

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: P776671

Luminaire Tested: HCDJBS4050CSD-HCD62TRC-5000lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776671
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-3000K
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

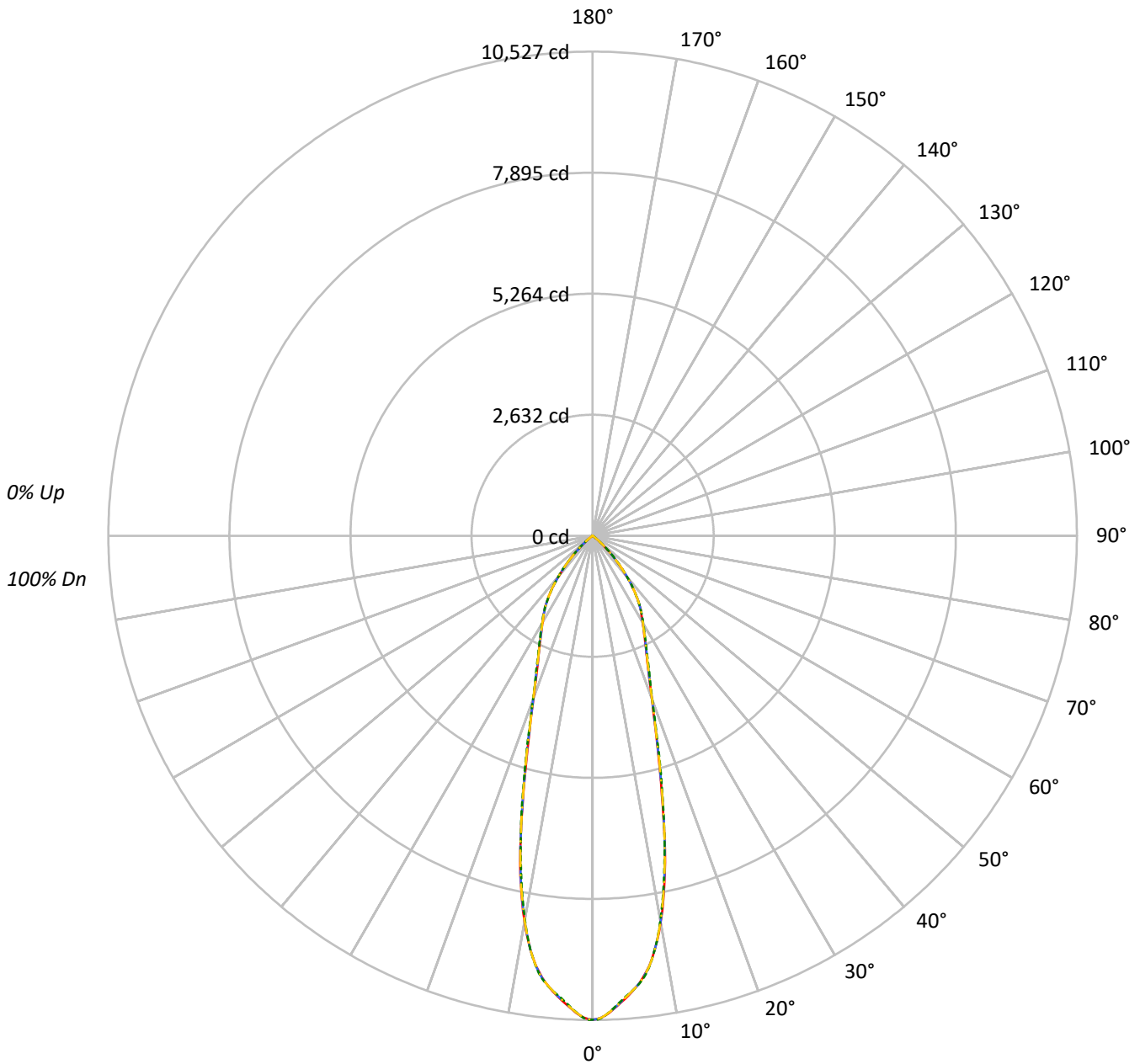
Lumens per Lamp: N/A
Luminaire Lumens: 5385.9 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	576801	576801	576801	576801
5°	547088	546471	547088	546471
10°	474501	471785	474501	471785
15°	330042	333924	330042	333924
20°	219032	221365	219032	221365
25°	166485	168850	166485	168850
30°	137660	139338	137660	139338
35°	115208	115302	115208	115302
40°	82054	83349	82054	83349
45°	46013	48284	46013	48284
50°	15658	18626	15658	18626
55°	1109	2399	1109	2399
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: 48284 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.3	16.8
10°-20°	1614.8	30.0
20°-30°	1289.5	23.9
30°-40°	1055.5	19.6
40°-50°	476.7	8.9
50°-60°	40.8	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°	3811.6	70.8
0°-40°	4867.2	90.4
0°-60°	5384.7	100.0
0°-90°	5385.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5385.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10522	10522	10522	10522	10522	
5°	9942	9930	9942	9930	9942	908
15°	5815	5884	5815	5884	5815	1612
25°	2752	2792	2752	2792	2752	1282
35°	1722	1723	1722	1723	1722	1053
45°	594	623	594	623	594	468
55°	12	25	12	25	12	36
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	10521.7	10521.7	10521.7	10521.7	10521.7	10521.7	10521.7	10521.7	10521.7	10521.7	10521.7
0.5°	10509.2	10509.2	10509.2	10511.0	10527.3	10511.0	10509.2	10509.2	10509.2	10509.2	10509.2
