

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: P776385

Luminaire Tested: HCDJBL3040CSD-HCD6TRC-4000lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS3040CSD-HCD6TRC-4000lm-2700K  
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

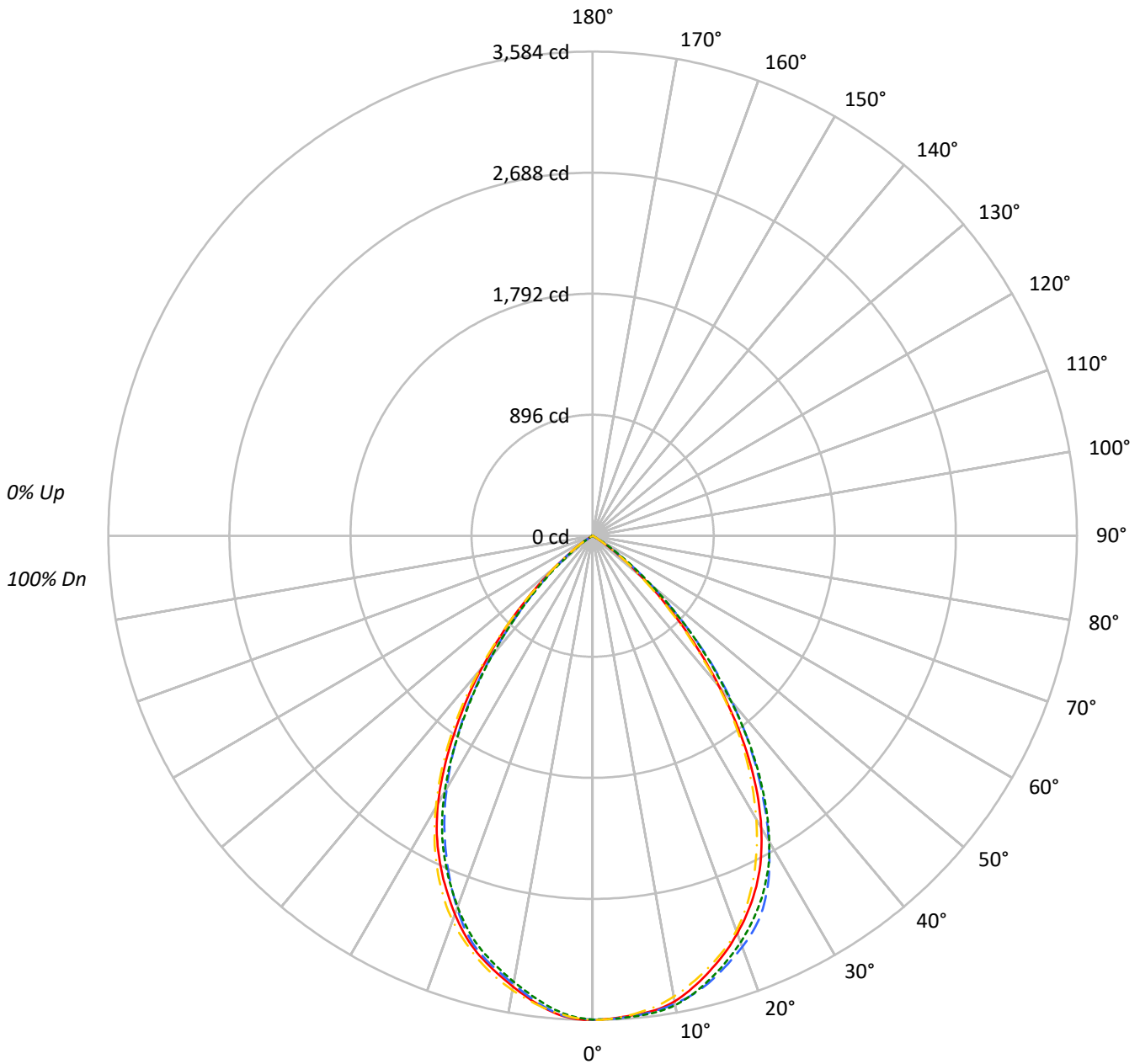
Lumens per Lamp: N/A  
Luminaire Lumens: 4526.8 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.5  
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			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70					70			
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64					64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59					59			
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54					54			
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50					50			
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

