

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: P776699

Luminaire Tested: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776699  
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: HCDJBS4050CSD-HCD6TRC-5000lm-5000K  
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

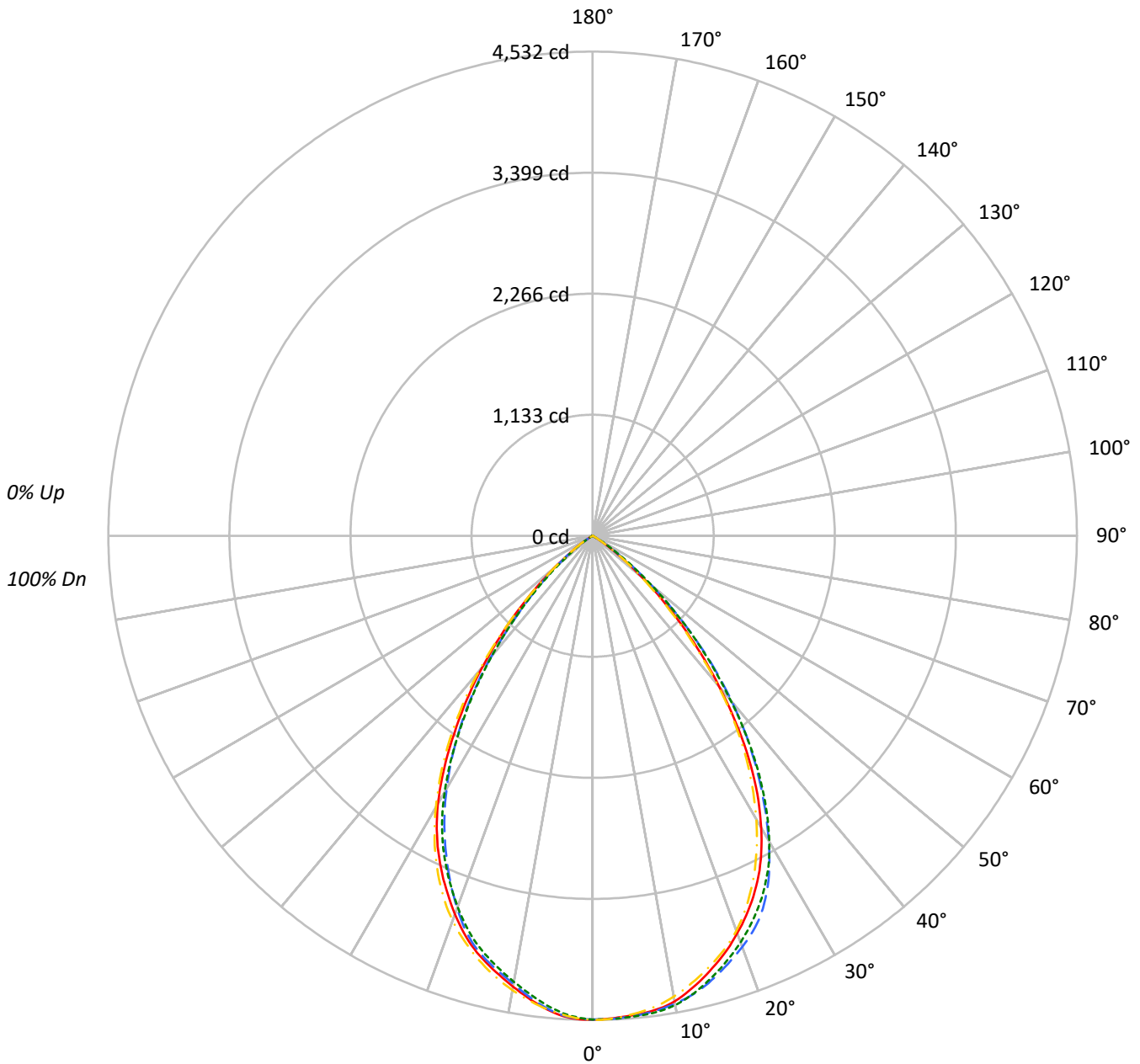
Lumens per Lamp: N/A  
Luminaire Lumens: 5723.8 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

