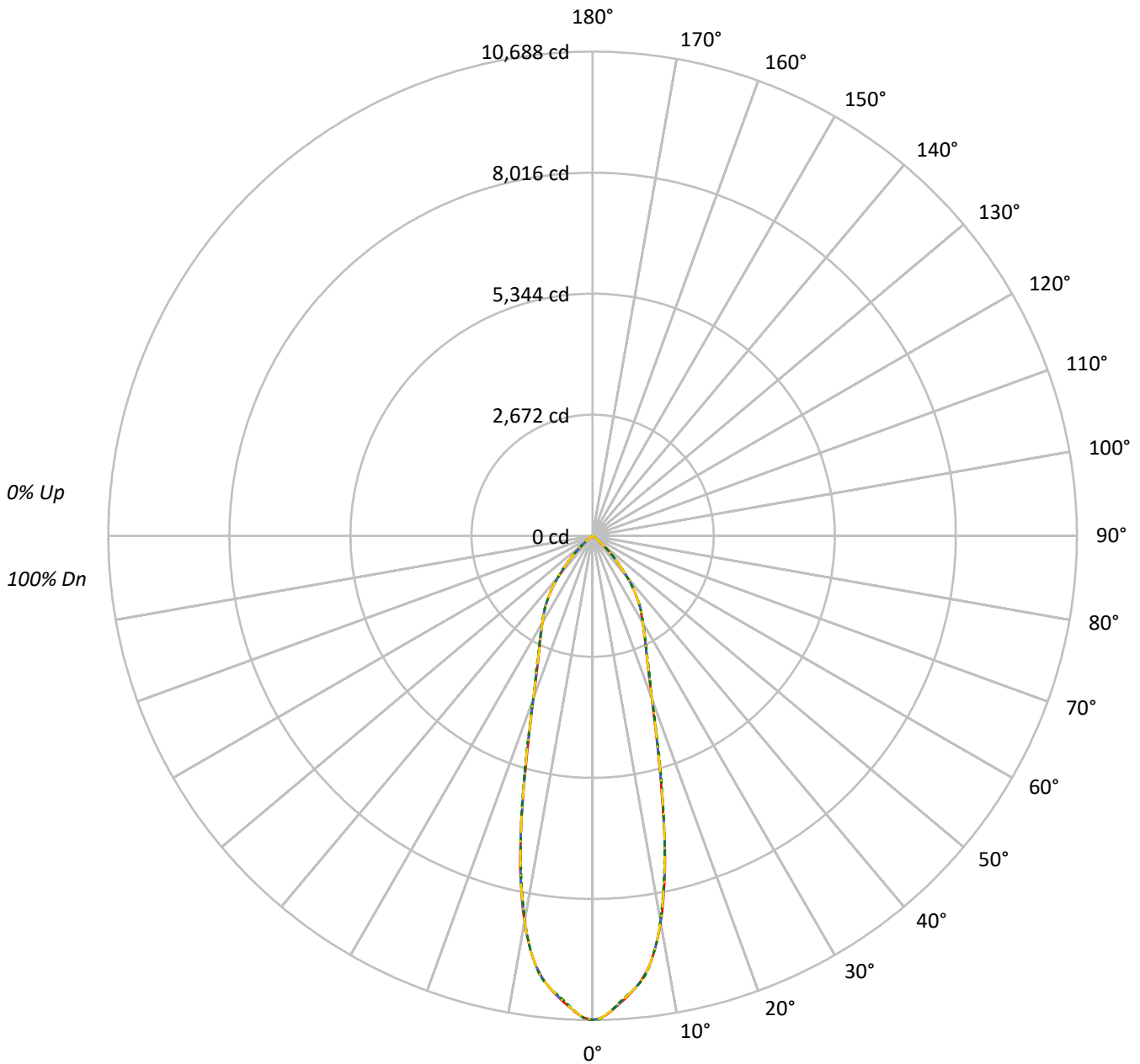
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
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	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	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82								
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	77	74	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	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	63	59	67	62	59	66	62	59	57								
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	585595	585595	585595	585595
5°	555424	554803	555424	554803
10°	481732	478977	481732	478977
15°	335076	339014	335076	339014
20°	222369	224737	222369	224737
25°	169026	171421	169026	171421
30°	139762	141465	139762	141465
35°	116968	117062	116968	117062
40°	83306	84623	83306	84623
45°	46718	49021	46718	49021
50°	15897	18916	15897	18916
55°	1128	2437	1128	2437
60°	208	208	208	208
65°	117	117	117	117
70°	80	80	80	80
75°	106	106	106	106
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 49021 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.2	16.8
10°-20°	1639.5	30.0
20°-30°	1309.1	23.9
30°-40°	1071.6	19.6
40°-50°	484.0	8.9
50°-60°	41.4	0.8
60°-70°	1.0	0.0
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°	3869.7	70.8
0°-40°	4941.4	90.4
0°-60°	5466.7	100.0
0°-90°	5468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5468.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10682	10682	10682	10682	10682	
5°	10093	10082	10093	10082	10093	921
15°	5904	5973	5904	5973	5904	1636
25°	2794	2834	2794	2834	2794	1302
35°	1748	1749	1748	1749	1748	1069
45°	603	632	603	632	603	475
55°	12	26	12	26	12	37
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	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°	10682.1	10682.1	10682.1	10682.1	10682.1	10682.1	10682.1	10682.1	10682.1	10682.1	10682.1
