

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: P775952

Luminaire Tested: HCDJBS1525CSD-HCD42TRC-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B049)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD42TRC-2500lm-3500K
Description: 4 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

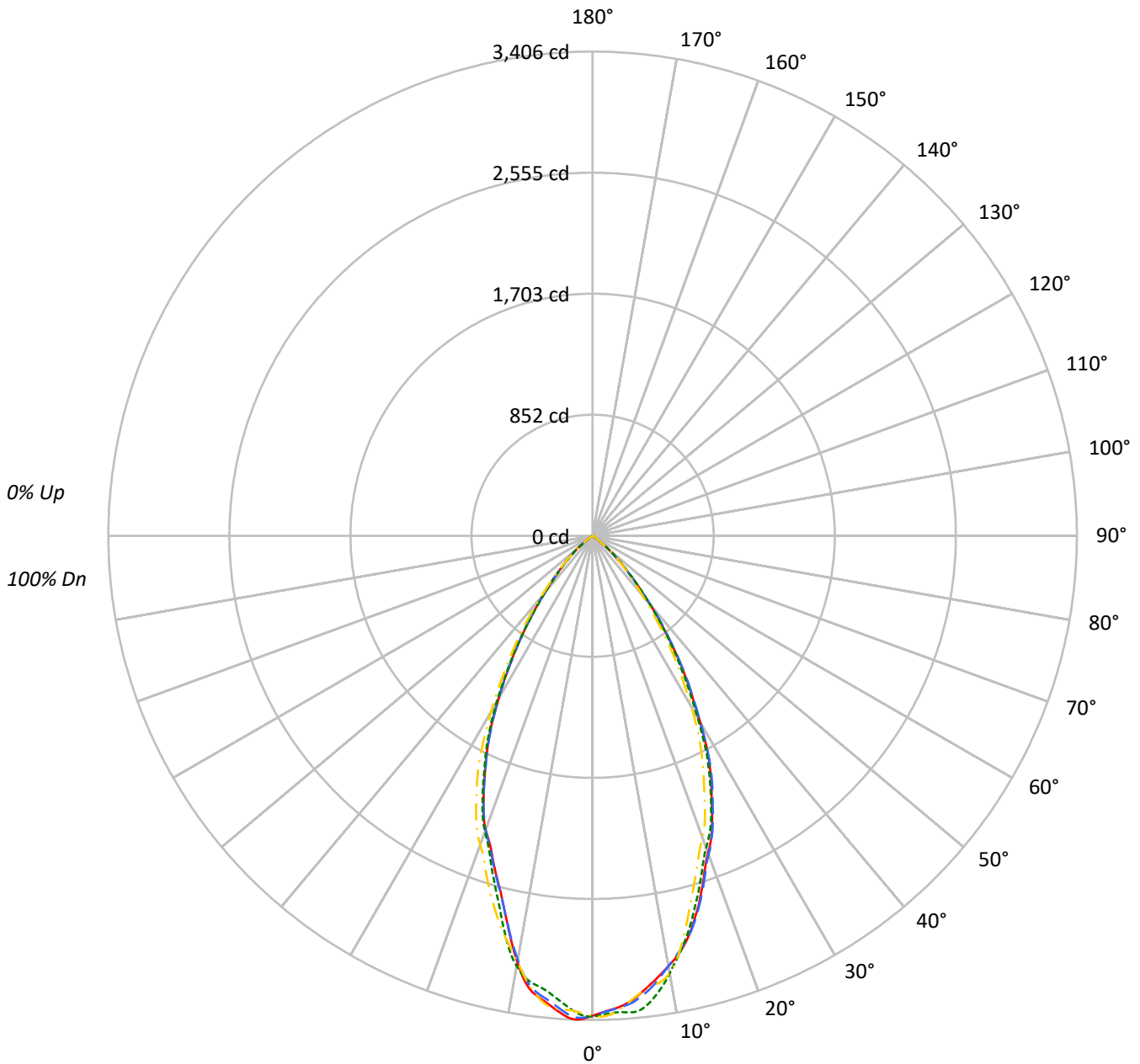
Lumens per Lamp: N/A
Luminaire Lumens: 2779.2 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.81 / 0.84
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P775952
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	66	65			
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61			
8	79	69	63	59	78	69	63	59	68	62	59	67	62	59	66	61	58	57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	425033	425033	425033	425033
5°	413758	424951	419784	409766
10°	392766	399335	389303	393060
15°	362491	357488	331899	339612
20°	318116	312705	294652	296567
25°	274818	272443	247434	250003
30°	219606	214752	192620	195468
35°	160118	155570	135690	136612
40°	102350	101479	87005	85083
45°	57167	58715	52023	50546
50°	25981	27763	25785	24806
55°	1536	1492	1207	1382
60°	453	579	503	503
65°	238	298	298	298
70°	184	184	184	184
75°	146	146	146	146
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 58715 cd/sqm