1°	10481.3	10481.3	10479.9	10480.4	10491.5	10480.4	10479.9	10481.3	10481.3	10481.3	10479.9
1.5°	10435.7	10435.3	10431.5	10429.2	10436.2	10429.2	10431.5	10435.3	10435.7	10435.3	10431.5
2°	10378.1	10375.3	10370.2	10364.6	10365.6	10364.6	10370.2	10375.3	10378.1	10375.3	10370.2
2.5°	10309.3	10307.5	10300.0	10290.7	10287.9	10290.7	10300.0	10307.5	10309.3	10307.5	10300.0
3°	10236.8	10234.5	10226.1	10213.6	10208.5	10213.6	10226.1	10234.5	10236.8	10234.5	10226.1
3.5°	10164.3	10161.0	10151.3	10138.7	10132.2	10138.7	10151.3	10161.0	10164.3	10161.0	10151.3
4°	10092.3	10087.1	10077.9	10068.1	10061.6	10068.1	10077.9	10087.1	10092.3	10087.1	10077.9
4.5°	10017.9	10013.2	10006.3	9999.8	9994.7	9999.8	10006.3	10013.2	10017.9	10013.2	10006.3
5°	9941.7	9938.4	9934.2	9931.4	9930.5	9931.4	9934.2	9938.4	9941.7	9938.4	9934.2
5.5°	9859.4	9857.5	9857.5	9859.4	9863.1	9859.4	9857.5	9857.5	9859.4	9857.5	9857.5
6°	9770.2	9770.2	9773.0	9780.4	9784.6	9780.4	9773.0	9770.2	9770.2	9770.2	9773.0
6.5°	9670.7	9673.0	9678.6	9686.5	9692.1	9686.5	9678.6	9673.0	9670.7	9673.0	9678.6
7°	9557.8	9562.4	9567.5	9575.9	9582.4	9575.9	9567.5	9562.4	9557.8	9562.4	9567.5
7.5°	9429.9	9431.8	9438.3	9444.4	9448.1	9444.4	9438.3	9431.8	9429.9	9431.8	9438.3
8°	9284.0	9284.9	9288.7	9292.4	9294.2	9292.4	9288.7	9284.9	9284.0	9284.9	9288.7
8.5°	9117.1	9117.1	9117.6	9116.7	9113.4	9116.7	9117.6	9117.1	9117.1	9117.1	9117.6
9°	8934.5	8934.0	8929.8	8923.3	8920.5	8923.3	8929.8	8934.0	8934.5	8934.0	8929.8
9.5°	8735.6	8734.2	8723.5	8714.2	8706.7	8714.2	8723.5	8734.2	8735.6	8734.2	8723.5
10°	8524.1	8519.4	8504.1	8486.9	8475.3	8486.9	8504.1	8519.4	8524.1	8519.4	8504.1
10.5°	8299.1	8289.4	8272.2	8251.3	8234.5	8251.3	8272.2	8289.4	8299.1	8289.4	8272.2
