

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: P776697

Luminaire Tested: HCDJBL54050CSD-HCD6TRC-5000lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776697
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-3500K
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

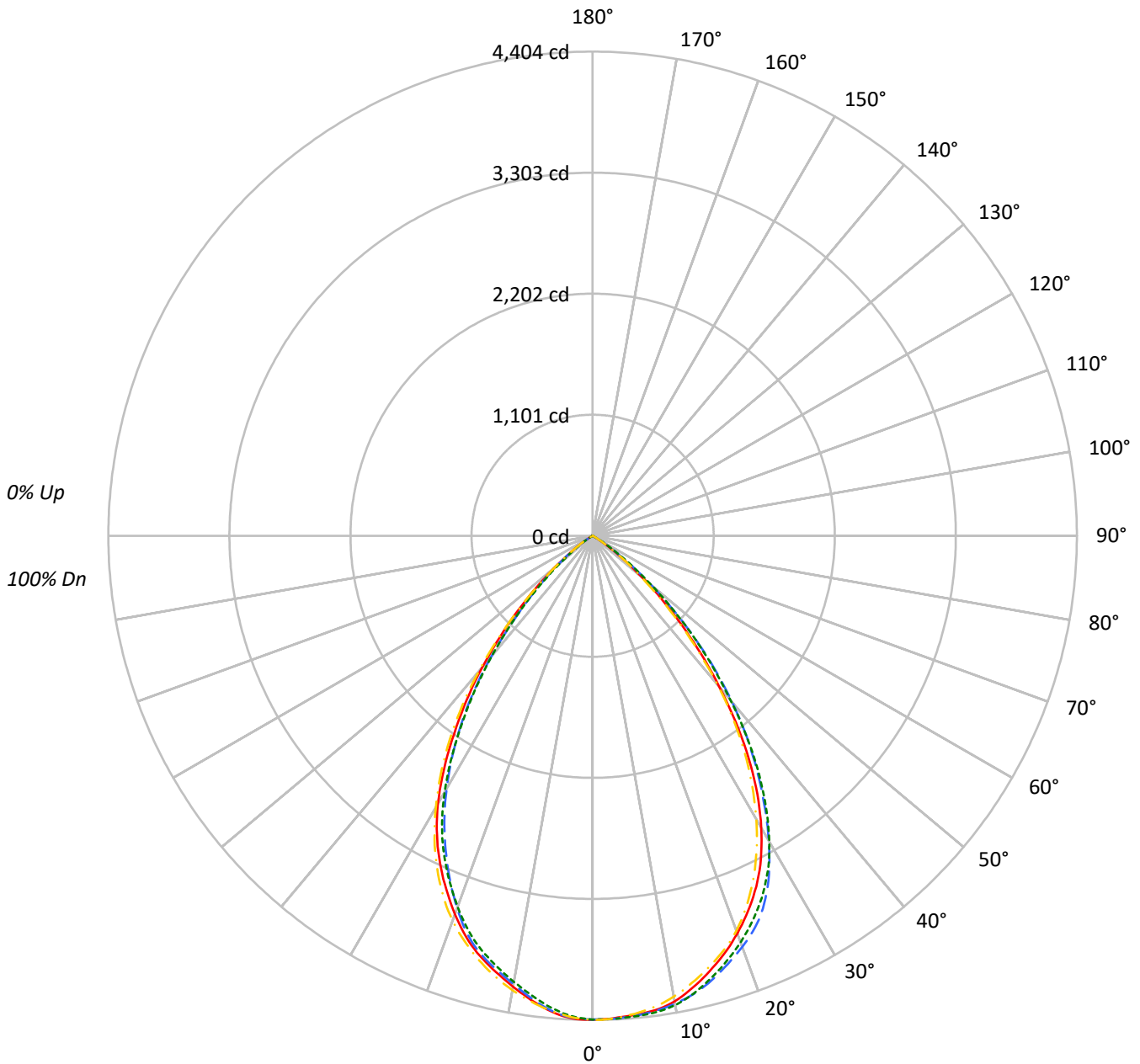
Lumens per Lamp: N/A
Luminaire Lumens: 5562.3 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (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



