

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



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584379

Luminaire Tested: **HCC8W35D010MW-HM82555827-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W35D010MW-HM82555827-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

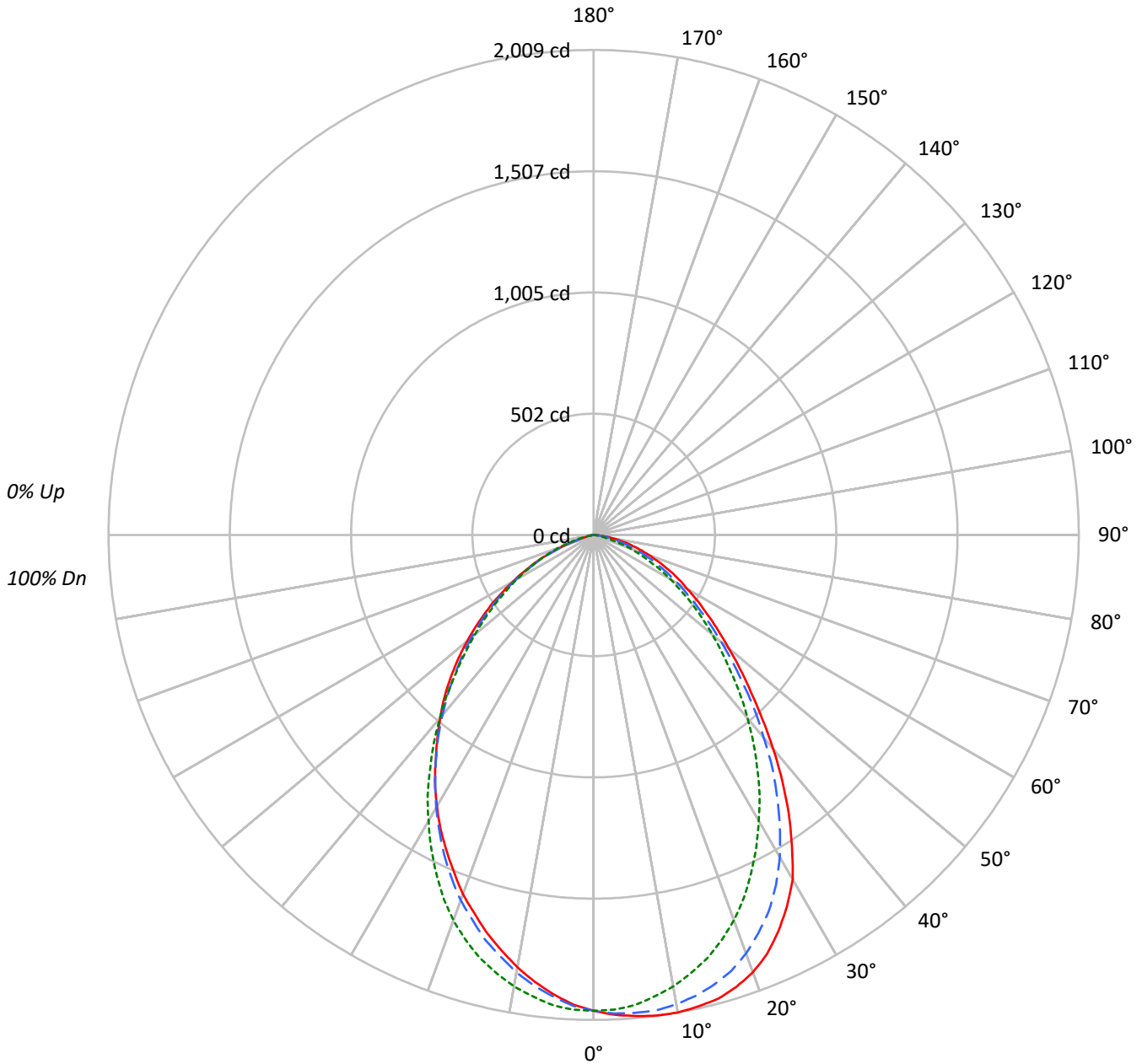
Lumens per Lamp: N/A  
Luminaire Lumens: 3695.4 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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: 25 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								
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	60785	60785	60785
5°	61930	60525	59119
10°	62896	59465	56953
15°	63526	57984	54488
20°	63284	55747	51976
25°	61618	52530	49076
30°	58683	48692	46225
35°	52988	44443	42933
40°	46554	39892	39779
45°	40186	35062	36575
50°	34982	30751	32804
55°	31020	26709	28580
60°	27679	22572	23725
65°	24947	18321	18708
70°	22152	13731	11081
75°	19099	7947	4766
80°	14704	2859	1421
85°	9447	920	920