0.5°	10669.4	10669.4	10669.4	10671.3	10687.8	10671.3	10669.4	10669.4	10669.4	10669.4	10669.4
1°	10641.1	10641.1	10639.6	10640.1	10651.4	10640.1	10639.6	10641.1	10641.1	10641.1	10639.6
1.5°	10594.8	10594.3	10590.6	10588.2	10595.3	10588.2	10590.6	10594.3	10594.8	10594.3	10590.6
2°	10536.3	10533.5	10528.3	10522.6	10523.6	10522.6	10528.3	10533.5	10536.3	10533.5	10528.3
2.5°	10466.5	10464.6	10457.0	10447.6	10444.8	10447.6	10457.0	10464.6	10466.5	10464.6	10457.0
3°	10392.9	10390.5	10382.0	10369.3	10364.1	10369.3	10382.0	10390.5	10392.9	10390.5	10382.0
3.5°	10319.2	10315.9	10306.0	10293.3	10286.7	10293.3	10306.0	10315.9	10319.2	10315.9	10306.0
4°	10246.1	10240.9	10231.5	10221.6	10215.0	10221.6	10231.5	10240.9	10246.1	10240.9	10231.5
4.5°	10170.6	10165.9	10158.8	10152.2	10147.0	10152.2	10158.8	10165.9	10170.6	10165.9	10158.8
5°	10093.2	10089.9	10085.7	10082.8	10081.9	10082.8	10085.7	10089.9	10093.2	10089.9	10085.7
5.5°	10009.7	10007.8	10007.8	10009.7	10013.5	10009.7	10007.8	10007.8	10009.7	10007.8	10007.8
6°	9919.1	9919.1	9921.9	9929.5	9933.7	9929.5	9921.9	9919.1	9919.1	9919.1	9921.9
6.5°	9818.1	9820.5	9826.1	9834.2	9839.8	9834.2	9826.1	9820.5	9818.1	9820.5	9826.1
7°	9703.5	9708.2	9713.4	9721.9	9728.5	9721.9	9713.4	9708.2	9703.5	9708.2	9713.4
7.5°	9573.7	9575.6	9582.2	9588.3	9592.1	9588.3	9582.2	9575.6	9573.7	9575.6	9582.2
8°	9425.5	9426.5	9430.2	9434.0	9435.9	9434.0	9430.2	9426.5	9425.5	9426.5	9430.2
8.5°	9256.1	9256.1	9256.6	9255.7	9252.4	9255.7	9256.6	9256.1	9256.1	9256.1	9256.6
9°	9070.7	9070.2	9066.0	9059.4	9056.5	9059.4	9066.0	9070.2	9070.7	9070.2	9066.0
9.5°	8868.7	8867.3	8856.5	8847.0	8839.5	8847.0	8856.5	8867.3	8868.7	8867.3	8856.5
10°	8654.0	8649.3	8633.7	8616.3	8604.5	8616.3	8633.7	8649.3	8654.0	8649.3	8633.7