TEST NUMBER: P775952

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	11.1
10°-20°	745.7	26.8
20°-30°	855.4	30.8
30°-40°	597.9	21.5
40°-50°	243.9	8.8
50°-60°	26.8	1.0
60°-70°	1.1	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°	1909.3	68.7
0°-40°	2507.2	90.2
0°-60°	2777.9	100.0
0°-90°	2779.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2779.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3377	3377	3377	3377	3377	
5°	3275	3364	3323	3244	3275	306
15°	2782	2744	2547	2607	2782	771
25°	1979	1962	1782	1800	1979	901
35°	1042	1013	883	889	1042	647
45°	321	330	292	284	321	257
55°	7	7	6	6	7	26
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	



TEST NUMBER: P775952

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3
0.5°	3366.6	3366.3	3366.3	3367.1	3378.9	3379.9	3382.9	3385.9	3387.1	3386.9	3383.6
1°	3357.5	3356.8	3358.0	3360.0	3372.8	3377.1	3384.1	3391.6	3396.7	3396.4	3390.1
1.5°	3348.7	3347.7	3350.0	3354.0	3367.3	3371.8	3381.1	3393.2	3403.4	3403.9	3393.2
2°	3340.5	3338.2	3342.5	3349.7	3361.8	3364.6	3373.3	3389.1	3405.9	3408.0	3390.6
2.5°	3332.4	3328.2	3334.9	3347.2	3358.3	3356.3	3361.3	3378.6	3401.2	3405.9	3382.1
3°	3324.2	3316.4	3328.2	3347.2	3357.0	3347.2	3346.5	3363.8	3390.9	3396.7	3368.3
3.5°	3315.1	3302.8	3320.9	3350.2	3358.0	3338.0	3329.2	3346.2	3376.3	3383.6	3351.8
4°	3304.8	3288.3	3313.1	3354.3	3361.3	3327.7	3309.9	3326.7	3359.5	3366.8	3334.2
4.5°	3291.5	3270.2	3303.6	3358.8	3363.8	3315.6	3289.5	3306.6	3341.5	3349.2	3315.9
5°	3275.2	3250.6	3292.3	3360.5	3363.8	3300.6	3269.2	3286.8	3322.9	3331.9	3298.1
5.5°	3256.2	3230.1	3277.2	3357.0	3358.0	3283.0	3249.4	3269.0	3305.8	3314.1	3281.5
6°	3236.1	3209.5	3259.7	3347.2	3345.5	3262.4	3231.6	3253.2	3290.0	3296.6	3266.4
6.5°	3215.3	3191.2	3240.9	3330.2	3328.2	3243.4	3216.5	3240.1	3274.5	3279.2	3251.6
7°	3195.9	3175.9	3221.3	3306.6	3306.6	3224.8	3205.2	3228.8	3257.2	3260.2	3235.6
7.5°	3176.1	3162.3	3200.5	3277.0	3281.3	3207.0	3196.4	3218.5	3237.8	3236.3	3216.0
8°	3157.1	3150.3	3177.9	3241.6	3254.7	3190.7	3188.2	3206.2	3213.0	3206.5	3190.9
8.5°	3135.7	3139.7	3152.5	3200.7	3225.6	3173.6	3179.4	3189.9	3179.9	3169.6	3158.8