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

	0°	90°	180°	270°
0°	196355	196355	196355	196355
5°	195960	196533	194458	193000
10°	194764	196389	188691	186642
15°	189479	192379	182748	180171
20°	182693	186817	173819	170418
25°	173278	178994	161707	157412
30°	157948	165412	144896	138743
35°	134937	143369	119545	112036
40°	104303	113620	90863	83141
45°	72085	81582	60239	53060
50°	40809	48834	31283	25910
55°	15340	20520	12444	9768
60°	1096	3541	504	592
65°	156	195	156	104
70°	64	64	64	64
75°	0	85	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 84381 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.0	7.4
10°-20°	923.0	20.4
20°-30°	1268.2	28.0
30°-40°	1179.1	26.0
40°-50°	665.8	14.7
50°-60°	153.6	3.4
60°-70°	1.9	0.0
70°-80°	0.2	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°	2526.3	55.8
0°-40°	3705.3	81.9
0°-60°	4524.7	100.0
0°-90°	4526.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4526.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3582	3582	3582	3582	3582	
5°	3561	3571	3534	3507	3561	338
15°	3339	3390	3220	3175	3339	939
25°	2865	2959	2673	2602	2865	1309
35°	2016	2142	1786	1674	2016	1244
45°	930	1052	777	684	930	719
55°	160	215	130	102	160	166
65°	1	2	1	1	1	2
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°	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8
0.5°	3582.9	3581.0	3581.0	3582.5	3580.6	3582.5	3584.1	3584.8	3583.7	3581.0	3579.4
1°	3581.4	3581.0	3581.0	3582.5	3581.0	3582.9	3583.7	3584.1	3583.3	3581.0	3578.7
1.5°	3579.1	3579.1	3580.2	3582.5	3580.2	3582.9	3581.8	3582.5	3581.4	3579.1	3576.4
2°	3577.1	3577.9	3579.4	3582.5	3579.8	3582.5	3579.4	3579.4	3579.1	3577.1	3573.3
2.5°	3574.8	3576.8	3578.7	3581.4	3579.1	3580.6	3576.4	3575.6	3574.8	3573.3	3569.5
3°	3571.8	3574.8	3576.8	3579.8	3577.9	3578.7	3572.5	3570.6	3569.1	3568.7	3564.5
3.5°	3569.1	3572.9	3574.8	3578.7	3576.8	3576.4	3568.3	3564.5	3561.8	3561.8	3557.6
4°	3566.8	3571.0	3572.9	3576.8	3574.8	3574.1	3563.7	3557.2	3554.1	3553.3	3549.5
4.5°	3563.7	3568.3	3570.6	3574.8	3573.3	3571.8	3557.9	3549.1	3544.5	3543.7	3539.1
5°	3561.0	3566.0	3567.9	3572.1	3571.4	3569.1	3552.6	3540.3	3533.7	3533.0	3527.6
5.5°	3558.7	3562.9	3564.9	3569.5	3569.5	3566.4	3546.0	3530.3	3521.8	3520.3	3514.9
6°	3554.9	3559.5	3561.0	3566.8	3567.9	3563.3	3539.5	3520.3	3509.9	3507.6	3500.7
6.5°	3551.4	3555.3	3557.2	3563.3	3564.9	3560.6	3532.6	3509.2	3496.1	3493.0	3486.5
7°	3546.8	3551.0	3552.6	3559.9	3562.2	3556.8	3525.7	3498.0	3482.3	3478.8	3470.8
7.5°	3541.4	3545.6	3548.0	3555.6	3559.1	3553.3	3517.2	3486.5	3467.7	3463.5	3454.6
8°	3535.7	3539.5	3542.6	3551.4	3554.9	3549.1	3508.0	3473.4	3452.7	3447.7	3437.7
8.5°	3528.8	3532.6	3536.8	3545.6	3549.5	3543.3	3498.4	3460.8	3437.0	3431.2	3421.2
9°	3519.9	3524.9	3530.7	3540.7	3543.0	3537.2	3488.0	3447.7	3422.0	3415.8	3404.3