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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°	241269	241269	241269	241269
5°	240787	241486	238944	237150
10°	239313	241311	231854	229332
15°	232822	236386	224547	221386
20°	224486	229550	213583	209400
25°	212916	219938	198701	193420
30°	194080	203253	178040	170482
35°	165802	176162	146889	137667
40°	128162	139612	111645	102156
45°	88575	100243	74015	65193
50°	50148	60007	38438	31837
55°	18857	25213	15292	11995
60°	1349	4342	625	724
65°	182	246	182	117
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: 103685 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.7	7.4
10°-20°	1134.1	20.4
20°-30°	1558.4	28.0
30°-40°	1448.8	26.0
40°-50°	818.0	14.7
50°-60°	188.7	3.4
60°-70°	2.4	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°	3104.2	55.8
0°-40°	4552.9	81.9
0°-60°	5559.7	100.0
0°-90°	5562.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5562.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4401	4401	4401	4401	4401	
5°	4376	4388	4342	4310	4376	416
15°	4102	4165	3956	3901	4102	1154
25°	3520	3636	3285	3198	3520	1608
35°	2478	2632	2195	2057	2478	1528
45°	1142	1293	955	841	1142	884
55°	197	264	160	126	197	204
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°	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1
0.5°	4402.5	4400.1	4400.1	4402.0	4399.6	4402.0	4403.9	4404.8	4403.4	4400.1	4398.2
1°	4400.6	4400.1	4400.1	4402.0	4400.1	4402.5	4403.4	4403.9	4402.9	4400.1	4397.3
1.5°	4397.8	4397.8	4399.2	4402.0	4399.2	4402.5	4401.1	4402.0	4400.6	4397.8	4394.5
2°	4395.4	4396.3	4398.2	4402.0	4398.7	4402.0	4398.2	4398.2	4397.8	4395.4	4390.7
2.5°	4392.6	4394.9	4397.3	4400.6	4397.8	4399.6	4394.5	4393.5	4392.6	4390.7	4386.0
3°	4388.8	4392.6	4394.9	4398.7	4396.3	4397.3	4389.7	4387.4	4385.5	4385.0	4379.8
3.5°	4385.5	4390.2	4392.6	4397.3	4394.9	4394.5	4384.5	4379.8	4376.5	4376.5	4371.3
4°	4382.7	4387.8	4390.2	4394.9	4392.6	4391.6	4378.9	4370.9	4367.1	4366.1	4361.4
4.5°	4378.9	4384.5	4387.4	4392.6	4390.7	4388.8	4371.8	4360.9	4355.3	4354.3	4348.7
5°	4375.6	4381.7	4384.1	4389.3	4388.3	4385.5	4365.2	4350.1	4342.1	4341.1	4334.5
5.5°	4372.7	4377.9	4380.3	4386.0	4386.0	4382.2	4357.2	4337.8	4327.4	4325.6	4318.9
6°	4368.0	4373.7	4375.6	4382.7	4384.1	4378.4	4349.1	4325.6	4312.8	4310.0	4301.5
6.5°	4363.8	4368.5	4370.9	4378.4	4380.3	4375.1	4340.7	4311.9	4295.8	4292.0	4284.0
