

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: P775743

Luminaire Tested: HCDJBL510CSD-HCD62TRC-1000lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775743  
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: HCDJBL510CSD-HCD62TRC-1000lm-4000K  
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

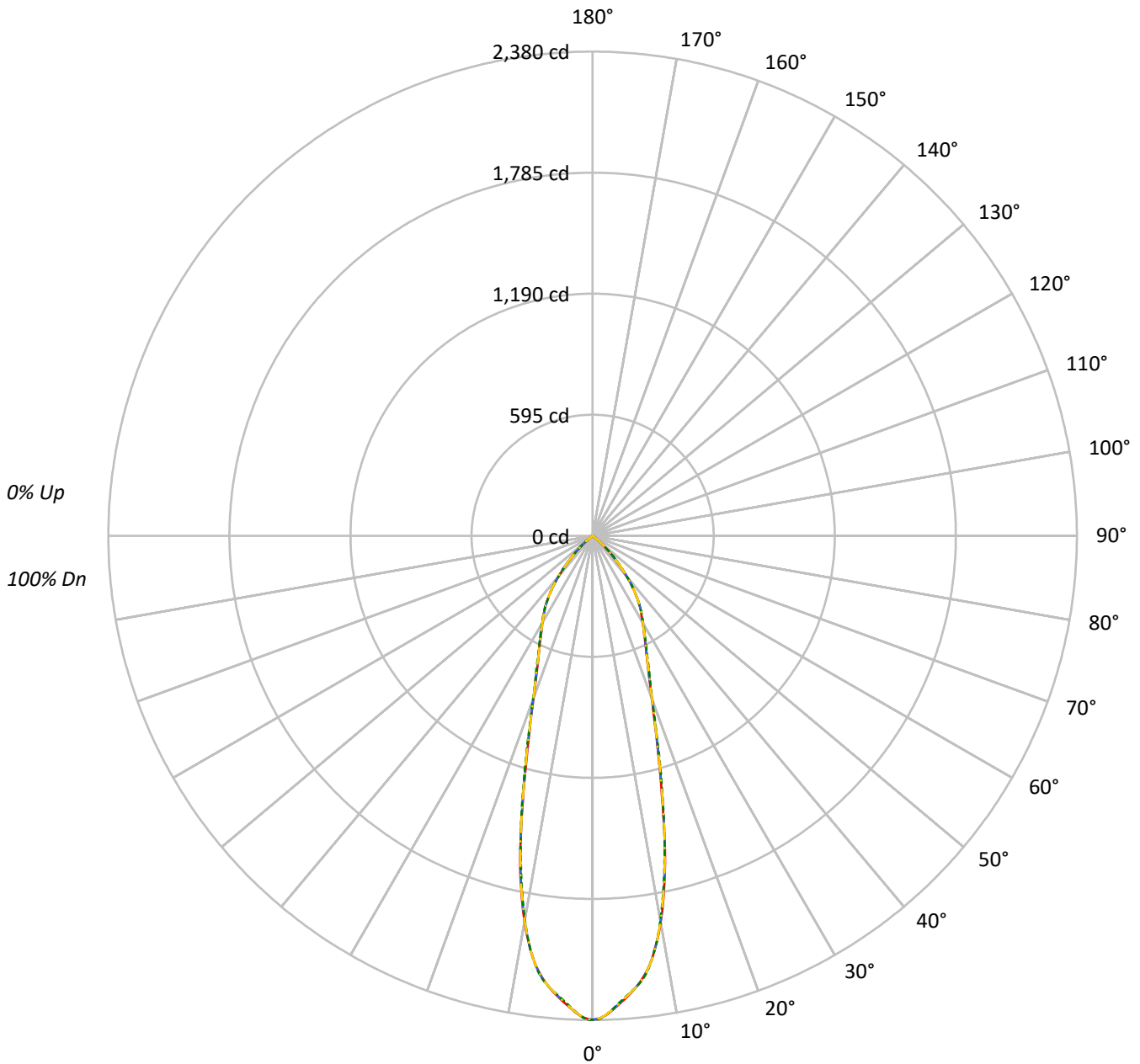
Lumens per Lamp: N/A  
Luminaire Lumens: 1217.7 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82	82	82	82	82	82		
	4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	77	74	72	72	72	72	72	72		
	6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68	68	68	68		
	7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57	57	57	57	57	57		
	10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55	55	55	55	55	55		