9.5°	3509.9	3515.7	3524.1	3534.1	3535.7	3529.5	3476.1	3435.0	3405.9	3399.7	3387.8
10°	3498.8	3506.5	3516.8	3527.2	3528.0	3520.3	3463.5	3421.2	3389.7	3382.8	3371.3
10.5°	3486.5	3495.7	3509.5	3519.1	3518.0	3509.9	3450.8	3406.6	3373.2	3366.3	3354.0
11°	3472.3	3483.8	3500.7	3510.7	3506.9	3498.0	3437.3	3392.0	3356.7	3349.4	3337.1
11.5°	3458.5	3470.8	3492.3	3501.9	3495.0	3484.6	3422.4	3378.2	3340.6	3332.5	3320.6
12°	3442.7	3457.7	3481.9	3492.3	3481.5	3470.0	3407.4	3363.2	3324.4	3315.2	3304.8
12.5°	3426.6	3443.5	3471.9	3481.5	3468.1	3454.2	3391.3	3347.5	3307.5	3296.8	3288.7
13°	3409.7	3428.9	3460.0	3470.8	3453.5	3438.5	3376.7	3331.3	3291.0	3278.7	3273.0
13.5°	3393.2	3413.1	3448.5	3459.6	3438.1	3422.0	3359.8	3314.8	3273.7	3259.1	3256.1
14°	3374.7	3397.4	3435.4	3447.7	3422.4	3404.3	3344.4	3297.5	3256.5	3239.2	3239.2
14.5°	3357.5	3382.0	3421.2	3435.0	3405.9	3386.3	3327.1	3278.7	3238.8	3218.0	3221.1
15°	3338.6	3365.1	3405.9	3422.4	3389.7	3367.8	3310.6	3259.9	3220.0	3197.3	3202.7
15.5°	3320.2	3348.2	3390.5	3407.8	3372.8	3349.8	3292.9	3240.7	3201.1	3175.0	3183.1
16°	3301.4	3331.3	3374.4	3393.2	3355.2	3331.7	3276.4	3219.2	3181.2	3152.4	3162.4
16.5°	3282.2	3314.1	3357.5	3377.4	3337.9	3313.3	3258.0	3197.7	3159.7	3129.7	3138.9
17°	3261.8	3296.4	3340.9	3362.1	3319.4	3294.5	3239.6	3176.6	3137.0	3105.1	3114.3
17.5°	3242.6	3278.7	3324.0	3345.2	3300.6	3275.7	3221.1	3153.5	3113.2	3079.0	3087.8
18°	3221.5	3261.1	3307.1	3329.0	3281.4	3256.1	3200.8	3130.9	3089.4	3054.4	3059.4
18.5°	3200.4	3243.4	3290.2	3312.1	3262.6	3236.9	3180.8	3106.3	3062.9	3027.9	3029.1
19°	3177.7	3225.0	3273.3	3294.9	3242.6	3217.7	3158.9	3082.5	3036.4	3001.4	2998.0
19.5°	3154.7	3205.8	3256.1	3276.8	3223.0	3196.9	3135.1	3057.9	3008.3	2973.0	2966.1
20°	3131.6	3186.2	3238.0	3257.2	3202.3	3176.2	3110.9	3031.8	2979.5	2945.7	2933.1
20.5°	3107.4	3165.4	3220.3	3237.6	3180.0	3153.1	3085.2	3004.5	2950.4	2916.9	2898.5
21°	3083.6	3143.9	3201.5	3217.3	3158.1	3129.7	3058.7	2978.0	2921.2	2887.4	2863.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	3006.4	3073.3	3139.7	3149.7	3089.0	3054.4	2971.9	2893.9	2830.9	2798.3	2759.9
23°	2980.3	3047.1	3115.9	3124.0	3063.7	3026.8	2941.1	2864.3	2801.0	2768.3	2723.0
23.5°	2952.3	3020.3	3091.7	3098.2	3039.1	2999.5	2908.9	2835.1	2771.0	2734.9	2685.4
24°	2923.9	2992.2	3064.0	3070.2	3013.3	2970.3	2876.6	2805.9	2738.7	2701.5	2647.7
24.5°	2894.3	2963.8	3035.2	3040.2	2986.5	2940.8	2844.4	2776.8	2706.1	2667.7	2609.7
25°	2864.7	2933.8	3004.9	3010.3	2959.2	2910.8	2811.7	2744.9	2673.4	2632.7	2572.1
25.5°	2833.6	2901.6	2972.6	2978.4	2930.8	2878.9	2779.4	2712.2	2639.3	2597.4	2533.6
26°	2800.6	2868.9	2938.1	2945.0	2899.3	2847.0	2740.3	2678.1	2604.7	2562.5	2495.2
26.5°	2767.2	2835.9	2902.7	2910.4	2867.8	2815.2	2703.0	2642.7	2569.4	2525.2	2456.8
