

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: P776150

Luminaire Tested: HCDJBS1525CSD-HCD82TRC-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B062-HCD82TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRC-2500lm-2700K
Description: 8 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

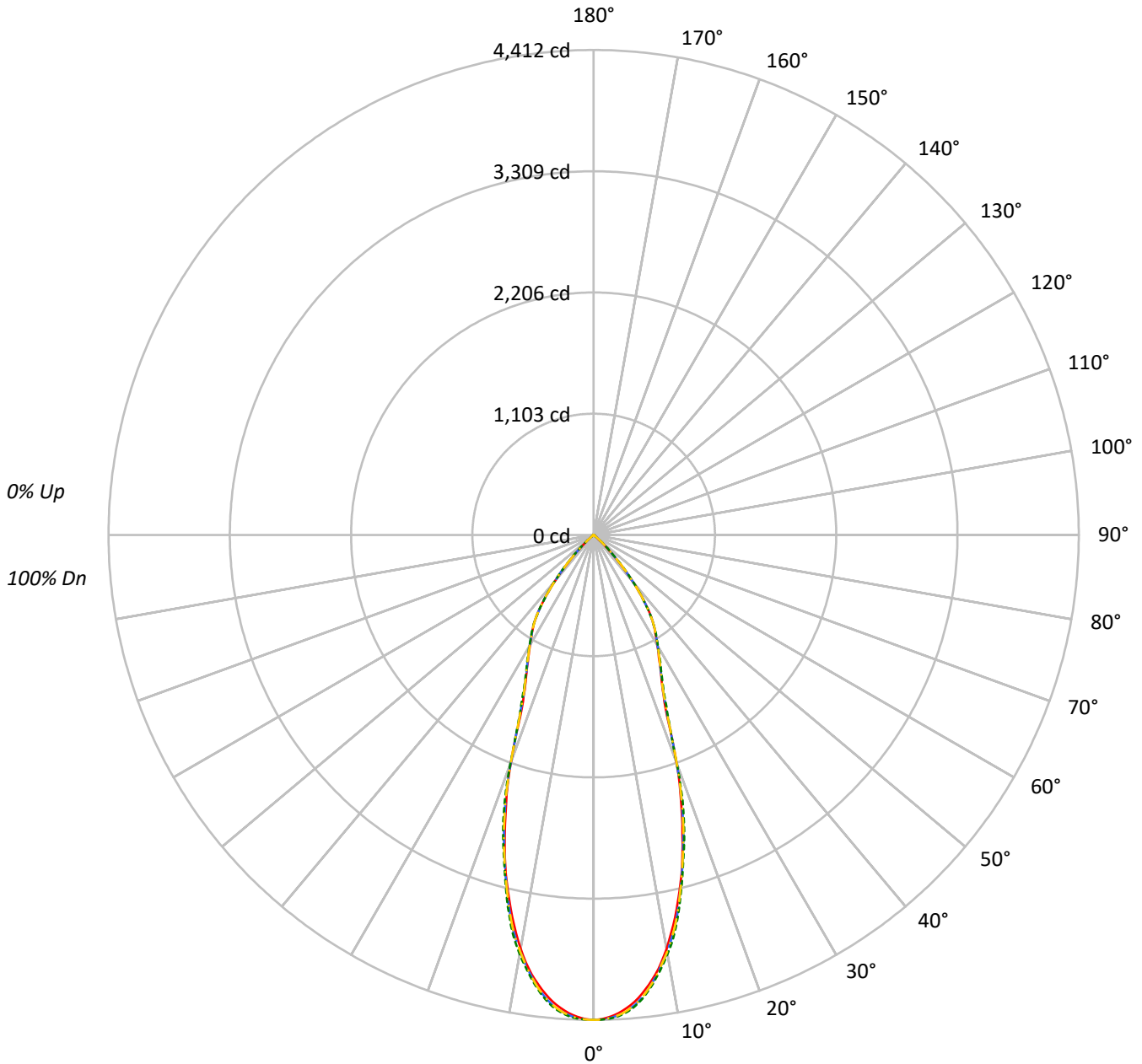
Lumens per Lamp: N/A
Luminaire Lumens: 2694.3 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.66 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776150
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-2700K