10.5°	8425.6	8415.7	8398.3	8377.0	8360.1	8377.0	8398.3	8415.7	8425.6	8415.7	8398.3
11°	8181.7	8173.2	8150.5	8133.1	8117.5	8133.1	8150.5	8173.2	8181.7	8173.2	8150.5
11.5°	7928.8	7921.2	7901.9	7876.4	7864.1	7876.4	7901.9	7921.2	7928.8	7921.2	7901.9
12°	7666.9	7660.7	7637.2	7613.6	7597.5	7613.6	7637.2	7660.7	7666.9	7660.7	7637.2
12.5°	7391.8	7381.4	7362.5	7339.9	7325.7	7339.9	7362.5	7381.4	7391.8	7381.4	7362.5
13°	7103.9	7098.8	7081.3	7068.1	7059.6	7068.1	7081.3	7098.8	7103.9	7098.8	7081.3
13.5°	6795.3	6799.1	6794.9	6790.2	6785.9	6790.2	6794.9	6799.1	6795.3	6799.1	6794.9
14°	6490.5	6497.1	6502.3	6508.9	6514.1	6508.9	6502.3	6497.1	6490.5	6497.1	6502.3
14.5°	6188.5	6198.9	6216.4	6233.4	6245.6	6233.4	6216.4	6198.9	6188.5	6198.9	6216.4
15°	5904.0	5912.5	5936.1	5958.3	5973.4	5958.3	5936.1	5912.5	5904.0	5912.5	5936.1
15.5°	5635.0	5646.4	5667.1	5691.7	5710.1	5691.7	5667.1	5646.4	5635.0	5646.4	5667.1
16°	5385.4	5392.5	5410.9	5440.1	5461.4	5440.1	5410.9	5392.5	5385.4	5392.5	5410.9
16.5°	5146.2	5151.8	5174.0	5200.4	5220.7	5200.4	5174.0	5151.8	5146.2	5151.8	5174.0
17°	4917.3	4923.5	4943.3	4969.7	4990.9	4969.7	4943.3	4923.5	4917.3	4923.5	4943.3
17.5°	4700.3	4706.4	4725.7	4747.4	4766.3	4747.4	4725.7	4706.4	4700.3	4706.4	4725.7
18°	4497.8	4503.0	4516.2	4537.0	4555.9	4537.0	4516.2	4503.0	4497.8	4503.0	4516.2
18.5°	4308.1	4309.6	4322.8	4348.2	4353.9	4348.2	4322.8	4309.6	4308.1	4309.6	4322.8
19°	4126.0	4129.8	4149.1	4173.2	4174.1	4173.2	4149.1	4129.8	4126.0	4129.8	4149.1
19.5°	3957.5	3967.9	3985.4	4006.1	4008.0	4006.1	3985.4	3967.9	3957.5	3967.9	3985.4
20°	3811.7	3814.1	3828.7	3850.0	3852.3	3850.0	3828.7	3814.1	3811.7	3814.1	3828.7
20.5°	3672.1	3675.8	3683.4	3702.3	3707.0	3702.3	3683.4	3675.8	3672.1	3675.8	3683.4
21°	3537.1	3543.2	3560.2	3571.6	3578.2	3571.6	3560.2	3543.2	3537.1	3543.2	3560.2