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.0	5.0
10°-20°	515.1	13.9
20°-30°	728.6	19.7
30°-40°	767.8	20.8
40°-50°	652.5	17.7
50°-60°	469.9	12.7
60°-70°	271.0	7.3
70°-80°	92.7	2.5
80°-90°	12.7	0.3
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°	1428.8	38.7
0°-40°	2196.5	59.4
0°-60°	3318.9	89.8
0°-90°	3695.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1971	1971	1971	1971	1971	
5°	2001	1987	1955	1920	1910	191
15°	1990	1928	1816	1736	1707	560
25°	1811	1718	1544	1464	1442	831
35°	1408	1325	1181	1138	1140	877
45°	922	879	804	809	839	716
55°	577	532	497	516	532	519
65°	342	294	251	246	256	340
75°	160	120	67	43	40	169
85°	27	16	3	3	3	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2
2.5°	1989.9	1992.6	1989.9	1989.9	1987.2	1984.6	1982.0	1979.2	1973.9	1968.6	1968.6
5°	2000.7	2005.9	2000.7	2000.7	1992.6	1987.2	1982.0	1973.9	1963.2	1955.3	1955.3
7.5°	2008.7	2008.7	2008.7	2000.7	1995.3	1987.2	1973.9	1960.5	1947.2	1933.8	1928.5
10°	2008.7	2008.7	2005.9	1995.3	1989.9	1973.9	1960.5	1941.8	1923.1	1904.5	1899.1
12.5°	2000.7	2003.3	1997.9	1987.2	1973.9	1955.3	1936.6	1912.5	1891.0	1869.7	1859.1
15°	1989.9	1987.2	1982.0	1968.6	1952.5	1928.5	1909.9	1883.1	1853.7	1827.0	1816.3
17.5°	1963.2	1963.2	1955.3	1941.8	1920.5	1893.8	1864.4	1835.0	1803.0	1773.5	1760.2
20°	1928.5	1928.5	1917.8	1901.8	1880.4	1845.6	1813.7	1778.9	1741.5	1712.2	1698.8
22.5°	1877.7	1880.4	1867.1	1848.4	1824.3	1784.3	1752.2	1709.4	1672.0	1637.3	1626.6
25°	1811.0	1816.3	1803.0	1784.3	1752.2	1717.5	1677.4	1637.3	1594.7	1559.9	1543.9
27.5°	1733.5	1736.1	1722.8	1704.2	1672.0	1634.7	1594.7	1551.9	1511.8	1474.4	1458.4
30°	1648.1	1637.3	1632.0	1608.0	1573.2	1541.2	1495.8	1461.1	1418.3	1386.3	1367.5
32.5°	1527.8	1533.2	1517.1	1498.5	1471.7	1434.4	1397.0	1356.9	1316.8	1292.8	1279.5
35°	1407.6	1413.0	1405.0	1386.3	1356.9	1324.9	1287.5	1258.0	1223.4	1193.9	1180.6
37.5°	1282.1	1282.1	1276.7	1266.0	1244.7	1215.4	1177.9	1148.5	1119.2	1095.1	1087.1
40°	1156.5	1151.3	1148.5	1140.5	1121.8	1095.1	1071.1	1047.1	1017.7	1001.6	991.0
42.5°	1033.8	1033.8	1028.4	1020.3	1001.6	988.2	964.3	937.6	916.1	900.2	900.2
45°	921.5	924.1	916.1	910.8	900.2	878.7	857.4	838.7	820.0	809.4	804.0
47.5°	822.7	822.7	814.6	809.4	798.6	779.9	761.2	745.3	731.9	723.8	721.2
50°	729.2	729.2	729.2	715.8	702.5	689.1	675.8	657.1	649.1	643.7	641.0
52.5°	649.1	646.4	646.4	635.7	622.4	606.3	593.0	577.0	568.9	563.5	566.3
55°	577.0	577.0	574.3	560.9	547.6	531.6	518.1	504.8	499.4	494.2	496.8
56°	547.6	547.6	544.9	534.2	518.1	504.8	488.8	475.5	467.5	470.1	470.1
57°	526.2	520.9	520.9	507.5	494.2	475.5	462.1	448.8	443.4	440.7	440.7