7°	4358.1	4363.3	4365.2	4374.2	4377.0	4370.4	4332.2	4298.2	4278.8	4274.6	4264.7
7.5°	4351.5	4356.7	4359.5	4369.0	4373.2	4366.1	4321.8	4284.0	4260.9	4255.7	4244.9
8°	4344.4	4349.1	4352.9	4363.8	4368.0	4360.9	4310.5	4268.0	4242.5	4236.4	4224.1
8.5°	4335.9	4340.7	4345.8	4356.7	4361.4	4353.9	4298.7	4252.4	4223.1	4216.1	4203.8
9°	4325.1	4331.2	4338.3	4350.6	4353.4	4346.3	4285.9	4236.4	4204.7	4197.2	4183.0
9.5°	4312.8	4319.9	4330.3	4342.5	4344.4	4336.9	4271.3	4220.8	4184.9	4177.4	4162.7
10°	4299.1	4308.6	4321.3	4334.0	4335.0	4325.6	4255.7	4203.8	4165.1	4156.6	4142.5
10.5°	4284.0	4295.4	4312.3	4324.1	4322.7	4312.8	4240.1	4185.9	4144.8	4136.3	4121.2
11°	4266.6	4280.7	4301.5	4313.8	4309.0	4298.2	4223.6	4167.9	4124.5	4115.6	4100.5
11.5°	4249.6	4264.7	4291.1	4302.9	4294.4	4281.7	4205.2	4150.9	4104.7	4094.8	4080.2
12°	4230.2	4248.6	4278.4	4291.1	4277.9	4263.7	4186.8	4132.5	4084.9	4073.6	4060.8
12.5°	4210.4	4231.2	4266.1	4277.9	4261.4	4244.4	4167.0	4113.2	4064.1	4050.9	4041.0
13°	4189.6	4213.2	4251.5	4264.7	4243.4	4225.0	4149.1	4093.4	4043.8	4028.7	4021.6
13.5°	4169.3	4193.9	4237.3	4251.0	4224.6	4204.7	4128.3	4073.1	4022.6	4004.7	4000.9
14°	4146.7	4174.5	4221.3	4236.4	4205.2	4183.0	4109.4	4051.8	4001.3	3980.1	3980.1
14.5°	4125.5	4155.7	4203.8	4220.8	4184.9	4160.9	4088.2	4028.7	3979.6	3954.2	3957.9
15°	4102.3	4134.9	4184.9	4205.2	4165.1	4138.2	4067.9	4005.6	3956.5	3928.7	3935.3
15.5°	4079.7	4114.1	4166.0	4187.3	4144.3	4116.0	4046.2	3982.0	3933.4	3901.3	3911.2
16°	4056.6	4093.4	4146.2	4169.3	4122.6	4093.8	4025.9	3955.6	3908.9	3873.5	3885.7
16.5°	4033.0	4072.1	4125.5	4150.0	4101.4	4071.2	4003.2	3929.1	3882.4	3845.6	3856.9
17°	4008.0	4050.4	4105.2	4131.1	4078.7	4048.1	3980.6	3903.2	3854.6	3815.4	3826.7
17.5°	3984.4	4028.7	4084.4	4110.4	4055.6	4024.9	3957.9	3874.9	3825.3	3783.3	3794.2
18°	3958.4	4007.0	4063.6	4090.5	4032.0	4000.9	3932.9	3847.0	3796.1	3753.1	3759.3
18.5°	3932.4	3985.3	4042.9	4069.8	4008.9	3977.3	3908.4	3816.8	3763.5	3720.6	3722.0
19°	3904.6	3962.7	4022.1	4048.5	3984.4	3953.7	3881.5	3787.6	3730.9	3688.0	3683.8
19.5°	3876.3	3939.1	4000.9	4026.4	3960.3	3928.2	3852.2	3757.4	3696.5	3653.1	3644.6
20°	3848.0	3915.0	3978.7	4002.3	3934.8	3902.7	3822.5	3725.3	3661.1	3619.6	3604.0
20.5°	3818.2	3889.5	3957.0	3978.2	3907.4	3874.4	3790.9	3691.8	3625.2	3584.2	3561.5
21°	3789.0	3863.1	3933.9	3953.2	3880.5	3845.6	3758.3	3659.2	3589.4	3547.8	3519.1