9°	3114.9	3130.0	3126.2	3157.3	3194.9	3155.0	3165.6	3167.6	3140.7	3125.7	3121.7
9.5°	3093.6	3120.7	3099.9	3113.9	3160.3	3136.0	3147.0	3138.5	3094.3	3075.3	3077.0
10°	3073.5	3112.6	3073.5	3071.0	3124.9	3114.7	3123.4	3103.4	3046.4	3021.1	3030.9
10.5°	3052.4	3104.6	3048.2	3032.6	3088.8	3090.6	3093.1	3064.0	2996.0	2961.9	2983.2
11°	3031.9	3095.3	3024.1	2997.2	3052.9	3062.7	3057.7	3021.1	2943.8	2902.1	2934.8
11.5°	3009.0	3081.5	3000.0	2965.9	3018.8	3030.6	3015.6	2976.4	2889.6	2842.2	2883.8
12°	2984.7	3061.0	2976.2	2937.3	2983.2	2993.7	2970.9	2930.5	2836.7	2781.5	2832.1
12.5°	2956.8	3032.9	2951.1	2910.9	2946.8	2951.6	2921.0	2882.8	2783.0	2723.0	2779.5
13°	2927.7	2998.5	2925.7	2884.6	2910.4	2907.2	2870.5	2833.9	2729.8	2668.6	2730.5
13.5°	2894.1	2959.6	2896.4	2855.7	2871.0	2858.2	2818.1	2781.7	2679.1	2617.1	2680.6
14°	2859.2	2917.2	2864.8	2823.6	2828.9	2808.6	2766.4	2733.5	2631.2	2570.7	2633.7
14.5°	2821.6	2873.0	2829.9	2790.2	2786.5	2757.1	2715.2	2683.9	2586.5	2526.8	2590.5
15°	2782.2	2826.4	2793.0	2755.1	2743.8	2707.4	2667.3	2637.7	2547.4	2486.2	2551.6
15.5°	2743.3	2782.2	2754.4	2720.2	2701.2	2660.8	2621.1	2592.3	2508.0	2449.0	2513.5
16°	2702.9	2737.1	2714.7	2683.4	2659.0	2615.4	2575.5	2548.4	2470.1	2412.4	2475.9
16.5°	2661.3	2690.4	2673.8	2644.7	2616.9	2569.7	2529.1	2502.7	2430.5	2375.5	2436.5
17°	2617.1	2643.5	2631.2	2603.3	2573.0	2524.0	2485.4	2457.0	2391.6	2338.6	2397.8
17.5°	2573.5	2595.0	2587.8	2561.7	2528.3	2478.1	2441.5	2411.9	2351.9	2302.2	2358.4
18°	2528.3	2547.4	2542.6	2519.3	2485.4	2432.7	2398.6	2369.5	2314.5	2268.1	2321.8
18.5°	2484.4	2501.5	2497.9	2477.1	2442.0	2390.1	2357.7	2327.8	2281.4	2237.8	2287.2
19°	2443.5	2458.8	2456.0	2437.7	2402.6	2351.4	2321.6	2293.0	2252.6	2211.4	2258.6
19.5°	2407.6	2421.2	2418.7	2403.6	2366.0	2318.6	2290.0	2261.3	2226.5	2186.3	2229.2
20°	2375.3	2387.0	2385.5	2373.0	2334.9	2287.9	2260.1	2230.7	2200.1	2159.7	2200.1
20.5°	2346.2	2354.9	2354.9	2345.1	2305.8	2257.6	2228.7	2197.1	2169.8	2128.6	2166.8
21°	2313.0	2320.8	2320.8	2316.0	2276.4	2224.5	2191.9	2159.0	2134.6	2093.5	2129.6