11°	8058.8	8050.5	8028.2	8011.0	7995.6	8011.0	8028.2	8050.5	8058.8	8050.5	8028.2
11.5°	7809.7	7802.3	7783.2	7758.1	7746.0	7758.1	7783.2	7802.3	7809.7	7802.3	7783.2
12°	7551.8	7545.7	7522.5	7499.2	7483.4	7499.2	7522.5	7545.7	7551.8	7545.7	7522.5
12.5°	7280.8	7270.6	7252.0	7229.7	7215.7	7229.7	7252.0	7270.6	7280.8	7270.6	7252.0
13°	6997.3	6992.2	6975.0	6962.0	6953.6	6962.0	6975.0	6992.2	6997.3	6992.2	6975.0
13.5°	6693.3	6697.0	6692.8	6688.2	6684.0	6688.2	6692.8	6697.0	6693.3	6697.0	6692.8
14°	6393.1	6399.6	6404.7	6411.2	6416.3	6411.2	6404.7	6399.6	6393.1	6399.6	6404.7
14.5°	6095.6	6105.8	6123.0	6139.8	6151.8	6139.8	6123.0	6105.8	6095.6	6105.8	6123.0
15°	5815.3	5823.7	5846.9	5868.8	5883.7	5868.8	5846.9	5823.7	5815.3	5823.7	5846.9
15.5°	5550.4	5561.6	5582.0	5606.2	5624.3	5606.2	5582.0	5561.6	5550.4	5561.6	5582.0
16°	5304.5	5311.5	5329.6	5358.5	5379.4	5358.5	5329.6	5311.5	5304.5	5311.5	5329.6
16.5°	5068.9	5074.5	5096.3	5122.4	5142.3	5122.4	5096.3	5074.5	5068.9	5074.5	5096.3
17°	4843.5	4849.5	4869.0	4895.1	4916.0	4895.1	4869.0	4849.5	4843.5	4849.5	4869.0
17.5°	4629.7	4635.7	4654.8	4676.2	4694.8	4676.2	4654.8	4635.7	4629.7	4635.7	4654.8
18°	4430.3	4435.4	4448.4	4468.9	4487.5	4468.9	4448.4	4435.4	4430.3	4435.4	4448.4
18.5°	4243.5	4244.8	4257.9	4283.0	4288.5	4283.0	4257.9	4244.8	4243.5	4244.8	4257.9
19°	4064.0	4067.8	4086.8	4110.5	4111.5	4110.5	4086.8	4067.8	4064.0	4067.8	4086.8
19.5°	3898.1	3908.3	3925.5	3946.0	3947.9	3946.0	3925.5	3908.3	3898.1	3908.3	3925.5
20°	3754.5	3756.8	3771.2	3792.2	3794.5	3792.2	3771.2	3756.8	3754.5	3756.8	3771.2
20.5°	3616.9	3620.6	3628.1	3646.7	3651.3	3646.7	3628.1	3620.6	3616.9	3620.6	3628.1
21°	3484.0	3490.0	3506.8	3517.9	3524.4	3517.9	3506.8	3490.0	3484.0	3490.0	3506.8