### 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°	248270	248270	248270	248270
5°	247776	248497	245878	244034
10°	246260	248314	238584	235990
15°	239581	243248	231068	227816
20°	231003	236212	219784	215479
25°	219097	226320	204465	199034
30°	199714	209152	183205	175432
35°	170620	181275	151152	141663
40°	131883	143662	114887	105126
45°	91149	103158	76163	67092
50°	51606	61746	39555	32758
55°	19402	25949	15732	12348
60°	1381	4473	636	746
65°	195	246	195	130
70°	80	80	80	80
75°	0	106	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 106693 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.6	7.4
10°-20°	1167.1	20.4
20°-30°	1603.6	28.0
30°-40°	1490.8	26.0
40°-50°	841.8	14.7
50°-60°	194.2	3.4
60°-70°	2.5	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°	3194.3	55.8
0°-40°	4685.1	81.9
0°-60°	5721.1	100.0
0°-90°	5723.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5723.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4529	4529	4529	4529	4529	
5°	4503	4516	4468	4435	4503	428
15°	4221	4286	4071	4014	4221	1187
25°	3622	3742	3380	3290	3622	1655
35°	2550	2709	2259	2117	2550	1572
45°	1176	1331	982	865	1176	909
55°	203	272	165	129	203	210
65°	2	2	2	1	2	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°	4528.8	4528.8	4528.8	4528.8	4528.8	4528.8	4528.8	4528.8	4528.8	4528.8	4528.8
0.5°	4530.3	4527.8	4527.8	4529.8	4527.4	4529.8	4531.7	4532.7	4531.2	4527.8	4525.9
1°	4528.3	4527.8	4527.8	4529.8	4527.8	4530.3	4531.2	4531.7	4530.8	4527.8	4524.9
1.5°	4525.4	4525.4	4526.9	4529.8	4526.9	4530.3	4528.8	4529.8	4528.3	4525.4	4522.0
2°	4523.0	4524.0	4525.9	4529.8	4526.4	4529.8	4525.9	4525.9	4525.4	4523.0	4518.1
2.5°	4520.1	4522.5	4524.9	4528.3	4525.4	4527.4	4522.0	4521.0	4520.1	4518.1	4513.3
3°	4516.2	4520.1	4522.5	4526.4	4524.0	4524.9	4517.2	4514.7	4512.8	4512.3	4507.0
3.5°	4512.8	4517.6	4520.1	4524.9	4522.5	4522.0	4511.8	4507.0	4503.6	4503.6	4498.2
4°	4509.9	4515.2	4517.6	4522.5	4520.1	4519.1	4506.0	4497.7	4493.9	4492.9	4488.0
4.5°	4506.0	4511.8	4514.7	4520.1	4518.1	4516.2	4498.7	4487.5	4481.7	4480.7	4474.9
5°	4502.6	4508.9	4511.3	4516.7	4515.7	4512.8	4491.9	4476.4	4468.1	4467.1	4460.3
5.5°	4499.7	4505.0	4507.5	4513.3	4513.3	4509.4	4483.7	4463.7	4453.1	4451.1	4444.3
6°	4494.8	4500.7	4502.6	4509.9	4511.3	4505.5	4475.4	4451.1	4438.0	4435.1	4426.4
6.5°	4490.5	4495.3	4497.7	4505.5	4507.5	4502.1	4466.7	4437.0	4420.5	4416.6	4408.4
7°	4484.6	4490.0	4491.9	4501.1	4504.1	4497.3	4457.9	4423.0	4403.0	4398.7	4388.5
7.5°	4477.8	4483.2	4486.1	4495.8	4500.2	4492.9	4447.2	4408.4	4384.6	4379.2	4368.1
8°	4470.5	4475.4	4479.3	4490.5	4494.8	4487.5	4435.6	4391.9	4365.7	4359.3	4346.7
8.5°	4461.8	4466.7	4472.0	4483.2	4488.0	4480.3	4423.4	4375.8	4345.7	4338.5	4325.8
9°	4450.6	4456.9	4464.2	4476.9	4479.8	4472.5	4410.3	4359.3	4326.8	4319.0	4304.5