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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°	3204.0	3207.7	3228.5	3247.4	3265.3	3247.4	3228.5	3207.7	3204.0	3207.7	3228.5
23°	3112.0	3115.7	3128.9	3151.6	3171.9	3151.6	3128.9	3115.7	3112.0	3115.7	3128.9
23.5°	3025.1	3028.0	3040.7	3057.7	3080.3	3057.7	3040.7	3028.0	3025.1	3028.0	3040.7
24°	2943.0	2945.9	2957.2	2975.1	2990.2	2975.1	2957.2	2945.9	2943.0	2945.9	2957.2
24.5°	2867.1	2868.5	2877.4	2896.8	2909.1	2896.8	2877.4	2868.5	2867.1	2868.5	2877.4
25°	2794.4	2795.8	2802.9	2822.7	2834.0	2822.7	2802.9	2795.8	2794.4	2795.8	2802.9
25.5°	2724.6	2725.5	2733.0	2751.9	2762.3	2751.9	2733.0	2725.5	2724.6	2725.5	2733.0
26°	2657.6	2658.5	2665.6	2684.4	2694.8	2684.4	2665.6	2658.5	2657.6	2658.5	2665.6
26.5°	2592.0	2593.4	2600.0	2617.9	2628.3	2617.9	2600.0	2593.4	2592.0	2593.4	2600.0
27°	2530.6	2532.0	2537.7	2555.2	2567.0	2555.2	2537.7	2532.0	2530.6	2532.0	2537.7
27.5°	2472.6	2473.5	2478.7	2494.8	2506.1	2494.8	2478.7	2473.5	2472.6	2473.5	2478.7
28°	2416.4	2416.9	2422.6	2437.2	2447.6	2437.2	2422.6	2416.9	2416.4	2416.9	2422.6
28.5°	2362.2	2362.2	2367.8	2381.0	2391.9	2381.0	2367.8	2362.2	2362.2	2362.2	2367.8
29°	2309.8	2309.3	2314.0	2327.2	2337.2	2327.2	2314.0	2309.3	2309.8	2309.3	2314.0
29.5°	2257.4	2257.4	2263.1	2274.4	2284.3	2274.4	2263.1	2257.4	2257.4	2257.4	2263.1
30°	2207.9	2207.9	2213.5	2224.4	2234.8	2224.4	2213.5	2207.9	2207.9	2207.9	2213.5
30.5°	2160.2	2160.2	2165.4	2175.8	2185.7	2175.8	2165.4	2160.2	2160.2	2160.2	2165.4
31°	2114.9	2114.4	2120.6	2130.0	2139.9	2130.0	2120.6	2114.4	2114.9	2114.4	2120.6
31.5°	2071.5	2070.5	2075.7	2084.2	2094.1	2084.2	2075.7	2070.5	2071.5	2070.5	2075.7
32°	2030.0	2029.0	2033.7	2040.8	2047.9	2040.8	2033.7	2029.0	2030.0	2029.0	2033.7
32.5°	1988.4	1988.0	1989.9	1995.5	2000.2	1995.5	1989.9	1988.0	1988.4	1988.0	1989.9
33°	1945.5	1944.1	1944.1	1948.3	1952.6	1948.3	1944.1	1944.1	1945.5	1944.1	1944.1
33.5°	1899.7	1897.4	1897.8	1899.7	1905.9	1899.7	1897.8	1897.4	1899.7	1897.4	1897.8
34°	1851.1	1848.8	1848.8	1847.4	1854.0	1847.4	1848.8	1848.8	1851.1	1848.8	1848.8
34.5°	1800.6	1797.8	1798.8	1796.9	1802.5	1796.9	1798.8	1797.8	1800.6	1797.8	1798.8
35°	1747.8	1746.8	1746.4	1746.4	1749.2	1746.4	1746.4	1746.8	1747.8	1746.8	1746.4
35.5°	1694.0	1692.6	1692.1	1694.9	1694.9	1694.9	1692.1	1692.6	1694.0	1692.6	1692.1
36°	1638.8	1638.3	1638.3	1641.6	1639.3	1641.6	1638.3	1638.3	1638.8	1638.3	1638.3
36.5°	1581.2	1583.1	1583.1	1587.8	1584.1	1587.8	1583.1	1583.1	1581.2	1583.1	1583.1
37°	1523.2	1526.0	1527.9	1532.1	1527.4	1532.1	1527.9	1526.0	1523.2	1526.0	1527.9
37.5°	1466.1	1468.0	1474.1	1475.1	1471.3	1475.1	1474.1	1468.0	1466.1	1468.0	1474.1
38°	1408.5	1409.0	1416.5	1415.6	1415.1	1415.6	1416.5	1409.0	1408.5	1409.0	1416.5
38.5°	1350.0	1349.1	1358.0	1355.7	1357.6	1355.7	1358.0	1349.1	1350.0	1349.1	1358.0
39°	1288.7	1289.6	1299.5	1295.3	1300.5	1295.3	1299.5	1289.6	1288.7	1289.6	1299.5
39.5°	1226.4	1229.2	1240.5	1235.8	1241.5	1235.8	1240.5	1229.2	1226.4	1229.2	1240.5