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

	0°	90°	180°	270°
0°	130412	130412	130412	130412
5°	123690	123552	123690	123552
10°	107279	106667	107279	106667
15°	74620	75494	74620	75494
20°	49523	50049	49523	50049
25°	37641	38174	37641	38174
30°	31125	31505	31125	31505
35°	26046	26067	26046	26067
40°	18549	18842	18549	18842
45°	10404	10916	10404	10916
50°	3539	4213	3539	4213
55°	248	545	248	545
60°	44	44	44	44
65°	26	26	26	26
70°	16	16	16	16
75°	21	21	21	21
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10916 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.1	16.8
10°-20°	365.1	30.0
20°-30°	291.5	23.9
30°-40°	238.6	19.6
40°-50°	107.8	8.9
50°-60°	9.2	0.8
60°-70°	0.2	0.0
70°-80°	0.1	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°	861.8	70.8
0°-40°	1100.4	90.4
0°-60°	1217.4	100.0
0°-90°	1217.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1217.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2379	2379	2379	2379	2379	
5°	2248	2245	2248	2245	2248	205
15°	1315	1330	1315	1330	1315	364
25°	622	631	622	631	622	290
35°	389	390	389	390	389	238
45°	134	141	134	141	134	106
55°	3	6	3	6	3	8
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°	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9
0.5°	2376.0	2376.0	2376.0	2376.4	2380.1	2376.4	2376.0	2376.0	2376.0	2376.0	2376.0
1°	2369.7	2369.7	2369.4	2369.5	2372.0	2369.5	2369.4	2369.7	2369.7	2369.7	2369.4
1.5°	2359.4	2359.3	2358.5	2357.9	2359.5	2357.9	2358.5	2359.3	2359.4	2359.3	2358.5
2°	2346.4	2345.8	2344.6	2343.3	2343.5	2343.3	2344.6	2345.8	2346.4	2345.8	2344.6
2.5°	2330.8	2330.4	2328.7	2326.6	2326.0	2326.6	2328.7	2330.4	2330.8	2330.4	2328.7
3°	2314.4	2313.9	2312.0	2309.2	2308.0	2309.2	2312.0	2313.9	2314.4	2313.9	2312.0
3.5°	2298.0	2297.3	2295.1	2292.3	2290.8	2292.3	2295.1	2297.3	2298.0	2297.3	2295.1
4°	2281.8	2280.6	2278.5	2276.3	2274.8	2276.3	2278.5	2280.6	2281.8	2280.6	2278.5
4.5°	2264.9	2263.9	2262.3	2260.8	2259.7	2260.8	2262.3	2263.9	2264.9	2263.9	2262.3
5°	2247.7	2247.0	2246.0	2245.4	2245.2	2245.4	2246.0	2247.0	2247.7	2247.0	2246.0
5.5°	2229.1	2228.7	2228.7	2229.1	2230.0	2229.1	2228.7	2228.7	2229.1	2228.7	2228.7
6°	2208.9	2208.9	2209.6	2211.3	2212.2	2211.3	2209.6	2208.9	2208.9	2208.9	2209.6
6.5°	2186.5	2187.0	2188.2	2190.0	2191.3	2190.0	2188.2	2187.0	2186.5	2187.0	2188.2