TEST NUMBER: P775952

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2196.1	2204.1	2208.2	2215.9	2174.8	2112.3	2064.1	2019.7	2003.7	1969.1	2004.2
23°	2149.7	2160.7	2164.3	2175.8	2133.1	2069.9	2016.7	1970.1	1959.3	1928.4	1959.0
23.5°	2104.5	2118.3	2121.3	2135.1	2090.2	2029.0	1968.6	1924.4	1914.9	1887.5	1914.1
24°	2060.9	2076.2	2077.7	2091.7	2047.8	1989.1	1927.2	1878.7	1870.7	1846.9	1869.2
24.5°	2019.2	2036.8	2037.0	2046.8	2004.4	1947.0	1885.8	1833.1	1826.3	1806.0	1824.3
25°	1979.1	1997.9	1994.9	1999.2	1962.0	1906.3	1844.4	1787.4	1781.9	1765.1	1779.1
25.5°	1940.7	1960.0	1955.5	1953.2	1918.1	1865.9	1803.0	1744.7	1739.5	1725.2	1734.2
26°	1900.3	1921.9	1913.4	1904.3	1874.2	1825.3	1761.6	1703.6	1697.8	1682.5	1692.3
26.5°	1858.9	1881.7	1871.0	1856.4	1830.1	1784.6	1720.2	1661.5	1653.9	1638.6	1648.2
27°	1815.5	1838.6	1825.0	1805.5	1785.9	1737.7	1677.8	1619.8	1610.0	1593.5	1603.5
27.5°	1770.1	1793.9	1777.9	1757.3	1741.7	1691.3	1633.6	1576.4	1564.6	1547.0	1558.3
28°	1721.4	1747.0	1727.7	1706.9	1689.3	1642.9	1588.4	1529.2	1518.2	1499.6	1511.2
28.5°	1670.2	1698.6	1675.2	1658.7	1635.6	1593.5	1538.8	1481.6	1469.3	1449.4	1462.5
29°	1616.3	1650.9	1621.8	1608.8	1582.4	1544.5	1488.8	1433.4	1421.3	1399.8	1415.1
29.5°	1564.1	1600.5	1568.9	1560.3	1529.7	1493.9	1438.2	1383.2	1373.4	1350.1	1366.4
30°	1511.2	1549.5	1517.2	1511.7	1477.8	1443.2	1388.0	1334.0	1325.5	1302.9	1318.5
30.5°	1459.2	1498.6	1466.5	1463.2	1426.6	1393.0	1337.5	1287.1	1277.8	1253.7	1270.3
31°	1409.0	1446.7	1417.6	1413.3	1379.7	1345.6	1289.1	1241.9	1231.7	1206.8	1225.4
31.5°	1360.4	1396.5	1371.2	1364.9	1327.8	1297.1	1243.2	1197.0	1186.0	1161.2	1179.2
32°	1313.5	1346.6	1325.2	1316.2	1280.8	1249.5	1197.8	1154.1	1140.3	1119.8	1134.6
32.5°	1267.3	1296.6	1280.1	1268.5	1233.7	1200.0	1153.1	1110.2	1093.9	1075.9	1090.4
33°	1222.9	1248.2	1236.2	1221.9	1190.5	1153.6	1108.5	1067.8	1050.0	1034.2	1046.2
33.5°	1178.0	1200.3	1190.3	1176.5	1142.6	1106.2	1065.3	1026.2	1005.6	992.6	1003.6
34°	1133.1	1152.6	1144.9	1132.3	1097.4	1061.6	1021.7	984.0	965.0	954.2	960.9
34.5°	1087.4	1104.2	1099.2	1089.2	1054.3	1015.4	978.3	940.4	923.1	913.5	920.3
35°	1042.2	1056.8	1054.0	1045.2	1012.6	971.5	933.6	898.5	883.2	874.6	880.2
35.5°	997.6	1010.4	1009.1	1002.3	969.5	927.8	890.2	857.6	844.0	836.0	840.8
36°	953.2	965.0	964.0	958.9	927.6	887.2	846.8	817.4	806.6	799.4	801.4
36.5°	907.8	920.3	920.3	914.0	886.7	843.5	803.6	775.8	767.7	761.2	763.2
37°	865.9	878.9	878.4	872.4	848.0	802.6	761.5	735.4	730.1	726.6	725.6
37.5°	824.0	837.5	836.5	830.7	806.4	762.5	721.6	698.0	693.2	692.0	689.2
38°	782.1	795.9	794.8	788.8	767.7	725.1	682.7	660.6	658.4	658.4	653.3
38.5°	740.2	754.5	752.9	747.2	729.1	687.5	645.8	623.7	624.5	625.7	619.5
39°	698.3	713.1	711.0	705.5	692.7	651.3	609.9	587.9	591.6	594.6	586.6
39.5°	659.4	673.7	671.7	667.9	653.3	616.7	575.1	553.5	559.5	563.5	555.2
40°	623.0	636.0	632.5	631.5	617.7	583.6	541.4	519.9	529.6	534.2	524.4
40.5°	586.6	599.9	593.9	596.6	582.8	551.5	509.1	488.5	501.3	505.8	496.0
41°	550.5	565.3	558.0	562.0	550.0	521.1	478.7	458.1	473.9	479.2	468.4
41.5°	516.3	531.2	523.4	528.6	517.4	491.5	450.1	431.0	447.9	453.4	442.1
42°	485.7	499.5	491.0	496.0	488.2	463.7	423.3	405.2	422.3	428.8	417.0
42.5°	455.6	468.4	459.4	463.7	458.6	437.1	398.4	382.1	398.9	405.2	392.7
43°	426.5	438.1	429.5	433.6	431.0	411.2	375.3	360.5	375.8	382.4	369.8
43.5°	397.4	408.0	401.2	403.7	404.2	386.4	353.5	340.7	353.5	360.0	348.0