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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°	3155.9	3159.6	3180.0	3198.6	3216.3	3198.6	3180.0	3159.6	3155.9	3159.6	3180.0
23°	3065.2	3069.0	3082.0	3104.3	3124.3	3104.3	3082.0	3069.0	3065.2	3069.0	3082.0
23.5°	2979.7	2982.5	2995.1	3011.8	3034.1	3011.8	2995.1	2982.5	2979.7	2982.5	2995.1
24°	2898.8	2901.6	2912.8	2930.4	2945.3	2930.4	2912.8	2901.6	2898.8	2901.6	2912.8
24.5°	2824.0	2825.4	2834.2	2853.3	2865.4	2853.3	2834.2	2825.4	2824.0	2825.4	2834.2
25°	2752.4	2753.8	2760.8	2780.3	2791.5	2780.3	2760.8	2753.8	2752.4	2753.8	2760.8
25.5°	2683.6	2684.6	2692.0	2710.6	2720.8	2710.6	2692.0	2684.6	2683.6	2684.6	2692.0
26°	2617.6	2618.6	2625.5	2644.1	2654.4	2644.1	2625.5	2618.6	2617.6	2618.6	2625.5
26.5°	2553.0	2554.4	2560.9	2578.6	2588.8	2578.6	2560.9	2554.4	2553.0	2554.4	2560.9
27°	2492.6	2494.0	2499.6	2516.8	2528.4	2516.8	2499.6	2494.0	2492.6	2494.0	2499.6
27.5°	2435.5	2436.4	2441.5	2457.3	2468.5	2457.3	2441.5	2436.4	2435.5	2436.4	2441.5
28°	2380.1	2380.6	2386.2	2400.6	2410.8	2400.6	2386.2	2380.6	2380.1	2380.6	2386.2
28.5°	2326.7	2326.7	2332.3	2345.3	2356.0	2345.3	2332.3	2326.7	2326.7	2326.7	2332.3
29°	2275.1	2274.6	2279.3	2292.3	2302.1	2292.3	2279.3	2274.6	2275.1	2274.6	2279.3
29.5°	2223.5	2223.5	2229.1	2240.2	2250.0	2240.2	2229.1	2223.5	2223.5	2223.5	2229.1
30°	2174.7	2174.7	2180.3	2191.0	2201.2	2191.0	2180.3	2174.7	2174.7	2174.7	2180.3
30.5°	2127.8	2127.8	2132.9	2143.1	2152.9	2143.1	2132.9	2127.8	2127.8	2127.8	2132.9
31°	2083.1	2082.7	2088.7	2098.0	2107.8	2098.0	2088.7	2082.7	2083.1	2082.7	2088.7
31.5°	2040.4	2039.5	2044.6	2052.9	2062.7	2052.9	2044.6	2039.5	2040.4	2039.5	2044.6
32°	1999.5	1998.6	2003.2	2010.2	2017.2	2010.2	2003.2	1998.6	1999.5	1998.6	2003.2
32.5°	1958.6	1958.1	1960.0	1965.6	1970.2	1965.6	1960.0	1958.1	1958.6	1958.1	1960.0
33°	1916.3	1914.9	1914.9	1919.1	1923.3	1919.1	1914.9	1914.9	1916.3	1914.9	1914.9
33.5°	1871.2	1868.9	1869.4	1871.2	1877.3	1871.2	1869.4	1868.9	1871.2	1868.9	1869.4
34°	1823.3	1821.0	1821.0	1819.6	1826.1	1819.6	1821.0	1821.0	1823.3	1821.0	1821.0
34.5°	1773.6	1770.8	1771.7	1769.9	1775.5	1769.9	1771.7	1770.8	1773.6	1770.8	1771.7
35°	1721.5	1720.6	1720.2	1720.2	1722.9	1720.2	1720.2	1720.6	1721.5	1720.6	1720.2
35.5°	1668.6	1667.2	1666.7	1669.5	1669.5	1669.5	1666.7	1667.2	1668.6	1667.2	1666.7
36°	1614.2	1613.7	1613.7	1617.0	1614.7	1617.0	1613.7	1613.7	1614.2	1613.7	1613.7
36.5°	1557.5	1559.3	1559.3	1564.0	1560.3	1564.0	1559.3	1559.3	1557.5	1559.3	1559.3
37°	1500.3	1503.1	1505.0	1509.1	1504.5	1509.1	1505.0	1503.1	1500.3	1503.1	1505.0
37.5°	1444.1	1445.9	1452.0	1452.9	1449.2	1452.9	1452.0	1445.9	1444.1	1445.9	1452.0
38°	1387.4	1387.8	1395.3	1394.3	1393.9	1394.3	1395.3	1387.8	1387.4	1387.8	1395.3