27°	2732.6	2800.6	2865.1	2874.3	2836.3	2783.7	2666.5	2607.4	2532.5	2487.9	2417.7
27.5°	2696.5	2762.5	2826.3	2837.4	2804.8	2750.3	2627.0	2570.1	2495.6	2449.2	2376.6
28°	2657.7	2724.1	2784.1	2798.3	2772.9	2712.6	2588.6	2531.3	2458.0	2408.4	2335.5
28.5°	2620.1	2683.8	2742.2	2758.3	2735.3	2676.9	2547.9	2491.0	2417.7	2365.8	2292.1
29°	2579.4	2642.0	2697.6	2716.1	2696.1	2637.0	2507.1	2450.3	2376.2	2322.8	2249.8
29.5°	2537.5	2601.2	2653.5	2673.4	2655.0	2598.2	2464.5	2407.7	2332.4	2279.0	2204.5
30°	2495.2	2555.9	2607.0	2629.7	2613.1	2557.5	2422.7	2364.7	2289.0	2234.1	2159.2
30.5°	2452.2	2512.9	2561.3	2586.3	2570.1	2516.4	2378.9	2319.7	2242.9	2188.0	2113.5
31°	2407.3	2468.0	2513.3	2539.0	2526.7	2473.0	2334.3	2273.6	2196.1	2141.1	2068.6
31.5°	2360.4	2421.9	2465.3	2492.9	2481.4	2430.3	2289.4	2227.6	2148.1	2093.5	2022.5
32°	2315.1	2374.3	2416.5	2444.2	2435.3	2385.8	2244.8	2180.7	2098.1	2045.5	1976.8
32.5°	2268.3	2326.6	2368.1	2395.8	2388.9	2341.6	2198.4	2132.3	2047.4	1994.8	1929.9
33°	2220.6	2278.6	2317.4	2346.6	2341.2	2293.6	2152.3	2083.1	1996.3	1943.7	1883.8
33.5°	2170.7	2229.9	2270.2	2297.8	2293.6	2246.8	2105.4	2033.6	1944.5	1893.0	1837.7
34°	2121.9	2179.2	2219.9	2247.5	2242.9	2198.4	2058.9	1982.9	1891.9	1840.4	1790.5
34.5°	2069.7	2128.8	2170.7	2198.4	2193.0	2149.2	2010.9	1933.0	1838.1	1789.3	1742.1
35°	2016.3	2075.8	2120.8	2148.1	2142.3	2097.7	1963.7	1881.5	1786.3	1737.5	1692.6
35.5°	1962.6	2023.6	2071.2	2098.1	2090.8	2047.4	1915.7	1830.4	1734.4	1684.9	1643.0
36°	1909.2	1971.0	2021.7	2048.2	2038.6	1994.8	1865.8	1778.6	1683.3	1633.8	1592.3
36.5°	1853.5	1917.2	1970.2	1997.5	1983.7	1942.2	1813.9	1727.1	1631.9	1581.6	1540.5
37°	1797.4	1865.0	1921.1	1946.0	1928.8	1889.6	1762.8	1676.0	1580.8	1530.1	1487.1
37.5°	1739.8	1809.7	1871.1	1893.8	1873.1	1835.4	1709.8	1624.6	1530.1	1478.6	1434.9
38°	1682.6	1755.2	1819.3	1841.6	1817.0	1779.7	1657.2	1572.0	1479.8	1425.6	1381.5
38.5°	1625.0	1700.2	1766.7	1787.4	1759.8	1724.0	1603.5	1520.1	1429.1	1374.2	1329.2
39°	1567.0	1645.3	1713.7	1735.2	1702.9	1668.4	1548.1	1467.9	1376.1	1321.9	1275.8
39.5°	1512.4	1590.4	1661.1	1681.0	1644.9	1611.5	1494.0	1415.6	1323.1	1270.1	1220.9
40°	1457.5	1533.2	1606.5	1628.0	1587.7	1553.5	1439.1	1362.6	1269.7	1217.1	1168.7
40.5°	1403.7	1477.1	1552.8	1573.1	1532.4	1497.1	1383.4	1310.4	1216.3	1165.6	1114.5
41°	1350.4	1421.4	1497.8	1518.2	1476.3	1440.2	1326.2	1258.2	1163.7	1114.5	1061.5
41.5°	1297.0	1359.2	1443.7	1462.5	1422.2	1383.8	1269.3	1205.6	1111.1	1063.1	1008.9
42°	1244.0	1309.3	1390.7	1407.6	1367.6	1328.5	1212.9	1152.6	1061.5	1013.2	957.8
42.5°	1190.6	1259.3	1336.1	1352.7	1316.2	1273.2	1158.3	1100.7	1014.3	963.6	910.2
43°	1137.2	1209.4	1281.6	1298.5	1263.6	1219.8	1102.6	1045.4	966.3	914.4	861.4
43.5°	1084.2	1159.5	1227.1	1264.3	1209.8	1166.0	1048.1	993.2	919.4	866.8	816.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	929.8	1004.7	1064.6	1088.4	1052.3	1006.2	894.9	840.3	777.0	730.5	684.0