58°	499.4	496.8	494.2	480.8	467.5	451.4	438.1	424.7	416.7	416.7	414.0
59°	472.7	472.7	467.5	456.8	443.4	427.3	414.0	400.6	392.6	389.9	389.9
60°	448.8	451.4	443.4	432.7	422.1	403.4	387.3	376.7	368.6	366.0	366.0
61°	427.3	427.3	422.1	408.6	395.3	381.9	366.0	352.6	347.2	341.9	341.9
62°	408.6	403.4	400.6	387.3	373.9	358.0	344.5	331.2	323.2	317.8	320.6
63°	384.7	381.9	376.7	366.0	352.6	336.5	320.6	309.8	301.8	293.9	296.5
64°	366.0	363.2	355.2	344.5	331.2	315.2	299.1	288.5	283.1	275.1	272.4
65°	341.9	339.3	336.5	323.2	309.8	293.9	280.5	269.8	261.8	256.4	251.1
66°	320.6	323.2	317.8	307.2	291.1	277.8	259.1	248.5	243.1	235.0	229.7
67°	301.8	301.8	296.5	285.8	269.8	256.4	243.1	229.7	221.7	213.7	211.0
67.5°	291.1	291.1	285.8	272.4	261.8	245.7	232.4	221.7	211.0	205.7	200.3
68°	280.5	280.5	277.8	267.2	253.7	237.7	224.4	211.0	200.3	192.3	189.6
69°	261.8	264.4	259.1	248.5	235.0	219.0	205.7	195.0	184.3	176.3	171.0
70°	245.7	243.1	237.7	227.0	213.7	202.9	189.6	176.3	165.6	154.9	152.3
71°	224.4	224.4	219.0	211.0	197.7	184.3	171.0	160.3	149.6	136.2	133.6
72°	208.3	208.3	202.9	192.3	181.6	168.3	154.9	141.6	133.6	120.2	114.9
72.5°	197.7	200.3	195.0	184.3	173.6	157.5	146.9	136.2	122.9	112.1	106.9
73°	192.3	189.6	187.0	176.3	162.9	152.3	138.8	128.2	114.9	104.2	98.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	120.2	120.2	117.5	106.9	96.2	85.4	74.8	64.1	53.4	42.8	37.4
80°	82.8	85.4	80.1	74.8	66.7	56.1	45.4	37.4	26.7	21.3	16.1
82.5°	53.4	53.4	50.8	45.4	40.0	32.1	26.7	18.7	13.3	10.7	8.0
85°	26.7	29.4	26.7	24.1	18.7	16.1	13.3	8.0	5.4	2.6	2.6
87.5°	10.7	10.7	10.7	8.0	8.0	5.4	2.6	2.6	2.6	0.0	0.0
90°	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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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2
2.5°	1963.2	1963.2	1957.9	1955.3	1952.5	1949.9	1947.2	1944.5	1944.5	1947.2
5°	1947.2	1941.8	1931.2	1928.5	1920.5	1917.8	1912.5	1909.9	1912.5	1909.9
7.5°	1923.1	1912.5	1899.1	1893.8	1883.1	1877.7	1869.7	1869.7	1864.4	1867.1
10°	1891.0	1875.1	1859.1	1848.4	1840.4	1832.3	1827.0	1821.7	1818.9	1818.9
12.5°	1851.0	1832.3	1816.3	1800.2	1786.9	1781.5	1770.9	1770.9	1765.6	1762.9
15°	1805.6	1781.5	1762.9	1746.9	1736.1	1725.5	1717.5	1712.2	1706.8	1706.8
17.5°	1746.9	1725.5	1706.8	1688.1	1672.0	1664.0	1656.0	1648.1	1648.1	1642.7
20°	1682.7	1658.8	1642.7	1624.0	1610.6	1597.3	1586.6	1586.6	1581.2	1583.9
22.5°	1610.6	1581.2	1565.2	1551.9	1538.5	1527.8	1517.1	1517.1	1514.5	1511.8
25°	1530.6	1506.5	1487.8	1471.7	1463.7	1453.1	1450.4	1445.0	1442.4	1442.4
27.5°	1445.0	1426.3	1402.3	1394.2	1383.6	1378.3	1378.3	1375.5	1370.3	1372.9
