

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P776391

Luminaire Tested: HCDJBL3040CSD-HCD6TRH-4000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776391
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: HCDJBL3040CSD-HCD6TRH-4000lm-3000K
Description: 6 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

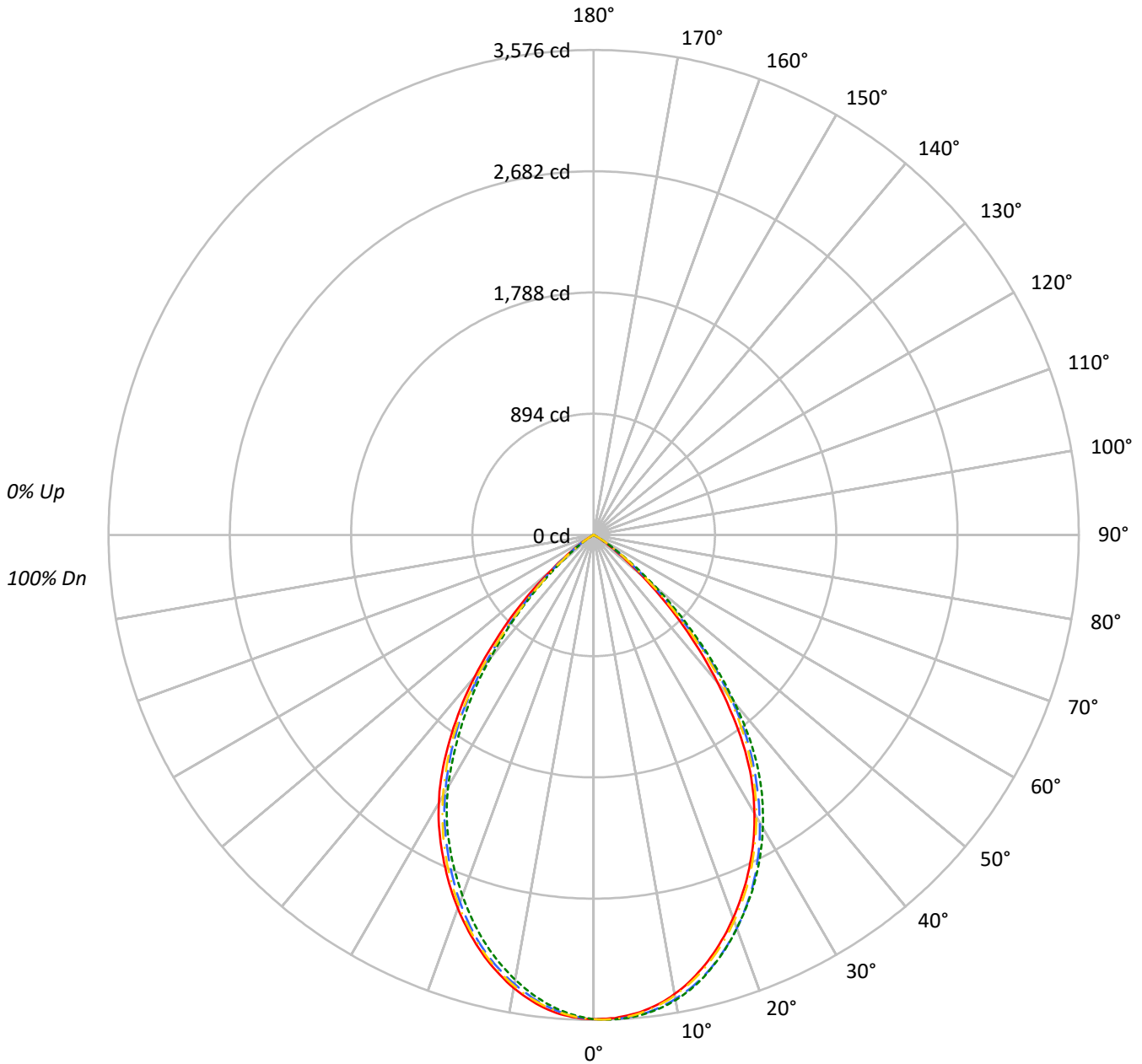
Lumens per Lamp: N/A
Luminaire Lumens: 4490.8 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
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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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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59	59	59	59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50	50	50	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	195757	195757	195757	195757
5°	194887	196070	194007	192042
10°	191368	193895	188819	185440
15°	184649	188401	180937	176409
20°	175394	180096	170850	165028
25°	164054	170211	158797	152241
30°	150029	157834	144535	135932
35°	130279	141542	123808	112598
40°	101555	115702	97604	84580
45°	69635	83985	66968	54370
50°	38353	50770	36681	26703
55°	14661	22298	15856	11374
60°	1930	5712	3815	1502
65°	259	454	350	259
70°	64	128	128	128
75°	85	85	85	85
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 83985 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.4	7.4
10°-20°	903.7	20.1
20°-30°	1222.5	27.2
30°-40°	1173.7	26.1
40°-50°	683.5	15.2
50°-60°	168.2	3.7
60°-70°	5.4	0.1
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°	2459.6	54.8
0°-40°	3633.3	80.9
0°-60°	4485.1	99.9
0°-90°	4490.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4490.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3571	3571	3571	3571	3571	
5°	3542	3563	3526	3490	3542	335
15°	3254	3320	3188	3108	3254	913
25°	2712	2814	2625	2517	2712	1243