45.5°	879.9	953.2	1010.1	1030.1	999.3	954.8	845.3	789.6	731.3	685.2	643.7
46°	832.6	902.5	955.5	978.2	948.6	903.7	795.8	741.2	685.9	642.5	603.4
46.5°	784.3	852.6	902.9	927.1	900.6	854.2	748.5	694.0	641.4	601.4	565.3
47°	736.2	804.6	851.1	875.7	850.7	805.8	700.9	646.8	597.6	561.1	528.1
47.5°	689.0	755.8	800.8	825.0	802.7	759.7	655.6	603.4	557.7	521.9	493.9
48°	644.8	708.2	750.8	775.0	756.2	714.0	611.8	558.4	515.8	484.3	459.3
48.5°	600.3	661.0	701.7	726.3	709.4	669.8	569.6	517.3	475.5	448.6	427.5
49°	558.8	616.4	654.8	679.0	662.1	627.2	528.1	477.0	435.9	414.4	396.0
49.5°	517.3	571.5	608.4	631.4	616.0	585.7	490.1	440.1	399.4	381.8	368.7
50°	478.5	527.3	565.0	586.8	572.6	545.0	451.7	404.0	366.8	353.0	341.4
50.5°	439.0	484.7	522.3	542.7	529.2	505.0	416.7	374.1	334.5	324.1	314.2
51°	402.9	443.2	480.5	500.0	488.5	467.0	383.3	344.5	302.3	295.7	286.9
51.5°	367.2	402.9	440.5	458.6	448.6	429.8	353.7	314.5	270.0	266.9	259.6
52°	332.2	365.6	402.1	418.6	410.2	394.0	324.1	284.6	243.9	241.2	235.4
52.5°	298.4	330.3	365.2	382.1	376.4	361.4	294.6	254.6	220.5	217.8	212.8
53°	267.3	297.3	330.3	345.7	343.0	328.8	265.0	230.1	199.7	195.9	190.9
53.5°	237.3	265.4	295.7	310.3	309.2	296.5	239.7	208.2	181.3	175.5	170.1
54°	208.9	236.6	264.6	277.7	275.8	263.8	215.1	187.0	162.8	155.9	149.4
54.5°	183.6	208.5	233.9	247.7	242.3	236.2	192.8	167.5	146.3	138.3	130.6
55°	160.5	183.2	206.2	219.3	214.7	210.1	170.5	149.0	130.2	121.0	112.1
55.5°	139.0	159.8	180.1	192.4	188.6	184.7	149.8	131.3	114.5	104.1	95.2
56°	121.7	137.1	155.2	167.1	164.8	162.1	130.6	114.5	99.5	88.7	79.1
56.5°	104.8	119.8	132.1	144.8	142.5	140.6	111.8	98.7	84.9	74.1	64.9
57°	87.6	102.5	114.8	127.1	121.7	120.6	94.5	83.3	71.1	61.1	53.4
57.5°	70.7	85.3	97.6	109.5	102.9	101.8	78.3	69.1	58.8	48.4	41.5
58°	53.4	68.0	80.3	92.2	85.3	84.5	64.5	56.8	46.1	35.7	29.6
58.5°	38.0	50.7	63.0	74.5	70.3	69.5	52.6	44.6	33.8	22.7	18.1
59°	23.4	35.7	47.6	57.2	57.6	56.8	40.7	32.3	21.5	10.0	6.1
59.5°	12.7	21.9	32.3	41.5	44.9	44.6	29.2	20.0	9.2	5.4	4.2
60°	10.0	11.5	19.2	26.5	32.3	31.9	17.3	7.7	4.6	3.8	3.5
60.5°	7.7	9.2	10.0	15.0	19.6	19.6	5.4	4.2	3.5	3.1	3.1
61°	5.0	7.3	8.1	11.9	7.3	6.9	3.5	3.1	3.1	2.7	2.7
61.5°	2.7	5.0	6.1	8.8	4.2	3.8	2.7	2.7	2.7	2.3	2.3
62°	2.3	3.1	4.6	6.1	3.1	3.1	2.3	2.3	2.3	2.3	1.9
62.5°	1.9	2.7	3.1	3.1	2.7	2.7	1.9	1.9	1.9	1.9	1.9
63°	1.9	2.3	2.7	2.7	2.3	2.3	1.9	1.9	1.5	1.5	1.5
63.5°	1.5	1.9	2.3	2.3	1.9	1.9	1.5	1.5	1.5	1.5	1.5
64°	1.2	1.5	1.9	1.9	1.9	1.5	1.5	1.5	1.5	1.5	1.2
64.5°	1.2	1.5	1.5	1.9	1.5	1.5	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.5	1.5	1.5	1.5	1.2	1.2	1.2	1.2	1.2
65.5°	0.8	1.2	1.2	1.5	1.2	1.2	1.2	1.2	1.2	1.2	0.8
66°	0.8	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8