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CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	321.2	326.4	323.9	325.2	329.9	319.6	295.1	284.8	292.3	297.6	288.5
45.5°	296.3	301.8	300.1	302.6	307.9	297.8	277.2	268.0	273.7	278.0	270.5
46°	275.0	279.5	277.7	280.8	285.5	277.5	259.7	251.4	255.7	258.9	252.9
46.5°	252.9	257.2	255.9	259.2	265.2	258.4	243.4	235.8	239.1	241.9	236.6
47°	233.1	236.1	235.6	239.4	245.4	241.1	227.3	220.3	222.8	225.1	220.5
47.5°	212.5	215.5	215.5	220.0	227.1	223.6	211.3	204.7	206.2	208.0	204.2
48°	194.4	197.0	196.7	201.2	208.7	206.2	195.2	189.2	189.7	190.9	188.2
48.5°	177.1	179.4	179.4	183.9	190.4	188.7	179.1	173.9	173.4	173.9	172.1
49°	162.1	163.3	163.3	167.3	172.4	171.4	164.6	159.6	159.1	159.8	158.1
49.5°	147.3	147.8	148.0	151.0	156.6	156.1	150.8	146.0	145.0	146.0	144.5
50°	132.7	132.7	133.0	136.0	141.8	141.3	136.0	132.2	131.7	132.5	130.7
50.5°	117.4	117.4	117.2	119.9	126.2	125.7	121.4	117.7	117.7	118.2	116.4
51°	100.9	100.6	100.1	102.4	109.1	108.9	104.9	101.6	101.9	101.9	100.1
51.5°	82.5	82.3	82.0	82.3	91.1	90.8	88.1	85.3	85.6	85.1	83.5
52°	67.5	67.2	67.2	67.5	72.5	71.5	69.5	68.0	68.2	67.2	65.7
52.5°	52.4	52.2	52.7	52.7	55.4	53.9	52.4	51.7	51.2	50.7	49.4
53°	37.4	37.4	37.9	37.6	45.7	44.4	42.9	42.4	41.9	41.6	40.6
53.5°	22.3	22.6	23.3	23.1	35.9	34.9	33.6	33.1	32.9	32.6	31.6
54°	13.5	13.8	14.3	14.3	25.8	25.1	24.3	23.8	23.8	23.6	22.8
54.5°	8.0	8.3	8.8	8.5	16.1	15.6	15.1	14.8	14.8	14.6	13.8
55°	7.0	7.0	7.3	7.3	6.8	6.3	5.8	5.5	5.5	5.5	5.5
55.5°	5.8	5.8	6.0	6.0	5.3	5.0	4.5	4.5	4.3	4.3	4.5
56°	4.5	4.5	4.8	5.0	4.5	4.3	4.0	3.8	3.8	3.8	4.0
56.5°	3.3	3.3	3.5	3.8	4.0	3.8	3.5	3.5	3.3	3.5	3.5
57°	3.0	3.0	3.3	3.5	3.8	3.5	3.3	3.0	3.0	3.0	3.3
57.5°	2.8	2.8	3.0	3.3	3.3	3.3	3.0	2.8	2.8	2.8	3.0
58°	2.5	2.5	2.8	3.0	3.0	3.0	2.8	2.8	2.5	2.5	2.8
58.5°	2.3	2.3	2.5	2.8	2.8	2.8	2.5	2.5	2.3	2.5	2.5
59°	2.0	2.3	2.3	2.5	2.8	2.5	2.3	2.3	2.3	2.3	2.3
59.5°	2.0	2.0	2.3	2.3	2.5	2.3	2.3	2.0	2.0	2.0	2.3
60°	1.8	1.8	2.0	2.3	2.3	2.3	2.0	2.0	2.0	2.0	2.0
60.5°	1.8	1.8	1.8	2.0	2.0	2.0	1.8	1.8	1.8	1.8	1.8
61°	1.5	1.5	1.8	1.8	2.0	1.8	1.8	1.8	1.5	1.8	1.8
61.5°	1.5	1.5	1.5	1.8	1.8	1.8	1.5	1.5	1.5	1.5	1.5
62°	1.3	1.3	1.5	1.5	1.8	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.5
63°	1.3	1.3	1.3	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.3
63.5°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
64°	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.3
64.5°	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0
65°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	1.0	1.0
66°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P775952