35°	1947	2115	1850	1682	1947	1198
45°	898	1083	864	701	898	694
55°	153	233	166	119	153	158
65°	2	4	3	2	2	4
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°	3570.9	3570.9	3570.9	3570.9	3570.9	3570.9	3570.9	3570.9	3570.9	3570.9	3570.9
0.5°	3570.1	3570.5	3573.2	3575.6	3572.0	3573.6	3574.4	3572.8	3569.3	3567.7	3568.1
1°	3569.3	3570.9	3574.8	3577.5	3574.4	3575.2	3575.2	3572.4	3567.7	3564.6	3565.0
1.5°	3568.1	3570.9	3575.2	3578.7	3575.6	3576.3	3574.8	3571.3	3566.2	3561.5	3560.7
2°	3566.2	3570.5	3575.2	3578.7	3576.3	3576.3	3574.4	3569.3	3562.3	3557.6	3555.6
2.5°	3566.2	3568.9	3574.0	3577.9	3575.6	3575.2	3572.4	3566.6	3559.1	3552.5	3549.3
3°	3560.3	3566.6	3572.8	3576.7	3574.8	3574.0	3569.7	3562.3	3553.6	3546.6	3542.3
3.5°	3556.8	3563.8	3570.5	3574.8	3572.8	3570.9	3566.2	3557.9	3548.2	3539.9	3535.6
4°	3552.5	3560.7	3567.3	3572.0	3570.1	3568.1	3562.3	3552.1	3541.9	3532.9	3526.2
4.5°	3547.0	3556.8	3563.4	3568.5	3566.9	3564.2	3556.8	3545.8	3534.9	3523.9	3517.2
5°	3541.5	3551.7	3559.1	3564.6	3563.0	3559.5	3550.9	3538.8	3525.5	3514.5	3507.1
5.5°	3536.4	3545.8	3554.4	3559.5	3558.7	3554.4	3543.9	3530.6	3515.7	3504.3	3495.7
6°	3527.4	3539.2	3548.6	3554.0	3553.6	3548.2	3536.0	3520.8	3505.5	3493.4	3484.0
6.5°	3519.6	3532.5	3541.9	3548.2	3547.4	3541.1	3528.6	3510.2	3494.2	3481.6	3470.7
7°	3510.6	3524.3	3534.1	3541.5	3540.7	3534.1	3518.8	3499.6	3482.4	3468.7	3458.1
7.5°	3500.4	3515.3	3525.9	3533.3	3532.9	3525.9	3509.0	3487.1	3468.7	3454.6	3443.3
8°	3489.5	3505.5	3517.2	3524.3	3524.7	3517.2	3498.5	3474.6	3455.0	3440.1	3428.8
8.5°	3478.1	3494.9	3507.5	3514.9	3515.7	3507.1	3486.7	3461.3	3440.5	3425.3	3412.7
9°	3465.6	3483.2	3497.3	3504.7	3505.5	3496.5	3475.0	3447.2	3424.9	3409.6	3397.5
9.5°	3451.9	3471.5	3485.5	3493.8	3494.9	3485.5	3461.3	3431.9	3409.6	3392.8	3380.3
10°	3437.8	3458.5	3474.2	3482.0	3483.2	3473.0	3447.6	3416.7	3392.0	3376.0	3362.7