9.5°	4438.0	4445.3	4456.0	4468.6	4470.5	4462.8	4395.3	4343.3	4306.4	4298.6	4283.6
10°	4423.9	4433.6	4446.7	4459.9	4460.8	4451.1	4379.2	4325.8	4286.0	4277.3	4262.7
10.5°	4408.4	4420.0	4437.5	4449.7	4448.2	4438.0	4363.2	4307.4	4265.1	4256.4	4240.8
11°	4390.4	4405.0	4426.4	4439.0	4434.1	4423.0	4346.2	4288.9	4244.2	4235.0	4219.5
11.5°	4372.9	4388.5	4415.7	4427.8	4419.1	4406.0	4327.3	4271.4	4223.9	4213.7	4198.6
12°	4353.0	4372.0	4402.6	4415.7	4402.1	4387.5	4308.3	4252.5	4203.5	4191.8	4178.7
12.5°	4332.6	4354.0	4389.9	4402.1	4385.1	4367.6	4288.0	4232.6	4182.1	4168.5	4158.3
13°	4311.3	4335.5	4374.9	4388.5	4366.6	4347.7	4269.5	4212.2	4161.2	4145.7	4138.4
13.5°	4290.4	4315.6	4360.3	4374.4	4347.2	4326.8	4248.1	4191.3	4139.4	4120.9	4117.0
14°	4267.1	4295.7	4343.8	4359.3	4327.3	4304.5	4228.7	4169.5	4117.5	4095.7	4095.7
14.5°	4245.2	4276.3	4325.8	4343.3	4306.4	4281.6	4206.9	4145.7	4095.2	4068.9	4072.8
15°	4221.4	4254.9	4306.4	4327.3	4286.0	4258.3	4186.0	4121.9	4071.4	4042.7	4049.5
15.5°	4198.1	4233.6	4287.0	4308.8	4264.6	4235.5	4163.6	4097.6	4047.6	4014.6	4024.8
16°	4174.3	4212.2	4266.6	4290.4	4242.3	4212.7	4142.8	4070.4	4022.3	3985.9	3998.5
16.5°	4150.0	4190.3	4245.2	4270.5	4220.5	4189.4	4119.4	4043.2	3995.1	3957.3	3968.9
17°	4124.3	4168.0	4224.3	4251.0	4197.1	4165.6	4096.1	4016.5	3966.5	3926.2	3937.8
17.5°	4100.0	4145.7	4203.0	4229.7	4173.3	4141.8	4072.8	3987.4	3936.4	3893.2	3904.3
18°	4073.3	4123.3	4181.6	4209.3	4149.1	4117.0	4047.1	3958.7	3906.3	3862.1	3868.4
18.5°	4046.6	4101.0	4160.2	4187.9	4125.3	4092.7	4021.8	3927.6	3872.8	3828.6	3830.0
19°	4018.0	4077.7	4138.9	4166.1	4100.0	4068.5	3994.2	3897.5	3839.2	3795.1	3790.7
19.5°	3988.8	4053.4	4117.0	4143.2	4075.3	4042.2	3964.1	3866.4	3803.8	3759.1	3750.4
20°	3959.7	4028.6	4094.2	4118.5	4049.0	4016.0	3933.5	3833.4	3767.4	3724.6	3708.6
20.5°	3929.1	4002.4	4071.9	4093.7	4020.9	3986.9	3900.9	3798.9	3730.5	3688.2	3664.9
21°	3899.0	3975.2	4048.1	4068.0	3993.2	3957.3	3867.4	3765.4	3693.6	3650.8	3621.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	3801.4	3885.9	3969.9	3982.5	3905.8	3862.1	3757.7	3659.1	3579.4	3538.2	3489.6
23°	3768.3	3852.8	3939.8	3950.0	3873.7	3827.1	3718.8	3621.7	3541.6	3500.3	3443.0
23.5°	3732.9	3818.9	3909.2	3917.4	3842.6	3792.6	3678.0	3584.8	3503.7	3458.0	3395.4
24°	3697.0	3783.4	3874.2	3882.0	3810.1	3755.7	3637.2	3547.9	3462.9	3415.8	3347.8
24.5°	3659.6	3747.5	3837.8	3844.1	3776.1	3718.3	3596.4	3511.0	3421.6	3373.1	3299.7
25°	3622.2	3709.6	3799.4	3806.2	3741.6	3680.5	3555.2	3470.7	3380.3	3328.9	3252.1
25.5°	3582.8	3668.8	3758.6	3765.9	3705.7	3640.1	3514.4	3429.4	3337.1	3284.2	3203.6
26°	3541.1	3627.5	3714.9	3723.7	3665.9	3599.8	3464.8	3386.2	3293.4	3240.0	3155.0
26.5°	3498.8	3585.8	3670.3	3680.0	3626.1	3559.5	3417.7	3341.5	3248.7	3192.9	3106.5