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	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82	82	82	82	82	82		
	4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	80	77	74	72	72	72	72	72	72		
	6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68	68	68	68		
	7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57	57	57	57	57	57		
	10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54	54	54	54	54	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	134678	134678	134678	134678
5°	130657	131978	130657	131978
10°	118465	120059	118465	120059
15°	98229	99079	98229	99079
20°	71532	71831	71532	71831
25°	49280	49967	49280	49967
30°	40827	41253	40827	41253
35°	34080	33916	34080	33916
40°	21812	22111	21812	22111
45°	8830	9697	8830	9697
50°	1658	1843	1658	1843
55°	500	490	500	490
60°	324	324	324	324
65°	224	224	224	224
70°	152	170	152	170
75°	118	118	118	118
80°	88	88	88	88
85°	0	70	0	70

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9697 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.4	14.7
10°-20°	852.7	31.6
20°-30°	699.4	26.0
30°-40°	550.5	20.4
40°-50°	181.1	6.7
50°-60°	10.6	0.4
60°-70°	3.3	0.1
70°-80°	1.1	0.0
80°-90°	0.2	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°	1947.5	72.3
0°-40°	2498.0	92.7
0°-60°	2689.7	99.8
0°-90°	2694.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2694.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4411	4411	4411	4411	4411	
5°	4263	4306	4263	4306	4263	393
15°	3108	3135	3108	3135	3108	846
25°	1463	1483	1463	1483	1463	695
35°	914	910	914	910	914	550
45°	204	225	204	225	204	174
55°	9	9	9	9	9	10
65°	3	3	3	3	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	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°	4411.3	4411.3	4411.3	4411.3	4411.3	4411.3	4411.3	4411.3	4411.3	4411.3	4411.3
0.5°	4409.4	4409.8	4412.0	4407.7	4412.5	4407.7	4412.0	4409.8	4409.4	4409.8	4412.0
1°	4404.8	4405.7	4409.1	4405.0	4410.1	4405.0	4409.1	4405.7	4404.8	4405.7	4409.1
1.5°	4396.5	4398.7	4403.8	4400.6	4406.0	4400.6	4403.8	4398.7	4396.5	4398.7	4403.8
2°	4385.6	4388.5	4396.3	4394.1	4401.6	4394.1	4396.3	4388.5	4385.6	4388.5	4396.3
2.5°	4371.6	4376.2	4385.9	4385.4	4393.6	4385.4	4385.9	4376.2	4371.6	4376.2	4385.9
3°	4355.3	4361.4	4373.3	4373.5	4383.0	4373.5	4373.3	4361.4	4355.3	4361.4	4373.3
3.5°	4336.4	4344.4	4357.8	4358.5	4369.1	4358.5	4357.8	4344.4	4336.4	4344.4	4357.8
4°	4315.4	4326.0	4339.3	4340.3	4351.9	4340.3	4339.3	4326.0	4315.4	4326.0	4339.3
4.5°	4290.9	4304.2	4317.3	4319.5	4331.1	4319.5	4317.3	4304.2	4290.9	4304.2	4317.3
5°	4263.3	4280.0	4292.1	4295.2	4306.4	4295.2	4292.1	4280.0	4263.3	4280.0	4292.1