10.5°	3422.5	3444.5	3461.3	3469.5	3470.3	3460.1	3433.1	3399.8	3374.8	3358.3	3344.7
11°	3406.9	3430.4	3448.8	3456.2	3457.0	3445.6	3417.8	3383.0	3356.4	3340.0	3326.3
11.5°	3390.4	3415.1	3433.9	3441.7	3442.5	3431.1	3402.2	3365.4	3336.8	3321.2	3307.1
12°	3372.0	3399.1	3419.8	3426.4	3427.2	3415.1	3385.0	3347.0	3317.6	3301.6	3287.1
12.5°	3354.0	3382.2	3403.4	3411.2	3411.2	3398.7	3367.4	3328.2	3297.7	3281.2	3267.2
13°	3335.6	3365.4	3387.7	3395.5	3395.5	3381.8	3350.1	3309.0	3277.3	3260.5	3246.4
13.5°	3315.7	3346.6	3370.5	3377.5	3376.7	3363.0	3330.6	3288.7	3255.4	3239.4	3224.9
14°	3296.1	3328.2	3352.5	3359.9	3358.3	3344.7	3311.4	3267.9	3233.9	3217.1	3202.6
14.5°	3275.0	3308.3	3333.7	3341.5	3338.4	3324.3	3291.4	3246.0	3211.6	3193.6	3179.9
15°	3253.5	3288.7	3314.1	3322.3	3319.6	3304.3	3269.9	3224.1	3188.1	3169.7	3156.4
15.5°	3231.2	3267.6	3294.2	3303.2	3298.5	3283.6	3248.0	3201.4	3164.2	3146.6	3132.1
16°	3208.5	3245.6	3273.4	3281.6	3277.7	3262.1	3226.5	3178.3	3140.4	3122.0	3106.7
16.5°	3185.0	3223.7	3251.5	3260.5	3255.8	3239.4	3203.4	3154.4	3115.7	3096.1	3080.9
17°	3161.1	3201.0	3230.0	3239.0	3232.7	3216.7	3180.3	3130.2	3089.9	3069.5	3054.6
17.5°	3136.1	3177.9	3207.3	3217.1	3210.0	3193.2	3156.0	3104.3	3064.4	3042.9	3026.9
18°	3111.4	3153.7	3184.2	3193.6	3185.8	3169.3	3132.1	3079.3	3037.0	3015.5	2998.7
18.5°	3086.0	3129.0	3159.9	3170.1	3161.5	3145.1	3106.7	3052.7	3010.4	2987.3	2970.9
19°	3059.7	3104.0	3136.4	3146.2	3137.2	3120.4	3080.9	3026.1	2983.4	2959.9	2940.8
19.5°	3033.1	3078.1	3111.0	3121.6	3112.6	3094.6	3054.6	2998.7	2956.8	2930.2	2910.6
20°	3006.5	3052.3	3086.3	3096.5	3087.1	3068.0	3028.8	2972.1	2928.6	2900.8	2880.5
20.5°	2978.7	3024.9	3060.5	3069.5	3060.1	3042.1	3001.4	2943.9	2900.1	2871.1	2850.4
21°	2950.9	2997.5	3034.3	3043.7	3033.9	3015.1	2973.2	2916.1	2871.9	2841.7	2820.2