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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°	3694.1	3776.2	3857.9	3870.2	3795.6	3753.1	3651.7	3555.9	3478.5	3438.4	3391.2
23°	3662.0	3744.2	3828.6	3838.5	3764.4	3719.1	3613.9	3519.5	3441.7	3401.5	3345.9
23.5°	3627.6	3711.1	3798.9	3806.9	3734.2	3685.6	3574.3	3483.7	3404.9	3360.5	3299.6
24°	3592.7	3676.7	3764.9	3772.5	3702.6	3649.8	3534.6	3447.8	3365.2	3319.4	3253.4
24.5°	3556.3	3641.8	3729.5	3735.7	3669.6	3613.4	3495.0	3411.9	3325.1	3277.9	3206.6
25°	3520.0	3604.9	3692.2	3698.9	3636.1	3576.6	3454.9	3372.8	3285.0	3235.0	3160.4
25.5°	3481.8	3565.3	3652.6	3659.7	3601.2	3537.5	3415.2	3332.6	3243.0	3191.5	3113.2
26°	3441.2	3525.2	3610.1	3618.6	3562.5	3498.3	3376.1	3290.6	3200.5	3148.6	3066.0
26.5°	3400.1	3484.6	3566.7	3576.2	3523.8	3459.1	3321.3	3247.2	3157.1	3102.8	3018.8
27°	3357.7	3441.2	3520.5	3531.8	3485.1	3420.4	3276.5	3203.8	3111.8	3057.1	2970.7
27.5°	3313.3	3394.5	3472.8	3486.5	3446.4	3379.4	3227.9	3158.0	3066.5	3009.4	2920.2
28°	3265.6	3347.3	3420.9	3438.4	3407.2	3333.1	3180.7	3110.4	3020.2	2959.4	2869.7
28.5°	3219.4	3297.7	3369.5	3389.3	3361.0	3289.2	3130.7	3060.8	2970.7	2907.0	2816.4
29°	3169.4	3246.3	3314.7	3337.4	3312.8	3240.2	3080.6	3010.8	2919.7	2854.1	2764.5
29.5°	3117.9	3196.3	3260.4	3285.0	3262.3	3192.5	3028.3	2958.4	2865.9	2800.3	2708.8
30°	3066.0	3140.6	3203.3	3231.2	3210.9	3142.5	2976.8	2905.6	2812.6	2745.1	2653.1
30.5°	3013.2	3087.7	3147.2	3177.9	3158.0	3092.0	2923.0	2850.4	2756.0	2688.5	2596.9
31°	2957.9	3032.5	3088.2	3119.8	3104.7	3038.6	2868.3	2793.7	2698.4	2630.9	2541.7
31.5°	2900.4	2975.9	3029.2	3063.2	3049.0	2986.3	2813.1	2737.1	2639.4	2572.4	2485.1
32°	2844.7	2917.4	2969.3	3003.3	2992.4	2931.5	2758.3	2679.5	2578.1	2513.4	2428.9
32.5°	2787.1	2858.8	2909.8	2943.8	2935.3	2877.3	2701.2	2620.1	2515.8	2451.1	2371.4
33°	2728.6	2799.9	2847.5	2883.4	2876.8	2818.3	2644.6	2559.7	2453.0	2388.4	2314.7
33.5°	2667.3	2739.9	2789.5	2823.5	2818.3	2760.7	2587.0	2498.8	2389.3	2326.1	2258.1
34°	2607.3	2677.6	2727.7	2761.6	2756.0	2701.2	2529.9	2436.5	2324.6	2261.4	2200.1
34.5°	2543.1	2615.8	2667.3	2701.2	2694.6	2640.8	2470.9	2375.1	2258.6	2198.6	2140.6
35°	2477.5	2550.7	2605.9	2639.4	2632.3	2577.6	2412.9	2311.9	2194.9	2134.9	2079.7
35.5°	2411.5	2486.5	2545.0	2578.1	2569.1	2515.8	2353.9	2249.1	2131.2	2070.3	2018.8
36°	2345.9	2421.9	2484.1	2516.7	2504.9	2451.1	2292.6	2185.4	2068.4	2007.5	1956.6
36.5°	2277.5	2355.8	2420.9	2454.4	2437.4	2386.5	2228.8	2122.2	2005.2	1943.3	1892.8
37°	2208.6	2291.6	2360.5	2391.2	2369.9	2321.8	2166.1	2059.4	1942.4	1880.1	1827.2
37.5°	2137.8	2223.7	2299.2	2327.0	2301.5	2255.3	2101.0	1996.2	1880.1	1816.9	1763.1
38°	2067.4	2156.6	2235.5	2262.8	2232.6	2186.8	2036.3	1931.5	1818.3	1751.7	1697.5
38.5°	1996.7	2089.2	2170.8	2196.3	2162.3	2118.4	1970.2	1867.8	1756.0	1688.5	1633.3
39°	1925.4	2021.7	2105.7	2132.1	2092.5	2050.0	1902.3	1803.7	1690.9	1624.3	1567.7
39.5°	1858.4	1954.2	2041.0	2065.6	2021.2	1980.1	1835.7	1739.5	1625.7	1560.6	1500.2
40°	1790.9	1883.9	1974.0	2000.4	1950.9	1908.9	1768.3	1674.3	1560.1	1495.5	1436.0
40.5°	1724.8	1815.0	1907.9	1933.0	1882.9	1839.5	1699.8	1610.2	1494.5	1432.3	1369.5
41°	1659.2	1746.5	1840.5	1865.5	1814.0	1769.7	1629.5	1546.0	1429.9	1369.5	1304.4