7°	2160.9	2162.0	2163.1	2165.0	2166.5	2165.0	2163.1	2162.0	2160.9	2162.0	2163.1
7.5°	2132.0	2132.4	2133.9	2135.3	2136.1	2135.3	2133.9	2132.4	2132.0	2132.4	2133.9
8°	2099.0	2099.2	2100.1	2100.9	2101.3	2100.9	2100.1	2099.2	2099.0	2099.2	2100.1
8.5°	2061.3	2061.3	2061.4	2061.2	2060.5	2061.2	2061.4	2061.3	2061.3	2061.3	2061.4
9°	2020.0	2019.9	2018.9	2017.5	2016.8	2017.5	2018.9	2019.9	2020.0	2019.9	2018.9
9.5°	1975.0	1974.7	1972.3	1970.2	1968.5	1970.2	1972.3	1974.7	1975.0	1974.7	1972.3
10°	1927.2	1926.2	1922.7	1918.8	1916.2	1918.8	1922.7	1926.2	1927.2	1926.2	1922.7
10.5°	1876.4	1874.1	1870.3	1865.5	1861.7	1865.5	1870.3	1874.1	1876.4	1874.1	1870.3
11°	1822.0	1820.1	1815.1	1811.2	1807.7	1811.2	1815.1	1820.1	1822.0	1820.1	1815.1
11.5°	1765.7	1764.0	1759.7	1754.0	1751.3	1754.0	1759.7	1764.0	1765.7	1764.0	1759.7
12°	1707.4	1706.0	1700.8	1695.5	1691.9	1695.5	1700.8	1706.0	1707.4	1706.0	1700.8
12.5°	1646.1	1643.8	1639.6	1634.6	1631.4	1634.6	1639.6	1643.8	1646.1	1643.8	1639.6
13°	1582.0	1580.9	1577.0	1574.0	1572.1	1574.0	1577.0	1580.9	1582.0	1580.9	1577.0
13.5°	1513.3	1514.1	1513.2	1512.1	1511.2	1512.1	1513.2	1514.1	1513.3	1514.1	1513.2
14°	1445.4	1446.9	1448.0	1449.5	1450.7	1449.5	1448.0	1446.9	1445.4	1446.9	1448.0
14.5°	1378.2	1380.5	1384.4	1388.1	1390.9	1388.1	1384.4	1380.5	1378.2	1380.5	1384.4
15°	1314.8	1316.7	1321.9	1326.9	1330.2	1326.9	1321.9	1316.7	1314.8	1316.7	1321.9
15.5°	1254.9	1257.4	1262.0	1267.5	1271.6	1267.5	1262.0	1257.4	1254.9	1257.4	1262.0
16°	1199.3	1200.9	1205.0	1211.5	1216.2	1211.5	1205.0	1200.9	1199.3	1200.9	1205.0
16.5°	1146.0	1147.3	1152.2	1158.1	1162.6	1158.1	1152.2	1147.3	1146.0	1147.3	1152.2
17°	1095.1	1096.4	1100.8	1106.7	1111.5	1106.7	1100.8	1096.4	1095.1	1096.4	1100.8
17.5°	1046.7	1048.1	1052.4	1057.2	1061.4	1057.2	1052.4	1048.1	1046.7	1048.1	1052.4
18°	1001.6	1002.8	1005.7	1010.4	1014.6	1010.4	1005.7	1002.8	1001.6	1002.8	1005.7
18.5°	959.4	959.7	962.7	968.3	969.6	968.3	962.7	959.7	959.4	959.7	962.7
19°	918.8	919.7	924.0	929.3	929.6	929.3	924.0	919.7	918.8	919.7	924.0
19.5°	881.3	883.6	887.5	892.2	892.6	892.2	887.5	883.6	881.3	883.6	887.5
20°	848.9	849.4	852.6	857.4	857.9	857.4	852.6	849.4	848.9	849.4	852.6
20.5°	817.8	818.6	820.3	824.5	825.5	824.5	820.3	818.6	817.8	818.6	820.3
21°	787.7	789.1	792.8	795.4	796.8	795.4	792.8	789.1	787.7	789.1	792.8