TEST NUMBER: P776385  
 CATALOG NUMBER: HCDJBL3040CSD-HCD6TRC-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
68°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
68.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
69°	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
69.5°	0.4	0.4	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
73°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
73.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
74°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
74.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.4
75.5°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P776385  
CATALOG NUMBER: HCDJBL3040CSD-HCD6TRC-4000lm-2700K

**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: P776385

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRC-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8
0.5°	3579.4	3577.5	3578.7	3581.8	3582.9	3582.9
1°	3577.1	3574.8	3574.8	3579.4	3581.0	3581.4
1.5°	3574.1	3570.6	3570.2	3576.4	3577.9	3579.1
2°	3569.5	3565.2	3564.1	3571.8	3574.8	3577.1
2.5°	3564.1	3558.7	3557.2	3566.4	3571.0	3574.8
3°	3556.8	3551.0	3549.1	3560.2	3566.8	3571.8
3.5°	3548.7	3541.8	3540.3	3552.9	3562.2	3569.1
4°	3539.1	3531.4	3530.3	3546.0	3557.6	3566.8
4.5°	3528.0	3519.9	3519.5	3538.0	3552.6	3563.7
5°	3515.7	3507.2	3507.2	3529.5	3547.2	3561.0
5.5°	3501.5	3494.2	3495.0	3520.3	3541.8	3558.7
6°	3488.0	3480.0	3481.9	3510.7	3535.7	3554.9
6.5°	3472.7	3465.0	3468.5	3500.7	3528.4	3551.4
7°	3457.7	3449.6	3454.2	3490.3	3521.8	3546.8
7.5°	3442.0	3434.7	3440.0	3478.4	3513.4	3541.4
8°	3425.1	3418.1	3425.4	3467.3	3505.7	3535.7
8.5°	3408.5	3402.4	3410.5	3455.0	3495.3	3528.8
9°	3392.4	3385.9	3394.7	3442.3	3485.0	3519.9
9.5°	3375.9	3369.4	3378.6	3428.9	3473.4	3509.9
10°	3359.0	3352.9	3363.6	3415.8	3461.2	3498.8
10.5°	3341.7	3336.3	3348.2	3401.2	3448.1	3486.5
11°	3325.6	3319.8	3332.5	3387.4	3433.9	3472.3
11.5°	3307.5	3302.9	3316.0	3372.8	3419.3	3458.5
12°	3290.6	3285.3	3299.5	3357.1	3404.3	3442.7
12.5°	3272.6	3268.4	3283.0	3340.9	3388.6	3426.6
13°	3254.5	3250.3	3266.1	3324.4	3373.6	3409.7
13.5°	3234.6	3232.3	3248.0	3307.1	3357.5	3393.2
14°	3215.4	3213.1	3230.0	3289.5	3341.3	3374.7
14.5°	3195.0	3194.6	3211.1	3270.3	3325.6	3357.5
15°	3174.6	3174.6	3191.5	3251.5	3309.1	3338.6
15.5°	3152.8	3153.9	3172.0	3231.1	3291.4	3320.2
16°	3130.5	3132.4	3150.8	3211.9	3274.1	3301.4
16.5°	3107.1	3110.1	3128.6	3191.5	3256.1	3282.2
17°	3083.2	3086.3	3105.5	3170.4	3237.6	3261.8
17.5°	3056.7	3061.0	3080.9	3148.9	3218.0	3242.6
18°	3031.4	3034.8	3055.6	3127.0	3196.9	3221.5
18.5°	3003.4	3007.6	3029.1	3104.7	3174.3	3200.4
19°	2974.9	2979.9	3001.8	3080.9	3150.5	3177.7
19.5°	2945.7	2950.7	2974.2	3056.7	3125.9	3154.7
20°	2915.8	2921.2	2945.7	3031.8	3099.8	3131.6
20.5°	2884.3	2891.2	2916.2	3004.9	3073.3	3107.4
21°	2852.0	2860.9	2886.2	2978.4	3044.8	3083.6