41.5°	1593.6	1670.1	1773.9	1797.0	1747.5	1700.3	1559.7	1481.3	1365.2	1306.3	1239.7
42°	1528.5	1608.8	1708.8	1729.6	1680.5	1632.3	1490.3	1416.2	1304.4	1244.9	1177.0
42.5°	1462.9	1547.4	1641.8	1662.1	1617.2	1564.4	1423.3	1352.5	1246.3	1184.0	1118.4
43°	1397.3	1486.1	1574.8	1595.5	1552.6	1498.8	1354.9	1284.5	1187.3	1123.6	1058.5
43.5°	1332.2	1424.7	1507.8	1553.5	1486.5	1432.7	1287.8	1220.4	1129.8	1065.1	1002.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1142.5	1234.5	1308.1	1337.4	1293.0	1236.4	1099.6	1032.5	954.7	897.6	840.5
45.5°	1081.2	1171.3	1241.1	1265.7	1227.9	1173.2	1038.7	970.3	898.5	841.9	790.9
46°	1023.1	1109.0	1174.1	1202.0	1165.6	1110.4	977.8	910.8	842.8	789.5	741.4
46.5°	963.6	1047.6	1109.5	1139.2	1106.6	1049.5	919.8	852.7	788.1	739.0	694.7
47°	904.7	988.7	1045.8	1076.0	1045.3	990.1	861.2	794.7	734.3	689.5	648.9
47.5°	846.6	928.7	983.9	1013.7	986.3	933.4	805.6	741.4	685.2	641.3	606.9
48°	792.3	870.2	922.6	952.3	929.2	877.3	751.8	686.2	633.8	595.1	564.4
48.5°	737.6	812.2	862.2	892.4	871.6	823.0	699.8	635.7	584.2	551.2	525.2
49°	686.6	757.4	804.6	834.3	813.6	770.6	648.9	586.1	535.6	509.2	486.5
49.5°	635.7	702.2	747.5	775.8	756.9	719.7	602.2	540.8	490.8	469.1	453.0
50°	588.0	647.9	694.2	721.1	703.6	669.6	555.0	496.5	450.7	433.7	419.5
50.5°	539.4	595.6	641.8	666.8	650.3	620.6	512.0	459.6	411.0	398.3	386.0
51°	495.0	544.6	590.4	614.4	600.3	573.8	471.0	423.3	371.4	363.4	352.5
51.5°	451.1	495.0	541.3	563.5	551.2	528.1	434.6	386.5	331.8	328.0	319.0
52°	408.2	449.3	494.1	514.4	504.0	484.2	398.3	349.7	299.7	296.4	289.3
52.5°	366.7	405.8	448.8	469.6	462.5	444.1	362.0	312.9	270.9	267.6	261.4
53°	328.5	365.3	405.8	424.7	421.4	404.0	325.6	282.7	245.4	240.7	234.5
53.5°	291.6	326.1	363.4	381.3	379.9	364.3	294.5	255.8	222.7	215.7	209.1
54°	256.7	290.7	325.1	341.2	338.8	324.2	264.3	229.8	200.1	191.6	183.6
54.5°	225.6	256.2	287.4	304.4	297.8	290.2	236.9	205.8	179.8	169.9	160.5
55°	197.3	225.1	253.4	269.5	263.8	258.1	209.5	183.1	160.0	148.7	137.8
55.5°	170.8	196.3	221.3	236.4	231.7	227.0	184.0	161.4	140.6	127.9	117.0
56°	149.6	168.5	190.7	205.3	202.5	199.1	160.5	140.6	122.2	109.0	97.2
56.5°	128.8	147.2	162.3	177.9	175.1	172.7	137.3	121.3	104.3	91.1	79.8
57°	107.6	126.0	141.1	156.2	149.6	148.2	116.1	102.4	87.3	75.0	65.6
57.5°	86.8	104.8	119.9	134.5	126.5	125.1	96.3	84.9	72.2	59.5	51.0
58°	65.6	83.5	98.6	113.3	104.8	103.8	79.3	69.8	56.6	43.9	36.3
58.5°	46.7	62.3	77.4	91.6	86.4	85.4	64.7	54.7	41.5	27.8	22.2
59°	28.8	43.9	58.5	70.3	70.8	69.8	50.0	39.6	26.4	12.3	7.6
59.5°	15.6	26.9	39.6	51.0	55.2	54.7	35.9	24.5	11.3	6.6	5.2
60°	12.3	14.2	23.6	32.6	39.6	39.2	21.2	9.4	5.7	4.7	4.2
60.5°	9.4	11.3	12.3	18.4	24.1	24.1	6.6	5.2	4.2	3.8	3.8
61°	6.1	9.0	9.9	14.6	9.0	8.5	4.2	3.8	3.8	3.3	3.3
61.5°	3.3	6.1	7.6	10.9	5.2	4.7	3.3	3.3	3.3	2.8	2.8
62°	2.8	3.8	5.7	7.6	3.8	3.8	2.8	2.8	2.8	2.8	2.4
62.5°	2.4	3.3	3.8	3.8	3.3	3.3	2.4	2.4	2.4	2.4	2.4
63°	2.4	2.8	3.3	3.3	2.8	2.8	2.4	2.4	1.9	1.9	1.9
63.5°	1.9	2.4	2.8	2.8	2.4	2.4	1.9	1.9	1.9	1.9	1.9
64°	1.4	1.9	2.4	2.4	2.4	1.9	1.9	1.9	1.9	1.9	1.4
64.5°	1.4	1.9	1.9	2.4	1.9	1.9	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.9	1.9	1.9	1.9	1.4	1.4	1.4	1.4	1.4
65.5°	0.9	1.4	1.4	1.9	1.4	1.4	1.4	1.4	1.4	1.4	0.9
66°	0.9	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P776697