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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°	2865.2	2912.2	2951.7	2960.7	2955.6	2931.0	2887.9	2832.3	2782.6	2749.4	2722.0
23°	2835.9	2882.4	2922.8	2932.1	2927.8	2901.2	2859.7	2802.2	2750.9	2717.3	2689.1
23.5°	2806.1	2851.9	2893.4	2902.8	2900.1	2871.5	2831.2	2772.1	2720.0	2684.4	2655.1
24°	2775.2	2821.8	2862.5	2872.7	2872.3	2841.7	2800.6	2741.5	2688.3	2651.9	2621.4
24.5°	2743.9	2790.9	2832.0	2842.5	2844.5	2816.7	2768.9	2710.6	2657.8	2619.1	2587.0
25°	2712.2	2759.6	2800.6	2811.6	2814.0	2785.8	2736.9	2679.7	2625.3	2586.2	2553.7
25.5°	2680.5	2726.3	2768.9	2779.5	2783.4	2754.1	2704.8	2647.6	2593.2	2552.5	2519.3
26°	2648.8	2694.6	2736.1	2748.2	2753.3	2723.2	2672.3	2616.3	2561.1	2519.3	2485.2
26.5°	2615.1	2662.1	2702.4	2715.7	2722.8	2690.3	2638.6	2583.8	2528.6	2485.6	2450.4
27°	2582.3	2627.7	2669.1	2682.8	2691.8	2658.6	2605.7	2551.7	2494.6	2451.9	2415.9
27.5°	2547.8	2592.8	2634.3	2649.6	2659.4	2625.3	2572.5	2518.9	2462.1	2417.5	2380.3
28°	2513.8	2558.0	2598.3	2615.1	2626.9	2592.4	2538.8	2485.2	2428.1	2381.1	2343.5
28.5°	2478.9	2522.8	2562.3	2580.7	2594.8	2558.8	2504.8	2451.9	2394.0	2344.3	2305.6
29°	2443.3	2486.8	2525.5	2545.5	2561.9	2525.1	2469.5	2417.1	2358.4	2307.9	2267.6
29.5°	2406.9	2449.2	2487.6	2509.9	2527.5	2491.5	2434.3	2380.7	2321.2	2269.9	2227.3
30°	2370.1	2411.2	2449.6	2473.5	2493.4	2457.0	2398.3	2344.3	2283.3	2231.6	2187.4
30.5°	2332.6	2372.9	2411.2	2435.1	2458.6	2421.4	2361.9	2306.3	2245.7	2191.3	2146.7
31°	2294.2	2333.7	2370.5	2398.3	2424.5	2385.8	2324.3	2268.4	2205.4	2151.0	2105.2
31.5°	2254.7	2293.8	2331.8	2359.6	2387.8	2349.8	2286.4	2229.2	2164.3	2110.3	2063.3
32°	2213.6	2252.3	2290.7	2320.0	2351.4	2313.0	2248.4	2189.3	2122.0	2068.4	2020.3
32.5°	2173.3	2212.8	2250.0	2279.7	2314.6	2275.0	2209.3	2148.6	2079.4	2025.7	1978.0
33°	2131.0	2170.9	2209.7	2240.2	2277.0	2236.7	2169.8	2106.0	2035.5	1981.5	1935.7
33.5°	2087.6	2129.1	2170.1	2199.9	2237.5	2197.9	2129.8	2062.9	1990.5	1937.3	1893.1
34°	2041.8	2086.0	2128.3	2159.2	2198.7	2158.0	2089.1	2019.5	1945.1	1893.4	1849.6
34.5°	1995.2	2043.7	2086.4	2118.1	2156.5	2116.1	2048.8	1974.9	1897.0	1846.5	1805.0
35°	1946.7	1999.5	2043.7	2075.0	2115.0	2074.7	2007.3	1929.1	1850.0	1799.5	1760.8
35.5°	1898.1	1955.3	2003.0	2032.4	2071.1	2032.8	1965.9	1883.7	1803.4	1752.9	1715.4
36°	1846.1	1910.7	1958.4	1989.7	2027.3	1990.1	1923.2	1837.9	1756.5	1705.6	1668.4
36.5°	1794.0	1863.3	1916.5	1947.1	1980.3	1945.9	1879.0	1791.3	1708.7	1657.5	1619.9
37°	1740.4	1815.2	1871.9	1902.1	1932.6	1900.1	1833.6	1745.1	1659.4	1608.9	1569.0
37.5°	1687.2	1765.1	1826.1	1855.9	1883.3	1853.1	1787.8	1697.4	1612.8	1559.6	1519.3
38°	1632.0	1713.8	1778.4	1806.2	1832.4	1803.8	1740.0	1650.0	1563.9	1509.1	1466.9
38.5°	1579.6	1662.5	1730.6	1759.6	1778.8	1754.1	1691.5	1602.3	1515.4	1458.2	1414.8
39°	1524.8	1609.3	1680.2	1708.7	1725.9	1702.9	1641.0	1554.1	1465.7	1407.0	1362.8
39.5°	1471.9	1556.1	1628.9	1657.8	1671.5	1649.6	1589.7	1504.4	1416.4	1355.3	1308.7
40°	1419.1	1499.7	1575.3	1605.0	1616.8	1593.7	1537.3	1453.5	1363.9	1302.1	1254.7
40.5°	1366.7	1444.9	1523.6	1551.0	1562.7	1537.7	1484.9	1402.7	1312.7	1249.6	1199.6
41°	1313.4	1393.3	1470.8	1495.8	1508.7	1480.6	1428.5	1351.4	1260.2	1197.6	1144.8