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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°	713.5	714.4	719.0	723.2	727.2	723.2	719.0	714.4	713.5	714.4	719.0
23°	693.0	693.9	696.8	701.8	706.4	701.8	696.8	693.9	693.0	693.9	696.8
23.5°	673.7	674.3	677.2	680.9	686.0	680.9	677.2	674.3	673.7	674.3	677.2
24°	655.4	656.0	658.6	662.5	665.9	662.5	658.6	656.0	655.4	656.0	658.6
24.5°	638.5	638.8	640.8	645.1	647.8	645.1	640.8	638.8	638.5	638.8	640.8
25°	622.3	622.6	624.2	628.6	631.1	628.6	624.2	622.6	622.3	622.6	624.2
25.5°	606.7	607.0	608.6	612.8	615.2	612.8	608.6	607.0	606.7	607.0	608.6
26°	591.8	592.0	593.6	597.8	600.1	597.8	593.6	592.0	591.8	592.0	593.6
26.5°	577.2	577.5	579.0	583.0	585.3	583.0	579.0	577.5	577.2	577.5	579.0
27°	563.6	563.9	565.1	569.0	571.6	569.0	565.1	563.9	563.6	563.9	565.1
27.5°	550.6	550.8	552.0	555.6	558.1	555.6	552.0	550.8	550.6	550.8	552.0
28°	538.1	538.2	539.5	542.8	545.1	542.8	539.5	538.2	538.1	538.2	539.5
28.5°	526.0	526.0	527.3	530.2	532.7	530.2	527.3	526.0	526.0	526.0	527.3
29°	514.4	514.3	515.3	518.3	520.5	518.3	515.3	514.3	514.4	514.3	515.3
29.5°	502.7	502.7	504.0	506.5	508.7	506.5	504.0	502.7	502.7	502.7	504.0
30°	491.7	491.7	492.9	495.4	497.7	495.4	492.9	491.7	491.7	491.7	492.9
30.5°	481.1	481.1	482.2	484.5	486.7	484.5	482.2	481.1	481.1	481.1	482.2
31°	471.0	470.9	472.2	474.3	476.5	474.3	472.2	470.9	471.0	470.9	472.2
31.5°	461.3	461.1	462.3	464.1	466.4	464.1	462.3	461.1	461.3	461.1	462.3
32°	452.1	451.9	452.9	454.5	456.1	454.5	452.9	451.9	452.1	451.9	452.9
32.5°	442.8	442.7	443.1	444.4	445.4	444.4	443.1	442.7	442.8	442.7	443.1
33°	433.3	432.9	432.9	433.9	434.8	433.9	432.9	432.9	433.3	432.9	432.9
33.5°	423.1	422.5	422.6	423.1	424.4	423.1	422.6	422.5	423.1	422.5	422.6
34°	412.2	411.7	411.7	411.4	412.9	411.4	411.7	411.7	412.2	411.7	411.7
34.5°	401.0	400.4	400.6	400.2	401.4	400.2	400.6	400.4	401.0	400.4	400.6
35°	389.2	389.0	388.9	388.9	389.5	388.9	388.9	389.0	389.2	389.0	388.9
35.5°	377.2	376.9	376.8	377.5	377.5	377.5	376.8	376.9	377.2	376.9	376.8
36°	365.0	364.8	364.8	365.6	365.1	365.6	364.8	364.8	365.0	364.8	364.8
36.5°	352.1	352.6	352.6	353.6	352.8	353.6	352.6	352.6	352.1	352.6	352.6
37°	339.2	339.8	340.3	341.2	340.2	341.2	340.3	339.8	339.2	339.8	340.3
37.5°	326.5	326.9	328.3	328.5	327.6	328.5	328.3	326.9	326.5	326.9	328.3
38°	313.7	313.8	315.5	315.2	315.1	315.2	315.5	313.8	313.7	313.8	315.5
38.5°	300.6	300.4	302.4	301.9	302.3	301.9	302.4	300.4	300.6	300.4	302.4