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
68°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
68.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5
69°	0.5	0.5	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.9	0.9	0.9	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: P776697
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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: P776697

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1
0.5°	4398.2	4395.9	4397.3	4401.1	4402.5	4402.5
1°	4395.4	4392.6	4392.6	4398.2	4400.1	4400.6
1.5°	4391.6	4387.4	4386.9	4394.5	4396.3	4397.8
2°	4386.0	4380.8	4379.4	4388.8	4392.6	4395.4
2.5°	4379.4	4372.7	4370.9	4382.2	4387.8	4392.6
3°	4370.4	4363.3	4360.9	4374.6	4382.7	4388.8
3.5°	4360.5	4352.0	4350.1	4365.7	4377.0	4385.5
4°	4348.7	4339.2	4337.8	4357.2	4371.3	4382.7
4.5°	4335.0	4325.1	4324.6	4347.3	4365.2	4378.9
5°	4319.9	4309.5	4309.5	4336.9	4358.6	4375.6
5.5°	4302.4	4293.5	4294.4	4325.6	4352.0	4372.7
6°	4285.9	4276.0	4278.4	4313.8	4344.4	4368.0
6.5°	4267.0	4257.6	4261.8	4301.5	4335.5	4363.8
7°	4248.6	4238.7	4244.4	4288.7	4327.4	4358.1
7.5°	4229.3	4220.3	4226.9	4274.1	4317.1	4351.5
8°	4208.5	4200.0	4209.0	4260.4	4307.6	4344.4
8.5°	4188.2	4180.7	4190.6	4245.3	4294.9	4335.9
9°	4168.4	4160.4	4171.2	4229.8	4282.1	4325.1
9.5°	4148.1	4140.1	4151.4	4213.2	4268.0	4312.8
10°	4127.3	4119.8	4133.0	4197.2	4252.9	4299.1
10.5°	4106.1	4099.5	4114.1	4179.3	4236.8	4284.0
11°	4086.3	4079.2	4094.8	4162.3	4219.4	4266.6
11.5°	4064.1	4058.4	4074.5	4144.3	4201.4	4249.6
12°	4043.3	4036.7	4054.2	4125.0	4183.0	4230.2
12.5°	4021.2	4016.0	4033.9	4105.2	4163.7	4210.4
13°	3999.0	3993.8	4013.1	4084.9	4145.3	4189.6
13.5°	3974.4	3971.6	3991.0	4063.6	4125.5	4169.3
14°	3950.9	3948.0	3968.8	4041.9	4105.6	4146.7
14.5°	3925.8	3925.4	3945.7	4018.3	4086.3	4125.5
15°	3900.8	3900.8	3921.6	3995.2	4066.0	4102.3
15.5°	3873.9	3875.3	3897.5	3970.2	4044.3	4079.7
16°	3846.6	3848.9	3871.6	3946.6	4023.1	4056.6
16.5°	3817.8	3821.5	3844.2	3921.6	4000.9	4033.0
17°	3788.5	3792.3	3815.9	3895.6	3978.2	4008.0
17.5°	3756.0	3761.1	3785.7	3869.2	3954.2	3984.4
18°	3724.8	3729.1	3754.5	3842.3	3928.2	3958.4
18.5°	3690.4	3695.5	3722.0	3814.9	3900.4	3932.4
19°	3655.4	3661.6	3688.5	3785.7	3871.1	3904.6
19.5°	3619.6	3625.7	3654.5	3756.0	3840.9	3876.3
20°	3582.8	3589.4	3619.6	3725.3	3808.8	3848.0
20.5°	3544.1	3552.6	3583.2	3692.2	3776.2	3818.2
21°	3504.4	3515.3	3546.4	3659.7	3741.3	3789.0