40°	1164.1	1169.3	1181.1	1176.8	1182.5	1176.8	1181.1	1169.3	1164.1	1169.3	1181.1
40.5°	1104.6	1109.8	1120.7	1119.7	1123.5	1119.7	1120.7	1109.8	1104.6	1109.8	1120.7
41°	1046.1	1050.8	1060.3	1062.2	1064.5	1062.2	1060.3	1050.8	1046.1	1050.8	1060.3
41.5°	988.6	992.8	999.9	1006.0	1007.0	1006.0	999.9	992.8	988.6	992.8	999.9
42°	931.5	934.8	940.4	949.4	950.3	949.4	940.4	934.8	931.5	934.8	940.4
42.5°	875.8	878.1	881.9	893.7	896.1	893.7	881.9	878.1	875.8	878.1	881.9
43°	819.6	821.5	824.4	837.6	841.8	837.6	824.4	821.5	819.6	821.5	824.4
43.5°	764.4	764.9	768.7	781.9	788.0	781.9	768.7	764.9	764.4	764.9	768.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	602.6	604.0	610.6	624.8	632.3	624.8	610.6	604.0	602.6	604.0	610.6
45.5°	552.6	554.4	561.0	575.7	582.3	575.7	561.0	554.4	552.6	554.4	561.0
46°	505.4	505.8	512.9	526.6	534.2	526.6	512.9	505.8	505.4	505.8	512.9
46.5°	458.7	459.6	465.7	478.5	487.9	478.5	465.7	459.6	458.7	459.6	465.7
47°	413.4	414.3	421.4	433.6	443.1	433.6	421.4	414.3	413.4	414.3	421.4
47.5°	368.5	371.4	379.9	390.2	401.6	390.2	379.9	371.4	368.5	371.4	379.9
48°	327.9	329.8	339.7	350.1	360.0	350.1	339.7	329.8	327.9	329.8	339.7
48.5°	288.8	290.7	301.5	312.4	322.8	312.4	301.5	290.7	288.8	290.7	301.5
49°	252.4	254.3	265.7	276.5	288.8	276.5	265.7	254.3	252.4	254.3	265.7
49.5°	218.0	221.8	232.2	243.0	255.3	243.0	232.2	221.8	218.0	221.8	232.2
50°	186.4	190.6	201.5	211.4	221.8	211.4	201.5	190.6	186.4	190.6	201.5
50.5°	157.1	163.7	173.2	181.7	188.3	181.7	173.2	163.7	157.1	163.7	173.2
51°	131.7	138.3	146.8	153.8	157.6	153.8	146.8	138.3	131.7	138.3	146.8
51.5°	110.9	115.6	121.7	129.3	132.1	129.3	121.7	115.6	110.9	115.6	121.7
52°	92.0	96.3	101.0	107.6	109.0	107.6	101.0	96.3	92.0	96.3	101.0
52.5°	75.5	77.4	83.0	88.7	87.8	88.7	83.0	77.4	75.5	77.4	83.0
53°	59.0	62.3	66.1	70.8	69.8	70.8	66.1	62.3	59.0	62.3	66.1
53.5°	42.5	47.2	51.0	54.3	53.8	54.3	51.0	47.2	42.5	47.2	51.0
54°	30.7	32.6	36.8	41.1	44.4	41.1	36.8	32.6	30.7	32.6	36.8
54.5°	19.3	21.7	26.4	29.3	34.9	29.3	26.4	21.7	19.3	21.7	26.4
55°	11.8	13.7	17.9	20.3	25.5	20.3	17.9	13.7	11.8	13.7	17.9
55.5°	8.5	8.5	10.4	12.7	16.5	12.7	10.4	8.5	8.5	8.5	10.4
56°	6.1	5.7	6.6	8.0	8.5	8.0	6.6	5.7	6.1	5.7	6.6
56.5°	4.2	3.8	4.7	6.1	4.7	6.1	4.7	3.8	4.2	3.8	4.7
57°	2.4	3.3	3.3	4.2	2.8	4.2	3.3	3.3	2.4	3.3	3.3
57.5°	2.4	2.4	2.4	3.3	2.4	3.3	2.4	2.4	2.4	2.4	2.4
58°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
58.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
59°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
59.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
60.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
61°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
61.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
63°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
63.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
64°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
64.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P776672