39°	287.0	287.2	289.4	288.5	289.6	288.5	289.4	287.2	287.0	287.2	289.4
39.5°	273.1	273.7	276.3	275.2	276.5	275.2	276.3	273.7	273.1	273.7	276.3
40°	259.2	260.4	263.0	262.1	263.3	262.1	263.0	260.4	259.2	260.4	263.0
40.5°	246.0	247.2	249.6	249.4	250.2	249.4	249.6	247.2	246.0	247.2	249.6
41°	233.0	234.0	236.1	236.5	237.1	236.5	236.1	234.0	233.0	234.0	236.1
41.5°	220.1	221.1	222.7	224.0	224.2	224.0	222.7	221.1	220.1	221.1	222.7
42°	207.4	208.2	209.4	211.4	211.6	211.4	209.4	208.2	207.4	208.2	209.4
42.5°	195.0	195.6	196.4	199.0	199.6	199.0	196.4	195.6	195.0	195.6	196.4
43°	182.5	182.9	183.6	186.5	187.5	186.5	183.6	182.9	182.5	182.9	183.6
43.5°	170.2	170.3	171.2	174.1	175.5	174.1	171.2	170.3	170.2	170.3	171.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	134.2	134.5	136.0	139.1	140.8	139.1	136.0	134.5	134.2	134.5	136.0
45.5°	123.1	123.5	124.9	128.2	129.7	128.2	124.9	123.5	123.1	123.5	124.9
46°	112.5	112.6	114.2	117.3	119.0	117.3	114.2	112.6	112.5	112.6	114.2
46.5°	102.1	102.4	103.7	106.6	108.7	106.6	103.7	102.4	102.1	102.4	103.7
47°	92.1	92.3	93.8	96.6	98.7	96.6	93.8	92.3	92.1	92.3	93.8
47.5°	82.1	82.7	84.6	86.9	89.4	86.9	84.6	82.7	82.1	82.7	84.6
48°	73.0	73.5	75.7	78.0	80.2	78.0	75.7	73.5	73.0	73.5	75.7
48.5°	64.3	64.7	67.1	69.6	71.9	69.6	67.1	64.7	64.3	64.7	67.1
49°	56.2	56.6	59.2	61.6	64.3	61.6	59.2	56.6	56.2	56.6	59.2
49.5°	48.5	49.4	51.7	54.1	56.8	54.1	51.7	49.4	48.5	49.4	51.7
50°	41.5	42.5	44.9	47.1	49.4	47.1	44.9	42.5	41.5	42.5	44.9
50.5°	35.0	36.5	38.6	40.5	41.9	40.5	38.6	36.5	35.0	36.5	38.6
51°	29.3	30.8	32.7	34.3	35.1	34.3	32.7	30.8	29.3	30.8	32.7
51.5°	24.7	25.7	27.1	28.8	29.4	28.8	27.1	25.7	24.7	25.7	27.1
52°	20.5	21.4	22.5	24.0	24.3	24.0	22.5	21.4	20.5	21.4	22.5
52.5°	16.8	17.2	18.5	19.8	19.5	19.8	18.5	17.2	16.8	17.2	18.5
53°	13.1	13.9	14.7	15.8	15.6	15.8	14.7	13.9	13.1	13.9	14.7
53.5°	9.5	10.5	11.3	12.1	12.0	12.1	11.3	10.5	9.5	10.5	11.3
54°	6.8	7.3	8.2	9.1	9.9	9.1	8.2	7.3	6.8	7.3	8.2
54.5°	4.3	4.8	5.9	6.5	7.8	6.5	5.9	4.8	4.3	4.8	5.9
55°	2.6	3.0	4.0	4.5	5.7	4.5	4.0	3.0	2.6	3.0	4.0
55.5°	1.9	1.9	2.3	2.8	3.7	2.8	2.3	1.9	1.9	1.9	2.3
56°	1.4	1.3	1.5	1.8	1.9	1.8	1.5	1.3	1.4	1.3	1.5
56.5°	0.9	0.8	1.1	1.4	1.1	1.4	1.1	0.8	0.9	0.8	1.1
57°	0.5	0.7	0.7	0.9	0.6	0.9	0.7	0.7	0.5	0.7	0.7
57.5°	0.5	0.5	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.5	0.5
58°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
58.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2