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
68°	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
68.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.8	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°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
72°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
77.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
78°	0.0	0.0	0.0	0.0	0.3	0.3	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: P775952
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775952

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3
0.5°	3378.9	3381.9	3374.6	3370.8	3368.3	3366.6
1°	3380.9	3377.3	3367.8	3362.8	3359.8	3357.5
1.5°	3378.1	3368.1	3359.0	3354.8	3352.3	3348.7
2°	3369.6	3355.0	3348.0	3347.7	3346.0	3340.5
2.5°	3355.3	3338.2	3336.7	3342.7	3341.7	3332.4
3°	3337.7	3319.6	3325.7	3339.7	3339.2	3324.2
3.5°	3317.6	3300.3	3314.4	3338.5	3338.5	3315.1
4°	3297.8	3281.8	3302.6	3337.7	3338.5	3304.8
4.5°	3278.0	3262.7	3288.8	3336.2	3337.0	3291.5
5°	3259.7	3243.6	3273.2	3330.9	3331.7	3275.2
5.5°	3242.9	3226.1	3254.4	3319.4	3321.4	3256.2
6°	3228.1	3211.3	3234.8	3302.3	3305.6	3236.1
6.5°	3216.5	3199.0	3214.8	3280.5	3284.5	3215.3
7°	3207.0	3188.4	3195.2	3255.2	3259.4	3195.9
7.5°	3198.0	3178.9	3175.6	3225.8	3226.6	3176.1
8°	3187.7	3167.3	3154.8	3195.7	3193.9	3157.1
8.5°	3172.1	3151.8	3134.0	3160.3	3155.0	3135.7
9°	3150.8	3131.7	3110.6	3122.2	3116.2	3114.9
9.5°	3121.9	3106.1	3085.3	3082.0	3075.0	3093.6
10°	3086.8	3075.8	3058.0	3043.9	3037.6	3073.5
10.5°	3045.7	3042.9	3028.6	3006.8	3003.3	3052.4
11°	3001.5	3004.0	2996.5	2972.9	2971.1	3031.9
11.5°	2955.8	2958.1	2960.9	2939.8	2941.0	3009.0
12°	2906.4	2908.9	2922.2	2907.7	2914.2	2984.7
12.5°	2855.2	2857.7	2880.6	2874.3	2887.6	2956.8
13°	2804.8	2804.8	2837.2	2840.9	2861.2	2927.7
13.5°	2752.4	2751.9	2790.2	2804.0	2832.4	2894.1
14°	2698.4	2700.7	2741.6	2766.7	2802.3	2859.2
14.5°	2648.2	2652.5	2693.9	2728.3	2769.4	2821.6
15°	2600.3	2606.6	2646.7	2690.1	2736.0	2782.2
15.5°	2554.6	2562.2	2601.3	2652.0	2702.4	2743.3
16°	2509.7	2518.0	2555.9	2612.9	2666.6	2702.9
16.5°	2464.8	2475.1	2510.7	2572.0	2628.9	2661.3
17°	2419.2	2431.7	2466.8	2530.6	2588.8	2617.1
17.5°	2373.8	2388.1	2421.7	2489.2	2548.1	2573.5
18°	2329.8	2345.9	2378.0	2447.3	2506.7	2528.3
18.5°	2288.7	2309.0	2337.1	2406.1	2465.3	2484.4
19°	2253.1	2274.6	2302.0	2369.7	2427.7	2443.5
19.5°	2221.0	2244.8	2270.9	2339.6	2395.8	2407.6
20°	2189.8	2214.4	2240.0	2312.5	2368.0	2375.3
20.5°	2155.7	2183.6	2208.9	2284.7	2340.1	2346.2
21°	2117.8	2148.2	2175.0	2253.6	2310.0	2313.0