TEST NUMBER: P776697

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3386.9	3399.7	3434.6	3548.8	3628.5	3694.1
23°	3345.4	3361.4	3397.3	3510.1	3587.5	3662.0
23.5°	3301.0	3321.8	3357.7	3470.4	3546.0	3627.6
24°	3257.1	3281.7	3318.5	3428.4	3505.4	3592.7
24.5°	3212.3	3239.2	3276.5	3387.9	3462.9	3556.3
25°	3168.0	3197.7	3235.9	3344.0	3419.0	3520.0
25.5°	3121.2	3154.7	3192.0	3300.1	3374.2	3481.8
26°	3073.6	3109.9	3149.5	3254.8	3329.3	3441.2
26.5°	3025.0	3063.7	3104.2	3210.0	3283.6	3400.1
27°	2975.4	3016.0	3056.6	3162.3	3237.3	3357.7
27.5°	2924.0	2966.4	3007.0	3113.2	3190.6	3313.3
28°	2872.1	2915.5	2956.1	3061.8	3140.1	3265.6
28.5°	2818.3	2861.7	2904.2	3010.8	3091.0	3219.4
29°	2764.0	2807.9	2849.9	2957.5	3039.6	3169.4
29.5°	2707.8	2750.8	2792.8	2906.0	2988.2	3117.9
30°	2651.2	2693.2	2736.2	2849.9	2933.9	3066.0
30.5°	2594.6	2632.8	2677.6	2795.6	2881.0	3013.2
31°	2536.5	2572.9	2617.2	2738.5	2826.3	2957.9
31.5°	2477.5	2510.1	2553.0	2681.9	2771.1	2900.4
32°	2418.6	2446.4	2490.3	2626.7	2713.5	2844.7
32.5°	2359.6	2381.3	2427.5	2567.7	2657.3	2787.1
33°	2297.7	2318.0	2363.3	2510.1	2598.4	2728.6
33.5°	2237.3	2252.9	2298.2	2449.7	2541.7	2667.3
34°	2174.1	2188.7	2235.0	2389.8	2483.2	2607.3
34.5°	2113.2	2121.2	2169.9	2328.9	2423.3	2543.1
35°	2051.9	2057.1	2106.1	2265.7	2360.5	2477.5
35.5°	1989.1	1992.9	2043.4	2203.8	2299.2	2411.5
36°	1926.8	1930.1	1979.2	2140.6	2235.0	2345.9
36.5°	1861.7	1868.8	1917.4	2077.4	2170.8	2277.5
37°	1797.0	1805.1	1854.6	2010.8	2103.8	2208.6
37.5°	1732.4	1742.8	1791.4	1944.8	2036.8	2137.8
38°	1667.3	1674.3	1727.7	1878.7	1969.3	2067.4
38.5°	1602.6	1612.5	1663.5	1810.3	1900.9	1996.7
39°	1536.5	1550.7	1598.8	1745.1	1831.5	1925.4
39.5°	1472.4	1488.9	1534.2	1672.0	1762.1	1858.4
40°	1409.1	1427.5	1469.5	1607.8	1688.5	1790.9
40.5°	1346.4	1364.3	1404.9	1543.2	1619.6	1724.8
41°	1284.5	1301.5	1340.2	1479.0	1550.7	1659.2
41.5°	1222.7	1241.6	1276.1	1414.3	1482.3	1593.6
42°	1160.9	1182.1	1214.7	1348.3	1413.4	1528.5
42.5°	1101.4	1123.6	1154.8	1283.1	1345.0	1462.9
43°	1041.5	1065.1	1093.9	1217.5	1279.8	1397.3
43.5°	983.5	1009.4	1034.4	1151.9	1214.7	1332.2