5.5°	4232.5	4252.4	4262.1	4268.1	4277.8	4268.1	4262.1	4252.4	4232.5	4252.4	4262.1
6°	4198.8	4221.1	4228.9	4238.1	4244.1	4238.1	4228.9	4221.1	4198.8	4221.1	4228.9
6.5°	4162.0	4186.0	4191.1	4204.4	4206.6	4204.4	4191.1	4186.0	4162.0	4186.0	4191.1
7°	4123.2	4146.7	4150.1	4168.3	4164.9	4168.3	4150.1	4146.7	4123.2	4146.7	4150.1
7.5°	4082.0	4103.6	4105.1	4128.8	4121.3	4128.8	4105.1	4103.6	4082.0	4103.6	4105.1
8°	4037.9	4057.1	4058.0	4085.9	4074.3	4085.9	4058.0	4057.1	4037.9	4057.1	4058.0
8.5°	3989.7	4005.5	4007.9	4038.9	4026.3	4038.9	4007.9	4005.5	3989.7	4005.5	4007.9
9°	3938.4	3950.5	3956.0	3987.5	3975.4	3987.5	3956.0	3950.5	3938.4	3950.5	3956.0
9.5°	3881.7	3890.4	3903.2	3931.8	3925.3	3931.8	3903.2	3890.4	3881.7	3890.4	3903.2
10°	3821.3	3827.9	3848.0	3870.8	3872.7	3870.8	3848.0	3827.9	3821.3	3827.9	3848.0
10.5°	3757.4	3761.5	3791.0	3806.1	3818.7	3806.1	3791.0	3761.5	3757.4	3761.5	3791.0
11°	3692.2	3693.9	3731.9	3738.5	3759.6	3738.5	3731.9	3693.9	3692.2	3693.9	3731.9
11.5°	3624.1	3625.3	3668.2	3668.7	3694.6	3668.7	3668.2	3625.3	3624.1	3625.3	3668.2
12°	3555.5	3556.5	3598.2	3599.4	3624.8	3599.4	3598.2	3556.5	3555.5	3556.5	3598.2
12.5°	3483.3	3489.2	3522.4	3528.9	3547.1	3528.9	3522.4	3489.2	3483.3	3489.2	3522.4
13°	3412.4	3420.8	3444.1	3457.2	3469.1	3457.2	3444.1	3420.8	3412.4	3420.8	3444.1
13.5°	3338.7	3350.3	3362.4	3381.1	3385.5	3381.1	3362.4	3350.3	3338.7	3350.3	3362.4
14°	3264.6	3276.2	3281.0	3301.6	3301.4	3301.6	3281.0	3276.2	3264.6	3276.2	3281.0
14.5°	3187.5	3196.7	3200.4	3221.2	3218.3	3221.2	3200.4	3196.7	3187.5	3196.7	3200.4
15°	3107.8	3113.6	3119.4	3138.3	3134.7	3138.3	3119.4	3113.6	3107.8	3113.6	3119.4
15.5°	3022.5	3025.9	3038.8	3055.7	3056.4	3055.7	3038.8	3025.9	3022.5	3025.9	3038.8
16°	2935.8	2938.0	2957.3	2972.4	2976.0	2972.4	2957.3	2938.0	2935.8	2938.0	2957.3
16.5°	2844.4	2851.0	2874.0	2889.7	2898.5	2889.7	2874.0	2851.0	2844.4	2851.0	2874.0
17°	2756.0	2763.8	2789.2	2807.9	2819.0	2807.9	2789.2	2763.8	2756.0	2763.8	2789.2
17.5°	2666.6	2677.3	2700.3	2723.1	2734.0	2723.1	2700.3	2677.3	2666.6	2677.3	2700.3
18°	2580.6	2588.3	2609.4	2634.1	2643.6	2634.1	2609.4	2588.3	2580.6	2588.3	2609.4
18.5°	2490.9	2498.2	2514.4	2539.2	2546.4	2539.2	2514.4	2498.2	2490.9	2498.2	2514.4
19°	2399.1	2404.0	2416.6	2435.0	2442.5	2435.0	2416.6	2404.0	2399.1	2404.0	2416.6
19.5°	2303.2	2303.7	2313.1	2327.2	2334.2	2327.2	2313.1	2303.7	2303.2	2303.7	2313.1
20°	2201.7	2201.7	2206.7	2214.5	2210.9	2214.5	2206.7	2201.7	2201.7	2201.7	2206.7
20.5°	2101.8	2098.2	2100.4	2100.1	2089.5	2100.1	2100.4	2098.2	2101.8	2098.2	2100.4
21°	1999.1	1996.7	1987.7	1996.7	1993.3	1996.7	1987.7	1996.7	1999.1	1996.7	1987.7