TEST NUMBER: P775952

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1986.4	2024.0	2062.9	2141.4	2199.4	2196.1
23°	1941.7	1979.1	2021.0	2098.3	2155.0	2149.7
23.5°	1897.3	1934.4	1979.8	2053.9	2110.8	2104.5
24°	1852.6	1888.5	1938.4	2010.5	2064.9	2060.9
24.5°	1808.2	1844.1	1897.3	1967.5	2020.5	2019.2
25°	1763.6	1800.4	1853.1	1924.9	1975.6	1979.1
25.5°	1723.7	1759.1	1812.0	1882.0	1930.4	1940.7
26°	1682.8	1717.1	1768.6	1836.8	1883.5	1900.3
26.5°	1640.4	1675.2	1724.7	1790.2	1837.1	1858.9
27°	1597.7	1632.6	1677.3	1741.2	1787.9	1815.5
27.5°	1552.3	1587.2	1630.8	1690.1	1738.2	1770.1
28°	1506.1	1541.0	1580.9	1635.4	1688.0	1721.4
28.5°	1456.5	1493.1	1530.2	1582.7	1640.9	1670.2
29°	1406.8	1444.9	1478.3	1530.0	1589.7	1616.3
29.5°	1357.9	1394.0	1427.6	1478.5	1540.5	1564.1
30°	1310.9	1345.1	1377.9	1427.6	1489.8	1511.2
30.5°	1264.8	1295.6	1327.3	1378.9	1440.4	1459.2
31°	1221.4	1247.0	1279.3	1329.8	1391.0	1409.0
31.5°	1177.5	1199.3	1232.4	1282.1	1342.3	1360.4
32°	1136.6	1152.1	1186.2	1235.2	1293.4	1313.5
32.5°	1093.2	1107.5	1140.3	1186.8	1245.5	1267.3
33°	1051.8	1063.3	1095.9	1140.6	1199.8	1222.9
33.5°	1008.9	1020.4	1051.0	1095.4	1155.1	1178.0
34°	965.7	976.7	1006.4	1051.0	1110.5	1133.1
34.5°	923.6	932.3	963.5	1008.6	1067.1	1087.4
35°	882.7	889.2	919.5	965.5	1023.4	1042.2
35.5°	842.0	848.0	879.4	925.1	981.5	997.6
36°	803.1	806.6	839.3	897.0	937.9	953.2
36.5°	763.7	765.5	799.4	855.1	890.4	907.8
37°	727.4	724.3	759.2	812.7	849.3	865.9
37.5°	688.7	686.0	719.3	770.5	808.4	824.0
38°	651.6	650.1	682.2	728.4	767.2	782.1
38.5°	615.2	614.7	647.1	690.7	726.4	740.2
39°	578.8	582.1	613.2	654.3	688.5	698.3
39.5°	543.7	548.2	580.1	618.7	650.6	659.4
40°	510.3	517.9	547.7	583.3	615.0	623.0
40.5°	478.7	487.2	517.9	550.2	580.1	586.6
41°	450.1	459.9	488.8	518.1	546.5	550.5
41.5°	423.5	433.1	461.2	488.0	514.1	516.3
42°	398.7	407.7	436.3	459.1	482.0	485.7
42.5°	376.3	384.9	410.7	432.0	452.1	455.6
43°	355.3	362.3	386.4	404.4	422.8	426.5
43.5°	335.7	341.2	363.1	378.4	394.7	397.4