30°	1354.2	1332.9	1319.5	1314.2	1303.4	1303.4	1300.8	1295.5	1295.5	1298.2
32.5°	1266.0	1244.7	1234.1	1231.3	1220.6	1220.6	1218.0	1220.6	1220.6	1223.4
35°	1170.0	1151.3	1148.5	1140.5	1137.9	1137.9	1137.9	1143.3	1148.5	1140.5
37.5°	1079.2	1065.7	1057.7	1055.1	1057.7	1057.7	1060.3	1068.4	1065.7	1063.1
40°	985.6	974.9	969.5	969.5	974.9	980.3	980.3	988.2	991.0	988.2
42.5°	892.2	884.1	884.1	886.8	892.2	894.8	902.8	910.8	913.5	916.1
45°	804.0	804.0	804.0	806.6	809.4	814.6	825.3	833.3	836.1	838.7
47.5°	718.6	715.8	723.8	726.5	734.5	737.2	745.3	755.9	758.6	761.2
50°	638.4	643.7	646.4	654.3	659.7	659.7	670.4	675.8	683.8	683.8
52.5°	563.5	571.6	574.3	582.3	585.0	587.6	593.0	601.0	606.3	606.3
55°	496.8	499.4	504.8	507.5	515.5	518.1	523.5	526.2	534.2	531.6
56°	467.5	472.7	475.5	480.8	486.1	488.8	494.2	496.8	502.2	504.8
57°	440.7	443.4	451.4	454.0	459.4	459.4	462.1	470.1	470.1	472.7
58°	414.0	419.3	422.1	424.7	430.1	432.7	438.1	440.7	443.4	440.7
59°	389.9	392.6	395.3	395.3	400.6	400.6	408.6	414.0	416.7	416.7
60°	366.0	366.0	368.6	371.3	376.7	379.3	379.3	384.7	384.7	384.7
61°	341.9	341.9	344.5	347.2	349.9	349.9	355.2	355.2	358.0	360.6
62°	320.6	317.8	317.8	320.6	320.6	325.9	328.5	331.2	333.9	331.2
63°	296.5	293.9	293.9	293.9	293.9	299.1	299.1	301.8	307.2	304.5
64°	269.8	269.8	269.8	269.8	272.4	272.4	277.8	280.5	283.1	285.8
65°	251.1	245.7	243.1	243.1	245.7	248.5	251.1	253.7	256.4	256.4
66°	229.7	224.4	221.7	221.7	221.7	221.7	227.0	227.0	232.4	232.4
67°	205.7	200.3	197.7	195.0	195.0	195.0	202.9	200.3	200.3	200.3
67.5°	197.7	189.6	187.0	184.3	181.6	187.0	184.3	187.0	187.0	184.3
68°	187.0	181.6	176.3	171.0	171.0	171.0	173.6	176.3	173.6	171.0
69°	165.6	162.9	154.9	149.6	146.9	149.6	146.9	149.6	146.9	149.6
70°	146.9	138.8	130.8	128.2	125.6	125.6	125.6	122.9	125.6	122.9
71°	128.2	120.2	112.1	106.9	104.2	104.2	101.5	104.2	101.5	104.2
72°	109.5	101.5	90.8	85.4	85.4	85.4	85.4	82.8	85.4	82.8
72.5°	101.5	90.8	82.8	77.5	74.8	74.8	74.8	74.8	72.1	74.8
73°	93.4	82.8	72.1	69.5	69.5	69.5	66.7	64.1	66.7	66.7





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	32.1	24.1	21.3	21.3	21.3	21.3	21.3	21.3	18.7	18.7
80°	13.3	10.7	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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74°	173.6	173.6	168.3	160.3	146.9	133.6	122.9	112.1	98.8	85.4	80.1
75°	160.3	157.5	152.3	144.2	133.6	120.2	109.5	96.2	85.4	72.1	66.7

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74°	77.5	64.1	58.8	53.4	53.4	53.4	50.8	50.8	50.8	53.4
75°	61.5	50.8	45.4	40.0	42.8	40.0	42.8	40.0	40.0	40.0

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(END OF REPORT)