27°	3455.1	3541.1	3622.7	3634.3	3586.2	3519.7	3371.6	3296.8	3202.1	3145.8	3056.9
27.5°	3409.5	3493.0	3573.6	3587.7	3546.4	3477.5	3321.6	3249.7	3155.5	3096.7	3005.0
28°	3360.4	3444.4	3520.2	3538.2	3506.1	3429.9	3273.0	3200.7	3107.9	3045.3	2953.0
28.5°	3312.8	3393.5	3467.3	3487.7	3458.5	3384.7	3221.5	3149.7	3056.9	2991.4	2898.1
29°	3261.4	3340.5	3410.9	3434.2	3409.0	3334.2	3170.1	3098.2	3004.5	2937.0	2844.7
29.5°	3208.4	3289.0	3355.1	3380.3	3357.0	3285.2	3116.2	3044.3	2949.1	2881.6	2787.4
30°	3155.0	3231.7	3296.3	3325.0	3304.1	3233.7	3063.2	2989.9	2894.2	2824.8	2730.1
30.5°	3100.6	3177.4	3238.5	3270.1	3249.7	3181.7	3007.9	2933.1	2836.0	2766.5	2672.3
31°	3043.8	3120.5	3177.8	3210.4	3194.8	3126.9	2951.5	2874.8	2776.7	2707.3	2615.5
31.5°	2984.6	3062.3	3117.1	3152.1	3137.5	3073.0	2894.7	2816.5	2716.0	2647.1	2557.2
32°	2927.3	3002.1	3055.5	3090.4	3079.3	3016.6	2838.4	2757.3	2652.9	2586.4	2499.4
32.5°	2868.0	2941.8	2994.3	3029.2	3020.5	2960.8	2779.6	2696.1	2588.8	2522.3	2440.2
33°	2807.8	2881.1	2930.2	2967.1	2960.3	2900.1	2721.4	2634.0	2524.2	2457.7	2381.9
33.5°	2744.7	2819.5	2870.5	2905.4	2900.1	2840.8	2662.1	2571.3	2458.7	2393.6	2323.7
34°	2683.0	2755.4	2806.8	2841.8	2836.0	2779.6	2603.4	2507.2	2392.1	2327.1	2263.9
34.5°	2617.0	2691.7	2744.7	2779.6	2772.8	2717.5	2542.7	2444.1	2324.1	2262.5	2202.7
35°	2549.5	2624.7	2681.5	2716.0	2708.7	2652.4	2482.9	2379.0	2258.6	2196.9	2140.1
35.5°	2481.5	2558.7	2618.9	2652.9	2643.7	2588.8	2422.2	2314.4	2193.0	2130.4	2077.4
36°	2414.0	2492.2	2556.3	2589.8	2577.6	2522.3	2359.1	2248.9	2128.4	2065.8	2013.3
36.5°	2343.6	2424.2	2491.2	2525.7	2508.2	2455.7	2293.5	2183.8	2063.4	1999.7	1947.8
37°	2272.7	2358.1	2429.0	2460.6	2438.7	2389.2	2229.0	2119.2	1998.8	1934.7	1880.3
37.5°	2199.8	2288.2	2365.9	2394.6	2368.3	2320.7	2161.9	2054.1	1934.7	1869.6	1814.2
38°	2127.5	2219.2	2300.3	2328.5	2297.4	2250.3	2095.4	1987.6	1871.1	1802.6	1746.7
38.5°	2054.6	2149.8	2233.8	2260.0	2225.1	2179.9	2027.4	1922.1	1807.0	1737.5	1680.7
39°	1981.3	2080.4	2166.8	2194.0	2153.2	2109.5	1957.5	1856.0	1739.9	1671.5	1613.2
39.5°	1912.3	2010.9	2100.3	2125.5	2079.9	2037.6	1889.0	1790.0	1672.9	1605.9	1543.8
40°	1842.9	1938.6	2031.3	2058.5	2007.5	1964.3	1819.6	1723.0	1605.4	1538.9	1477.7
40.5°	1774.9	1867.7	1963.3	1989.1	1937.6	1892.9	1749.2	1656.9	1537.9	1473.8	1409.2
41°	1707.4	1797.2	1893.9	1919.6	1866.7	1821.0	1676.8	1590.9	1471.4	1409.2	1342.2
41.5°	1639.9	1718.6	1825.4	1849.2	1798.2	1749.7	1604.9	1524.3	1404.9	1344.2	1275.7
42°	1572.9	1655.5	1758.4	1779.8	1729.3	1679.7	1533.6	1457.3	1342.2	1281.0	1211.1
42.5°	1505.4	1592.3	1689.4	1710.3	1664.2	1609.8	1464.6	1391.8	1282.5	1218.4	1150.9
43°	1437.9	1529.2	1620.5	1641.9	1597.7	1542.3	1394.2	1321.8	1221.8	1156.2	1089.2
43.5°	1370.9	1466.1	1551.5	1598.6	1529.7	1474.3	1325.2	1255.8	1162.6	1096.0	1031.9