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.9	0.9	0.9	0.9	0.5	0.9	0.9	0.9	0.9	0.9	0.9
68°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5
76°	0.0	0.0	0.0	0.0	0.0	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: P776672

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-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: P776672

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	10682.1	10682.1	10682.1	10682.1	10682.1	10682.1
0.5°	10671.3	10687.8	10671.3	10669.4	10669.4	10669.4
1°	10640.1	10651.4	10640.1	10639.6	10641.1	10641.1
1.5°	10588.2	10595.3	10588.2	10590.6	10594.3	10594.8
2°	10522.6	10523.6	10522.6	10528.3	10533.5	10536.3
2.5°	10447.6	10444.8	10447.6	10457.0	10464.6	10466.5
3°	10369.3	10364.1	10369.3	10382.0	10390.5	10392.9
3.5°	10293.3	10286.7	10293.3	10306.0	10315.9	10319.2
4°	10221.6	10215.0	10221.6	10231.5	10240.9	10246.1
4.5°	10152.2	10147.0	10152.2	10158.8	10165.9	10170.6
5°	10082.8	10081.9	10082.8	10085.7	10089.9	10093.2
5.5°	10009.7	10013.5	10009.7	10007.8	10007.8	10009.7
6°	9929.5	9933.7	9929.5	9921.9	9919.1	9919.1
6.5°	9834.2	9839.8	9834.2	9826.1	9820.5	9818.1
7°	9721.9	9728.5	9721.9	9713.4	9708.2	9703.5
7.5°	9588.3	9592.1	9588.3	9582.2	9575.6	9573.7
8°	9434.0	9435.9	9434.0	9430.2	9426.5	9425.5
8.5°	9255.7	9252.4	9255.7	9256.6	9256.1	9256.1
9°	9059.4	9056.5	9059.4	9066.0	9070.2	9070.7
9.5°	8847.0	8839.5	8847.0	8856.5	8867.3	8868.7
10°	8616.3	8604.5	8616.3	8633.7	8649.3	8654.0
10.5°	8377.0	8360.1	8377.0	8398.3	8415.7	8425.6
11°	8133.1	8117.5	8133.1	8150.5	8173.2	8181.7
11.5°	7876.4	7864.1	7876.4	7901.9	7921.2	7928.8
12°	7613.6	7597.5	7613.6	7637.2	7660.7	7666.9
12.5°	7339.9	7325.7	7339.9	7362.5	7381.4	7391.8
13°	7068.1	7059.6	7068.1	7081.3	7098.8	7103.9
13.5°	6790.2	6785.9	6790.2	6794.9	6799.1	6795.3
14°	6508.9	6514.1	6508.9	6502.3	6497.1	6490.5
14.5°	6233.4	6245.6	6233.4	6216.4	6198.9	6188.5
15°	5958.3	5973.4	5958.3	5936.1	5912.5	5904.0
15.5°	5691.7	5710.1	5691.7	5667.1	5646.4	5635.0
16°	5440.1	5461.4	5440.1	5410.9	5392.5	5385.4
16.5°	5200.4	5220.7	5200.4	5174.0	5151.8	5146.2
17°	4969.7	4990.9	4969.7	4943.3	4923.5	4917.3
17.5°	4747.4	4766.3	4747.4	4725.7	4706.4	4700.3
18°	4537.0	4555.9	4537.0	4516.2	4503.0	4497.8
18.5°	4348.2	4353.9	4348.2	4322.8	4309.6	4308.1
19°	4173.2	4174.1	4173.2	4149.1	4129.8	4126.0
19.5°	4006.1	4008.0	4006.1	3985.4	3967.9	3957.5
20°	3850.0	3852.3	3850.0	3828.7	3814.1	3811.7
20.5°	3702.3	3707.0	3702.3	3683.4	3675.8	3672.1
21°	3571.6	3578.2	3571.6	3560.2	3543.2	3537.1