41.5°	1261.0	1339.7	1416.8	1441.0	1456.7	1424.2	1373.3	1300.9	1207.8	1147.9	1090.7
42°	1208.2	1285.7	1361.2	1408.5	1403.5	1367.4	1317.4	1247.3	1154.9	1095.8	1037.5
42.5°	1155.3	1232.0	1305.6	1349.1	1352.2	1311.1	1262.2	1194.5	1106.0	1045.4	986.3
43°	1101.7	1178.0	1250.0	1288.4	1300.1	1255.5	1207.4	1140.5	1055.5	995.3	936.9
43.5°	1049.3	1126.0	1194.9	1228.1	1244.9	1201.1	1152.6	1088.0	1008.2	945.9	888.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	898.2	969.8	1027.7	1059.8	1083.3	1039.9	989.8	931.1	863.8	801.9	751.0
45.5°	850.4	917.8	972.9	1007.8	1030.1	985.9	936.5	882.1	816.4	756.1	708.0
46°	801.1	867.3	918.5	955.7	978.8	934.2	884.9	831.7	770.2	710.7	666.1
46.5°	752.6	817.2	864.5	904.1	929.1	883.3	832.8	782.7	723.3	668.9	625.8
47°	705.2	767.5	812.9	852.0	879.4	833.6	782.7	733.0	677.9	625.4	586.3
47.5°	659.1	718.6	763.2	801.5	830.1	785.1	733.8	686.1	634.0	585.5	549.1
48°	614.1	671.2	714.3	751.8	781.6	739.3	686.5	638.7	591.8	546.4	513.5
48.5°	571.0	625.4	666.1	703.7	733.8	695.1	641.1	593.7	550.3	510.0	479.8
49°	528.7	580.4	620.7	656.3	686.5	650.8	596.4	549.5	508.8	473.6	447.3
49.5°	488.0	536.6	576.1	610.5	639.5	608.2	555.4	507.6	468.9	439.1	415.2
50°	449.7	493.1	533.0	564.4	595.3	565.5	514.7	467.7	430.1	406.6	385.9
50.5°	411.7	450.9	490.8	520.5	551.8	525.2	476.3	429.7	393.7	378.1	358.9
51°	376.1	411.7	451.6	478.3	509.6	485.7	439.9	394.1	362.0	349.9	331.9
51.5°	340.9	374.5	413.3	438.3	470.0	448.1	405.1	364.0	330.7	321.3	305.3
52°	308.0	339.7	377.3	400.4	431.7	411.3	376.1	333.8	299.0	293.1	278.3
52.5°	276.7	306.1	342.1	363.2	394.5	380.0	346.8	303.3	267.7	265.0	253.2
53°	247.7	275.5	309.6	328.4	361.2	348.3	317.4	273.2	243.0	240.7	230.9
53.5°	220.3	247.3	277.9	295.9	328.0	317.0	288.0	247.7	220.7	218.8	209.0
54°	196.1	221.1	249.3	266.1	294.3	285.3	258.7	224.6	200.8	198.0	189.0
54.5°	173.8	196.5	221.1	238.0	261.4	254.0	234.8	203.5	182.8	178.1	168.7
55°	153.4	174.6	196.1	212.5	233.3	229.7	212.1	184.7	165.9	160.1	150.3
55.5°	133.8	153.0	172.2	188.6	207.8	204.7	190.6	165.9	149.5	142.1	132.3
56°	118.6	133.5	151.1	166.3	184.3	182.8	169.9	149.1	133.8	125.6	115.8
56.5°	102.9	117.8	132.7	145.2	162.8	161.6	150.3	133.1	119.0	110.0	100.2
57°	87.7	102.5	116.6	128.4	142.9	142.1	132.3	117.4	104.5	95.5	86.1
57.5°	72.4	86.9	100.2	111.9	123.7	123.3	115.1	102.5	91.2	82.2	72.8
58°	57.9	71.2	84.1	95.1	106.5	106.1	99.4	88.8	78.3	68.5	58.3
58.5°	43.8	56.0	68.1	78.7	90.8	90.4	84.9	75.5	64.6	58.3	49.7
59°	32.1	42.3	52.8	62.2	75.5	76.3	70.4	61.1	54.8	48.1	40.7
59.5°	23.5	30.9	38.7	46.6	63.8	65.8	59.5	51.7	45.0	37.6	32.1
60°	17.6	22.3	28.2	34.0	52.1	55.2	48.9	42.3	34.8	27.4	23.5
60.5°	12.9	16.8	20.4	24.3	40.3	44.6	38.0	32.9	25.0	17.2	14.5
61°	11.0	14.5	15.3	18.0	28.6	34.0	27.0	23.5	15.7	13.3	11.3
61.5°	9.0	12.1	12.9	13.3	16.8	23.5	16.4	14.1	11.7	10.6	9.0
62°	7.0	9.8	10.6	11.3	12.5	12.9	12.5	10.6	9.0	8.2	7.4
62.5°	5.1	7.4	8.2	9.4	9.8	9.8	9.4	8.6	7.0	6.7	5.9
63°	4.3	5.5	6.3	7.4	7.8	7.8	7.4	6.7	5.9	5.5	5.1
63.5°	3.5	4.3	5.1	5.5	6.3	6.3	5.9	5.5	4.7	4.7	4.3
64°	2.7	3.5	4.3	4.7	5.1	5.1	5.1	4.7	3.9	3.9	3.5
64.5°	2.3	3.1	3.5	3.9	4.3	4.3	3.9	3.9	3.1	3.1	3.1
65°	2.0	2.7	3.1	3.1	3.5	3.5	3.5	3.1	2.7	2.7	2.7
65.5°	2.0	2.3	2.3	2.7	3.1	2.7	2.7	2.7	2.3	2.3	2.3
66°	1.6	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.0	2.0	2.0