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CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1175.7	1270.4	1346.1	1376.2	1330.6	1272.3	1131.5	1062.5	982.4	923.6	864.9
45.5°	1112.5	1205.3	1277.2	1302.4	1263.6	1207.2	1068.8	998.4	924.6	866.3	813.9
46°	1052.8	1141.2	1208.2	1236.9	1199.5	1142.6	1006.2	937.2	867.3	812.4	762.9
46.5°	991.6	1078.1	1141.7	1172.3	1138.8	1080.0	946.5	877.5	811.0	760.5	714.8
47°	930.9	1017.4	1076.1	1107.2	1075.6	1018.8	886.2	817.8	755.6	709.5	667.7
47.5°	871.2	955.7	1012.5	1043.1	1014.9	960.5	828.9	762.9	705.1	659.9	624.5
48°	815.3	895.5	949.4	980.0	956.2	902.8	773.6	706.1	652.2	612.4	580.8
48.5°	759.0	835.7	887.2	918.3	896.9	846.9	720.2	654.1	601.2	567.2	540.5
49°	706.6	779.4	828.0	858.6	837.2	793.0	667.7	603.1	551.2	524.0	500.7
49.5°	654.1	722.6	769.2	798.3	778.9	740.6	619.6	556.5	505.0	482.7	466.2
50°	605.1	666.7	714.3	742.0	724.0	689.1	571.1	510.9	463.8	446.3	431.7
50.5°	555.1	612.8	660.4	686.2	669.2	638.6	526.9	473.0	423.0	409.9	397.2
51°	509.4	560.4	607.5	632.3	617.7	590.5	484.6	435.6	382.2	373.9	362.8
51.5°	464.2	509.4	557.0	579.8	567.2	543.4	447.2	397.7	341.4	337.5	328.3
52°	420.1	462.3	508.4	529.3	518.6	498.2	409.9	359.8	308.4	305.0	297.7
52.5°	377.3	417.6	461.8	483.2	475.9	457.0	372.5	322.0	278.7	275.3	269.0
53°	338.0	375.9	417.6	437.1	433.7	415.7	335.1	290.9	252.5	247.7	241.3
53.5°	300.1	335.6	373.9	392.4	390.9	374.9	303.0	263.2	229.2	221.9	215.1
54°	264.2	299.1	334.6	351.1	348.7	333.6	271.9	236.5	205.9	197.2	188.9
54.5°	232.1	263.7	295.7	313.2	306.4	298.7	243.8	211.7	185.0	174.8	165.1
55°	203.0	231.6	260.8	277.3	271.5	265.6	215.6	188.4	164.6	153.0	141.8
55.5°	175.8	202.0	227.8	243.3	238.4	233.6	189.4	166.1	144.7	131.6	120.4
56°	153.9	173.4	196.2	211.2	208.3	204.9	165.1	144.7	125.8	112.2	100.0
56.5°	132.6	151.5	167.1	183.1	180.2	177.7	141.3	124.8	107.3	93.7	82.1
57°	110.7	129.7	145.2	160.7	153.9	152.5	119.5	105.4	89.8	77.2	67.5
57.5°	89.4	107.8	123.3	138.4	130.1	128.7	99.1	87.4	74.3	61.2	52.4
58°	67.5	86.0	101.5	116.5	107.8	106.8	81.6	71.9	58.3	45.2	37.4
58.5°	48.1	64.1	79.6	94.2	88.9	87.9	66.5	56.3	42.7	28.7	22.8
59°	29.6	45.2	60.2	72.4	72.8	71.9	51.5	40.8	27.2	12.6	7.8
59.5°	16.0	27.7	40.8	52.4	56.8	56.3	36.9	25.3	11.7	6.8	5.3
60°	12.6	14.6	24.3	33.5	40.8	40.3	21.9	9.7	5.8	4.9	4.4
60.5°	9.7	11.7	12.6	18.9	24.8	24.8	6.8	5.3	4.4	3.9	3.9
61°	6.3	9.2	10.2	15.1	9.2	8.7	4.4	3.9	3.9	3.4	3.4
61.5°	3.4	6.3	7.8	11.2	5.3	4.9	3.4	3.4	3.4	2.9	2.9
62°	2.9	3.9	5.8	7.8	3.9	3.9	2.9	2.9	2.9	2.9	2.4
62.5°	2.4	3.4	3.9	3.9	3.4	3.4	2.4	2.4	2.4	2.4	2.4
63°	2.4	2.9	3.4	3.4	2.9	2.9	2.4	2.4	1.9	1.9	1.9
63.5°	1.9	2.4	2.9	2.9	2.4	2.4	1.9	1.9	1.9	1.9	1.9
64°	1.5	1.9	2.4	2.4	2.4	1.9	1.9	1.9	1.9	1.9	1.5
64.5°	1.5	1.9	1.9	2.4	1.9	1.9	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.9	1.9	1.9	1.9	1.5	1.5	1.5	1.5	1.5
65.5°	1.0	1.5	1.5	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.0
66°	1.0	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0