TEST NUMBER: P776672

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3247.4	3265.3	3247.4	3228.5	3207.7	3204.0
23°	3151.6	3171.9	3151.6	3128.9	3115.7	3112.0
23.5°	3057.7	3080.3	3057.7	3040.7	3028.0	3025.1
24°	2975.1	2990.2	2975.1	2957.2	2945.9	2943.0
24.5°	2896.8	2909.1	2896.8	2877.4	2868.5	2867.1
25°	2822.7	2834.0	2822.7	2802.9	2795.8	2794.4
25.5°	2751.9	2762.3	2751.9	2733.0	2725.5	2724.6
26°	2684.4	2694.8	2684.4	2665.6	2658.5	2657.6
26.5°	2617.9	2628.3	2617.9	2600.0	2593.4	2592.0
27°	2555.2	2567.0	2555.2	2537.7	2532.0	2530.6
27.5°	2494.8	2506.1	2494.8	2478.7	2473.5	2472.6
28°	2437.2	2447.6	2437.2	2422.6	2416.9	2416.4
28.5°	2381.0	2391.9	2381.0	2367.8	2362.2	2362.2
29°	2327.2	2337.2	2327.2	2314.0	2309.3	2309.8
29.5°	2274.4	2284.3	2274.4	2263.1	2257.4	2257.4
30°	2224.4	2234.8	2224.4	2213.5	2207.9	2207.9
30.5°	2175.8	2185.7	2175.8	2165.4	2160.2	2160.2
31°	2130.0	2139.9	2130.0	2120.6	2114.4	2114.9
31.5°	2084.2	2094.1	2084.2	2075.7	2070.5	2071.5
32°	2040.8	2047.9	2040.8	2033.7	2029.0	2030.0
32.5°	1995.5	2000.2	1995.5	1989.9	1988.0	1988.4
33°	1948.3	1952.6	1948.3	1944.1	1944.1	1945.5
33.5°	1899.7	1905.9	1899.7	1897.8	1897.4	1899.7
34°	1847.4	1854.0	1847.4	1848.8	1848.8	1851.1
34.5°	1796.9	1802.5	1796.9	1798.8	1797.8	1800.6
35°	1746.4	1749.2	1746.4	1746.4	1746.8	1747.8
35.5°	1694.9	1694.9	1694.9	1692.1	1692.6	1694.0
36°	1641.6	1639.3	1641.6	1638.3	1638.3	1638.8
36.5°	1587.8	1584.1	1587.8	1583.1	1583.1	1581.2
37°	1532.1	1527.4	1532.1	1527.9	1526.0	1523.2
37.5°	1475.1	1471.3	1475.1	1474.1	1468.0	1466.1
38°	1415.6	1415.1	1415.6	1416.5	1409.0	1408.5
38.5°	1355.7	1357.6	1355.7	1358.0	1349.1	1350.0
39°	1295.3	1300.5	1295.3	1299.5	1289.6	1288.7
39.5°	1235.8	1241.5	1235.8	1240.5	1229.2	1226.4
40°	1176.8	1182.5	1176.8	1181.1	1169.3	1164.1
40.5°	1119.7	1123.5	1119.7	1120.7	1109.8	1104.6
41°	1062.2	1064.5	1062.2	1060.3	1050.8	1046.1
41.5°	1006.0	1007.0	1006.0	999.9	992.8	988.6
42°	949.4	950.3	949.4	940.4	934.8	931.5
42.5°	893.7	896.1	893.7	881.9	878.1	875.8
43°	837.6	841.8	837.6	824.4	821.5	819.6
43.5°	781.9	788.0	781.9	768.7	764.9	764.4