TEST NUMBER: P776391

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRH-4000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.2	1.2	1.2
68°	0.8	1.2	1.2	1.2	1.6	1.2	1.6	1.2	1.2	1.2	1.2
68.5°	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
69°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8
69.5°	0.8	0.8	0.8	0.8	1.2	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71.5°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
74.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
76°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
76.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.4
77°	0.0	0.0	0.0	0.4	0.4	0.4	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: P776391
CATALOG NUMBER: HCDJBL3040CSD-HCD6TRH-4000lm-3000K

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: P776391

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRH-4000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3570.9	3570.9	3570.9	3570.9	3570.9	3570.9
0.5°	3569.7	3565.4	3567.7	3569.7	3570.9	3570.1
1°	3565.8	3560.7	3563.4	3566.6	3568.5	3569.3
1.5°	3560.7	3555.2	3558.7	3562.3	3566.6	3568.1
2°	3554.4	3548.6	3552.5	3557.6	3562.3	3566.2
2.5°	3547.8	3541.1	3545.0	3552.1	3558.3	3566.2
3°	3539.9	3532.5	3537.6	3545.0	3554.4	3560.3
3.5°	3531.3	3523.1	3528.6	3538.4	3548.9	3556.8
4°	3522.3	3513.3	3519.2	3530.6	3543.5	3552.5
4.5°	3512.2	3502.0	3509.0	3521.9	3536.4	3547.0
5°	3500.8	3489.8	3497.7	3512.2	3529.0	3541.5
5.5°	3488.7	3477.7	3485.5	3502.0	3520.4	3536.4
6°	3475.8	3464.4	3473.4	3491.4	3511.8	3527.4
6.5°	3462.1	3449.5	3459.7	3479.3	3502.0	3519.6
7°	3448.0	3435.4	3445.6	3466.8	3491.8	3510.6
7.5°	3432.7	3419.4	3430.8	3454.2	3480.5	3500.4
8°	3417.4	3402.6	3415.5	3440.1	3468.3	3489.5
8.5°	3401.0	3385.4	3399.1	3425.3	3454.6	3478.1
9°	3384.6	3368.1	3381.8	3410.0	3440.9	3465.6
9.5°	3366.2	3349.7	3364.6	3393.6	3426.1	3451.9
10°	3348.2	3331.3	3346.2	3377.1	3410.8	3437.8
10.5°	3329.0	3311.0	3327.8	3359.5	3394.7	3422.5
11°	3309.4	3290.6	3308.3	3340.7	3377.9	3406.9
11.5°	3289.5	3270.3	3287.9	3321.6	3360.3	3390.4
12°	3268.3	3248.4	3267.2	3302.0	3341.5	3372.0
12.5°	3247.2	3226.8	3246.0	3281.2	3322.3	3354.0
13°	3224.9	3204.1	3223.7	3260.5	3303.2	3335.6
13.5°	3202.2	3181.1	3200.6	3238.6	3282.4	3315.7
14°	3178.3	3157.6	3177.1	3217.1	3261.7	3296.1
14.5°	3154.1	3133.3	3153.3	3194.4	3239.8	3275.0
15°	3129.0	3108.3	3128.6	3170.9	3218.6	3253.5
15.5°	3104.7	3082.0	3103.2	3146.6	3194.8	3231.2
16°	3078.5	3056.6	3077.7	3122.7	3171.7	3208.5
16.5°	3052.3	3029.2	3051.1	3098.5	3148.2	3185.0
17°	3024.9	3002.6	3024.5	3073.0	3123.9	3161.1
17.5°	2998.3	2974.4	2997.1	3046.0	3097.7	3136.1
18°	2970.9	2945.8	2969.7	3019.4	3071.9	3111.4
18.5°	2942.3	2916.9	2941.9	2992.0	3045.6	3086.0
19°	2914.1	2888.7	2912.6	2963.8	3018.2	3059.7
19.5°	2885.6	2859.4	2884.4	2936.1	2990.9	3033.1
20°	2857.0	2828.8	2855.8	2906.7	2962.7	3006.5
20.5°	2828.8	2799.1	2826.5	2877.0	2933.3	2978.7
21°	2798.3	2768.9	2796.7	2847.2	2904.0	2950.9