TEST NUMBER: P775743

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
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: P775743  
CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-4000K

**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: P775743

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9
0.5°	2376.4	2380.1	2376.4	2376.0	2376.0	2376.0
1°	2369.5	2372.0	2369.5	2369.4	2369.7	2369.7
1.5°	2357.9	2359.5	2357.9	2358.5	2359.3	2359.4
2°	2343.3	2343.5	2343.3	2344.6	2345.8	2346.4
2.5°	2326.6	2326.0	2326.6	2328.7	2330.4	2330.8
3°	2309.2	2308.0	2309.2	2312.0	2313.9	2314.4
3.5°	2292.3	2290.8	2292.3	2295.1	2297.3	2298.0
4°	2276.3	2274.8	2276.3	2278.5	2280.6	2281.8
4.5°	2260.8	2259.7	2260.8	2262.3	2263.9	2264.9
5°	2245.4	2245.2	2245.4	2246.0	2247.0	2247.7
5.5°	2229.1	2230.0	2229.1	2228.7	2228.7	2229.1
6°	2211.3	2212.2	2211.3	2209.6	2208.9	2208.9
6.5°	2190.0	2191.3	2190.0	2188.2	2187.0	2186.5
7°	2165.0	2166.5	2165.0	2163.1	2162.0	2160.9
7.5°	2135.3	2136.1	2135.3	2133.9	2132.4	2132.0
8°	2100.9	2101.3	2100.9	2100.1	2099.2	2099.0
8.5°	2061.2	2060.5	2061.2	2061.4	2061.3	2061.3
9°	2017.5	2016.8	2017.5	2018.9	2019.9	2020.0
9.5°	1970.2	1968.5	1970.2	1972.3	1974.7	1975.0
10°	1918.8	1916.2	1918.8	1922.7	1926.2	1927.2
10.5°	1865.5	1861.7	1865.5	1870.3	1874.1	1876.4
11°	1811.2	1807.7	1811.2	1815.1	1820.1	1822.0
11.5°	1754.0	1751.3	1754.0	1759.7	1764.0	1765.7
12°	1695.5	1691.9	1695.5	1700.8	1706.0	1707.4
12.5°	1634.6	1631.4	1634.6	1639.6	1643.8	1646.1
13°	1574.0	1572.1	1574.0	1577.0	1580.9	1582.0
13.5°	1512.1	1511.2	1512.1	1513.2	1514.1	1513.3
14°	1449.5	1450.7	1449.5	1448.0	1446.9	1445.4
14.5°	1388.1	1390.9	1388.1	1384.4	1380.5	1378.2
15°	1326.9	1330.2	1326.9	1321.9	1316.7	1314.8
15.5°	1267.5	1271.6	1267.5	1262.0	1257.4	1254.9
16°	1211.5	1216.2	1211.5	1205.0	1200.9	1199.3
16.5°	1158.1	1162.6	1158.1	1152.2	1147.3	1146.0
17°	1106.7	1111.5	1106.7	1100.8	1096.4	1095.1
17.5°	1057.2	1061.4	1057.2	1052.4	1048.1	1046.7
18°	1010.4	1014.6	1010.4	1005.7	1002.8	1001.6
18.5°	968.3	969.6	968.3	962.7	959.7	959.4
19°	929.3	929.6	929.3	924.0	919.7	918.8
19.5°	892.2	892.6	892.2	887.5	883.6	881.3
20°	857.4	857.9	857.4	852.6	849.4	848.9
20.5°	824.5	825.5	824.5	820.3	818.6	817.8
21°	795.4	796.8	795.4	792.8	789.1	787.7



TEST NUMBER: P775743

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	723.2	727.2	723.2	719.0	714.4	713.5
23°	701.8	706.4	701.8	696.8	693.9	693.0
23.5°	680.9	686.0	680.9	677.2	674.3	673.7
24°	662.5	665.9	662.5	658.6	656.0	655.4
24.5°	645.1	647.8	645.1	640.8	638.8	638.5
25°	628.6	631.1	628.6	624.2	622.6	622.3
25.5°	612.8	615.2	612.8	608.6	607.0	606.7
26°	597.8	600.1	597.8	593.6	592.0	591.8
26.5°	583.0	585.3	583.0	579.0	577.5	577.2
27°	569.0	571.6	569.0	565.1	563.9	563.6
27.5°	555.6	558.1	555.6	552.0	550.8	550.6
28°	542.8	545.1	542.8	539.5	538.2	538.1
28.5°	530.2	532.7	530.2	527.3	526.0	526.0
29°	518.3	520.5	518.3	515.3	514.3	514.4
29.5°	506.5	508.7	506.5	504.0	502.7	502.7
30°	495.4	497.7	495.4	492.9	491.7	491.7
30.5°	484.5	486.7	484.5	482.2	481.1	481.1
31°	474.3	476.5	474.3	472.2	470.9	471.0
31.5°	464.1	466.4	464.1	462.3	461.1	461.3
32°	454.5	456.1	454.5	452.9	451.9	452.1
32.5°	444.4	445.4	444.4	443.1	442.7	442.8
33°	433.9	434.8	433.9	432.9	432.9	433.3
33.5°	423.1	424.4	423.1	422.6	422.5	423.1
34°	411.4	412.9	411.4	411.7	411.7	412.2
34.5°	400.2	401.4	400.2	400.6	400.4	401.0
35°	388.9	389.5	388.9	388.9	389.0	389.2
35.5°	377.5	377.5	377.5	376.8	376.9	377.2
36°	365.6	365.1	365.6	364.8	364.8	365.0
36.5°	353.6	352.8	353.6	352.6	352.6	352.1
37°	341.2	340.2	341.2	340.3	339.8	339.2
37.5°	328.5	327.6	328.5	328.3	326.9	326.5
38°	315.2	315.1	315.2	315.5	313.8	313.7
38.5°	301.9	302.3	301.9	302.4	300.4	300.6
39°	288.5	289.6	288.5	289.4	287.2	287.0
39.5°	275.2	276.5	275.2	276.3	273.7	273.1
40°	262.1	263.3	262.1	263.0	260.4	259.2
40.5°	249.4	250.2	249.4	249.6	247.2	246.0
41°	236.5	237.1	236.5	236.1	234.0	233.0
41.5°	224.0	224.2	224.0	222.7	221.1	220.1
42°	211.4	211.6	211.4	209.4	208.2	207.4
42.5°	199.0	199.6	199.0	196.4	195.6	195.0
43°	186.5	187.5	186.5	183.6	182.9	182.5
43.5°	174.1	175.5	174.1	171.2	170.3	170.2