TEST NUMBER: P776385

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRC-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2756.4	2766.8	2795.2	2888.1	2953.0	3006.4
23°	2722.6	2735.7	2764.9	2856.6	2919.6	2980.3
23.5°	2686.5	2703.4	2732.6	2824.4	2885.8	2952.3
24°	2650.8	2670.8	2700.7	2790.2	2852.8	2923.9
24.5°	2614.3	2636.2	2666.5	2757.2	2818.2	2894.3
25°	2578.2	2602.4	2633.5	2721.5	2782.5	2864.7
25.5°	2540.2	2567.4	2597.8	2685.7	2746.0	2833.6
26°	2501.4	2531.0	2563.2	2648.9	2709.5	2800.6
26.5°	2461.8	2493.3	2526.4	2612.4	2672.3	2767.2
27°	2421.5	2454.5	2487.6	2573.6	2634.7	2732.6
27.5°	2379.6	2414.2	2447.2	2533.6	2596.6	2696.5
28°	2337.4	2372.7	2405.8	2491.8	2555.5	2657.7
28.5°	2293.6	2328.9	2363.5	2450.3	2515.6	2620.1
29°	2249.4	2285.2	2319.3	2406.9	2473.7	2579.4
29.5°	2203.7	2238.7	2272.9	2365.0	2431.9	2537.5
30°	2157.7	2191.8	2226.8	2319.3	2387.7	2495.2
30.5°	2111.6	2142.7	2179.2	2275.2	2344.7	2452.2
31°	2064.3	2093.9	2130.0	2228.7	2300.1	2407.3
31.5°	2016.3	2042.8	2077.8	2182.6	2255.2	2360.4
32°	1968.3	1991.0	2026.7	2137.7	2208.3	2315.1
32.5°	1920.3	1938.0	1975.6	2089.7	2162.6	2268.3
33°	1870.0	1886.5	1923.4	2042.8	2114.6	2220.6
33.5°	1820.8	1833.5	1870.4	1993.7	2068.6	2170.7
34°	1769.4	1781.3	1818.9	1944.9	2020.9	2121.9
34.5°	1719.8	1726.4	1765.9	1895.3	1972.2	2069.7
35°	1669.9	1674.1	1714.1	1843.9	1921.1	2016.3
35.5°	1618.8	1621.9	1663.0	1793.6	1871.1	1962.6
36°	1568.1	1570.8	1610.8	1742.1	1818.9	1909.2
36.5°	1515.1	1520.9	1560.4	1690.6	1766.7	1853.5
37°	1462.5	1469.0	1509.4	1636.5	1712.1	1797.4
37.5°	1409.9	1418.3	1457.9	1582.7	1657.6	1739.8
38°	1356.9	1362.6	1406.0	1528.9	1602.7	1682.6
38.5°	1304.3	1312.3	1353.8	1473.3	1547.0	1625.0
39°	1250.5	1262.0	1301.2	1420.3	1490.5	1567.0
39.5°	1198.3	1211.7	1248.6	1360.7	1434.1	1512.4
40°	1146.8	1161.8	1196.0	1308.5	1374.2	1457.5
40.5°	1095.7	1110.3	1143.3	1255.9	1318.1	1403.7
41°	1045.4	1059.2	1090.7	1203.6	1262.0	1350.4
41.5°	995.1	1010.5	1038.5	1151.0	1206.3	1297.0
42°	944.8	962.1	988.6	1097.3	1150.3	1244.0
42.5°	896.4	914.4	939.8	1044.3	1094.6	1190.6
43°	847.6	866.8	890.3	990.9	1041.6	1137.2
43.5°	800.4	821.5	841.9	937.5	988.6	1084.2