TEST NUMBER: P776391

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRH-4000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2704.8	2677.4	2704.8	2752.9	2812.0	2865.2
23°	2672.7	2645.7	2672.7	2720.8	2780.3	2835.9
23.5°	2641.0	2614.4	2642.1	2688.7	2748.2	2806.1
24°	2608.1	2582.3	2609.3	2655.8	2715.3	2775.2
24.5°	2575.2	2550.2	2577.6	2622.2	2683.2	2743.9
25°	2542.3	2516.9	2544.3	2588.5	2650.4	2712.2
25.5°	2508.7	2484.0	2511.4	2554.9	2616.7	2680.5
26°	2475.8	2450.8	2476.6	2519.3	2583.4	2648.8
26.5°	2441.4	2416.3	2441.4	2485.2	2549.4	2615.1
27°	2406.1	2381.1	2405.8	2448.0	2514.9	2582.3
27.5°	2370.1	2345.9	2369.0	2411.6	2479.7	2547.8
28°	2333.4	2307.1	2330.2	2374.4	2443.7	2513.8
28.5°	2295.0	2268.8	2293.4	2336.9	2407.3	2478.9
29°	2256.6	2229.2	2253.9	2298.9	2370.5	2443.3
29.5°	2217.5	2189.3	2213.6	2259.4	2333.0	2406.9
30°	2176.8	2147.4	2172.5	2220.2	2295.4	2370.1
30.5°	2135.3	2102.8	2131.0	2179.9	2255.9	2332.6
31°	2093.0	2058.2	2087.2	2139.6	2216.3	2294.2
31.5°	2050.0	2012.8	2043.3	2099.7	2176.4	2254.7
32°	2006.6	1966.2	1997.6	2056.7	2136.1	2213.6
32.5°	1961.2	1920.1	1952.2	2015.6	2095.0	2173.3
33°	1915.0	1871.9	1905.6	1973.3	2052.0	2131.0
33.5°	1868.0	1824.6	1859.0	1930.6	2009.3	2087.6
34°	1820.7	1777.2	1812.8	1886.4	1965.1	2041.8
34.5°	1772.1	1729.5	1765.5	1839.8	1920.8	1995.2
35°	1724.4	1682.5	1717.3	1793.3	1873.9	1946.7
35.5°	1676.2	1635.1	1671.2	1745.5	1827.3	1898.1
36°	1626.9	1588.6	1624.2	1697.0	1776.8	1846.1
36.5°	1578.0	1541.2	1576.8	1647.3	1725.6	1794.0
37°	1528.3	1493.1	1528.7	1592.5	1672.7	1740.4
37.5°	1478.2	1443.8	1479.8	1541.2	1621.1	1687.2
38°	1427.7	1395.2	1429.3	1486.8	1564.7	1632.0
38.5°	1375.7	1342.0	1376.8	1434.4	1509.1	1579.6
39°	1325.2	1288.8	1324.4	1404.2	1451.6	1524.8
39.5°	1273.5	1235.2	1272.0	1343.2	1386.6	1471.9
40°	1221.5	1181.9	1219.1	1281.7	1332.6	1419.1
40.5°	1169.8	1130.7	1166.7	1220.7	1278.6	1366.7
41°	1118.5	1081.4	1111.9	1159.6	1225.0	1313.4
41.5°	1069.6	1032.4	1059.0	1105.6	1171.0	1261.0
42°	1018.0	985.1	1007.4	1051.2	1116.6	1208.2
42.5°	968.3	936.9	957.7	997.6	1063.4	1155.3
43°	919.3	889.6	908.4	944.4	1009.0	1101.7
43.5°	869.6	841.8	857.9	892.3	956.5	1049.3