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CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1711.8	1723.1	1738.6	1757.3	1749.1	1757.3	1738.6	1723.1	1711.8	1723.1	1738.6
23°	1644.6	1652.4	1668.4	1693.8	1694.1	1693.8	1668.4	1652.4	1644.6	1652.4	1668.4
23.5°	1595.2	1594.0	1604.2	1628.6	1631.8	1628.6	1604.2	1594.0	1595.2	1594.0	1604.2
24°	1542.2	1547.5	1553.8	1573.6	1575.1	1573.6	1553.8	1547.5	1542.2	1547.5	1553.8
24.5°	1501.4	1504.1	1509.7	1522.3	1522.3	1522.3	1509.7	1504.1	1501.4	1504.1	1509.7
25°	1462.9	1466.3	1472.1	1483.8	1483.3	1483.8	1472.1	1466.3	1462.9	1466.3	1472.1
25.5°	1427.1	1428.8	1434.8	1445.7	1446.4	1445.7	1434.8	1428.8	1427.1	1428.8	1434.8
26°	1392.4	1393.9	1398.2	1406.5	1407.7	1406.5	1398.2	1393.9	1392.4	1393.9	1398.2
26.5°	1359.7	1360.2	1365.3	1372.8	1373.5	1372.8	1365.3	1360.2	1359.7	1360.2	1365.3
27°	1326.5	1328.0	1333.3	1342.7	1345.2	1342.7	1333.3	1328.0	1326.5	1328.0	1333.3
27.5°	1295.3	1297.2	1302.3	1311.5	1314.9	1311.5	1302.3	1297.2	1295.3	1297.2	1302.3
28°	1265.7	1267.6	1272.5	1279.3	1282.4	1279.3	1272.5	1267.6	1265.7	1267.6	1272.5
28.5°	1238.3	1239.3	1243.9	1249.2	1251.9	1249.2	1243.9	1239.3	1238.3	1239.3	1243.9
29°	1211.2	1211.9	1216.3	1220.9	1223.8	1220.9	1216.3	1211.9	1211.2	1211.9	1216.3
29.5°	1184.3	1185.7	1189.4	1194.5	1196.9	1194.5	1189.4	1185.7	1184.3	1185.7	1189.4
30°	1158.1	1159.6	1163.0	1167.8	1170.2	1167.8	1163.0	1159.6	1158.1	1159.6	1163.0
30.5°	1132.7	1133.9	1137.3	1141.9	1143.6	1141.9	1137.3	1133.9	1132.7	1133.9	1137.3
31°	1107.7	1108.9	1112.1	1116.9	1119.4	1116.9	1112.1	1108.9	1107.7	1108.9	1112.1
31.5°	1083.7	1085.0	1088.3	1092.7	1094.4	1092.7	1088.3	1085.0	1083.7	1085.0	1088.3
32°	1060.7	1061.7	1064.8	1069.2	1070.9	1069.2	1064.8	1061.7	1060.7	1061.7	1064.8
32.5°	1038.7	1039.6	1041.8	1045.9	1047.4	1045.9	1041.8	1039.6	1038.7	1039.6	1041.8
33°	1017.4	1017.8	1019.1	1021.0	1022.4	1021.0	1019.1	1017.8	1017.4	1017.8	1019.1
33.5°	995.3	995.3	994.8	993.9	996.0	993.9	994.8	995.3	995.3	995.3	994.8
34°	970.4	969.4	968.9	965.8	970.6	965.8	968.9	969.4	970.4	969.4	968.9
34.5°	943.5	941.3	941.0	936.9	940.6	936.9	941.0	941.3	943.5	941.3	941.0
35°	914.4	911.5	911.5	907.6	910.0	907.6	911.5	911.5	914.4	911.5	911.5
35.5°	882.6	881.4	880.0	876.6	878.0	876.6	880.0	881.4	882.6	881.4	880.0
36°	849.7	849.2	846.5	844.6	844.9	844.6	846.5	849.2	849.7	849.2	846.5
36.5°	814.8	815.8	811.9	810.7	809.2	810.7	811.9	815.8	814.8	815.8	811.9
37°	777.3	780.2	776.8	776.0	774.1	776.0	776.8	780.2	777.3	780.2	776.8
37.5°	739.9	742.1	741.2	739.9	739.2	739.9	741.2	742.1	739.9	742.1	741.2
38°	702.6	704.3	703.1	704.1	703.4	704.1	703.1	704.3	702.6	704.3	703.1
38.5°	665.3	664.3	664.8	665.1	667.0	665.1	664.8	664.3	665.3	664.3	664.8
39°	627.3	625.1	626.3	626.3	630.2	626.3	626.3	625.1	627.3	625.1	626.3
39.5°	587.3	586.1	587.8	589.2	592.1	589.2	587.8	586.1	587.3	586.1	587.8
40°	547.3	548.3	550.5	552.7	554.8	552.7	550.5	548.3	547.3	548.3	550.5
40.5°	507.6	510.0	512.2	517.5	517.3	517.5	512.2	510.0	507.6	510.0	512.2