TEST NUMBER: P775743

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	139.1	140.8	139.1	136.0	134.5	134.2
45.5°	128.2	129.7	128.2	124.9	123.5	123.1
46°	117.3	119.0	117.3	114.2	112.6	112.5
46.5°	106.6	108.7	106.6	103.7	102.4	102.1
47°	96.6	98.7	96.6	93.8	92.3	92.1
47.5°	86.9	89.4	86.9	84.6	82.7	82.1
48°	78.0	80.2	78.0	75.7	73.5	73.0
48.5°	69.6	71.9	69.6	67.1	64.7	64.3
49°	61.6	64.3	61.6	59.2	56.6	56.2
49.5°	54.1	56.8	54.1	51.7	49.4	48.5
50°	47.1	49.4	47.1	44.9	42.5	41.5
50.5°	40.5	41.9	40.5	38.6	36.5	35.0
51°	34.3	35.1	34.3	32.7	30.8	29.3
51.5°	28.8	29.4	28.8	27.1	25.7	24.7
52°	24.0	24.3	24.0	22.5	21.4	20.5
52.5°	19.8	19.5	19.8	18.5	17.2	16.8
53°	15.8	15.6	15.8	14.7	13.9	13.1
53.5°	12.1	12.0	12.1	11.3	10.5	9.5
54°	9.1	9.9	9.1	8.2	7.3	6.8
54.5°	6.5	7.8	6.5	5.9	4.8	4.3
55°	4.5	5.7	4.5	4.0	3.0	2.6
55.5°	2.8	3.7	2.8	2.3	1.9	1.9
56°	1.8	1.9	1.8	1.5	1.3	1.4
56.5°	1.4	1.1	1.4	1.1	0.8	0.9
57°	0.9	0.6	0.9	0.7	0.7	0.5
57.5°	0.7	0.5	0.7	0.5	0.5	0.5
58°	0.5	0.5	0.5	0.5	0.5	0.5
58.5°	0.4	0.4	0.4	0.4	0.4	0.4
59°	0.4	0.4	0.4	0.4	0.4	0.4
59.5°	0.4	0.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.3	0.3
61°	0.3	0.3	0.3	0.3	0.3	0.3
61.5°	0.3	0.3	0.3	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775743

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	0.1	0.2	0.2	0.2	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.1	0.1	0.1	0.1	0.1	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: P775743  
CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-4000K

**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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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





21.5°	759.3	762.4	766.9	769.6	770.5	769.6	766.9	762.4	759.3	762.4	766.9
22°	736.0	737.7	742.2	745.9	748.4	745.9	742.2	737.7	736.0	737.7	742.2



44°	157.7	158.0	159.0	161.9	163.7	161.9	159.0	158.0	157.7	158.0	159.0
44.5°	145.9	146.2	147.1	150.5	152.2	150.5	147.1	146.2	145.9	146.2	147.1



66.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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°	769.6	770.5	769.6	766.9	762.4	759.3
22°	745.9	748.4	745.9	742.2	737.7	736.0



44°	161.9	163.7	161.9	159.0	158.0	157.7
44.5°	150.5	152.2	150.5	147.1	146.2	145.9



66.5°	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.2	0.2

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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)