TEST NUMBER: P776697

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	819.2	840.9	858.9	959.4	1029.2	1142.5
45.5°	768.7	787.2	801.3	899.5	971.2	1081.2
46°	718.3	733.4	746.1	841.4	915.0	1023.1
46.5°	672.0	683.3	692.3	784.8	860.8	963.6
47°	626.2	633.3	640.9	731.9	807.0	904.7
47.5°	583.3	584.2	590.4	680.5	752.7	846.6
48°	540.8	537.0	541.8	629.5	702.2	792.3
48.5°	500.2	494.1	496.5	582.8	652.2	737.6
49°	462.5	451.1	453.0	537.5	604.5	686.6
49.5°	428.5	412.5	413.4	496.5	557.3	635.7
50°	395.0	373.3	374.2	455.9	513.4	588.0
50.5°	361.0	339.3	339.3	416.2	469.1	539.4
51°	327.0	306.3	306.7	378.9	428.5	495.0
51.5°	296.8	278.0	277.5	346.4	389.3	451.1
52°	268.0	251.1	251.5	313.8	353.5	408.2
52.5°	241.1	227.0	227.0	283.1	318.5	366.7
53°	215.2	203.4	203.9	253.9	286.0	328.5
53.5°	190.7	182.6	182.6	227.5	254.8	291.6
54°	167.5	162.8	161.9	202.0	226.5	256.7
54.5°	146.3	144.4	143.5	177.9	198.2	225.6
55°	125.1	125.5	124.6	157.1	173.2	197.3
55.5°	105.7	107.1	106.2	136.9	152.0	170.8
56°	87.3	88.7	87.3	116.6	131.2	149.6
56.5°	71.7	72.2	70.8	96.3	110.0	128.8
57°	56.6	54.3	52.9	76.0	89.2	107.6
57.5°	41.1	36.8	34.9	58.0	68.4	86.8
58°	26.0	21.7	19.8	38.7	49.1	65.6
58.5°	10.4	17.5	15.6	23.1	31.6	46.7
59°	5.7	13.7	11.3	11.8	17.9	28.8
59.5°	4.2	10.4	7.6	9.4	14.2	15.6
60°	3.8	6.6	3.3	7.1	10.4	12.3
60.5°	3.3	2.8	2.8	5.2	6.6	9.4
61°	2.8	2.4	2.4	2.8	3.3	6.1
61.5°	2.4	2.4	1.9	2.4	2.8	3.3
62°	1.9	1.9	1.9	2.4	2.4	2.8
62.5°	1.9	1.9	1.4	1.9	1.9	2.4
63°	1.9	1.4	1.4	1.9	1.9	2.4
63.5°	1.4	1.4	1.4	1.4	1.4	1.9
64°	1.4	1.4	1.4	1.4	1.4	1.4
64.5°	1.4	0.9	0.9	1.4	1.4	1.4
65°	0.9	0.9	0.9	0.9	0.9	1.4
65.5°	0.9	0.9	0.9	0.9	0.9	0.9
66°	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P776697

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.9	0.5	0.5	0.5	0.5	0.9
68°	0.5	0.5	0.5	0.5	0.5	0.9
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: P776697

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRC-5000lm-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
1121 Highway 74 South
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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Scaled Data Report





21.5°	3757.8	3835.2	3909.8	3927.3	3852.7	3815.9	3724.8	3625.2	3552.6	3511.0	3476.1
22°	3726.2	3806.4	3884.3	3898.9	3824.4	3785.2	3689.4	3591.7	3515.3	3474.7	3433.6



44°	1266.6	1361.5	1440.7	1481.3	1420.5	1366.7	1225.1	1157.6	1070.8	1008.9	947.6
44.5°	1203.4	1296.8	1373.7	1409.1	1358.6	1302.0	1163.7	1094.8	1014.1	952.3	894.3



66.5°	0.9	0.9	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.9
67°	0.9	0.9	1.4	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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

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21.5°	3465.3	3477.1	3510.1	3624.3	3705.0	3757.8
22°	3426.1	3438.4	3472.8	3586.1	3667.7	3726.2



44°	925.9	951.4	974.5	1086.3	1151.5	1266.6
44.5°	872.1	896.2	916.9	1021.2	1089.6	1203.4



66.5°	0.9	0.9	0.9	0.9	0.9	0.9
67°	0.9	0.9	0.5	0.9	0.9	0.9

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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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Scaled Data Report



(END OF REPORT)