TEST NUMBER: P775952

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	281.8	284.0	299.6	307.4	317.1	321.2
45.5°	264.9	266.5	279.5	285.8	294.3	296.3
46°	248.6	249.4	259.9	265.5	273.2	275.0
46.5°	233.1	232.1	240.9	245.4	252.4	252.9
47°	217.8	215.8	222.5	226.1	232.6	233.1
47.5°	202.5	199.7	204.5	207.7	213.8	212.5
48°	187.2	184.2	188.2	190.4	195.7	194.4
48.5°	171.6	169.6	172.4	173.9	178.4	177.1
49°	158.1	155.6	158.1	158.8	163.1	162.1
49.5°	144.5	141.5	143.8	143.8	148.0	147.3
50°	130.5	126.7	129.0	129.2	133.2	132.7
50.5°	115.9	111.1	113.7	113.7	117.7	117.4
51°	99.6	93.8	96.1	97.1	101.1	100.9
51.5°	83.3	79.0	81.0	81.8	82.8	82.5
52°	65.2	64.2	65.7	66.5	67.5	67.5
52.5°	49.9	49.4	50.7	51.2	52.2	52.4
53°	40.9	34.6	35.4	35.9	37.1	37.4
53.5°	32.1	19.8	20.3	20.8	21.8	22.3
54°	23.1	11.8	12.3	12.5	13.3	13.5
54.5°	14.3	7.0	7.5	7.5	7.8	8.0
55°	5.8	6.3	6.5	6.3	6.5	7.0
55.5°	4.8	5.5	5.5	5.5	5.5	5.8
56°	4.3	4.5	4.5	4.5	4.5	4.5
56.5°	3.8	3.8	3.5	3.5	3.3	3.3
57°	3.5	3.3	3.3	3.0	3.0	3.0
57.5°	3.3	3.0	3.0	2.8	2.8	2.8
58°	3.0	2.8	2.8	2.5	2.5	2.5
58.5°	2.8	2.8	2.5	2.5	2.3	2.3
59°	2.5	2.5	2.3	2.3	2.3	2.0
59.5°	2.3	2.3	2.3	2.0	2.0	2.0
60°	2.3	2.0	2.0	2.0	1.8	1.8
60.5°	2.0	2.0	2.0	1.8	1.8	1.8
61°	1.8	1.8	1.8	1.8	1.5	1.5
61.5°	1.8	1.8	1.8	1.5	1.5	1.5
62°	1.5	1.5	1.5	1.5	1.3	1.3
62.5°	1.5	1.5	1.5	1.3	1.3	1.3
63°	1.5	1.5	1.3	1.3	1.3	1.3
63.5°	1.3	1.3	1.3	1.3	1.0	1.0
64°	1.3	1.3	1.3	1.0	1.0	1.0
64.5°	1.3	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	0.8	0.8
65.5°	1.0	1.0	1.0	0.8	0.8	0.8
66°	1.0	1.0	0.8	0.8	0.8	0.8



TEST NUMBER: P775952

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.8	0.8	0.8	0.5	0.5
68°	0.8	0.8	0.8	0.5	0.5	0.5
68.5°	0.8	0.8	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	0.3
71°	0.5	0.5	0.5	0.5	0.3	0.3
71.5°	0.5	0.5	0.5	0.3	0.3	0.3
72°	0.5	0.5	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.0
76.5°	0.3	0.3	0.3	0.3	0.0	0.0
77°	0.3	0.3	0.3	0.3	0.0	0.0
77.5°	0.3	0.3	0.3	0.0	0.0	0.0
78°	0.3	0.3	0.0	0.0	0.0	0.0
78.5°	0.3	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: P775952

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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21.5°	2276.7	2284.7	2285.4	2286.7	2244.8	2189.8	2152.7	2116.1	2094.5	2053.6	2090.2
22°	2236.5	2244.5	2247.0	2253.3	2211.4	2153.0	2110.1	2069.7	2050.3	2012.5	2048.3



44°	371.3	379.9	373.8	375.3	378.4	362.5	333.2	320.4	332.2	338.5	327.4
44.5°	346.0	352.3	348.0	349.3	353.3	341.0	314.4	302.6	311.6	317.6	307.6



66.5°	0.8	0.8	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



89°	0.0	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	0.0

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21.5°	2077.7	2110.1	2140.2	2219.4	2276.9	2276.7
22°	2033.0	2067.9	2101.0	2182.8	2239.3	2236.5



44°	316.6	320.9	341.5	353.5	367.3	371.3
44.5°	298.8	302.3	319.6	329.9	341.2	346.0

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Scaled Data Report



66.5°	0.8	0.8	0.8	0.8	0.8	0.8
67°	0.8	0.8	0.8	0.8	0.8	0.8

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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)