TEST NUMBER: P776385

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRC-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	666.7	684.4	699.0	780.8	837.6	929.8
45.5°	625.6	640.6	652.1	732.0	790.4	879.9
46°	584.5	596.8	607.2	684.8	744.7	832.6
46.5°	546.9	556.1	563.4	638.7	700.5	784.3
47°	509.6	515.4	521.6	595.7	656.7	736.2
47.5°	474.7	475.5	480.5	553.8	612.6	689.0
48°	440.1	437.1	440.9	512.3	571.5	644.8
48.5°	407.1	402.1	404.0	474.3	530.8	600.3
49°	376.4	367.2	368.7	437.4	492.0	558.8
49.5°	348.7	335.7	336.4	404.0	453.6	517.3
50°	321.5	303.8	304.6	371.0	417.9	478.5
50.5°	293.8	276.1	276.1	338.7	381.8	439.0
51°	266.2	249.3	249.6	308.4	348.7	402.9
51.5°	241.6	226.2	225.8	281.9	316.9	367.2
52°	218.1	204.3	204.7	255.4	287.7	332.2
52.5°	196.3	184.7	184.7	230.4	259.2	298.4
53°	175.1	165.5	165.9	206.6	232.7	267.3
53.5°	155.2	148.6	148.6	185.1	207.4	237.3
54°	136.3	132.5	131.7	164.4	184.3	208.9
54.5°	119.1	117.5	116.8	144.8	161.3	183.6
55°	101.8	102.2	101.4	127.9	141.0	160.5
55.5°	86.0	87.2	86.4	111.4	123.7	139.0
56°	71.1	72.2	71.1	94.9	106.8	121.7
56.5°	58.4	58.8	57.6	78.3	89.5	104.8
57°	46.1	44.2	43.0	61.8	72.6	87.6
57.5°	33.4	30.0	28.4	47.2	55.7	70.7
58°	21.1	17.7	16.1	31.5	39.9	53.4
58.5°	8.4	14.2	12.7	18.8	25.7	38.0
59°	4.6	11.1	9.2	9.6	14.6	23.4
59.5°	3.5	8.4	6.1	7.7	11.5	12.7
60°	3.1	5.4	2.7	5.8	8.4	10.0
60.5°	2.7	2.3	2.3	4.2	5.4	7.7
61°	2.3	1.9	1.9	2.3	2.7	5.0
61.5°	1.9	1.9	1.5	1.9	2.3	2.7
62°	1.5	1.5	1.5	1.9	1.9	2.3
62.5°	1.5	1.5	1.2	1.5	1.5	1.9
63°	1.5	1.2	1.2	1.5	1.5	1.9
63.5°	1.2	1.2	1.2	1.2	1.2	1.5
64°	1.2	1.2	1.2	1.2	1.2	1.2
64.5°	1.2	0.8	0.8	1.2	1.2	1.2
65°	0.8	0.8	0.8	0.8	0.8	1.2
65.5°	0.8	0.8	0.8	0.8	0.8	0.8
66°	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P776385

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRC-4000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.4	0.4	0.4	0.4	0.8
68°	0.4	0.4	0.4	0.4	0.4	0.8
68.5°	0.4	0.4	0.4	0.4	0.4	0.4
69°	0.4	0.4	0.4	0.4	0.4	0.4
69.5°	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4
70.5°	0.4	0.4	0.4	0.4	0.4	0.4
71°	0.4	0.4	0.4	0.4	0.4	0.4
71.5°	0.4	0.4	0.4	0.4	0.4	0.4
72°	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4
73°	0.4	0.4	0.0	0.4	0.4	0.4
73.5°	0.4	0.0	0.0	0.0	0.0	0.4
74°	0.4	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	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: P776385  
CATALOG NUMBER: HCDJBL3040CSD-HCD6TRC-4000lm-2700K

**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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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°	3058.3	3121.3	3181.9	3196.2	3135.5	3105.5	3031.4	2950.4	2891.2	2857.4	2829.0
22°	3032.5	3097.8	3161.2	3173.1	3112.4	3080.6	3002.6	2923.1	2860.9	2827.8	2794.4



44°	1030.8	1108.0	1172.5	1205.6	1156.0	1112.2	997.0	942.1	871.4	821.1	771.2
44.5°	979.4	1055.4	1118.0	1146.8	1105.7	1059.6	947.1	891.0	825.3	775.0	727.8



66.5°	0.8	0.8	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8
67°	0.8	0.8	1.2	1.2	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°	2820.2	2829.8	2856.6	2949.6	3015.3	3058.3
22°	2788.3	2798.3	2826.3	2918.5	2984.9	3032.5



44°	753.5	774.3	793.1	884.1	937.1	1030.8
44.5°	709.7	729.3	746.2	831.1	886.8	979.4

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66.5°	0.8	0.8	0.8	0.8	0.8	0.8
67°	0.8	0.8	0.4	0.8	0.8	0.8

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)