38.5°	1329.7	1328.8	1337.6	1335.3	1337.2	1335.3	1337.6	1328.8	1329.7	1328.8	1337.6
39°	1269.3	1270.2	1280.0	1275.8	1280.9	1275.8	1280.0	1270.2	1269.3	1270.2	1280.0
39.5°	1208.0	1210.8	1221.9	1217.3	1222.8	1217.3	1221.9	1210.8	1208.0	1210.8	1221.9
40°	1146.6	1151.7	1163.3	1159.2	1164.7	1159.2	1163.3	1151.7	1146.6	1151.7	1163.3
40.5°	1088.1	1093.2	1103.9	1102.9	1106.6	1102.9	1103.9	1093.2	1088.1	1093.2	1103.9
41°	1030.4	1035.1	1044.4	1046.2	1048.5	1046.2	1044.4	1035.1	1030.4	1035.1	1044.4
41.5°	973.7	977.9	984.9	990.9	991.8	990.9	984.9	977.9	973.7	977.9	984.9
42°	917.5	920.7	926.3	935.1	936.1	935.1	926.3	920.7	917.5	920.7	926.3
42.5°	862.6	865.0	868.7	880.3	882.6	880.3	868.7	865.0	862.6	865.0	868.7
43°	807.3	809.2	812.0	825.0	829.2	825.0	812.0	809.2	807.3	809.2	812.0
43.5°	752.9	753.4	757.1	770.1	776.2	770.1	757.1	753.4	752.9	753.4	757.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	593.5	594.9	601.4	615.4	622.8	615.4	601.4	594.9	593.5	594.9	601.4
45.5°	544.3	546.1	552.6	567.0	573.5	567.0	552.6	546.1	544.3	546.1	552.6
46°	497.8	498.2	505.2	518.7	526.1	518.7	505.2	498.2	497.8	498.2	505.2
46.5°	451.8	452.7	458.7	471.3	480.6	471.3	458.7	452.7	451.8	452.7	458.7
47°	407.1	408.1	415.0	427.1	436.4	427.1	415.0	408.1	407.1	408.1	415.0
47.5°	363.0	365.8	374.1	384.4	395.5	384.4	374.1	365.8	363.0	365.8	374.1
48°	323.0	324.9	334.6	344.9	354.6	344.9	334.6	324.9	323.0	324.9	334.6
48.5°	284.4	286.3	297.0	307.7	317.9	307.7	297.0	286.3	284.4	286.3	297.0
49°	248.7	250.5	261.7	272.4	284.4	272.4	261.7	250.5	248.7	250.5	261.7
49.5°	214.7	218.4	228.7	239.4	251.4	239.4	228.7	218.4	214.7	218.4	228.7
50°	183.6	187.8	198.5	208.2	218.4	208.2	198.5	187.8	183.6	187.8	198.5
50.5°	154.8	161.3	170.6	178.9	185.4	178.9	170.6	161.3	154.8	161.3	170.6
51°	129.7	136.2	144.5	151.5	155.2	151.5	144.5	136.2	129.7	136.2	144.5
51.5°	109.2	113.9	119.9	127.4	130.1	127.4	119.9	113.9	109.2	113.9	119.9
52°	90.6	94.8	99.5	106.0	107.4	106.0	99.5	94.8	90.6	94.8	99.5
52.5°	74.4	76.2	81.8	87.4	86.4	87.4	81.8	76.2	74.4	76.2	81.8
53°	58.1	61.4	65.1	69.7	68.8	69.7	65.1	61.4	58.1	61.4	65.1
53.5°	41.8	46.5	50.2	53.4	53.0	53.4	50.2	46.5	41.8	46.5	50.2
54°	30.2	32.1	36.3	40.4	43.7	40.4	36.3	32.1	30.2	32.1	36.3
54.5°	19.1	21.4	26.0	28.8	34.4	28.8	26.0	21.4	19.1	21.4	26.0
55°	11.6	13.5	17.7	20.0	25.1	20.0	17.7	13.5	11.6	13.5	17.7
55.5°	8.4	8.4	10.2	12.5	16.3	12.5	10.2	8.4	8.4	10.2	12.5
56°	6.0	5.6	6.5	7.9	8.4	7.9	6.5	5.6	6.0	5.6	6.5
56.5°	4.2	3.7	4.6	6.0	4.6	6.0	4.6	3.7	4.2	3.7	4.6
57°	2.3	3.3	3.3	4.2	2.8	4.2	3.3	3.3	2.3	3.3	3.3
57.5°	2.3	2.3	2.3	3.3	2.3	3.3	2.3	2.3	2.3	2.3	2.3
58°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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: P776671