41°	469.1	471.7	474.9	481.2	480.2	481.2	474.9	471.7	469.1	471.7	474.9
41.5°	430.3	433.7	437.8	445.3	443.6	445.3	437.8	433.7	430.3	433.7	437.8
42°	393.5	396.9	402.4	409.9	408.7	409.9	402.4	396.9	393.5	396.9	402.4
42.5°	357.9	361.0	368.3	376.0	375.3	376.0	368.3	361.0	357.9	361.0	368.3
43°	323.5	327.6	335.1	343.8	343.1	343.8	335.1	327.6	323.5	327.6	335.1
43.5°	292.7	294.9	302.4	310.9	311.6	310.9	302.4	294.9	292.7	294.9	302.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	204.5	205.5	213.7	221.4	224.6	221.4	213.7	205.5	204.5	205.5	213.7
45.5°	176.4	178.6	187.8	194.6	198.7	194.6	187.8	178.6	176.4	178.6	187.8
46°	151.7	153.4	163.3	171.1	175.4	171.1	163.3	153.4	151.7	153.4	163.3
46.5°	129.4	132.3	140.0	149.7	154.8	149.7	140.0	132.3	129.4	132.3	140.0
47°	109.0	112.4	118.5	129.4	134.2	129.4	118.5	112.4	109.0	112.4	118.5
47.5°	91.6	95.0	100.5	110.0	113.6	110.0	100.5	95.0	91.6	95.0	100.5
48°	75.8	80.0	83.8	92.3	93.0	92.3	83.8	80.0	75.8	80.0	83.8
48.5°	62.5	66.1	69.3	76.6	75.4	76.6	69.3	66.1	62.5	66.1	69.3
49°	51.8	54.0	56.2	63.0	61.1	63.0	56.2	54.0	51.8	54.0	56.2
49.5°	43.4	44.1	46.5	50.6	48.5	50.6	46.5	44.1	43.4	44.1	46.5
50°	34.9	34.6	37.3	41.2	38.8	41.2	37.3	34.6	34.9	34.6	37.3
50.5°	26.4	27.4	28.8	32.7	30.5	32.7	28.8	27.4	26.4	27.4	28.8
51°	20.4	20.8	23.5	26.2	24.2	26.2	23.5	20.8	20.4	20.8	23.5
51.5°	15.3	17.2	18.7	21.8	21.6	21.8	18.7	17.2	15.3	17.2	18.7
52°	13.3	14.3	15.7	17.2	18.9	17.2	15.7	14.3	13.3	14.3	15.7
52.5°	12.1	12.4	13.6	14.5	16.0	14.5	13.6	12.4	12.1	12.4	13.6
53°	11.4	11.6	11.6	12.6	13.3	12.6	11.6	11.6	11.4	11.6	11.6
53.5°	10.9	10.9	11.1	10.9	10.7	10.9	11.1	10.9	10.9	10.9	11.1
54°	10.4	10.4	10.4	10.4	10.2	10.4	10.4	10.4	10.4	10.4	10.4
54.5°	9.9	9.9	9.9	9.9	9.7	9.9	9.9	9.9	9.9	9.9	9.9
55°	9.4	9.4	9.4	9.4	9.2	9.4	9.4	9.4	9.4	9.4	9.4
55.5°	9.0	9.0	9.0	9.0	8.7	9.0	9.0	9.0	9.0	9.0	9.0
56°	8.5	8.5	8.5	8.5	8.2	8.5	8.5	8.5	8.5	8.5	8.5
56.5°	8.0	8.0	8.2	8.0	7.8	8.0	8.2	8.0	8.0	8.0	8.2
57°	7.5	7.5	7.8	7.5	7.5	7.5	7.8	7.5	7.5	7.5	7.8
57.5°	7.0	7.3	7.3	7.0	7.0	7.0	7.3	7.3	7.0	7.3	7.3
58°	6.8	6.8	6.8	6.8	6.5	6.8	6.8	6.8	6.8	6.8	6.8
58.5°	6.3	6.5	6.5	6.3	6.3	6.3	6.5	6.5	6.3	6.5	6.5
59°	6.1	6.1	6.1	6.1	5.8	6.1	6.1	6.1	6.1	6.1	6.1
59.5°	5.6	5.8	5.8	5.8	5.6	5.8	5.8	5.8	5.6	5.8	5.8
60°	5.3	5.3	5.6	5.3	5.3	5.3	5.6	5.3	5.3	5.3	5.6
60.5°	5.1	5.1	5.3	5.1	5.1	5.1	5.3	5.1	5.1	5.1	5.3
61°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
61.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
62°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
62.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
63°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
63.5°	3.6	3.6	3.9	3.6	3.6	3.6	3.9	3.6	3.6	3.6	3.9
64°	3.4	3.4	3.6	3.6	3.4	3.6	3.6	3.4	3.4	3.4	3.6
64.5°	3.1	3.4	3.4	3.4	3.1	3.4	3.4	3.4	3.1	3.4	3.4
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
65.5°	2.9	2.9	3.1	2.9	2.9	2.9	3.1	2.9	2.9	2.9	3.1
66°	2.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.7	2.9	2.9