TEST NUMBER: P776699

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
68°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
68.5°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5
69°	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	1.0	1.0	1.0	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°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5
75.5°	0.0	0.0	0.5	0.5	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: P776699  
CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

**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: P776699

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4528.8	4528.8	4528.8	4528.8	4528.8	4528.8
0.5°	4525.9	4523.5	4524.9	4528.8	4530.3	4530.3
1°	4523.0	4520.1	4520.1	4525.9	4527.8	4528.3
1.5°	4519.1	4514.7	4514.2	4522.0	4524.0	4525.4
2°	4513.3	4507.9	4506.5	4516.2	4520.1	4523.0
2.5°	4506.5	4499.7	4497.7	4509.4	4515.2	4520.1
3°	4497.3	4490.0	4487.5	4501.6	4509.9	4516.2
3.5°	4487.1	4478.3	4476.4	4492.4	4504.1	4512.8
4°	4474.9	4465.2	4463.7	4483.7	4498.2	4509.9
4.5°	4460.8	4450.6	4450.1	4473.5	4491.9	4506.0
5°	4445.3	4434.6	4434.6	4462.8	4485.1	4502.6
5.5°	4427.3	4418.1	4419.1	4451.1	4478.3	4499.7
6°	4410.3	4400.1	4402.6	4439.0	4470.5	4494.8
6.5°	4390.9	4381.2	4385.6	4426.4	4461.3	4490.5
7°	4372.0	4361.8	4367.6	4413.2	4453.1	4484.6
7.5°	4352.1	4342.8	4349.6	4398.2	4442.4	4477.8
8°	4330.7	4321.9	4331.2	4384.1	4432.7	4470.5
8.5°	4309.8	4302.0	4312.2	4368.6	4419.6	4461.8
9°	4289.4	4281.2	4292.3	4352.5	4406.4	4450.6
9.5°	4268.5	4260.3	4271.9	4335.5	4391.9	4438.0
10°	4247.2	4239.4	4253.0	4319.0	4376.3	4423.9
10.5°	4225.3	4218.5	4233.6	4300.6	4359.8	4408.4
11°	4204.9	4197.6	4213.7	4283.1	4341.9	4390.4
11.5°	4182.1	4176.3	4192.8	4264.6	4323.4	4372.9
12°	4160.7	4153.9	4171.9	4244.7	4304.5	4353.0
12.5°	4137.9	4132.6	4151.0	4224.3	4284.6	4332.6
13°	4115.1	4109.7	4129.6	4203.5	4265.6	4311.3
13.5°	4089.8	4086.9	4106.8	4181.6	4245.2	4290.4
14°	4065.5	4062.6	4084.0	4159.3	4224.8	4267.1
14.5°	4039.8	4039.3	4060.2	4135.0	4204.9	4245.2
15°	4014.1	4014.1	4035.4	4111.2	4184.0	4221.4
15.5°	3986.4	3987.8	4010.7	4085.5	4161.7	4198.1
16°	3958.2	3960.7	3984.0	4061.2	4139.8	4174.3
16.5°	3928.6	3932.5	3955.8	4035.4	4117.0	4150.0
17°	3898.5	3902.4	3926.7	4008.7	4093.7	4124.3
17.5°	3865.0	3870.3	3895.6	3981.5	4068.9	4100.0
18°	3832.9	3837.3	3863.5	3953.9	4042.2	4073.3
18.5°	3797.5	3802.8	3830.0	3925.7	4013.6	4046.6
19°	3761.6	3767.9	3795.5	3895.6	3983.5	4018.0
19.5°	3724.6	3731.0	3760.6	3865.0	3952.4	3988.8
20°	3686.8	3693.6	3724.6	3833.4	3919.4	3959.7
20.5°	3646.9	3655.7	3687.3	3799.4	3885.9	3929.1
21°	3606.2	3617.3	3649.4	3765.9	3849.9	3899.0