TEST NUMBER: P776391

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRH-4000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	731.5	701.3	712.7	741.6	808.2	898.2
45.5°	687.2	657.5	664.9	694.7	762.4	850.4
46°	644.2	614.5	619.5	649.7	717.0	801.1
46.5°	604.3	571.0	574.9	606.2	673.9	752.6
47°	562.8	529.9	532.7	564.0	630.1	705.2
47.5°	524.8	489.6	492.3	524.0	589.4	659.1
48°	488.4	450.9	453.2	485.7	547.9	614.1
48.5°	453.2	412.9	416.8	449.3	508.4	571.0
49°	419.9	378.1	382.0	414.9	469.3	528.7
49.5°	388.2	344.4	349.1	381.6	432.9	488.0
50°	360.1	313.1	319.4	350.7	396.5	449.7
50.5°	332.3	284.9	290.8	320.9	362.8	411.7
51°	304.1	259.5	265.3	293.5	331.1	376.1
51.5°	276.3	236.4	241.5	266.9	301.0	340.9
52°	252.4	215.6	220.0	243.0	272.8	308.0
52.5°	229.3	196.9	199.6	220.3	246.2	276.7
53°	207.4	178.9	181.6	198.4	220.7	247.7
53.5°	187.9	162.4	164.0	177.7	197.3	220.3
54°	169.1	146.8	147.5	158.9	175.7	196.1
54.5°	151.1	132.7	133.5	140.9	155.8	173.8
55°	134.6	119.0	119.4	126.0	135.8	153.4
55.5°	118.2	105.3	105.7	111.1	120.5	133.8
56°	103.3	91.6	91.6	96.3	105.3	118.6
56.5°	89.6	77.9	77.5	81.8	90.0	102.9
57°	76.7	63.8	63.4	66.9	74.8	87.7
57.5°	62.6	49.7	49.7	52.4	60.3	72.4
58°	53.2	38.0	37.6	39.9	46.2	57.9
58.5°	43.8	28.6	27.8	29.4	34.4	43.8
59°	34.4	21.1	20.7	21.9	25.4	32.1
59.5°	25.0	16.0	15.7	16.4	18.8	23.5
60°	15.7	13.7	13.3	14.1	14.1	17.6
60.5°	12.1	11.0	11.0	11.7	12.1	12.9
61°	9.8	8.6	8.2	9.8	9.8	11.0
61.5°	7.8	6.3	5.9	7.4	7.8	9.0
62°	6.3	5.1	5.1	5.1	5.9	7.0
62.5°	5.1	4.3	3.9	4.3	4.7	5.1
63°	4.3	3.5	3.5	3.5	3.9	4.3
63.5°	3.5	3.1	2.7	2.7	3.1	3.5
64°	3.1	2.7	2.3	2.3	2.7	2.7
64.5°	2.7	2.3	2.0	2.0	2.3	2.3
65°	2.3	2.0	1.6	2.0	2.0	2.0
65.5°	2.0	1.6	1.6	1.6	1.6	2.0
66°	1.6	1.6	1.2	1.2	1.6	1.6



TEST NUMBER: P776391

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRH-4000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.2	1.2	0.8	0.8	1.2	1.2
68°	1.2	0.8	0.8	0.8	0.8	0.8
68.5°	0.8	0.8	0.8	0.8	0.8	0.8
69°	0.8	0.8	0.8	0.8	0.8	0.8
69.5°	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.4	0.4
70.5°	0.8	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	0.4	0.4	0.4	0.4
73.5°	0.4	0.4	0.4	0.4	0.4	0.4
74°	0.4	0.4	0.4	0.4	0.4	0.4
74.5°	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.0	0.0	0.4
75.5°	0.4	0.0	0.0	0.0	0.0	0.0
76°	0.4	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: P776391

CATALOG NUMBER: HCDJBL3040CSD-HCD6TRH-4000lm-3000K

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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





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

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21.5°	2922.4	2969.3	3007.7	3016.7	3008.1	2987.7	2945.1	2888.3	2843.7	2812.4	2787.7
22°	2894.2	2941.1	2979.5	2988.9	2981.5	2960.7	2916.5	2860.1	2812.8	2781.1	2755.6



44°	997.2	1073.5	1139.3	1167.1	1190.5	1147.5	1097.0	1034.0	958.1	896.2	841.4
44.5°	947.1	1021.9	1083.3	1113.4	1136.5	1093.9	1044.2	982.3	912.3	849.7	796.8



66.5°	1.2	1.6	2.0	2.0	2.0	2.0	2.0	2.0	1.6	1.6	1.6
67°	1.2	1.6	1.6	1.6	2.0	2.0	2.0	1.6	1.6	1.6	1.6



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°	2767.0	2738.8	2766.2	2815.9	2873.4	2922.4
22°	2736.1	2707.9	2735.7	2785.0	2842.9	2894.2



44°	822.7	793.7	808.6	841.1	906.4	997.2
44.5°	777.3	746.7	760.8	791.0	857.1	947.1

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66.5°	1.6	1.2	1.2	1.2	1.2	1.2
67°	1.2	1.2	1.2	1.2	1.2	1.2

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Scaled Data Report



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

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Scaled Data Report



(END OF REPORT)