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3000K

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: P776671

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-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: P776671

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	10521.7	10521.7	10521.7	10521.7	10521.7	10521.7
0.5°	10511.0	10527.3	10511.0	10509.2	10509.2	10509.2
1°	10480.4	10491.5	10480.4	10479.9	10481.3	10481.3
1.5°	10429.2	10436.2	10429.2	10431.5	10435.3	10435.7
2°	10364.6	10365.6	10364.6	10370.2	10375.3	10378.1
2.5°	10290.7	10287.9	10290.7	10300.0	10307.5	10309.3
3°	10213.6	10208.5	10213.6	10226.1	10234.5	10236.8
3.5°	10138.7	10132.2	10138.7	10151.3	10161.0	10164.3
4°	10068.1	10061.6	10068.1	10077.9	10087.1	10092.3
4.5°	9999.8	9994.7	9999.8	10006.3	10013.2	10017.9
5°	9931.4	9930.5	9931.4	9934.2	9938.4	9941.7
5.5°	9859.4	9863.1	9859.4	9857.5	9857.5	9859.4
6°	9780.4	9784.6	9780.4	9773.0	9770.2	9770.2
6.5°	9686.5	9692.1	9686.5	9678.6	9673.0	9670.7
7°	9575.9	9582.4	9575.9	9567.5	9562.4	9557.8
7.5°	9444.4	9448.1	9444.4	9438.3	9431.8	9429.9
8°	9292.4	9294.2	9292.4	9288.7	9284.9	9284.0
8.5°	9116.7	9113.4	9116.7	9117.6	9117.1	9117.1
9°	8923.3	8920.5	8923.3	8929.8	8934.0	8934.5
9.5°	8714.2	8706.7	8714.2	8723.5	8734.2	8735.6
10°	8486.9	8475.3	8486.9	8504.1	8519.4	8524.1
10.5°	8251.3	8234.5	8251.3	8272.2	8289.4	8299.1
11°	8011.0	7995.6	8011.0	8028.2	8050.5	8058.8
11.5°	7758.1	7746.0	7758.1	7783.2	7802.3	7809.7
12°	7499.2	7483.4	7499.2	7522.5	7545.7	7551.8
12.5°	7229.7	7215.7	7229.7	7252.0	7270.6	7280.8
13°	6962.0	6953.6	6962.0	6975.0	6992.2	6997.3
13.5°	6688.2	6684.0	6688.2	6692.8	6697.0	6693.3
14°	6411.2	6416.3	6411.2	6404.7	6399.6	6393.1
14.5°	6139.8	6151.8	6139.8	6123.0	6105.8	6095.6
15°	5868.8	5883.7	5868.8	5846.9	5823.7	5815.3
15.5°	5606.2	5624.3	5606.2	5582.0	5561.6	5550.4
16°	5358.5	5379.4	5358.5	5329.6	5311.5	5304.5
16.5°	5122.4	5142.3	5122.4	5096.3	5074.5	5068.9
17°	4895.1	4916.0	4895.1	4869.0	4849.5	4843.5
17.5°	4676.2	4694.8	4676.2	4654.8	4635.7	4629.7
18°	4468.9	4487.5	4468.9	4448.4	4435.4	4430.3
18.5°	4283.0	4288.5	4283.0	4257.9	4244.8	4243.5
19°	4110.5	4111.5	4110.5	4086.8	4067.8	4064.0
19.5°	3946.0	3947.9	3946.0	3925.5	3908.3	3898.1
20°	3792.2	3794.5	3792.2	3771.2	3756.8	3754.5
20.5°	3646.7	3651.3	3646.7	3628.1	3620.6	3616.9
21°	3517.9	3524.4	3517.9	3506.8	3490.0	3484.0