TEST NUMBER: P776699

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3485.2	3498.3	3534.3	3651.8	3733.9	3801.4
23°	3442.5	3459.0	3495.9	3612.0	3691.6	3768.3
23.5°	3396.9	3418.2	3455.1	3571.2	3648.9	3732.9
24°	3351.7	3376.9	3414.8	3528.0	3607.1	3697.0
24.5°	3305.6	3333.2	3371.6	3486.2	3563.4	3659.6
25°	3259.9	3290.5	3329.8	3441.0	3518.3	3622.2
25.5°	3211.8	3246.3	3284.7	3395.9	3472.1	3582.8
26°	3162.8	3200.2	3241.0	3349.3	3426.0	3541.1
26.5°	3112.8	3152.6	3194.4	3303.1	3378.9	3498.8
27°	3061.8	3103.5	3145.3	3254.1	3331.3	3455.1
27.5°	3008.9	3052.6	3094.3	3203.6	3283.2	3409.5
28°	2955.4	3000.1	3041.9	3150.7	3231.3	3360.4
28.5°	2900.1	2944.8	2988.5	3098.2	3180.8	3312.8
29°	2844.2	2889.4	2932.6	3043.3	3127.8	3261.4
29.5°	2786.4	2830.6	2873.9	2990.4	3074.9	3208.4
30°	2728.2	2771.4	2815.6	2932.6	3019.0	3155.0
30.5°	2669.9	2709.2	2755.4	2876.8	2964.7	3100.6
31°	2610.2	2647.6	2693.2	2818.0	2908.3	3043.8
31.5°	2549.5	2583.0	2627.2	2759.7	2851.5	2984.6
32°	2488.8	2517.4	2562.6	2702.9	2792.3	2927.3
32.5°	2428.1	2450.4	2498.0	2642.2	2734.5	2868.0
33°	2364.4	2385.3	2431.9	2583.0	2673.8	2807.8
33.5°	2302.3	2318.3	2364.9	2520.8	2615.5	2744.7
34°	2237.2	2252.3	2299.9	2459.1	2555.3	2683.0
34.5°	2174.6	2182.8	2232.8	2396.5	2493.6	2617.0
35°	2111.4	2116.8	2167.3	2331.4	2429.0	2549.5
35.5°	2046.9	2050.7	2102.7	2267.8	2365.9	2481.5
36°	1982.8	1986.2	2036.7	2202.7	2299.9	2414.0
36.5°	1915.7	1923.0	1973.0	2137.7	2233.8	2343.6
37°	1849.2	1857.5	1908.5	2069.2	2164.9	2272.7
37.5°	1782.7	1793.4	1843.4	2001.2	2095.9	2199.8
38°	1715.7	1723.0	1777.8	1933.2	2026.5	2127.5
38.5°	1649.1	1659.3	1711.8	1862.8	1956.0	2054.6
39°	1581.2	1595.7	1645.3	1795.8	1884.7	1981.3
39.5°	1515.1	1532.1	1578.7	1720.5	1813.3	1912.3
40°	1450.0	1469.0	1512.2	1654.5	1737.5	1842.9
40.5°	1385.5	1403.9	1445.7	1588.0	1666.6	1774.9
41°	1321.8	1339.3	1379.1	1521.9	1595.7	1707.4
41.5°	1258.2	1277.6	1313.1	1455.4	1525.3	1639.9
42°	1194.6	1216.5	1250.0	1387.4	1454.4	1572.9
42.5°	1133.4	1156.2	1188.3	1320.4	1384.0	1505.4
43°	1071.7	1096.0	1125.6	1252.9	1317.0	1437.9
43.5°	1012.0	1038.7	1064.5	1185.4	1250.0	1370.9