TEST NUMBER: P776150
 CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
68°	2.2	2.2	2.4	2.4	2.2	2.4	2.4	2.2	2.2	2.2	2.4
68.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
69°	1.9	1.9	2.2	2.2	1.9	2.2	2.2	1.9	1.9	1.9	2.2
69.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.7	1.7	1.7	1.9
70.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
71°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
71.5°	1.5	1.5	1.7	1.7	1.5	1.7	1.7	1.5	1.5	1.5	1.7
72°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
73°	1.2	1.2	1.2	1.5	1.2	1.5	1.2	1.2	1.2	1.2	1.2
73.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
74°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
74.5°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.2
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7
77°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
78°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
78.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
79°	0.5	0.5	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.5	0.5
79.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
82°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
85.5°	0.0	0.0	0.0	0.2	0.2	0.2	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: P776150
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-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: P776150

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4411.3	4411.3	4411.3	4411.3	4411.3	4411.3
0.5°	4407.7	4412.5	4407.7	4412.0	4409.8	4409.4
1°	4405.0	4410.1	4405.0	4409.1	4405.7	4404.8
1.5°	4400.6	4406.0	4400.6	4403.8	4398.7	4396.5
2°	4394.1	4401.6	4394.1	4396.3	4388.5	4385.6
2.5°	4385.4	4393.6	4385.4	4385.9	4376.2	4371.6
3°	4373.5	4383.0	4373.5	4373.3	4361.4	4355.3
3.5°	4358.5	4369.1	4358.5	4357.8	4344.4	4336.4
4°	4340.3	4351.9	4340.3	4339.3	4326.0	4315.4
4.5°	4319.5	4331.1	4319.5	4317.3	4304.2	4290.9
5°	4295.2	4306.4	4295.2	4292.1	4280.0	4263.3
5.5°	4268.1	4277.8	4268.1	4262.1	4252.4	4232.5
6°	4238.1	4244.1	4238.1	4228.9	4221.1	4198.8
6.5°	4204.4	4206.6	4204.4	4191.1	4186.0	4162.0
7°	4168.3	4164.9	4168.3	4150.1	4146.7	4123.2
7.5°	4128.8	4121.3	4128.8	4105.1	4103.6	4082.0
8°	4085.9	4074.3	4085.9	4058.0	4057.1	4037.9
8.5°	4038.9	4026.3	4038.9	4007.9	4005.5	3989.7
9°	3987.5	3975.4	3987.5	3956.0	3950.5	3938.4
9.5°	3931.8	3925.3	3931.8	3903.2	3890.4	3881.7
10°	3870.8	3872.7	3870.8	3848.0	3827.9	3821.3
10.5°	3806.1	3818.7	3806.1	3791.0	3761.5	3757.4
11°	3738.5	3759.6	3738.5	3731.9	3693.9	3692.2
11.5°	3668.7	3694.6	3668.7	3668.2	3625.3	3624.1
12°	3599.4	3624.8	3599.4	3598.2	3556.5	3555.5
12.5°	3528.9	3547.1	3528.9	3522.4	3489.2	3483.3
13°	3457.2	3469.1	3457.2	3444.1	3420.8	3412.4
13.5°	3381.1	3385.5	3381.1	3362.4	3350.3	3338.7
14°	3301.6	3301.4	3301.6	3281.0	3276.2	3264.6
14.5°	3221.2	3218.3	3221.2	3200.4	3196.7	3187.5
15°	3138.3	3134.7	3138.3	3119.4	3113.6	3107.8
15.5°	3055.7	3056.4	3055.7	3038.8	3025.9	3022.5
16°	2972.4	2976.0	2972.4	2957.3	2938.0	2935.8
16.5°	2889.7	2898.5	2889.7	2874.0	2851.0	2844.4
17°	2807.9	2819.0	2807.9	2789.2	2763.8	2756.0
17.5°	2723.1	2734.0	2723.1	2700.3	2677.3	2666.6
18°	2634.1	2643.6	2634.1	2609.4	2588.3	2580.6
18.5°	2539.2	2546.4	2539.2	2514.4	2498.2	2490.9
19°	2435.0	2442.5	2435.0	2416.6	2404.0	2399.1
19.5°	2327.2	2334.2	2327.2	2313.1	2303.7	2303.2
20°	2214.5	2210.9	2214.5	2206.7	2201.7	2201.7
20.5°	2100.1	2089.5	2100.1	2100.4	2098.2	2101.8
21°	1996.7	1993.3	1996.7	1987.7	1996.7	1999.1