TEST NUMBER: P776671

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3198.6	3216.3	3198.6	3180.0	3159.6	3155.9
23°	3104.3	3124.3	3104.3	3082.0	3069.0	3065.2
23.5°	3011.8	3034.1	3011.8	2995.1	2982.5	2979.7
24°	2930.4	2945.3	2930.4	2912.8	2901.6	2898.8
24.5°	2853.3	2865.4	2853.3	2834.2	2825.4	2824.0
25°	2780.3	2791.5	2780.3	2760.8	2753.8	2752.4
25.5°	2710.6	2720.8	2710.6	2692.0	2684.6	2683.6
26°	2644.1	2654.4	2644.1	2625.5	2618.6	2617.6
26.5°	2578.6	2588.8	2578.6	2560.9	2554.4	2553.0
27°	2516.8	2528.4	2516.8	2499.6	2494.0	2492.6
27.5°	2457.3	2468.5	2457.3	2441.5	2436.4	2435.5
28°	2400.6	2410.8	2400.6	2386.2	2380.6	2380.1
28.5°	2345.3	2356.0	2345.3	2332.3	2326.7	2326.7
29°	2292.3	2302.1	2292.3	2279.3	2274.6	2275.1
29.5°	2240.2	2250.0	2240.2	2229.1	2223.5	2223.5
30°	2191.0	2201.2	2191.0	2180.3	2174.7	2174.7
30.5°	2143.1	2152.9	2143.1	2132.9	2127.8	2127.8
31°	2098.0	2107.8	2098.0	2088.7	2082.7	2083.1
31.5°	2052.9	2062.7	2052.9	2044.6	2039.5	2040.4
32°	2010.2	2017.2	2010.2	2003.2	1998.6	1999.5
32.5°	1965.6	1970.2	1965.6	1960.0	1958.1	1958.6
33°	1919.1	1923.3	1919.1	1914.9	1914.9	1916.3
33.5°	1871.2	1877.3	1871.2	1869.4	1868.9	1871.2
34°	1819.6	1826.1	1819.6	1821.0	1821.0	1823.3
34.5°	1769.9	1775.5	1769.9	1771.7	1770.8	1773.6
35°	1720.2	1722.9	1720.2	1720.2	1720.6	1721.5
35.5°	1669.5	1669.5	1669.5	1666.7	1667.2	1668.6
36°	1617.0	1614.7	1617.0	1613.7	1613.7	1614.2
36.5°	1564.0	1560.3	1564.0	1559.3	1559.3	1557.5
37°	1509.1	1504.5	1509.1	1505.0	1503.1	1500.3
37.5°	1452.9	1449.2	1452.9	1452.0	1445.9	1444.1
38°	1394.3	1393.9	1394.3	1395.3	1387.8	1387.4
38.5°	1335.3	1337.2	1335.3	1337.6	1328.8	1329.7
39°	1275.8	1280.9	1275.8	1280.0	1270.2	1269.3
39.5°	1217.3	1222.8	1217.3	1221.9	1210.8	1208.0
40°	1159.2	1164.7	1159.2	1163.3	1151.7	1146.6
40.5°	1102.9	1106.6	1102.9	1103.9	1093.2	1088.1
41°	1046.2	1048.5	1046.2	1044.4	1035.1	1030.4
41.5°	990.9	991.8	990.9	984.9	977.9	973.7
42°	935.1	936.1	935.1	926.3	920.7	917.5
42.5°	880.3	882.6	880.3	868.7	865.0	862.6
43°	825.0	829.2	825.0	812.0	809.2	807.3
43.5°	770.1	776.2	770.1	757.1	753.4	752.9