TEST NUMBER: P776672

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	624.8	632.3	624.8	610.6	604.0	602.6
45.5°	575.7	582.3	575.7	561.0	554.4	552.6
46°	526.6	534.2	526.6	512.9	505.8	505.4
46.5°	478.5	487.9	478.5	465.7	459.6	458.7
47°	433.6	443.1	433.6	421.4	414.3	413.4
47.5°	390.2	401.6	390.2	379.9	371.4	368.5
48°	350.1	360.0	350.1	339.7	329.8	327.9
48.5°	312.4	322.8	312.4	301.5	290.7	288.8
49°	276.5	288.8	276.5	265.7	254.3	252.4
49.5°	243.0	255.3	243.0	232.2	221.8	218.0
50°	211.4	221.8	211.4	201.5	190.6	186.4
50.5°	181.7	188.3	181.7	173.2	163.7	157.1
51°	153.8	157.6	153.8	146.8	138.3	131.7
51.5°	129.3	132.1	129.3	121.7	115.6	110.9
52°	107.6	109.0	107.6	101.0	96.3	92.0
52.5°	88.7	87.8	88.7	83.0	77.4	75.5
53°	70.8	69.8	70.8	66.1	62.3	59.0
53.5°	54.3	53.8	54.3	51.0	47.2	42.5
54°	41.1	44.4	41.1	36.8	32.6	30.7
54.5°	29.3	34.9	29.3	26.4	21.7	19.3
55°	20.3	25.5	20.3	17.9	13.7	11.8
55.5°	12.7	16.5	12.7	10.4	8.5	8.5
56°	8.0	8.5	8.0	6.6	5.7	6.1
56.5°	6.1	4.7	6.1	4.7	3.8	4.2
57°	4.2	2.8	4.2	3.3	3.3	2.4
57.5°	3.3	2.4	3.3	2.4	2.4	2.4
58°	2.4	2.4	2.4	2.4	2.4	2.4
58.5°	1.9	1.9	1.9	1.9	1.9	1.9
59°	1.9	1.9	1.9	1.9	1.9	1.9
59.5°	1.9	1.9	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9
60.5°	1.4	1.4	1.4	1.4	1.4	1.4
61°	1.4	1.4	1.4	1.4	1.4	1.4
61.5°	1.4	1.4	1.4	1.4	1.4	1.4
62°	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4
63°	1.4	1.4	1.4	1.4	1.4	1.4
63.5°	0.9	0.9	0.9	0.9	0.9	0.9
64°	0.9	0.9	0.9	0.9	0.9	0.9
64.5°	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9
65.5°	0.9	0.9	0.9	0.9	0.9	0.9
66°	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P776672

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.9	0.5	0.9	0.9	0.9	0.9
68°	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	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	0.0
76°	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
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: P776672

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-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

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Peachtree City, GA 30269

Scaled Data Report





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

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





21.5°	3409.7	3423.4	3443.7	3455.9	3459.7	3455.9	3443.7	3423.4	3409.7	3423.4	3443.7
22°	3305.0	3312.5	3332.8	3349.3	3360.6	3349.3	3332.8	3312.5	3305.0	3312.5	3332.8



44°	708.3	709.7	713.9	727.1	735.2	727.1	713.9	709.7	708.3	709.7	713.9
44.5°	655.0	656.4	660.6	675.7	683.3	675.7	660.6	656.4	655.0	656.4	660.6



66.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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°	3455.9	3459.7	3455.9	3443.7	3423.4	3409.7
22°	3349.3	3360.6	3349.3	3332.8	3312.5	3305.0

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44°	727.1	735.2	727.1	713.9	709.7	708.3
44.5°	675.7	683.3	675.7	660.6	656.4	655.0

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Scaled Data Report



66.5°	0.9	0.9	0.9	0.9	0.9	0.9
67°	0.9	0.9	0.9	0.9	0.9	0.9

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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)