TEST NUMBER: P776150

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1757.3	1749.1	1757.3	1738.6	1723.1	1711.8
23°	1693.8	1694.1	1693.8	1668.4	1652.4	1644.6
23.5°	1628.6	1631.8	1628.6	1604.2	1594.0	1595.2
24°	1573.6	1575.1	1573.6	1553.8	1547.5	1542.2
24.5°	1522.3	1522.3	1522.3	1509.7	1504.1	1501.4
25°	1483.8	1483.3	1483.8	1472.1	1466.3	1462.9
25.5°	1445.7	1446.4	1445.7	1434.8	1428.8	1427.1
26°	1406.5	1407.7	1406.5	1398.2	1393.9	1392.4
26.5°	1372.8	1373.5	1372.8	1365.3	1360.2	1359.7
27°	1342.7	1345.2	1342.7	1333.3	1328.0	1326.5
27.5°	1311.5	1314.9	1311.5	1302.3	1297.2	1295.3
28°	1279.3	1282.4	1279.3	1272.5	1267.6	1265.7
28.5°	1249.2	1251.9	1249.2	1243.9	1239.3	1238.3
29°	1220.9	1223.8	1220.9	1216.3	1211.9	1211.2
29.5°	1194.5	1196.9	1194.5	1189.4	1185.7	1184.3
30°	1167.8	1170.2	1167.8	1163.0	1159.6	1158.1
30.5°	1141.9	1143.6	1141.9	1137.3	1133.9	1132.7
31°	1116.9	1119.4	1116.9	1112.1	1108.9	1107.7
31.5°	1092.7	1094.4	1092.7	1088.3	1085.0	1083.7
32°	1069.2	1070.9	1069.2	1064.8	1061.7	1060.7
32.5°	1045.9	1047.4	1045.9	1041.8	1039.6	1038.7
33°	1021.0	1022.4	1021.0	1019.1	1017.8	1017.4
33.5°	993.9	996.0	993.9	994.8	995.3	995.3
34°	965.8	970.6	965.8	968.9	969.4	970.4
34.5°	936.9	940.6	936.9	941.0	941.3	943.5
35°	907.6	910.0	907.6	911.5	911.5	914.4
35.5°	876.6	878.0	876.6	880.0	881.4	882.6
36°	844.6	844.9	844.6	846.5	849.2	849.7
36.5°	810.7	809.2	810.7	811.9	815.8	814.8
37°	776.0	774.1	776.0	776.8	780.2	777.3
37.5°	739.9	739.2	739.9	741.2	742.1	739.9
38°	704.1	703.4	704.1	703.1	704.3	702.6
38.5°	665.1	667.0	665.1	664.8	664.3	665.3
39°	626.3	630.2	626.3	626.3	625.1	627.3
39.5°	589.2	592.1	589.2	587.8	586.1	587.3
40°	552.7	554.8	552.7	550.5	548.3	547.3
40.5°	517.5	517.3	517.5	512.2	510.0	507.6
41°	481.2	480.2	481.2	474.9	471.7	469.1
41.5°	445.3	443.6	445.3	437.8	433.7	430.3
42°	409.9	408.7	409.9	402.4	396.9	393.5
42.5°	376.0	375.3	376.0	368.3	361.0	357.9
43°	343.8	343.1	343.8	335.1	327.6	323.5
43.5°	310.9	311.6	310.9	302.4	294.9	292.7