TEST NUMBER: P776671

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	615.4	622.8	615.4	601.4	594.9	593.5
45.5°	567.0	573.5	567.0	552.6	546.1	544.3
46°	518.7	526.1	518.7	505.2	498.2	497.8
46.5°	471.3	480.6	471.3	458.7	452.7	451.8
47°	427.1	436.4	427.1	415.0	408.1	407.1
47.5°	384.4	395.5	384.4	374.1	365.8	363.0
48°	344.9	354.6	344.9	334.6	324.9	323.0
48.5°	307.7	317.9	307.7	297.0	286.3	284.4
49°	272.4	284.4	272.4	261.7	250.5	248.7
49.5°	239.4	251.4	239.4	228.7	218.4	214.7
50°	208.2	218.4	208.2	198.5	187.8	183.6
50.5°	178.9	185.4	178.9	170.6	161.3	154.8
51°	151.5	155.2	151.5	144.5	136.2	129.7
51.5°	127.4	130.1	127.4	119.9	113.9	109.2
52°	106.0	107.4	106.0	99.5	94.8	90.6
52.5°	87.4	86.4	87.4	81.8	76.2	74.4
53°	69.7	68.8	69.7	65.1	61.4	58.1
53.5°	53.4	53.0	53.4	50.2	46.5	41.8
54°	40.4	43.7	40.4	36.3	32.1	30.2
54.5°	28.8	34.4	28.8	26.0	21.4	19.1
55°	20.0	25.1	20.0	17.7	13.5	11.6
55.5°	12.5	16.3	12.5	10.2	8.4	8.4
56°	7.9	8.4	7.9	6.5	5.6	6.0
56.5°	6.0	4.6	6.0	4.6	3.7	4.2
57°	4.2	2.8	4.2	3.3	3.3	2.3
57.5°	3.3	2.3	3.3	2.3	2.3	2.3
58°	2.3	2.3	2.3	2.3	2.3	2.3
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: P776671

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-3000K

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: P776671

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-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

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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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°	3358.5	3372.0	3392.0	3404.1	3407.8	3404.1	3392.0	3372.0	3358.5	3372.0	3392.0
22°	3255.3	3262.8	3282.7	3299.0	3310.2	3299.0	3282.7	3262.8	3255.3	3262.8	3282.7



44°	697.6	699.0	703.2	716.2	724.1	716.2	703.2	699.0	697.6	699.0	703.2
44.5°	645.1	646.5	650.7	665.6	673.0	665.6	650.7	646.5	645.1	646.5	650.7



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°	3404.1	3407.8	3404.1	3392.0	3372.0	3358.5
22°	3299.0	3310.2	3299.0	3282.7	3262.8	3255.3



44°	716.2	724.1	716.2	703.2	699.0	697.6
44.5°	665.6	673.0	665.6	650.7	646.5	645.1

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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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Scaled Data Report



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)