TEST NUMBER: P776699

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	843.0	865.4	883.8	987.2	1059.1	1175.7
45.5°	791.1	810.0	824.6	925.6	999.4	1112.5
46°	739.1	754.6	767.8	865.8	941.6	1052.8
46.5°	691.5	703.2	712.4	807.6	885.8	991.6
47°	644.4	651.7	659.5	753.2	830.4	930.9
47.5°	600.2	601.2	607.5	700.3	774.6	871.2
48°	556.5	552.6	557.5	647.8	722.6	815.3
48.5°	514.7	508.4	510.9	599.7	671.1	759.0
49°	475.9	464.2	466.2	553.1	622.1	706.6
49.5°	440.9	424.4	425.4	510.9	573.5	654.1
50°	406.5	384.1	385.1	469.1	528.3	605.1
50.5°	371.5	349.2	349.2	428.3	482.7	555.1
51°	336.5	315.2	315.6	389.9	440.9	509.4
51.5°	305.4	286.0	285.5	356.4	400.6	464.2
52°	275.8	258.3	258.8	322.9	363.7	420.1
52.5°	248.1	233.6	233.6	291.4	327.8	377.3
53°	221.4	209.3	209.8	261.3	294.3	338.0
53.5°	196.2	187.9	187.9	234.1	262.2	300.1
54°	172.4	167.5	166.6	207.8	233.1	264.2
54.5°	150.5	148.6	147.6	183.1	204.0	232.1
55°	128.7	129.2	128.2	161.7	178.2	203.0
55.5°	108.8	110.2	109.3	140.8	156.4	175.8
56°	89.8	91.3	89.8	119.9	135.0	153.9
56.5°	73.8	74.3	72.8	99.1	113.1	132.6
57°	58.3	55.8	54.4	78.2	91.8	110.7
57.5°	42.2	37.9	35.9	59.7	70.4	89.4
58°	26.7	22.3	20.4	39.8	50.5	67.5
58.5°	10.7	18.0	16.0	23.8	32.5	48.1
59°	5.8	14.1	11.7	12.1	18.5	29.6
59.5°	4.4	10.7	7.8	9.7	14.6	16.0
60°	3.9	6.8	3.4	7.3	10.7	12.6
60.5°	3.4	2.9	2.9	5.3	6.8	9.7
61°	2.9	2.4	2.4	2.9	3.4	6.3
61.5°	2.4	2.4	1.9	2.4	2.9	3.4
62°	1.9	1.9	1.9	2.4	2.4	2.9
62.5°	1.9	1.9	1.5	1.9	1.9	2.4
63°	1.9	1.5	1.5	1.9	1.9	2.4
63.5°	1.5	1.5	1.5	1.5	1.5	1.9
64°	1.5	1.5	1.5	1.5	1.5	1.5
64.5°	1.5	1.0	1.0	1.5	1.5	1.5
65°	1.0	1.0	1.0	1.0	1.0	1.5
65.5°	1.0	1.0	1.0	1.0	1.0	1.0
66°	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P776699  
 CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.0	0.5	0.5	0.5	0.5	1.0
68°	0.5	0.5	0.5	0.5	0.5	1.0
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	0.0	0.5	0.5	0.5
73.5°	0.5	0.0	0.0	0.0	0.0	0.5
74°	0.5	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: P776699  
CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-5000K

**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°	3866.9	3946.6	4023.3	4041.3	3964.5	3926.7	3832.9	3730.5	3655.7	3613.0	3577.0
22°	3834.4	3916.9	3997.1	4012.1	3935.4	3895.1	3796.5	3696.0	3617.3	3575.6	3533.3



44°	1303.4	1401.0	1482.6	1524.3	1461.7	1406.3	1260.6	1191.2	1101.9	1038.2	975.1
44.5°	1238.3	1334.5	1413.6	1450.0	1398.1	1339.8	1197.5	1126.6	1043.6	980.0	920.2



66.5°	1.0	1.0	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0
67°	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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°	3565.8	3578.0	3612.0	3729.5	3812.5	3866.9
22°	3525.5	3538.2	3573.6	3690.2	3774.2	3834.4



44°	952.8	979.0	1002.8	1117.9	1184.9	1303.4
44.5°	897.4	922.2	943.5	1050.9	1121.3	1238.3

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66.5°	1.0	1.0	1.0	1.0	1.0	1.0
67°	1.0	1.0	0.5	1.0	1.0	1.0

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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)