TEST NUMBER: P776150

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	221.4	224.6	221.4	213.7	205.5	204.5
45.5°	194.6	198.7	194.6	187.8	178.6	176.4
46°	171.1	175.4	171.1	163.3	153.4	151.7
46.5°	149.7	154.8	149.7	140.0	132.3	129.4
47°	129.4	134.2	129.4	118.5	112.4	109.0
47.5°	110.0	113.6	110.0	100.5	95.0	91.6
48°	92.3	93.0	92.3	83.8	80.0	75.8
48.5°	76.6	75.4	76.6	69.3	66.1	62.5
49°	63.0	61.1	63.0	56.2	54.0	51.8
49.5°	50.6	48.5	50.6	46.5	44.1	43.4
50°	41.2	38.8	41.2	37.3	34.6	34.9
50.5°	32.7	30.5	32.7	28.8	27.4	26.4
51°	26.2	24.2	26.2	23.5	20.8	20.4
51.5°	21.8	21.6	21.8	18.7	17.2	15.3
52°	17.2	18.9	17.2	15.7	14.3	13.3
52.5°	14.5	16.0	14.5	13.6	12.4	12.1
53°	12.6	13.3	12.6	11.6	11.6	11.4
53.5°	10.9	10.7	10.9	11.1	10.9	10.9
54°	10.4	10.2	10.4	10.4	10.4	10.4
54.5°	9.9	9.7	9.9	9.9	9.9	9.9
55°	9.4	9.2	9.4	9.4	9.4	9.4
55.5°	9.0	8.7	9.0	9.0	9.0	9.0
56°	8.5	8.2	8.5	8.5	8.5	8.5
56.5°	8.0	7.8	8.0	8.2	8.0	8.0
57°	7.5	7.5	7.5	7.8	7.5	7.5
57.5°	7.0	7.0	7.0	7.3	7.3	7.0
58°	6.8	6.5	6.8	6.8	6.8	6.8
58.5°	6.3	6.3	6.3	6.5	6.5	6.3
59°	6.1	5.8	6.1	6.1	6.1	6.1
59.5°	5.8	5.6	5.8	5.8	5.8	5.6
60°	5.3	5.3	5.3	5.6	5.3	5.3
60.5°	5.1	5.1	5.1	5.3	5.1	5.1
61°	4.8	4.8	4.8	4.8	4.8	4.8
61.5°	4.6	4.6	4.6	4.6	4.6	4.6
62°	4.4	4.4	4.4	4.4	4.4	4.4
62.5°	4.1	4.1	4.1	4.1	4.1	4.1
63°	3.9	3.9	3.9	3.9	3.9	3.9
63.5°	3.6	3.6	3.6	3.9	3.6	3.6
64°	3.6	3.4	3.6	3.6	3.4	3.4
64.5°	3.4	3.1	3.4	3.4	3.4	3.1
65°	3.1	3.1	3.1	3.1	3.1	3.1
65.5°	2.9	2.9	2.9	3.1	2.9	2.9
66°	2.9	2.9	2.9	2.9	2.9	2.7



TEST NUMBER: P776150
 CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	2.4	2.4	2.4	2.4	2.4	2.4
68°	2.4	2.2	2.4	2.4	2.2	2.2
68.5°	2.2	2.2	2.2	2.2	2.2	2.2
69°	2.2	1.9	2.2	2.2	1.9	1.9
69.5°	1.9	1.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	1.9	1.7	1.7
70.5°	1.7	1.7	1.7	1.7	1.7	1.7
71°	1.7	1.7	1.7	1.7	1.7	1.7
71.5°	1.7	1.5	1.7	1.7	1.5	1.5
72°	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5
73°	1.5	1.2	1.5	1.2	1.2	1.2
73.5°	1.2	1.2	1.2	1.2	1.2	1.2
74°	1.2	1.2	1.2	1.2	1.2	1.2
74.5°	1.2	1.2	1.2	1.2	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	1.0	1.0	1.0	1.0
76°	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	1.0	1.0	1.0	0.7	0.7	0.7
77°	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7
78°	0.7	0.7	0.7	0.7	0.7	0.7
78.5°	0.7	0.7	0.7	0.7	0.5	0.5
79°	0.7	0.5	0.7	0.5	0.5	0.5
79.5°	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.5	0.5	0.5	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.2	0.2
84.5°	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.0	0.0
85.5°	0.2	0.2	0.2	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: P776150

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRC-2500lm-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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Cooper Lighting Solutions Photometric Lab
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Scaled Data Report





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

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Scaled Data Report





21.5°	1894.4	1893.2	1896.6	1907.3	1905.8	1907.3	1896.6	1893.2	1894.4	1893.2	1896.6
22°	1788.1	1805.0	1813.0	1827.1	1825.4	1827.1	1813.0	1805.0	1788.1	1805.0	1813.0



44°	262.4	264.3	271.1	279.6	280.6	279.6	271.1	264.3	262.4	264.3	271.1
44.5°	233.1	234.3	240.8	249.6	252.0	249.6	240.8	234.3	233.1	234.3	240.8



66.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
67°	2.4	2.4	2.7	2.7	2.4	2.7	2.7	2.4	2.4	2.4	2.7



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°	1907.3	1905.8	1907.3	1896.6	1893.2	1894.4
22°	1827.1	1825.4	1827.1	1813.0	1805.0	1788.1



44°	279.6	280.6	279.6	271.1	264.3	262.4
44.5°	249.6	252.0	249.6	240.8	234.3	233.1

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66.5°	2.7	2.7	2.7	2.7	2.7	2.7
67°	2.7	2.4	2.7	2.7	2.4	2.4

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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)